Public information should be made public.

Public information refers to everything that explains our citizenship. Public means everything that we agree should be available to the body politic.

Making information public is somewhat less generic. This public means presenting, designing & structuring this information so that it is accessible, available, understandable & free.

Public means that the simple basic questions in the minds of the American people are easily, readily & clearly answerable. It is our right to question & get answers.

This book is a celebration & a visual demonstration of questions & answers leading to understanding.

This book demonstrates the power inherent in understanding & the notion that understanding is power.

In 1975 I began preparing for a gathering of five thousand architects in Philadelphia the following year to coincide with the 200th anniversary of the founding of the United States in that same city.

As national chairman of the AIA convocation, I entitled it the Architecture of Information & began to call myself an Information Architect.

This field is a three-way marriage among the information technology corporations, the talent of great American graphic designers & the abilities of researchers & librarians to focus on making the complex clear.

Now in the year 2000, the focus of this book is on the power of understanding. I hope readers will develop their own intricate road maps of follow-up questions to address our leaders, would-be leaders, each other, parents, friends & children.

The word public shares the same root as publication. So it is fitting to publish this book for the public. The idea has been part of my recurring vocabulary every four years over the past twelve years. Circumstances happily conspired to put off its birth until now—the millennium year.

Why is this moment a good one besides the symbolic three zeros?

For the first time, this is a moment in history when messages, content & dynamic images can be sent to hundreds of millions of people with seemingly less effort than scribing a page in a 13th Century

book of hours. Information technology has gained muscles & maturity. It has gone from look at me, look at me & the show off of boys with their toys to why are we doing all this?

The next great American business is the learning business. This business is the child of entertainment & information technology using information architecture as its guidebook.

UNDERSTANDING is a concept that addresses a special moment in history. The advent of the millennium has resulted in considerable & excellent media analysis focused on historical milestones & prognostications.

This book however looks at now—the beginning of what is a new year, a new president, a new decade, a new century, a new millennium & a new field of human endeavor. So by definition it is already out of date. However, it clearly presents the big picture that makes the complex clear & reveals a number of issues about the ownership of information. Certain segments of valuable up-to-date statistics were proprietary & therefore not available to us. It also reveals the crying need for standardization of selected modes of display. This would enable us to understand information comparatively.

We are at an amazing moment of a Gutenberg-level event, with electronic wings able to fly through understandable information of our own choosing. With Velcro claws we collect all the data that warm & answer our inherent curiosity & questions.

I dream of asking a question, a simple childlike question & receiving an answer. What a dream!

The dream is here.

We are at the cusp of the marriage of information technology & information architecture. Our extraordinary ability to store & transmit data will make this dream a waking dream.

Louis Kahn said beginnings, beginnings, beginnings, beginnings—I love beginnings.

This is such a beginning—the primitive formation of a new era.

This is the Romanesque before the Gothic.

This is the temples at Paestum before the Parthenon.

This is Cimabué & Giotto before Piero della Francesca.

As the child of the 20th Century's information technology industry, the Information Architect shall become a mature, even robust, player in the 21st Century.

Conversation is the most natural, effective, yet most complex mode of human connection. The goal of conversation is understanding between the participants.

Successful visual communication design can be defined as frozen conversation much as wonderful architecture is referred to as frozen music.

Understanding information is power.



UNDERSTANDING ISSUES UNDERSTANDING NUMBERS

A frog found himself on a lily pad surrounded by alligators. If only I could hop far enough to clear the alligators and land on the next lily pad, he cried.

Why don't you just take off and fly? said a voice. The frog looked up and saw a wise old owl sitting on a branch overhead. Just fly to the next lily pad, advised the owl.

The frog got a running start, flapped his legs and came down right in the middle of the alligators. Stupid owl, he shouted, trying frantically to escape the hungry alligators, frogs can't fly!

That's an implementation issue, *said the owl*. I just deal in concepts.

As we go through life simply trying to clear the alligators and land on the next lily pad, we are forced to confront our share of issues every day. We don't have the owl's luxury of dealing only in concepts. Concepts are abstract. Issues are concrete. They have consequences, as the frog quickly discovered. While both concepts and issues require thought and imagination, issues also demand involvement, action, and resolution. Concepts are born of ideas. Issues are born of exigencies. Concepts live in an environment of wonderment and what ifs while issues exist in an atmosphere of urgency. Concepts are pondered; issues are decided. Concepts are like Sunday drives in the country. Issues are like rush hour traffic in a big city.

Issues can be personal or public. They can involve making decisions that affect only one person or multitudes. And, while some can be decided quickly, others take years to resolve. But regardless of their scope, issues inherently involve elements of conflict, choice, and consequence. Let me offer two extreme examples.

Deciding on an anniversary gift for my wife is an issue for me (though forgetting it would be an even bigger one) because I've thought of several possibilities. This is a very personal issue. Its resolution will affect only my wife and me, and I can decide quickly without a great deal of consternation or consultation with other people.

Deciding on the best way to ensure the long-term solvency of Social Security is a much more complex and public issue. We will be able to pay only 75 percent of full benefits after 2032, so there is a driving need to figure out how to make up the other 25 percent. Conflict emerges because a number of alternatives are being proposed, ranging from modest adjustments, to alternative forms of investing Social Security surpluses, to scrapping the current system. Each alternative has consequences. Congress and the President will need to choose among the various options (or some combination of them), and that choice will have consequences, both for the people who need and benefit from Social Security and for the elected representatives who have to make the decision.

While these two examples are at opposite ends of the issue spectrum, they both get resolved through a process of persuasion and perception.

With so much information available to people today, the challenge of how to build and understand persuasive arguments that help people understand issues and become involved in resolving them, will determine whether we land on the next lily pad or in the stomach of the alligators.

Horace Deets has been Executive Director of the American Association of Retired Persons (AARP) since 1988.

An ant makes its way across the lawn. It has no idea what lies beyond the blades of grass in front of it.

We are like ants when we look at numbers. We might understand what we can see, but the rest of our garden is a mysterious jungle. Yet America defines itself with numbers: from the #1 superpower, past the million men marching and the billions of burgers sold, to the trillions of our national debt. The mysterious jungle starts somewhere between a million and a billion. Million, billion, trillion; such little changes in the words hide huge differences in the quantities. If we define ourselves with numbers, shouldn't we try to understand them a little better?

How much bigger than a billion is a trillion? One thousand times. Three zeros bigger. It's a number so big, it needs to be seen in a human context before we can really grasp its size.

So, we might say: It's the year I, the beginning of the first millennium, and you have a trillion dollars to spend, at the rate of a million dollars a day. At just before three years, you've reached a billion. You keep spending, and now you are in the year 2000. You still have 737 years to go, spending a million every day, before you reach the end of your trillion dollar pile.

We can see that in our minds because we know the length of a day, we can imagine spending a million dollars and we know all about millenniums at the moment. The elements of this word picture are ones we recognize.

The charts in **UNDERSTANDING** are pictures of numbers. Pictures help us to see numbers and to begin to understand what they mean. In these pages information architects have made pictures of time, money, distance, storage capacity, bandwidth by examining the numbers, and making them visible.

Not only are some of these numbers big, but sometimes one set of statistics about a certain subject will disagree with a second set about the same subject. Round numbers are always false wrote Samuel Johnson. Today, round numbers are often more believable, even though we may have the computing power to state any number right down to the last insignificant digit. Right now (exactly 12:24 PM EDT on 28 July 1999) the U.S. Census home page tells me that the population of the U.S. is 273,103,725. The precision of those last three numbers is astonishing! How do they know that? They guess—they call it making a projection—based on a formula of how many people are being born and how many are dying in a given time period.

A mouse click away at the U.N. Population website, that too-precise guess of America's population by the Census Bureau has risen to 274,028,000. (At least they admit the guess by rounding off the last three numbers.) The U.N. number is a difference of enough people to populate a city the size of Detroit, currently the 10th largest in the country.

To understand numbers we must ask questions: What's the source? Is it impartial? What would Planned Parenthood's population number be?

Some scientists say that ants do not sleep. If they don't sleep, they don't dream, And if they don't dream, they have no imagination.

Understanding numbers is part imagination, part skepticism, part wonder. Read on, you'll understand.

Nigel Holmes has designed maps, charts and diagrams for most major American publications including **Time** where he was **Graphics Director**.

NIGEL HOLMES

HORACE DEETS

UNDERSTANDING **POLLS** ACKNOWLEDGEMENTS

Public opinion polls play an increasingly influential role in American society.

This year Presidential candidates will spend millions on polling and virtually every congressional and gubernatorial candidate in a competitive race will hire a pollster. The news media conducts its own polls, as do foundations, university research centers, special interest groups and just about any organization with a stake in public opinion and the wherewithal to fund surveys.

Opinion surveys have proliferated because they are effective tools for their various constituencies. To successfully run an expensive media race, a candidate for high office must use polling to help guide the huge sums spent on these campaigns. Surveys are used to identify voter concerns, assess candidate images and test the effectiveness of advertising decisions. For editorial purposes news media surveys provide a systematic and independent overview of public opinion which is far more reliable than pundit judgements of what Americans think or man on the street interviews. The credibility of these polls is based upon a generally good record of predicting elections. (The published national polls had an average error of 1.9 percentage points for their final estimate of the Presidential vote in 1996.)

Special interest groups use polls to draw attention to issues or as lobbying tools and academics take readings of public opinion for scholarly purposes. In all of these realms, polling renders relatively crude and often unidimensional portrayals of public opinion, but these are far superior to the alternative of depending on pundits or other subjective descriptions of public opinion.

More often than not polling provides a corrective to the characterizations of public opinion by the media and political elites which was certainly true during the Lewinsky scandal and President
Clinton's impeachment. National surveys that found consistent support for the
President and little indications of expected big Democratic losses in the midterm election frustrated, and ultimately upended the assertions of the pundits and the chattering class.

Nonetheless, the criticism that surveys convert leaders into followers is a continuing one.

Bill Clinton in particular has been charged as offering poll-driven policies. Perhaps the best defense of the President and of the role of polling came from historian Gary Wills who pointed out in a New York Times Magazine article that complaints about lack of leadership are common in every period of history, and that accusing leaders of being followers because they watch polls is an oversimplification.

He describes leadership as a balancing act, with polls showing good leaders how to juggle conflicting demands, and how to walk through the mine fields... It seems obscurantist to say so. The great leader uses every kind of knowledge that can be had.

As a pollster, the public's will often appears inchoate and inconsistent on specific questions about national policy that the people prefer to delegate to elected leaders. But on the big questions about the leadership and direction of the country, the public is usually quite clear and polls, when conducted in a non-partisan objective manner, are generally right.

Preeminent pollster Andrew Kohut has been the Director of the Pew Research Center since 1993.

Remarkable people create remarkable work.

The pages of this book are filled with the gifts of talented individuals who share a common passion. Their passion is to make the complex clear, to design understanding and to freeze visually the conversations that go between questions & answers.

This book could only be conceived with the knowledge that these remarkable contributors existed & that naturally attached to the theme of this project are the pheromones necessary to attract the deep financial support that was forthcoming from the best corporations and institutions in the USA.

America Online Inc. www.aol.com

General Motors Corporation www.gm.com

Hearst Communications Inc. www.hearstcorp.com

Intel Corporation www.intel.com

The Markle Foundation www.markle.org

Mattel Inc. www.mattel.com

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Steelcase Inc. www.steelcase.com

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Kohut is a frequent press commentator on the meaning and interpretation of opinion poll results. In recent national elections he has served as a public opinion consultant and analyst for National Public Radio. He is a regular contributor to the NewsHour with Jim Lehrer and is the co-author of The People, The Press and Politics and Estranged Friends? The Transatlantic Consequences of Societal Change. Kohut received an A.B. degree from Seton Hall University in 1964 and studied graduate sociology at Rutgers, the State University, from 1964 to 1966.

For their help researching most of the web sites that appear here & the extensive bibliographical information that will appear in our future web site www.understandingusa.com.

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Special thanks for her major collaboration on the first chapter.

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■ Throughout the book this symbol designates web sites and their descriptions provided by the team of federal librarians put together by **John Shuler** which will be hotlinked from our new web site www.understanding usa.com.



Reed Agnew and Don Moyer, with Grant Smith, founded Agnew Moyer Smith Inc. in 1980 after working together at the Westinghouse Corporate Design Center. The firm, now with nearly 70 people, has six areas of design practice—information architecture, branding and identity, interaction design, packaging, environmental graphics, and marketing support. Clients include corporations, governments, agencies, and institutions both in the U.S. and abroad. Steelcase, McDonald's, Westinghouse, Rockwell Automation, and Fisher Scientific are a few notable clients.

Reed received a B.S. in engineering from Lehigh University along with honor awards in both writing and painting. Headed toward a career in architecture, he detoured to the Westinghouse Design Center where he was deeply influenced by consultants Eliot Noyes, Paul Rand and Charles Eames, and introduced to the broader possibilities that other design disciplines presented.

Don Moyer received a B.F.A. in Graphic Design from the Philadelphia College of Art (now the University of the Arts) and later an M.F.A. from Yale University. He worked as a designer in Philadelphia and Toronto before joining the Westinghouse Corporate Design Center in 1076.

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He has won many design awards and his work is represented in the permanent collections of museums in New York, Washington D.C. and Montreal. He has served as president of the New York Chapter of the AIGA, and is currently the AIGA's national president. He is a vice president of the Architectural League of New York and a member of the AGI. He writes frequently about design and is a contributing editor to I.D. magazine; he is a coeditor of the Looking Closer anthologies of design criticism and designed and coedited the recent monograph Tibor Kalman: Perverse Optimist. He is also a visiting critic in Graphic Design at the Yale School of Art.

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Asymptote's work is at the forefront of the design of interactive three dimensional architectural environments intended for the space of the computer. Their commissions include the Guggenheim Virtual Museum and their design of a virtual environment for the New York Stock Exchange. Asymptote has also been commissioned for a new Advanced Command Center on the NYSE trading floor. This space will not only display their virtual project on a large scale for Operations' purposes but will also become a new backdrop for media reporting from the Exchange floor.

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Ms. Green began her career with a degree in Political Science from Newcomb College of Tulane University, and then from Parsons School of Design. Her recent work includes the design of places where people come to be informed and entertained.

Ms. Green serves on the Board of Hallmark Cards and is Past President of both the AIGA and the International Design Conference in Aspen. She received an Honorary Doctor of Fine Arts from the Corcoran School of Art in 1998 and is currently an Executive Partner at USWeb / CKS.

Michael Donovan is a Designer and Information Architect with a passion for making the complex understandable. He holds degrees from Iowa State University and Parsons School of Design.

Mr. Donovan has taught Environmental Design at Parsons School of Design and Exhibition Design at Pratt Institute. He serves on several boards including those of AIGA, Society of Environmental Graphic Designers, College of Design at Iowa State and Parson's School of Design.

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INFORMATION ARCHITECTS INFORMATION ARCHITECTS



Robert M. Greenberg is Chairman and CEO of R/GA Digital Studios, a design and production company well known for pioneering new media and the creative integration of film, video and computer-imaging techniques. Bob has forged a unique interdisciplinary approach to media, and along the way has won almost every industry award for creativity, including the Academy Award, Clios and Cannes Lions.

Bob has been presented with numerous awards and honors, including honorary Doctor of Fine Arts degrees from The University of the Arts/Philadelphia College of Art and Otis College of Art and Design, the prestigious Fuji Medal, conferred by unanimous vote of the Society of Motion Picture & Television Engineers' Board of Governors, the New York City Mayor's Crystal Apple Award and the DaimlerChrysler Design Award, which was accompanied by a show of R/GA's work at San Francisco MoMA.

He is an active member of many professional groups including the AGI; the Academy of Motion Picture Arts & Sciences; the Technology Board of the National Academy of Television Arts & Sciences; Brooklyn Academy of Music Board of Trustees; the Board of Advisors for TED9; the Board of Governors of the Association of Independent Commercial Producers; the Board of the Ross Institute; the Advisory Board for the Newark Museum; the New York City Mayor's Subcommittee for Film, Theatre & Broadcasting; the Board of Trustees of the Studio School of Art and the Dean's Council Advisory Board of Tisch School of the Arts.

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Nigel Holmes does explanation graphics. In 1966, he graduated from The Royal College of Art in London, and ran his own graphic design studio in England until 1978 when Walter Bernard hired him to work at Time Magazine in New York.

As Graphics Director of Time, his pictorial explanations of complex subjects gained him notoriety, many imitators and a few academic enemies.

After 16 years, Time gave him a sabbatical, and he never went back. Now he has his own company, which tries to explain things to and for a wide variety of clients, including Apple, Encyclopaedia Britannica, GE, Kodak, The Natural Resources Defense Council, Sony and Visa, and he continues to do explanatory diagrams for publications such as Attaché, Discover, Esquire, Golf Digest, Modern Maturity, Navigator, Sports Illustrated, The New Yorker, The New York Times, Wired and various divisions of Time.

He has written four books on aspects of information design, and a book you can put in your pocket that explains the Internet to busy people. It is based on lectures he gave to Fortune 500 executives (really busy people), and is now in its 4th U.S. edition and has been translated into Danish.

He has lectured in India, Japan, Brazil and all over Europe and the United States, at times attempting live performances of statistics, and at other singing about them (not very well) during the lecture.

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Kit Hinrichs studied at the Art Center College of Design in Los Angeles, California and began his career doing both illustration and design in several New York design offices. Later, he formed an independent design consultancy with Anthony Russell. In 1976, Kit and his wife Linda moved to San Francisco and formed a national partnership called Jonson, Pedersen, Hinrichs & Shakery. In 1986, the San Francisco office merged with Pentagram.

Kit's accumulated design experience incorporates a wide range of projects. At Pentagram he leads a graphic design team with expertise in corporate communications and promotion, packaging, editorial and exhibition design.

He has been an instructor at the School of Visual Arts in New York, the California College of Arts and Crafts in San Francisco and at the Academy of Art in San Francisco. He has been a guest lecturer at the Stanford Design Conference, AIGA National Conferences, and numerous other design associations and universities. Kit's work has been honored and published widely, and several of his pieces are part of the permanent collection of the Museum of Modern Art. He is co-author of three books, Vegetables, Stars & Stripes, and Typewise. Kit is an AIGA Fellow and past executive board member and a member of the AGI. Currently, he is a trustee of Art Center College of Design, a board member of the San Jose Museum of Art, and serves on the Accessions Design and Architecture Committee at the San Francisco Museum of Modern Art.

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Katz holds a BA Scholar of the House with Exceptional Distinction and BFA and MFA degrees in graphic design from Yale. He has taught at Yale, Rhode Island School of Design, and the University of the Arts, and is the co-author of two books. He was made an honorary life member of the International Paediatric Nephrology Association for his work on developing a graphic notation for visualizing infants' kidney function.

Projects include: illustrative diagrams of monoclonal antibody function using a Star Wars metaphor; Walk!Philadelphia, a pedestrian wayfinding system featuring heads-up diskmaps; and interpretive graphics for Independence Mall.

Katz writes and lectures widely; his diagrammatic and cartographic work has been featured in numerous publications, including Information Architects by Richard Saul Wurman and The Best in Diagrammatic Graphics by Nigel Holmes. Katz was the first president of AIGA/Philadelphia, and a director and vice president for chapters of AIGA National.

Collaborators: David E. Schpok, designer, is an Associate of JKda; Monique Boujean Williams, researcher, is a third-year Ph.D. candidate in Demography at the University of Pennsylvania; Jennifer Long and Mary Torrieri are designers at JKda.

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Paul Kahn has an English Literature degree from Kenyon College. He began working with text processing systems at Harvard University in 1977 as an analyst and production editor. He was an application specialist for communication software for Atex, Inc. In 1985 he moved into hypertext research at Brown University's Institute for Research in Information and Scholarship (IRIS) serving as Director from 1990-94. He teaches at Rhode Island School of Design.

Krzysztof Lenk is Director of Design and Paul Kahn is President of Dynamic Diagrams, an information design firm specializing in the mapping of knowledge and the presentation of information on the computer screen. Since its founding in 1991, d/D has worked with major companies in the fields of hardware (IBM, Silicon Graphics Inc., Sun Microsystems) and software (Microsoft, Netscape Communications), publishing (Encyclopaedia Britannica, Nature, McGraw-Hill, Verlagsgruppe Georg von Holtzbrinck), and financial services (Merrill Lynch), creating visualizations of information collections, and web site architecture and design. Dynamic Diagrams became part of Cadmus Communications in 1999.

Acknowledgement: Ryutaro Sakai. Born and educated as a designer in Japan, Ryutaro is now a Graduate Program student at Rhode Island School of Design.

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Clement Mok joined Sapient in August 1998 with the acquisition of Studio Archetype. Since 1988 Clement has been helping establish clients' digital presence using interactive media and, more recently, the Internet. As Chief Creative Officer at Sapient, Clement plays a crucial role in helping to make Sapient synonymous with interactive design. Both an advocate and thought leader for the design industry, he has received hundreds of awards from numerous professional organizations and publications. Clement is uniquely qualified to oversee the multi-disciplined creative community at Sapient.

Clement began his design career in New York, where he developed print, broadcast graphics and exhibition projects for clients such as Rockefeller Center, Republic National Bank, and CBS. Prior to forming his own agency, Studio Archetype, he spent five years as a creative director at Apple Computer.

Mok is also founder of two other successful software companies. CMCD's Visual Symbol Library was the industry's first CD-ROM title company that provided royalty-free silhouetted images for digital manipulation. NetObjects, one of Fortune's 1996 Top 25 Coolest Technology Companies, develops Web site authoring software. Clement also holds patents to the company's award-winning software NetObjects Fusion.

Clement is the author of Designing Business: Multiple Media, Multiple Disciplines from Adobe Press and sits on the Board of Trustees at The Art Center College of Design and the Board of Directors of AIGA. He is on the advisory boards of numerous technology companies and colleges.

E-mail: cmok@sapient.com. Web site: www.sapient.com.



Ramana Rao, a founder of Inxight Software, Inc., leads its charge to build next-generation interface and information software products for the ever growing community of Internet users.

Throughout his career, Ramana has pursued the goal of building interactive systems that enable people to perform much better on various knowledge tasks. Ramana is the designer and co-inventor of Hyperbolic Tree and Table Lens, two innovative techniques for effectively interacting with large amounts of information.

In a ten year stint at Xerox's Palo Alto Research Center [PARC], Ramana was a key member of the team that pioneered the field of information visualization. His work includes 25 patent filings and numerous research papers.

Ramana has been a noted speaker at many conferences and is frequently quoted by the media on topics ranging from interactive design to corporate innovation.

Ramana received BS and MS degrees from Massachusetts Institute of Technology in computer science and engineering. He resides in California with his wife and two quickly growing daughters.

Acknowledgements: Ramana's "architecture" would have been left to stock molding and white paint, except for collaborations with several talented people. Jean Orlebeke generously contributed her talent on all aspects of the chapter's design and execution. Karen Theisen designed most data graphics and many spread elements. Erik Adigard and M.A.D. provided design advise throughout. Steve Kearsley contributed illustrations and Gabriella Rossi provided production assistance.

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Tom Wood develops comprehensive, long-term communications programs for a select group of clients, specializing in information design for print and interactive media, corporate identity and literature systems.

Tom's primary concern is making information clear, effective and intriguing. He believes that skillful design is essential to business, and information design should be intuitive, poetic and experimental as well as an organizational and intellectual framework for understanding.

His designs for architecture, technology, publishing, medicine, energy and arts organizations encompass many disciplines including print, web sites, signage, and exhibition design. For ten years, he has directed the communications program for Louis Dreyfus, an international group of diversified businesses that is one of the largest privately held companies in the world. Tom began his career working with such diverse talents as Richard Saul Wurman, Massimo Vignelli and Tibor Kalman.

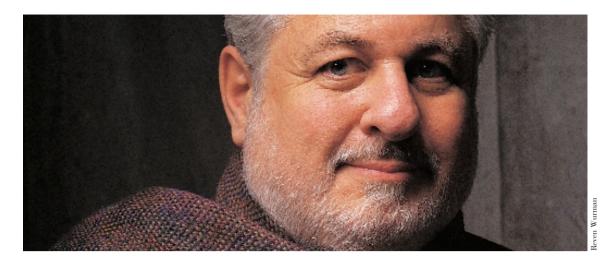
He has worked for SOM Architects and with Nicholson NY, where he developed one of the first interactive CD-ROM yellow page products.

His projects have appeared in numerous publications and exhibitions, including the American Center for Design, AIGA, Communication Arts, Graphic Design NY and Graphis. He served as treasurer for AIGA/NY and cochaired Hands-On Business, an educational program on practical issues of design management. He graduated from the University of Cincinnati's School of Design, Architecture and Art.

Acknowledgements: Clint Bottoni and Mary Anne Costello for your hard work and dedication.

E-mail: wood@interport.net.

RICHARD SAUL WURMAN



With the publication of his first book in 1962 at the age of 26, Richard Saul Wurman began the singular passion of his life: that of making information understandable. In his best-selling book, Information Anxiety, in 1990, he developed an overview of the motivating princi-ples found in his previous works. Follow the Yellow Brick Road is the second of this series. Each of his books focuses on some subject or idea that he personally had difficulty understanding. They all stem from his desire to know rather than from already knowing, from his ignorance rather than his knowledge, from his inability rather than his ability.

Along the way, Richard Saul Wurman has received both Along the way, **Hichard Saut Wurman** has received both M. Arch. & B. Arch. degrees from the University of Pennsylvania. In 1959 he was graduated with the highest honors and awarded the Arthur Spayd Brookes Gold Medal. He established a deep personal & professional relationship with the architect Louis I. Kahn. He is a fellow of the American Institute of Architects (FAIA), and a former member of AGI (Alliance Craphican Integrational) Graphique Internationale).

He has been awarded several grants from the National Endowment for the Arts, a Guggenheim Fellowship, two Graham Fellowships & two Chandler Fellowships. In 1991, Richard Saul Wurman received the Kevin Lynch Award from MIT for his creation of the ACCESS travel guides & was honored by a retrospective exhibition of his work at the AXIS Design Gallery in Tokyo, Japan on the occasion of their 10th Anniversary. In 1996, the Pacific Design Center awarded him their Stars of Design lifetime achievement award. The same year, he received the DaimlerChrysler Design Award. In 1993/1997 he was appointed a Visiting Scholar at MIT in the Department of Architecture & Planning. In 1994, he was named a Fellow of the World Economic Forum in Davos, Switzerland & awarded a **Doctorate of Fine** Arts by the University of the Arts in Philadelphia, PA. In 1995, he received an Honorary Doctor of Letters from Art Center College of Design & was Chairman of Graphic Design & Product/Industrial Design of the 1995 Presidential Design Awards. He created an annual design competition for the AIGA in 1995, The Design of Understanding & chaired the first jury. In 1998, he was named one of the 100 elite of the technology industry by Upside Magazine and in 1999 he received an Honorary Doctorate of Fine Arts from the Art Institute

His career has spanned from a 13-year architectural partnership in Philadelphia, a Director of GEE! – Group for Environmental Education, to teaching at Cambridge University, England; CCNY; UCLA; USC; Washington University, St. Louis & Princeton University. In 1958 he was a member of the initial year of exploration at Tikal, Guatemala. He is also the CEO of TOP Publishing Group and is on the Editorial Board of Novartis Magazine.

Richard Saul Wurman continues to be a regular consultant to major corporations in matters relating to the design & understanding of information. He is married to novelist Gloria Nagy, has four children (Tony, Vanessa, Reven and Josh) and lives in Newport, Rhode Island.

E-mail: wurman@ted.com. Web site: www.ted.com.

Conferences Chaired:

International Design Conference in Aspen The Invisible City '72 First Federal Design Assembly (Co-Chairman) '73 AIA National Convention, Architecture of Information '76 **TED** (10) '84-'00

TEDMED (2) '95 & '98 TEDSELL '96

TEDNYC '97 TEDCITY Toronto '00

A selection of RSW titles:

Cities: A Comparison of Form and Scale The Notebook and Drawings of Louis I. Kahn

Urban Atlas: 20 American Cities

(with Joseph Passonneau) Various Dwellings Described in a Comparative Manner

Åspen Visible

Guidebook to Guidebooks

Making the City Observable

Man Made Philadelphia (with J.A. Gallery)

The Nature of Recreation (with Alan Levy & Joel Katz) Our Man Made Environment Book 7 (with Alan Levy) What-If, Could-Be: An Historic Fable of the Future Yellow Pages Career Library (12 volumes)

Yellow Pages of Learning Resources

Baseball Access Olympic Access Dog Access Football Access Paris Access Polaroid Access Hawaii Access Rome Access Las Vegas Access SF Access

London Access Summer Games Access LA Access Tokyo Access Medical Access Winter Games Access

New Orleans Access NYC Access

Hats

Information Anxiety

Wall Street Journal *Guide to Understanding*

Money & Markets Wash ĎC Access

What Will Be Has Always Been, The Words of Louis I. Kahn

1990's Barcelona Access Boston Access

C, The Charleston Guide

California Wine Country Access

Chicago Access

Danny Goodman's Macintosh Handbook (Danny

Goodman)

Florence/Venice/Milan Access Follow the Yellow Brick Road (with Loring Leifer)

Fortune Guide to Investing in the 90's

Information Architects (with Peter Bradford)

N, The Newport Guide On Time, Airline Guide to North America

Office Access

San Diego Access

Twin Peaks Access (with David Lynch)

USAtlas

Nigel Holmes with Meredith Bagby

Federal Income

Where does the government's money come from?

Federal Expenses

Where does the money go?

Federal Debt

How big is our debt?

Social Security

Will the baby boom bankrupt Social Security?

Medicare

Is Medicare in critical condition?

The Economy

Boom or bust?

State Budgets

How do the states spend their money?

Welfare

Who are the poor?

Education

How educated are we?

Crime

How much does crime cost?

Report Card

How do we measure up?



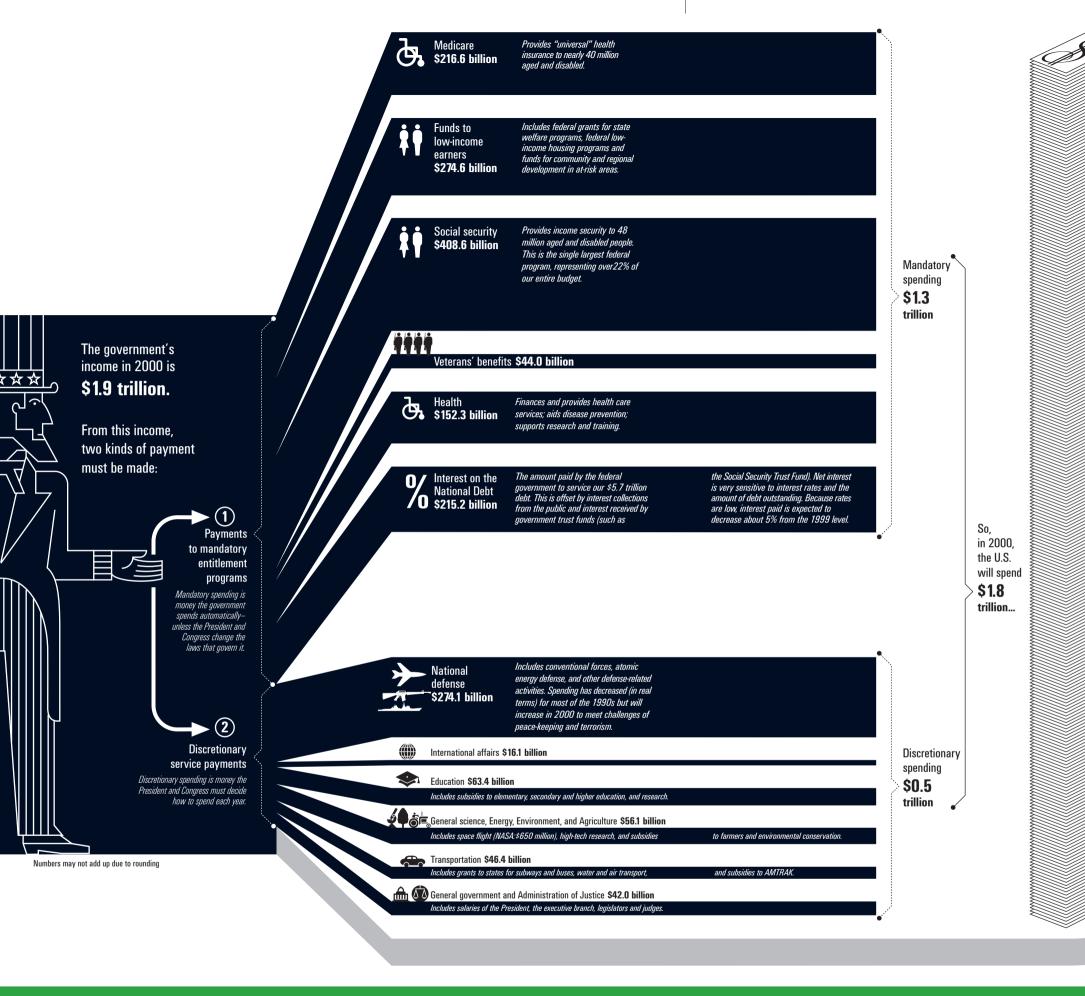
Source: 1999 Budget of the United States Government (Office of Management and Budget—OMB) The weight of the U.S. Budget for fiscal year 2000: 40 pounds

Are U.S. Government statistics accurate? According to the Economist, we are pretty accurate. The magazine has consistently ranked the U.S. sixth or lower in statistical quality, compared to other industrialized nations.

I would like to electrocute everyone who uses the word fair in connection with income tax policies. WILLIAM F. BUCKLEY

Nearly \$4 trillion passes through electronic banking networks every day.

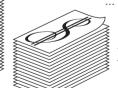
In 1997, the total number of people employed by the U.S. Federal government was 4,261,000. \nearrow





Where does the money go?

7



... leaving about

\$115 billion
over what was taken in as taxes.
This is the projected surplus.

But...

Source: 1999 Budget of the United States Government (OMB) From time to time you'll hear the phrases on-budget and off-budget. The law requires that revenues and expenses of two federal programs, Social Security and the Postal Service, be excluded from budget totals—in other words they are categorized as off-budget.

In order to to satisfy this legal requirement, the budget displays on-budget, off-budget, and unified totals. The unified budget is the most useful indicator of how much the government must borrow. Usually the deficit is reported from the unified budget. The off-budget deficit looks larger than the on-budget deficit because Social Security is running a surplus.

The law sets the first Monday in February as the President's deadline for submitting his proposed budget to Congress for the next fiscal year.

The U.S. government's fiscal year begins on 1 October.

ins Center on Budget and Policy Priorities.

www.cbpp.org
The Center is a nonpartisan research group
that analyzes government policies and programs that primarily affect those in the low
to moderate income range. Their site contains many timely reports.

Each unit -on these
pages
represents
\$10 billion

...let's
compare
the size of the
\$115 billion
surplus...

The **National Debt** is the amount of money the United States has borrowed to finance its annual deficits.

The money is borrowed from two sources:

- ① U.S. and foreign citizens and institutions, including foreign governments, that invest in Treasury bills and other securities.

 This is called The Debt Held by the Public.
- 2 The U.S. government's own accounts, such as trust funds for the Social Security and Medicare programs, civil service and military retirement plans, unemployment insurance and transportation funds.

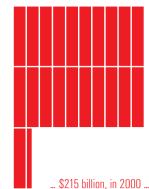
Is the debt dangerous?

Economists argue about whether the debt is bad or good for our economy.

Those who say it's good argue that just like
a corporation or a family, America uses
debt to grow. Further, we owe most of
the debt to ourselves—our own banks,
funds and individual investors.

Those who say it's bad argue that there is a real cost of the debt. For instance, each year we pay over \$200 billion just to finance the debt. In 2000, it's our fourth largest federal expense, costing roughly the same amount as the whole Medicare program. In addition, we owe a significant amount of money to foreigners, not to ourselves.

Just the interest on our debt...



...could pull all the 14 million children living below the poverty line up to a "middle class" living standard. Who really owns America?

Breakdown of the Debt Held by the Public



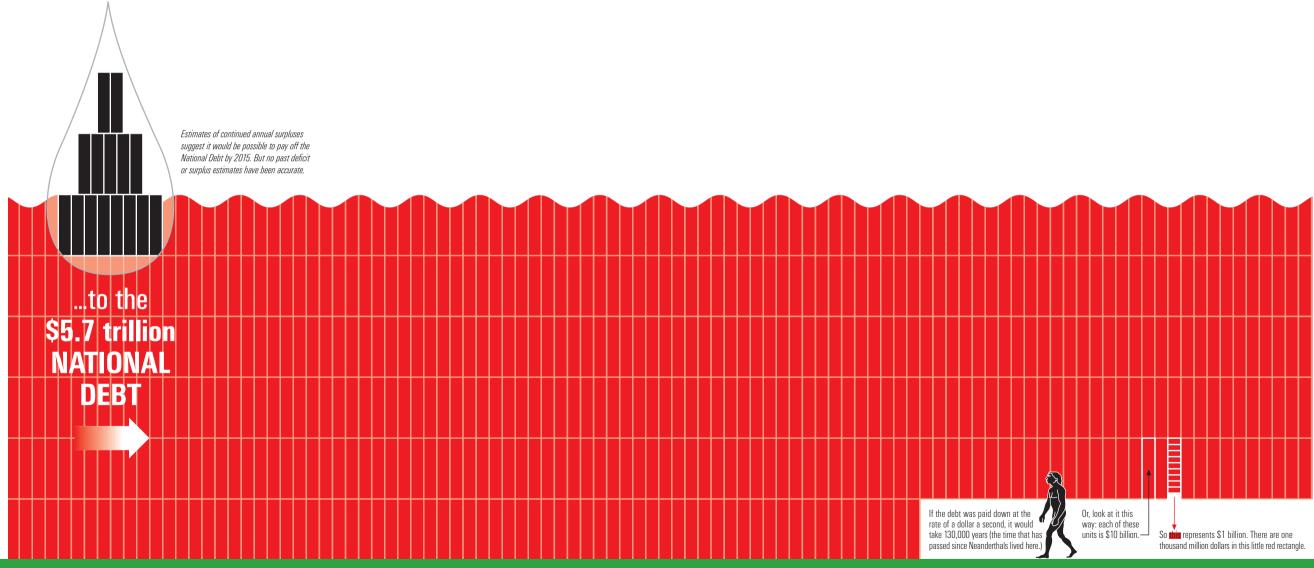
Americans own just 58%. Foreign investors control the rest. The largest purchaser in 1997 was the U.K. with \$170 billion in net purchases, followed by Japan at \$35 billion.



Federal Debt

How big is our debt?

2



Sources: 1999 Budget of the United States Government (OMB); Economic Report of the President, February 1999 (Council of Economic Advisors) What caused the debt in the first place? Th U.S. first got into debt in 1790 when it assumed the Revolutionary War debts of the Continental Congress. At the end of 1790, the gross public debt was approximately \$75 willing.

Why don't we just print all the money we need to pay off the debt? The immediate effect of printing new money may be lower interest rates. As time goes on, however, the excess money introduced into the economy would lead to higher inflation, and invariably to higher interest rates.

Want to help the country pay off the debt? There is a Treasury account called Gifts for the Reduction of the Public Debt for voluntary donations. Send your money to Bureau of the Public Debt, Department G., Washington D.C. 20239-0601.

Donations are deductible from taxable income for the year of the donation, subject to any limitations on charitable contributions.

Congressional Budget Office. Congress.

www.cbo.go

www.cbo.gov
This office supplies Congress with nonpartisan economic analysis of programs and budgets necessary for decision-making.
Find reports, budget projections, testimony, and more at their official site.

• Financial Reports and the Financial Condition of the Federal Government. Financial Management Service. Dept. of the Treasury. U.S.

Treasury. U.S.

www.fms.treas.gov/conditn.html

Find daily and monthly treasury statements, the federal budget, the annual report of the government and various reports on the financial status of the United States government including receipts, expenditures, budget deficits, and the gold report.

The big problem with Social Security is the aging of our society.

The program operates as a pay-as-you-go system, where the earnings of **current workers** pay for the benefits of **current retirees**. By the time the 77 million baby boomers (those born between WWII and 1964) reach retirement, there will be just over two workers to pay for retired persons. The ratio was fiftenn to one when the program started 60+ years ago.

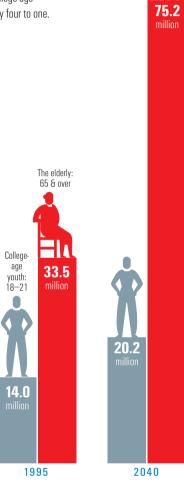




The Social Security Trust Fund In 1983, Congress chose to hike SS payroll taxes long before extra cash was needed to pay for the boomers' benefits. Thus boomers were "prefunding" a portion of their own future retirement benefits. However, Congress soon found ways to borrow from these surplus funds to pay for deficits in other programs-including other senior programs such as Medicare.

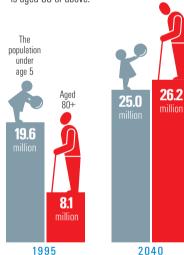
How fast is America aging?

In 40 years, the elderly will outnumber college-age youth by nearly four to one.



Really young vs. really old

The most rapidly growing group of Americans is aged 80 or above.



It's projected that by the time the voungest boomers are 65, in 2029, almost 20% of Americans will be elderly-2.5 times the proportion in

The "minority" share of America's population is rising.

Some suggest we may be inflaming ethnic tension as a more ethnic workforce is asked to pay for the retirement of an older, whiter population.

When the country was

founded. life expectancy

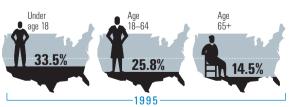
years. In 2000,

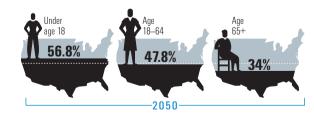
it's 73 for men and 80 for

was only about 35

women

Hispanics and non-whites, as a % of the total population





Sources: U.S. Bureau of the Census; Congressional Budget Office; OMB; Current Population survey; Social Security Administration; Peter G. Peterson, Gray Dawn (How the Coming Age Wave Will Transform America—and the World)

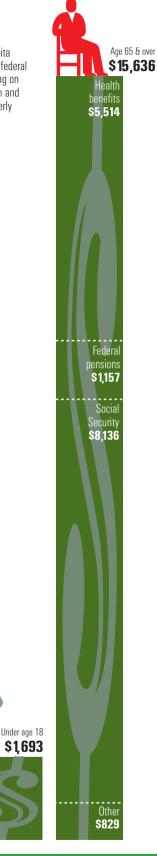
In an Americans Discuss Social Security survey, 72% said their opinions about changing social security are very strong or somewhat strong. 63% said their understanding of the Social Security debate is only fair or poor.

Race options on the Census Bureau's form for the 2000 census: White; Black African American or Negro; Asian Indian; Chinese; Filipino; Japanese; Korean; Vietnamese; other Asian; Native Hawaiian; Guamanian or Chamorro; Samoan; other Pacific Islander; some other race. You are separate question deals with Spanish/Hispanic/Latino origins.

How much do we spend on the elderly?

The federal budget dispenses nearly ten times as much in benefits to each senior citizen as it does to each child

Per capita annual federal spending on children and the elderly



Spending as a % of GDP





aged 85+ could far exceed the official projection



for 2050







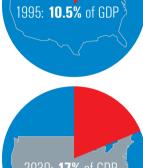




• Policy.com Issue of the Week, 6/1/98: Social Security. www.policy.com/issuewk/98/0601/index.html

Policy.com's Issue of the Week examines the Social Security system and reform issues facing this program.

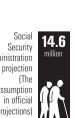
Public spending on pensions and health benefits rises as the nation goes gray ...



... and the number of those

Three alternative forecasts









U.S.

Census











Projection 48.7

by Kenneth

Manton

funded by

the Nationa

Institute or







bankrupt Social Security?

Social

Security

Will the baby boom

Social Security provides monthly benefits to 48 million retired and disabled workers, and to their eligible spouses, children and dependents.

Often called our most popular social program, Social Security is the major source of income (providing at least 50% of total income) for 66% of beneficiaries, and is the only source of income for 18%. Overall, more than twofifths of the aged are kept out of poverty by Social Security.

The economic status of the elderly as a group has improved remarkably during the past three decades.



The poverty rate of the elderly has fallen to less than half of what it was in the 1970s. At the time, the elderly were twice as likely to live in poverty than others. Today the situation is exactly reversed: at 11%, the elderly poverty rate is just half of the 22% poverty rate for children under 18.

Social Security Online. Social Security Administration. U.S.

<u>www.ssa.gov</u> The official web site of the Social Security Administration provides a plethora of information about social security, benefits, statistics, policy and research data, as well as the chance to conduct some business with



The two parts of Medicare

Since July of 1966, the federal Medicare program has provided two coordinated healthcare plans for the elderly.

Part A is a hospital insurance plan which covers hospital and related services. When politicians talk about Medicare going bankrupt they are referring to Part A of Medicare. It has been running deficits since 1996, and is expected to go bankrupt in 2015.

Part B is a voluntary, supplementary medical insurance program, partially financed by monthly premiums paid by participants. This covers the cost of physicians and related medical services.

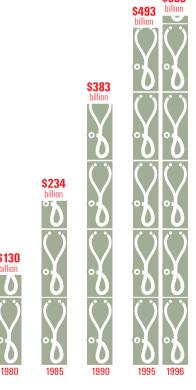
As the Medicare system faces financial crisis, the cost borne by beneficiaries rises. Today, beneficiaries pay nearly 30% of their healthcare costs from their own pockets— averaging almost \$3,000 per person—to pay for premiums, services, and products not covered by Medicare.

Medicare

Is Medicare in critical condition?



Healthcare costs in general have risen faster than inflation over the past two decades, and the consumers' share, shown here, has more than quadrupled.



Reasons for the rise include:

- Increased lifespan
- Availability of complex, expensive procedures
- Lack of information for consumers
- Inefficient incentives for patients and doctors

Sources: National Bipartisan Commission on the future of Medicare; U.S. Healthcare Financing Administration; U.S. Bureau of the Census The government has mailed handbooks explaining healthcare to 39 million beneficiaries of Medicare. It has also set up a toll-free telephone number, 800-633-4227, and an Internet site, www.medicare.gov. The Healthcare Financing Administration calls their effort the biggest peacetime education program the Federal government has ever undertaken.

• Health Care Financing Administration. Dept. of Health and Human Services. U.S. www.hcfa.gov

Find reports, data, laws and regulations about Medicare, Medicaid, and child health insurance programs from the web site of the federal agency that administers these programs

• Medicare: The Official Government Site for Medicare Information. Health Care Financing Administration. Dept. of Health and Human Services. U.S. www.medicare.gov Medicare, administered by HCFA, provides

Medicare, administered by HCFA, provides health insurance to Americans over 65 with certain disabilities and is the largest health insurance program in the United States. The HCFA web site contains reports, current and proposed health plans, contacts, and tips on how to avoid fraud.

Is the economy strong?

The economic expansion that began as the Persian Gulf War ended has become the longest peacetime expansion in the 20th century. Clinton boasted: "America's economy is the healthiest in a generation and the strongest in the world." America seemed unshaken by the financial tremors felt throughout Asia, Latin America, and much of Europe throughout the late 1990s.

Low inflation

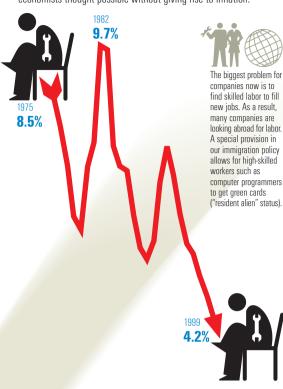
One of the most welcome aspects of the country's economic expansion has been low inflation. Despite tight labor markets for much of the late 1990s, the Consumer Price Index (CPI), the most widely used measure of inflation, has

Consumer Price Index (CPI), the most widely used measure of inflation, has remained below 4%.

1980
13.5%
1995
9.1%
1998
1.6%

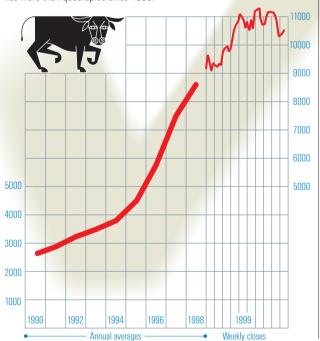
Low unemployment

The unemployment rate has sunk far below the level that most economists thought possible without giving rise to inflation.



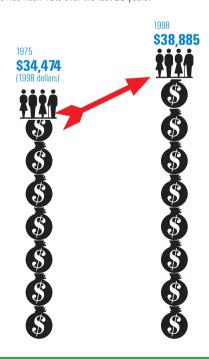
A soaring stock market

Nowhere can one see the "good times roll" better than in the stock market of the 1990s. The value of the Dow Jones Industrial Average has more than quadrupled since 1990.



Income growth

The booming economy of the 1990s has meant real income gains for many Americans. Median household income has risen 13% over the last 25 years.



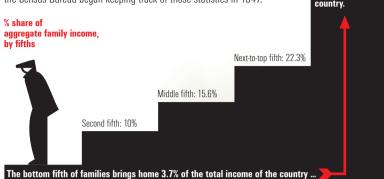
Sources: The Council of Economic Advisors; Bureau of Labor Statistics; U.S. Bureau of the Census; U.S. Bureau of Economic Analysis Foreign assets held in the U.S. currently total \$5.5 trillion. U.S. assets held abroad total \$4.3 trillion, leaving the U.S. in a negative investment position of \$1.2 trillion.

While inflation in the U.S. seems to stay low, other countries' rates are sky high. Russia had 88% inflation in 1999, though it was expected to fall to 23% in 2000. Turkey's rate was 60% in 1999, with a forecast of 38% for 2000. At the other end of the scale, Japan, Argentina, China and Hong Kong had slight deflation in 1999. Except for Japan, consumer prices in those nations were expected to rise in 2000.



Income inequality

There is no doubt that the 1990s have seen significant income growth. But not everyone has seen their income grow at the same rate. Top-earning households claim a huge portion of U.S. household income. In 2000, the country is experiencing the widest gap between the rich and the poor since the Census Bureau began keeping track of those statistics in 1947.



The Economy

Boom or bust?



While the gap between the rich and the poor is glaring, inequalities are less severe between the sexes, and narrowing among racial groups. Women have made progress, with earnings reaching 75% of men's, up from 69% in 1986. Blacks earn 63% and Hispanics earn 68% of whites' earnings based on median household incomes

Low savings rates

Economists have long been telling us that our savings rate, both public and private, is significantly lower than that of other industrialized countries. The overall American savings rate is just 4.8%, less than one fourth of Korea's rate, and well below the industrial average.

the top one-fifth of families, which

brings home 48.4% of the total

income of the



It's no surprise that Americans have huge amounts of personal debt. According to the Nilson Report, the average amount individuals spend using credit cards is \$9,000 per year. The average amount of debt outstanding at any time is \$4,300 per person.

Trade imbalance

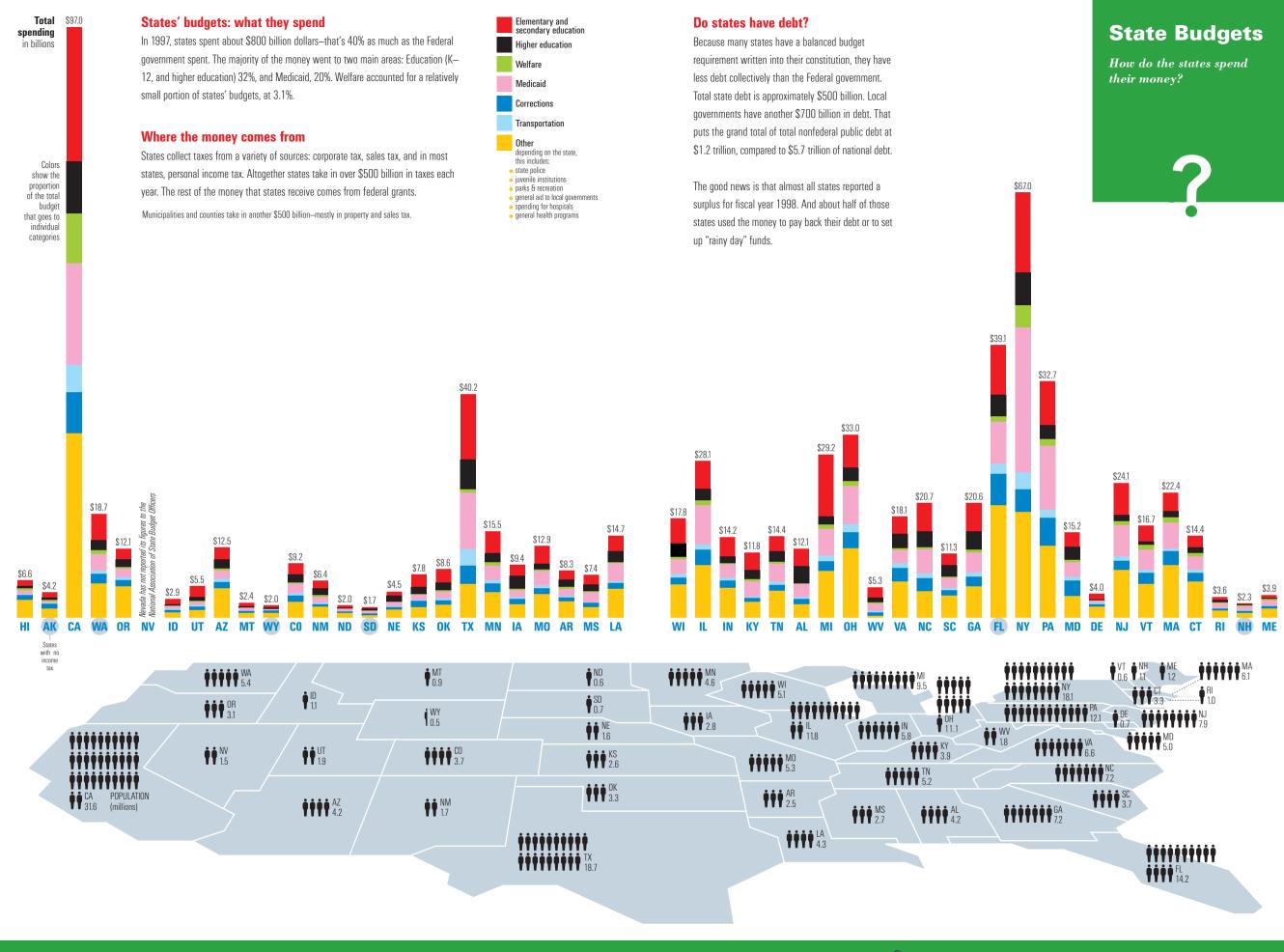
Throughout the 1980s and 1990s, America had a negative trade balance with the rest of the world. That means that what we have bought from abroad has far exceeded what we have sold.



We finance our purchasing by selling off our assets, such as U.S. treasuries, equity and real estate. Throughout the 90s, the U.S. topped the list of destinations of foreign investment. Japan, the U.K.,the Netherlands and Germany are the largest buyers of U.S. assets, having purchased over \$400 billion in assets in 1997.



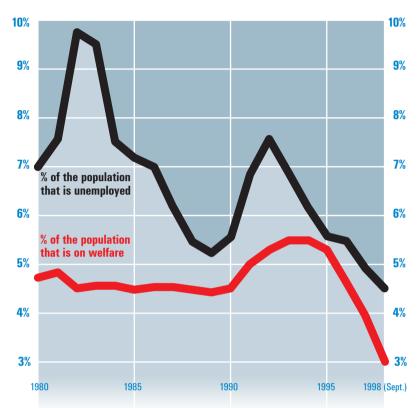
• Economic Indicators. Council of Economic Advisors. Congress. U.S. www.access.gpo.gov/congress/cong002.html Browse individual issues from 1998 to the present or search the 1995 database for data on employment and wages, income and spending, federal finance, consumer and producer price indexes, business activity, and money and banking.



Where did welfare go?

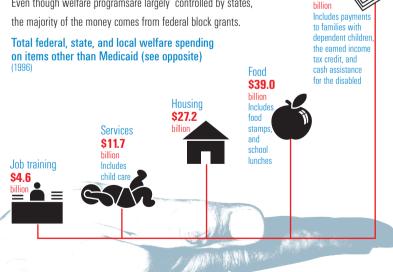
The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 replaced the 60-year old federally-run welfare program. Under the new system, states have broad authority to implement their own welfare programs, following strict federal guidelines. They emphasize work as a condition for receiving benefits and limit the amount of time that recipients can stay on welfare.

Welfare case loads have decreased in nearly every state, dropping on aggregate 27% since 1996. In eight states, case loads have declined by more than 40% in the past year. This decline is due in large part to a strong economy and record low unemployment.



How much is paid out to recipients?

Even though welfare programsare largely controlled by states,



Sources: Library of Congress, Congressional Research Service; U.S. of the Census: Bureau of Labor Statistics In 1980, the CEO of a large U.S. company could expect an income 40 times that of the workers in the factory. By 1990, that had risen to 85 times the amount.

\$91.7

How much is spent on Medicaid?

Medicaid is medical care for the poor, Medicaid is mandated by the Federal government and administered by the states. It represents 20% of state budgets, and its cost has more than quadrupled since 1985. The reasons for this cost growth include: an increase in eligibility and a high rate of inflation for medical goods and services.



In 1930, Babe Ruth made \$80,000. When asked why he made more than President Hoover, Ruth said, I had a better year

Defining poverty

The Census Bureau divides us into three broad income groups: **the rich** (households with an income of more than \$100,000), the middle class (\$25,000 to \$100,000), and the poor and near poor (less than \$25,000).

What's the median income?

half the households in the U.S. earn more ...

Median income: \$38,885 ······

half the households in the U.S. earn less

Household income is used rather than family income, because it is more comprehensive. It includes singles living alone and nonfamily members living together.

......The poverty line: \$16,655

Here's how many are living below it:

9.9%

of whites,

15.0 million

26.1%

of blacks,

9.0 million

people

12.7%

of the U.S.

population.

34.5 million

people

The median family income was \$46,737 in 1998.

Welfare

Who are the poor?

But more than 30% of poor households get no help

Despite the variety of federal and state programs available, many low-income households do not actually receive any form of public assistance.

Why? The reasons include: lack of information, language barriers, and the stigma attached to welfare.

Of the 13 million poor households in the U.S., only 4.4 million receive any cash benefits





25.6%

of Hispanics

8.8 million

people

1988's highest-paid executive was Disney Chairman Michael Eisner, who made average worker. 1998's highest-paid executive was Disney Chairman Michael Eisner, who made \$575.6 million—25,052 times as much as an average worker.

The Census Bureau proposes raising the poverty line to \$19,500. That would leave 46 million Americans (17%) living beneath it.

> O Policy.com Issues Library: Welfare and Housing, Welfare to Work. www.policy.com/issues/issue304.html Policy.com is a nonpartisan policy news and information service that highlights research, opinions, and events relating to public policy issues. In the Welfare to Work Issues Library, summaries of and links to the works of various organizations. research institutes, government agencies, and think tanks are provided for this



Federal, state and local governments spend nearly \$400 billion every year to run our primary and secondary education system.

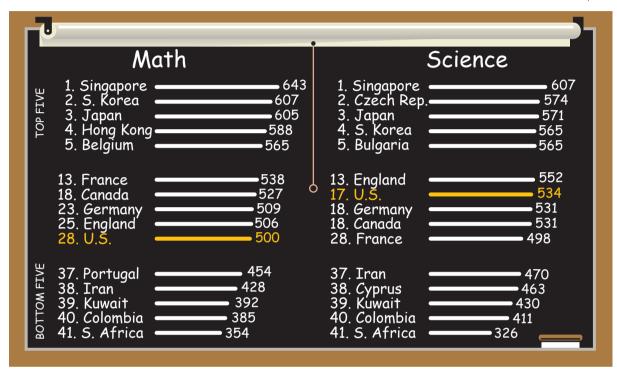
This accounts for nearly 8% of the GDP, and equals \$6,000 per public school student per year—the most any country spends on education, any way you measure it.

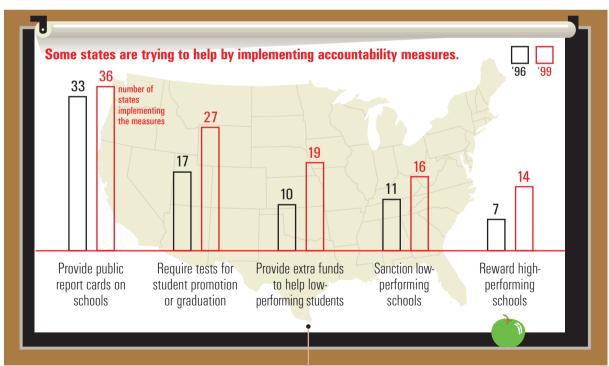


But we don't get the best results.

Despite the fact that the U.S. spends more on education (on a gross and per capita basis) than any other country, the most recent report from the National Assessment of Educational Progress shows that we rank 28th (out of 41 countries) for student achievement in math, and 17th in science.

Scoring was on a scale of 200 to 800 points





Sources: U.S. Department of Education: The National Assessment of Educational Progress Tests America spends \$240 billion on colleges and universities. The College Board calculated the average cost of tuition and fees at private four-year colleges in the fall of 1999 to be \$15,380, an increase of \$\$671 from the previous school year. The average public college cost is \$3,356 (\$109 more than the previous year)

Accounting, tax, and consulting firm KPMG LLP conducted a 1999 on-line poll, asking college students what events they predicted would occur in their lifetime. According to the students, a visit from extraterrestrials is twice as likely as another Great Depression.

Education is the most important determinant of economic status.

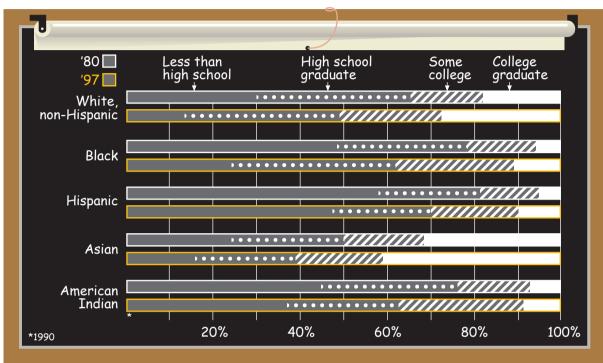
Young adults with college degrees earn over 70% more than those without, and those with high school diplomas earn 30% more than those without. Between 1980 and 1997, the earnings of those with at least undergraduate degrees rose significantly faster than the earnings of those who had completed only high school.

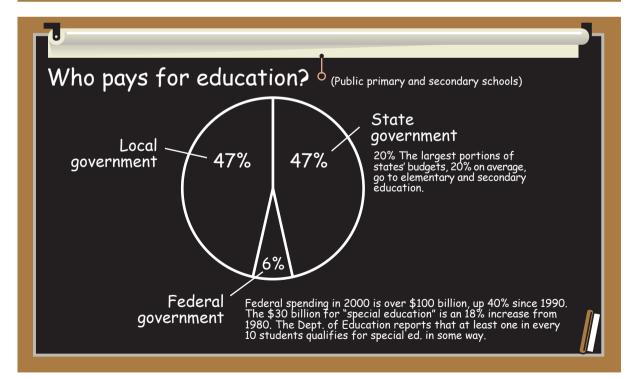
Education

How educated are we?



The educational attainment of adults 25 and over





What are your chances of going to jail?

There are over 1.3 million prisoners in America today, representing an annual average growth rate of 6% since 1990.

If recent incarceration rates continue,

an estimated 5% of all Americans will spend time in prison during their lifetime.

For **black males**, the chance

Capital punishment

34 states

and the federal prison

system currently

hold over

prisoners on death

According

to trends,

about 2% of these

can expect

executed

next year.

3.000

row.

of going to jail is 28

Meanwhile, the prison system is overflowing ...

•••••••••••••••••••••••••••••••

.....

Federal prisons 27% over capacity 20% over canacit

is what it costs to

keep one prisoner

in jail for a year (that's ten times the cost of educating a child for a year) Violent crime (which includes murder and rape) has declined for the past five years.

Federal and state & local direct spending on crime

The Good News

The Bad News

Juvenile crime is still very high-60% above the 1980 level. Juveniles account for about 20% of all arrests and 20% of violent crime arrests.

Federal, state, and local governments together spend more than \$150 billion on fighting and preventing crime. That represents an increase of over 100% from 1985, and is the equivalent of spending \$550 on crime annually for every resident. Generally, state and local governments pick up 85% of the cost. The Federal government covers the rest.

\$120 billion

\$100 billion

prosecution of federal crimes, and grants to states for crime prevention.

Department,

all federal courts

and prisons, the

FEDERAL

1998 1999

2000

spending goes towards the priso system and the prosecution of riminals, and ha

goes to crimi

Crime

How much does crime cost?

\$80 billion

\$60 billion

\$40 billion

\$20 billion

Of the U.S.'s 15,848 murders in 1996. 10,744 (68%) were by gun.

1997

1996

1995

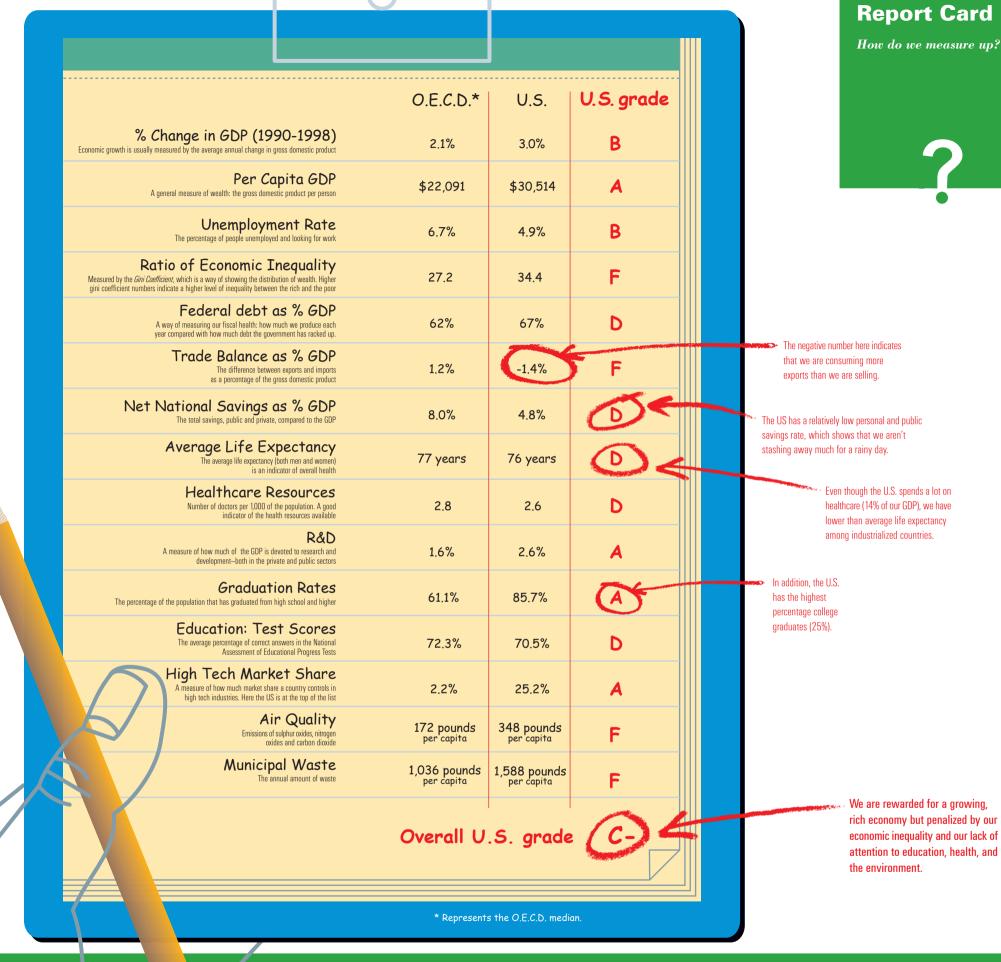
America's Report card

As a kid, receiving your report card could be a harrowing experience. It was tough to get measured against other kids.

How does the U.S. compare to other countries and what kind of grades should we get as an economy and as a society?

For a benchmark we chose a series of variables—some measure the robustness of our economy and others measure our quality of life. We compared ourselves to other industrialized countries, as represented by the Organization for Economic Cooperation and Development (OECD).

Then we gave the U.S. a "grade" in each category. If the U.S. was in the top 20% we got an "A." If we fell in the lowest 20%, we got an "F'. If we were average, a "C." Yes, this is a normal grade distribution (you remember those from college) with no grade inflation!



Source: Organization for Economic Cooperation and Development Budget Documents. Office of
Management and Budget. Executive Office
of the President. U.S.
 www.access.gpo.gov/usbudget
Contain the U.S. budget from finel year.

of the President. U.S. www.access.gpo.gov/usbudget
Contains the U.S. budgets from fiscal year
1996 to present as well as a searchable database of supporting and related documents
such as historical tables, mid-session
reviews and analytical perspectives. Office of Management and Budget. Executive Office of the President. U.S. www.whitehouse.gov/OMB

Find financial management policies, government wide performance plans, Y2K reports, and the information and regulatory policies for the government.

O State Government Finance Data by State. Census Bureau. Dept. of Commerce

www.census.gov/govs/www/state.html
Annual revenue, expenditure, indebtedness, and cash/securities data for state governments collected by the Census Bureau.

Governments Division: Federal, State and Local Governments. Census Bureau. Dept. of Communes. U.S.

www.census.gov/govs/www/index.html
The annual financial data of various levels
of government, from county to federal, ma
be found at this site. Most data is available
from 1992 and may vary between types/lev
els of government.

The Public Debt Online. Bureau of the Public Debt. Dept. of the Treasury. U.S. www.publicdebt.treas.gov/opd/opd.htm
The Bureau of Public Debt is responsible for borrowing the money needed to operate the Federal Government and account for its debt. Their web site, The Public Debt Online provides a daily tabulation of the federal debt to the penny. Monthly statements, interest rates, and gift contribution



Reed Agnew / Don Moyer

Age & Race

Who lives here?

Demographic Snapshots

Who are we?

Population Distribution

Where do we live? Where don't we live?

Patterns of Race

Where are densities above and below average?

Age, Sex & Marriage

Where are densities above and below average?

Income, Origin & Education

Where are densities above and below average?

Population Growth Rate

How do births, deaths and migration affect growth?

Distribution of Wealth

How much money do we make?

Becoming President

How do you get to the White House?

The Electoral College

Does your vote count?

Lobbying

What does a lobbyist do? What is a special interest group? What is a political action committee?

One thousand equals 270 million. Suppose that the entire population of the United States is represented by just 1,000 people. If those 1,000 people were divided in proportion to the entire population, how would the major demographic categories compare?

This diagram shows 1,000 people representing Age & Race the U.S. population divided into three major United States age groups and arranged by race. Population Source: U.S. Census Bureau Who lives here? White 827 per 1,000 World population is over six billion. The population of the United States is about four and a half percent of the total world Asian or Pacific Islande population. 38 per 1,000 Native American 9 per 1,000 How many is 270 million people? There are nearly 270 million people in the U.S. If you listed all of their names in a phone book, you'd need 614,000 pages—a stack of phone books almost 75 feet high. Over 65 Years Are you Hispanic? Out of 1,000 U.S. citizens, 110 say they are of Hispanic origin. That means they can be any race and they or their ancestors are from a Spanish-speaking country—Cuba, Mexico, Puerto Rico, Spain, etc. Hispanics are included in the big diagram at left. If they were pulled Number of children in the populaout, they would form the multiracial tion is at a record high at 70 million. group below. But as a percentage of the population, children have dropped from 32 percent in 1980 to 29 percent in 1997 Meanwhile, the population over age 65 has steadily increased both in numbers and as a percent of the population, now representing 13 percent of U.S. citizens. Under 18 years old



Less than eight percent of Americans were born outside the U.S.

Deck the halls.

Of the over 192 million households celebrating Christmas, less than 49 percent celebrate with real trees and more than 51 percent celebrate with

Over 65

years old

Music makers.

More than 20 million Americans play the piano, but only a little more than one million play the

O Income. Current Population Survey.

Census Bureau. U.S.
www.census.gov/hhes/www/income.html
Census Bureau, on a periodic basis, issues
detailed reports that examine all aspects and income in the United States.

O Estimates of Population. Census Bureau.

100 White Hispanic

1 Native American Hispanic

6 Black Hispanic

 $\underline{www.census.gov/population/www/estimates/}$ popest.html
The Population Estimates Program pro-

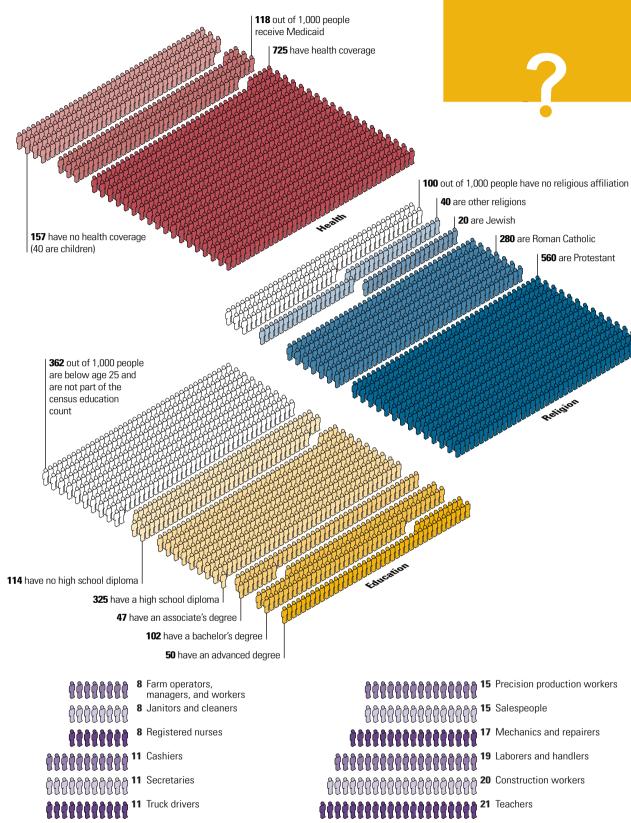
duces monthly national population estimates by age, sex, race, and Hispanic origin for the United States.

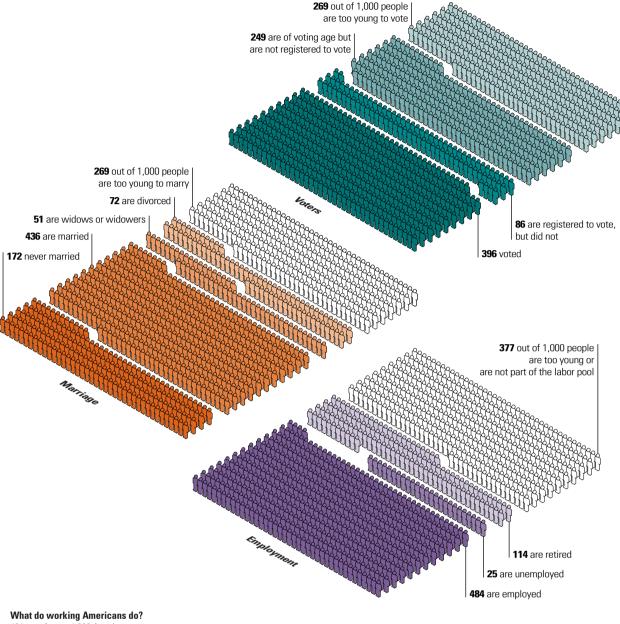
In focus.

Using 1000 people to represent the whole population of the U.S., here are some significant demographic facts.

Source: U.S. Census Bureau







484 out of every 1,000 Americans are employed. Here is a sampling of some of

1 Bartender 1 Child care worker 1 Clergy 1 Dentist 1 Firefighter 1 Lab technician 1 Mail carrier

the jobs that Americans hold.

 Recreation and amusement facility attendant 1 Science technician 1 Telephone operator

2 Computer programmers 3 Security guards

3 Hairdressers and cosmetologists 3 Lawyers 3 Physicians 3 Real estate agents

4 Police and detectives

5 Waiters and waitresses 6 Bookkeepers; accounting and auditing clerks 7 Nurse's aides, orderlies, and attendants 8 Cooks

5 Computer scientists

Truck drivers

 $\begin{picture}(1,0) \put(0,0) \put(0,0)$

More than 35 percent of all American households own a computer. More than 98 percent of all households own a color TV. Almost 30 percent own three or more TVs.

More than 27 percent of U.S. households own cats Most own more than two. More than 31 percent of U.S. households own dogs. Most own more than one



More than 300,000 American kids are being educated at home instead of in public schools.

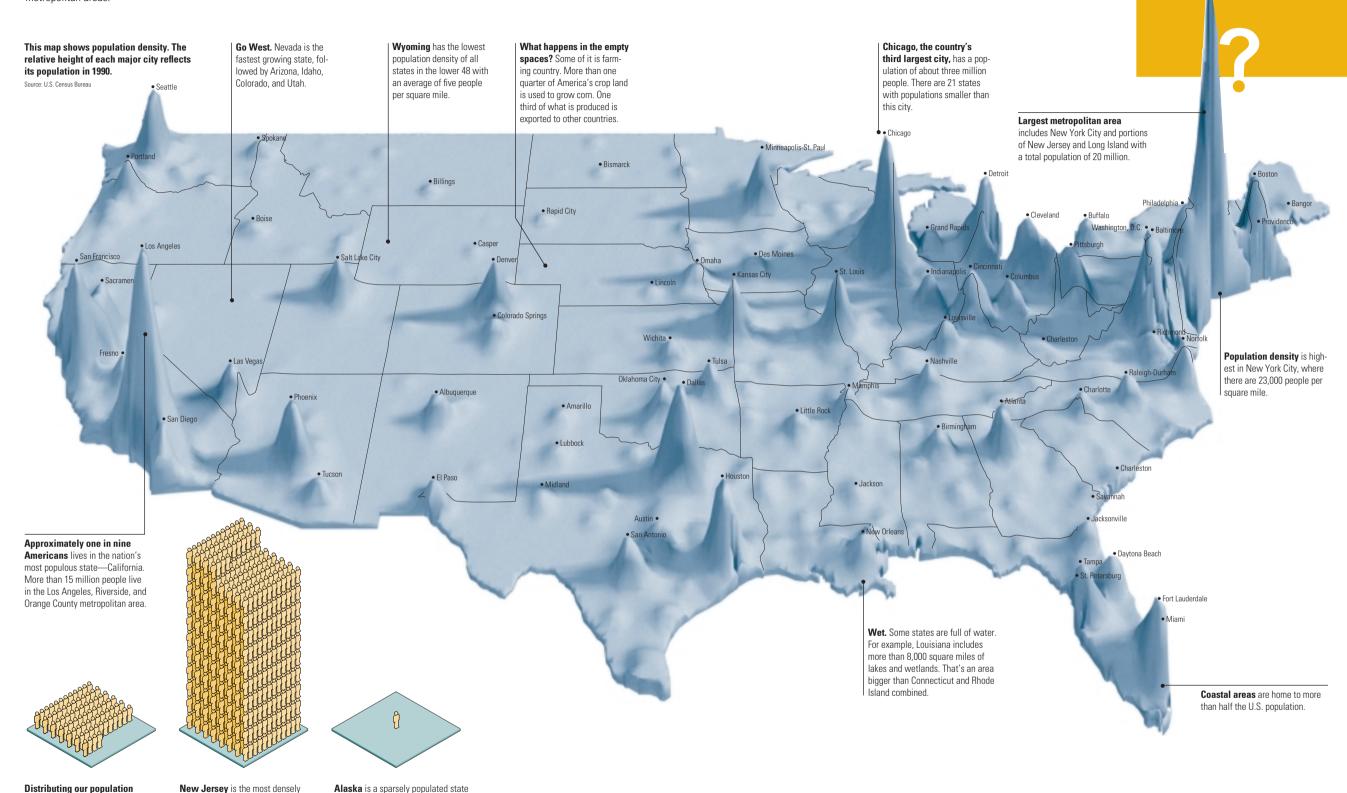
Less than one percent of Americans are in prison or jail. There are almost 15 times as many men in prison or jail as there are women.

More than seven percent of Americans work for the government at some level. This figure does not include military personnel, who account for only one half of one percent of the total U.S. population.

Almost 140 million Americans own cars. Nearly 21 million Americans say that they never use seat belts.

The population of the United States

is not distributed evenly. Instead, we tend to bunch up in communities, leaving the spaces in between more sparsely inhabited. Most Americans live in or near cities; today 53 percent live in the 20 largest cities. 75 percent of all Americans live in metropolitan areas.



On the move

Americans are among the most mobile populations in the industrialized world. In a typical year, one in six Americans moves.

evenly would put an average of 76

people per square mile.

Smaller neighbors.

The population of the United States is about nine times greater than that of Canada and about two and a half times greater than Mexico.

O Construction Statistics. Census Bureau. U.S.

populated state with an average

of more than 1,000 people per

square mile.

blue.census.gov/const/www/index.html
Census Bureau, on a monthly basis, tracks
the numbers of housing units authorized by
permits, started, sold or completed.

Fourth place

with an average of one person per

square mile

The area of the United States is 3,536,341 square miles, making it the fourth largest country in the world. Canada and China are both slightly larger. Russia is almost twice as large.

Shrinking population.

Several states lost population between the 1980 and 1990 censuses—lowa, North Dakota, West Virginia, and Wyoming.

Small countries.

Most nations are small and have small populations.

More than half of the world's countries have fewer people than the state of Virginia.

Big countries.

The world's 10 most populous countries have two thirds of the world's population.

How was this map created? We couldn't have done it without several computer applications. Using 1990 U.S. Census figures loaded into MapInfo GIS (geographic information system) software, we produced a grayscale image of the U.S. Light tones represented high populations and dark values sparse populations. We then converted this grayscale image into a 3D model inside FormZ. Finally, we cleaned up rough spots in Adobe Photoshop® and overlaid the state boundaries and city labels in Adobe Illustrator®.

Population

Distribution

New York City

Mix is changing.

The racial composition of the population becomes more diverse every year.

Immigration and higher birth rates among Blacks, Asians, and Native Americans means that minority groups will increase as a percentage of total population in the coming years.

The largest numbers of Whites can be found in California and the New York City metropolitan area. Of the states, Vermont has the highest percentage of Whites—98.5 percent. Salt Lake City, Utah, is the metropolitan area with the highest percentage—95 percent.

More than half of the Black population resides in the south. The largest numbers of Blacks can be found in New York state and the New York City metropolitan area. Mississippi is the state with the largest percentage of Blacks—51 percent. Memphis, Tennessee, is the metropolitan area with the highest percentage—42 percent.

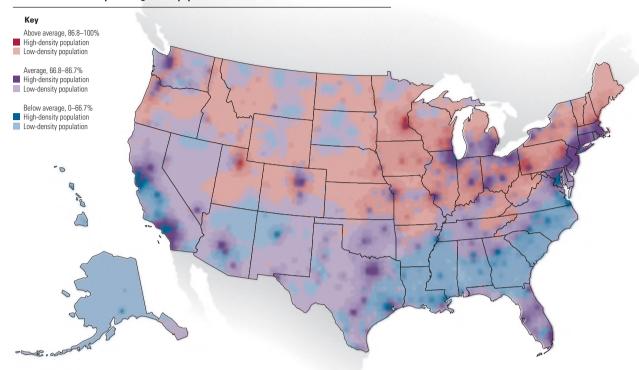
Asians and Pacific Islanders can be found in the largest numbers in California and the Los Angeles metropolitan area. Hawaii is the state with the largest percentage of Asians—62 percent. Honolulu is the metropolitan area with the highest percentage—64 percent.

Native Americans can be found in the largest numbers in California and the Los Angeles metropolitan area. Alaska is the state with the largest percentage of this group—16 percent. Tulsa, Oklahoma, is the metropolitan area with the highest percentage—six and a half percent.

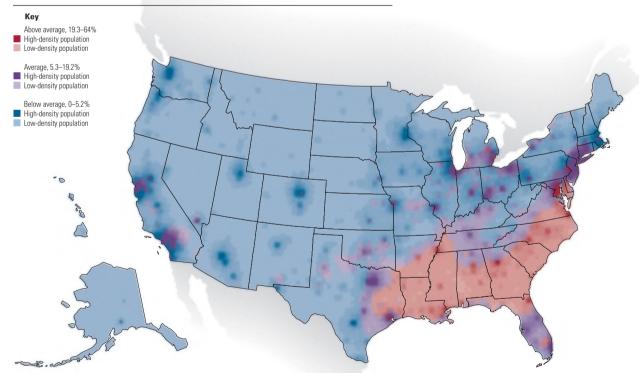
Patterns of Race

Where are densities above and below average?

White Americans as a percentage of the population



Black Americans as a percentage of the population



Source: U.S. Census Bureau

More minority households have kids.

Over 40 percent of minority households in 1995 had at least one child under age 18, compared with 32 percent of non-Hispanic White households. This difference arises primarily because a greater share of minorities are in the prime childbearing years, and minorities tend to have higher fertility rates.

ast track.

Asian Americans are the most rapidly growing race in America due to high birth rates, high life expectancy, and high immigration numbers—33 percent of current immigrants come from Asian countries. According to the U.S. Census Bureau this racial category includes people from countries such as China, India, Iran, Korea, Philippines, Taiwan, Turkey, and Vietnam.

o East.

Over the last decade, Asian Americans have become less geographically concentrated. In 1860 nearly 100 percent of Asian Americans lived in the western U.S. In 1940 nearly 90 percent lived in the west, compared to 46 percent in 1990.

Alaska natives.

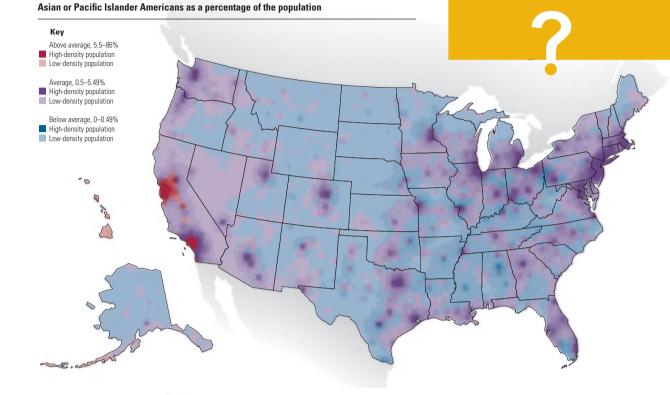
Alaska's Native American population densities are smaller in urban areas. While the total Native American, Eskimo, and Aleut population is almost 16 percent, Anchorage, Alaska, has only six percent.

Different state

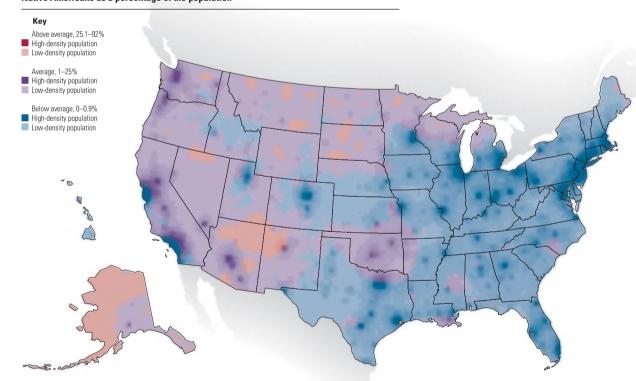
Although there are only 1,937,391 Native Americans in the U.S., ten states had more Native Americans than Black Americans (Alaska, Arizona, Idaho, Montana, New Mexico, North Dakota, Oklahoma, South Dakota, Utah, and Wyoming).

Reservations large and small.

There are 275 Indian reservations in the United States. The largest is the Navajo reservation with some 16 million acres of land in Arizona, New Mexico, and Utah. Many of the smaller reservations are less than 1,000 acres with the smallest less



Native Americans as a percentage of the population



Graying of America.

The average age of Americans is now 35 and rising. The fastest growing age group is made up of those 85 years and older.

Not as young as you were.

One in four Americans is 18 or younger. But the percentage of Americans under 18 is decreasing.

Over 65.

The average number of people in the population that are over 65 is about 13 percent and increasing. According to U.S. Census figures for 1990, the 10 counties with the greatest percentage of residents over 65 are all in Florida. All have over 25 percent.

Where are the guys?

The U.S. average is 96 males for every 100 females. Western states tend to have more men then women. Alaska's north slope tops the range with more than 180 men per 100 women.

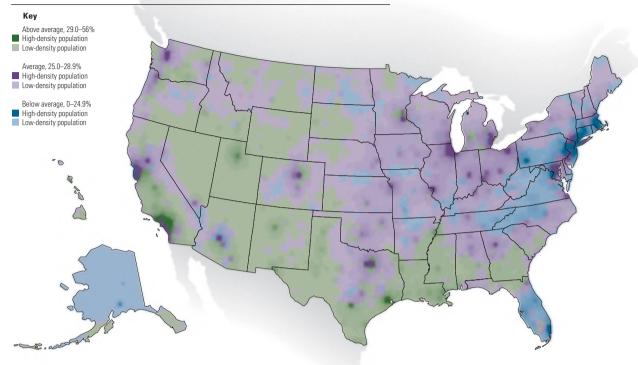
Married life.

Married Americans make up about half the population. The states with the highest concentrations of married people are lowa and West Virginia.

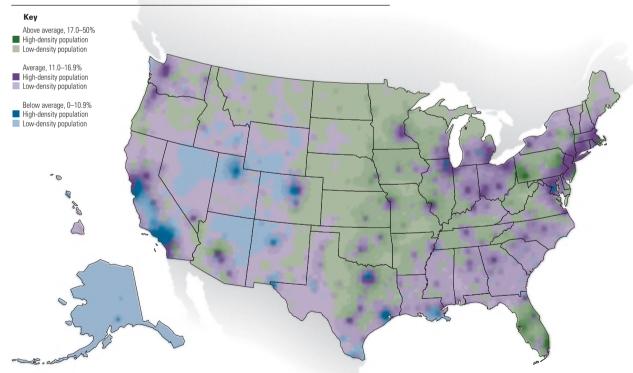
Patterns of Age, Sex & Marriage

Where are densities above and below average?

Americans under the age of 18 as a percentage of the population



Americans over the age of 65 as a percentage of the population



Source: U.S. Census Bureau

Growing youngsters. The number of Americans age 17 and younger rose by six percent between 1990 and 1994, from 64 million to 68 million. The child population increased in all but three states and the District of Columbia during the first half of the decade, but growth rates varied widely. Nevada showed the largest gain (a 26 percent increase), while West Virginia had the largest drop (a loss of four percent).

On the move

Young adults are the most mobile people in our society. About one in three people age 20 to 29 changes his or her address in a given year.

Bible Belt Break Ups.

Behind Nevada, the Bible Belt (Tennessee, Arkansas, Alabama and Oklahoma) is the region with the second highest frequency of divorce roughly 50 percent above the national average.

Vhere's Dad?

The percentage of children living with two parents has been declining among all major racial and ethnic groups. In 1996, 68 percent of American children lived with two parents, down from 85 percent in 1970. Twenty-five percent of children live with only their mother; four percent live with only their father; and four percent live with neither of their parents.

Marrying and remarrying.

Marriage has not gone out of style. The United States has the highest marriage rate in the industrialized world. But divorce in the United States is also common. The U.S. divorce rate is nearly twice as high as those in other industrialized countries. Most Americans who divorce eventually remarry, however. Nearly half of all marriages in 1990 were remarriages for one or both partners.

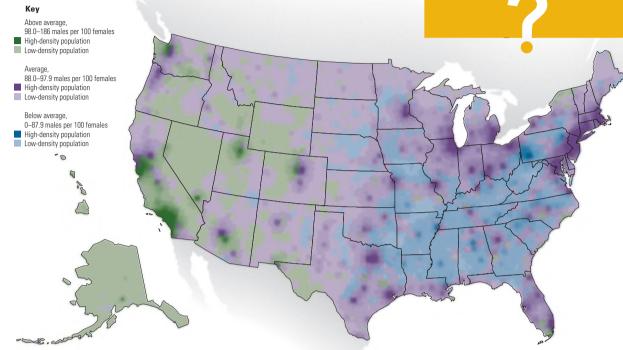
Divorce is u

The currently divorced population is the fastest growing marital status category. The number of divorced people has more than quadrupled, from four million in 1970 to 18.3 million in 1996. They represented 10 percent of adults age 18 and over in 1996, up from three percent in 1970. The chance of a marriage ending in divorce is about 50 percent.

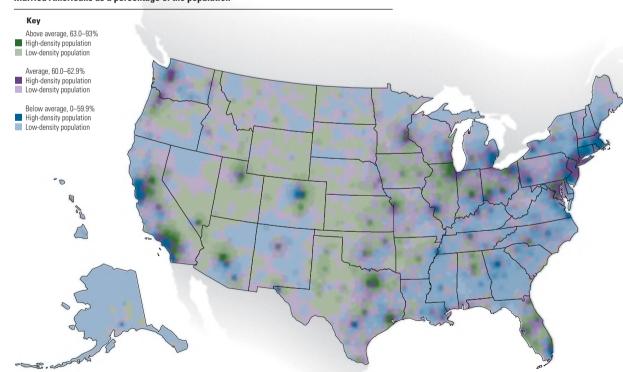
Waiting to marry

The median age for first marriages in the United States is at an all-time high. For men, it was 26.7 years of age in 1994; for women, 24.5.

Male to female ratio (number of males per every hundred females)



Married Americans as a percentage of the population



Hispanic growth.

The Hispanic population is growing quickly, although not as fast as the Asian American population. Six percent of the population was of Hispanic origin in 1980. In 1997 almost 11 percent of the population was Hispanic.

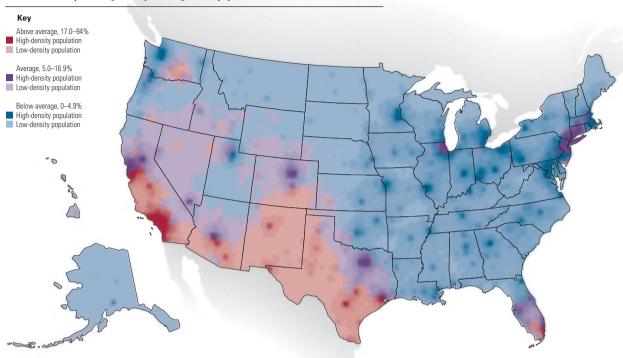
Hispanic boom.

By 2015, Hispanics are expected to surpass non-Hispanic African Americans as the country's largest minority group. In California and New Mexico, Hispanics are projected to surpass non-Hispanic whites as the largest racial or ethnic group by 2015.

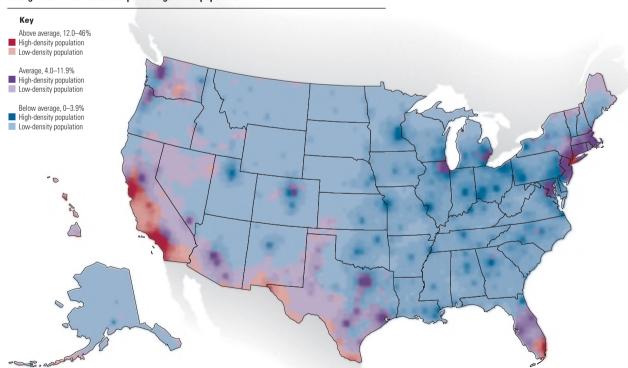
New arrivals.

The U.S. has a higher proportion of immigrants today than at any time since before World War II. In 1990, about 20 million, or eight percent, of us were not born in the United States. The government estimates that there are about five million illegal immigrants in the country.

Americans of Hispanic origin as a percentage of the population



Foreign-born Americans as a percentage of the population



Source: U.S. Census Bureau

Who is Hispanic?

Anyone who retains a cultural connection to his or her Spanish-speaking roots is considered Hispanic. This population includes diverse cultures, ethnicities, and nationalities, with links to Spanish settlers, Blacks from the islands, indigenous Indian populations, and mixed races. Spanish-speaking countries in the Caribbean, Central America, and South America all contribute people to the U.S. Hispanic population, but approximately two out of three Hispanics in the U.S. are from Mexico.

Women graduates.

Since 1981, graduating college classes have had more women than men. Typically, almost six out of 10 graduating college students are women.

Working more and making less.

Nearly 60 percent of women 16 years or older were members of the work force in 1996, up from 52 percent in 1980 and up from 36 percent in the mid 1950s. The gap between men's and women's earnings remains broad; on average, women earn about 75 percent of what men earn.

Median income.

The 1997 U.S. median income was \$37,005. The states with the highest median income were Alaska and New Jersey. The states with the lowest percentage of people below the poverty level were Indiana, New Hampshire, and Utah.

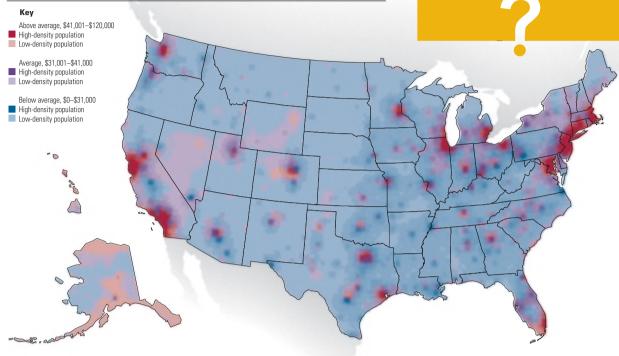
Higher education.

Almost 15 percent of Americans have an advanced degree. In Connecticut and Massachusetts this proportion is nearly 20 percent. Arkansas, Kentucky, Mississippi, and West Virginia are states in which less than 10 percent of the population has an advanced degree.

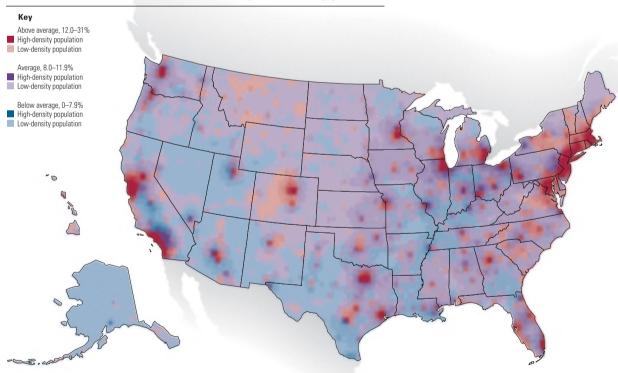
Patterns of Income, Origin & Education

Where are densities above and below average?





Americans with college, graduate, or doctoral degrees as a percentage of the population



College dropouts.

The number of students seeking a college education is at an all-time high with 15 million enrolling in a typical year. But the number of students who receive degrees has not increased much in the last 15 years. Typically, only two out of three freshmen return for their sophomore year.

Special thanks to Matt Graham of Landbase Systems (412.563.9120) for his coaching on GIS mapping issues and assistance de-gooing the U.S. Census data.

Faster some years, slower others.

The U.S. population has increased every year this century, but not grown at a steady or predictable rate.

Who lives, dies, comes, and goes,

Four factors—births, deaths, immigration, and emigration—determine how fast the population grows. For the population to grow, the number of births combined with the number of immigrants must exceed the number of deaths combined with the number of emigrants. The difference between these two amounts in a single year produces the net population growth.

What next?

Nobody knows for sure. U.S. population growth is uncertain, but the Census Bureau makes elaborate estimates that vary based on future scenarios. By changing the rates of the big factors in population growth fertility rates, migration numbers, and changes in life expectancy, some theories as to how fast the U.S. might grow emerge.

A steady stream.

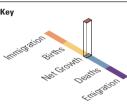
In 1998 immigration reached its highest point since the beginning of the century. These immigrants came mostly from Latin America and Asia and as a result, the Hispanic and Asian populations are the country's fastest growing.

> In 1998 the birth rate of the United States was 14.4 births per every 1,000 people.

Population

Growth Rate

The red line in this diagram shows the net population growth from 1910 through 1998. The growth rate results from subtracting the number of deaths and emigrants from the number of births and immigrants each year. Source: U.S. Census Bureau



Births and deaths don't affect the net growth equally. The number of deaths tends to grow at a steady pace, but births fluctuate so rapidly that they directly impact the net growth seems to roughly mimic the pattern of the number of births.

growth. As a result, the pattern of net

200000 300000

Immigration made up much of the growth of the population until 1930. Nearly 19 million immigrants, most from Europe, came to the U.S.

The Great Depression, from 1929 to 1941, caused the most significant drop in birth and immigration rates this century.

The Baby Boom began in 1946, one year after the end of World War II, and ended in 1964. During this time, record numbers of babies were born, adding 77 million people, or roughly 30 percent of the 1998 U.S. population. In 1957, at the height of the Baby Boom, there were 25.3 highest birth rate this century.

births per every 1,000 people—the

Baby Boom echo started in 1977

when Boomers began having children

of their own. These children—called

Millennials—added 72 million people

to the population, or 20 percent of the

total population in 1998. The peak of the Echo Boom was 1990, with four

million recorded births. Since then,

pass childbearing age.

the number has declined, as Boomers

growth is unclear. While another boom is possible, the attitudes of couples about how many children to have and when suggest a slower pace. Tighter or looser immigration laws can have an instant effect on population. Some studies indicate that within the next 50 years minorities will account for the most population growth.

The future of the U.S. population

Expected Life Span at Birth and at Age 65

	Male		Female	
	At Birth	At Age 65	At Birth	At Age 65
1900	46.41	76.35	48.96	77.01
1950	65.63	77.81	71.13	80.06
1995	72.58	80.61	79.04	84.04

Low, medium and high.

The Census uses existing data to predict future population growth. These estimates require assumptions about future immigration rates, fertility, and life expectancy. This diagram shows the increase in total U.S. population since 1950 and three Census Bureau estimates as to how fast the population

might grow in the future. 272 million 152 million 1950 1998 2050 High estimate Fertility rate Yearly immigration Life expectancy

519 million 2,580 births/1,000 women 1.37 million people 89.4 years 394 million

820,000 people

82.0 years

Medium estimate Fertility rate Yearly immigration Life expectancy

Low estimate 283 million

Fertility rate Yearly immigration Life expectancy

1,910 births/1,000 women 300,000 people

2,245 births/1,000 women

74.8 years

Old Boomers

The aging of the Baby Boomers will be one of the most significant demographic forces shaping U.S. society for the next 40 years. Politics will become more focused on saving Social Security and how to deal with the pools of people entering elderly years. Experts say the number of births will reach over four million again by 2005 as the Baby Boomer grandchildren are born.

What is the future of immigration?

Net immigration is projected to be a predominant factor in future population growth. The Census' medium estimate predicts for every 10 immigrants:



Laws restricting immigration

and war lowered immigration.

combined with economic hardship

4 will be Hispanio

O 3 will be Asian

O 2 will be White

I will be Black

Is the population replacing itself?

The U.S. population must produce 2,100 babies for every 1,000 women to maintain the population at its current level. Since 1980, we have averaged 1,900 per 1,000 women, which is slightly below the replacement rate. Experts say unless our birth rate increases or we admit more immigrants, the U.S. along with many other industrialized nations, could gradually start to depopulate

were from influenza.

An influenza pandemic killed

675 000 U.S. citizens. At the same.

World War I-half of those deaths

time the U.S. lost 112 000 people in

According to the U.S. Census Bureau, on a typical day in the U.S., one baby is born every eight seconds. There is one death every 14 seconds.

What are the leading causes of death?

Of the 2,314,245 people who died in 1997, over half died from either heart disease or cancer.

What is the life expectancy of U.S. citizens?

In 1998, the life expectancy of all U.S. citizens was 76.7 years. In 1900, it was 47.3. When broken down by race and sex, life expectancy varies:

	Both	Men	Wome
Total	76.7	73.9	79.4
White	77.3	74.6	79.9
Black	71.5	67.8	75.0

O Mortality Data. National Center for Health Statistics. Dept. of Health and Human Services. U.S. www.cdc.gov/nchswww/about/major/dvs/

Latest statistics and clinical information on the leading causes of death.

\$37,005. Half of all Americans Wealth 85 percent of the nation's total wealth. up in their homes and savings accounts, make more than the median, half The remaining 80 percent share only 15 while the super rich can have more assets make less. percent of the total wealth. available to invest and leverage their invest-Median income by race: ments to create even greater wealth. \$40,577 39% 46% Black \$25,050 Middle income Super rich of the wealth of the wealth \$26.628 Hisnanic belongs to ... Two thirds of the Over 80% of the wealth . Asian, Pacific Islander \$45,249 wealth is invested in resides in investments, homes and 17% stocks, and financial resides in savings. securities **15%** Real Estate **7**% 45% of the wealth & Businesses belongs to. Stocks 7% 37% **Deposits** 17% 11% 69% 7% The super rich. According to 1997 tax returns, only one tenth of one percent of American households earned This diagram shows the 1997 distribution of more than \$1 million. income for Americans in households earning under \$100,000 per year, divided by race and gender. Each figure represents 250,000 people. Key 800 000 O White Black Female Children or Dependents Hisnanic Other 600.000 500,000 400.000 Poverty thresholds are established 300.000 by the total income for the total The poorest Americans. Numbers versus percentages. number of people within a household. More than 13 percent of all Americans It's important to consider both the total number of For example, \$16,400 is the poverty (35.6 million) live in households that poor Americans and their relative percentages. threshold for a household of four. fall below their poverty thresholds. There are twice as many poor White Americans as Forty-one percent of those considered 200.000 poor (14.6 million) are severely poor there are poor Hispanic Americans. However, a —their total income is less than half Hispanic American is almost three times more likely their poverty threshold. to be poor than a White American. White 16.5 million of White population is poor Whites are poor 100.000 Black 9.1 million 26.5% This diagram shows the 1997 Blacks are poor of Black population is poor distribution of poor Americans 27.1% Hispanic 8.3 million by age, race, and gender. Hispanics are poor of Hispanic population is poor

Where does poverty start?

Poverty thresholds are set by the U.S. Census Bureau and vary by household size and composition. If a household's total income is less than the threshold, the household—everyone in it—is considered poor. How poverty is defined and calculated is an ongoing social and political debate. The current poverty thresholds include money income (before taxes) and exclude capital gains and non-cash benefits, such as public housing, Medicaid, and food

A few people have most of the money.

Twenty percent of the people have

Children are poor.

Even though children represent only 26 percent of the total population, they make up 40 percent of the poor—and over half of those children are under age six

Families matter.

The poverty rate for children under age six living in households with a single female parent is 59.1 percent, more than five times the rate for children in households of married couples (10.6 percent).

The composition of wealth.

The wealth of middle income families is tied

What is median income?

Median income is the amount which divides income distribution into two equal groups. Half have income above the median; half have income below the median. The diagram above includes a yellow line to indicate the 1997 median income: \$37,005.

What is mean income?

Median income.

America's median income is

Mean income is the amount obtained by dividing the total aggregate income of the population by the number of people in the population. The 1997 mean income for households was \$49,692.

The richest American.

Bill Gates, chairman of Microsoft Corporation, is America's richest person—with a 1999 net worth estimated at \$85 billion. To chart Gates's net worth on the diagram above, the diagram would have to grow 46,041 feet tall—almost nine miles high!

Distribution of

One step at a time.

Reaching the White House is a long trip. It may take years. Basically, you've got to convince millions of voters that you know how to run a big, rambunctious country like the United States.

Source: Larry Elowitz. Introduction to Government. 1992

This list highlights some of the key steps along the path to the presidency.

- 1 Raise a few million. To demonstrate that you have broad national appeal, you've got to raise at least \$5,000 from small contributors (contributions of \$250 or less) in at least 20 different states—that's \$100,000 and it's the bare minimum to get started as a candidate. You'll need every penny.
- **2 Take a stand** that will appeal to both the public and people who are active in your political party.
- **3 Hire some help.** Get a handler to make you look good. Professionals are available to help you package yourself so that you'll have maximum appeal. Hire a spin-doctor to package you for the media and help you put the most positive spin on everything that happens. It's vital that you seem credible and attractive to the print and broadcast media. Special consultants can help.
- 4 Declare your candidacy early enough to become a household name before the first primary. Some candidates now become visible more than 15 months before Election Day.
- **5 Buy opinion polls** to find out what the public thinks of you, your issues, and your opponents. Make changes to increase your appeal.
- **6 Keep good records.** You've got to be able to show where all your campaign contributions came from if you expect to receive matching federal campaign funds. Each candidate must turn in periodic reports to the Federal Election Commission to detail both income and expenditures.
- **7 Win in a straw poll.** Straw polls are trial elections that state parties use for fundraising and publicity. The results of these elections don't count, but if you make a good showing, you'll get lots of positive publicity. The lowa caucus is typically the first and most visible straw poll.

- 8 Eat rubber chicken. Fund-raising dinners will nourish your campaign. Get out and meet people. Impress them with your wit and
- 10 Win some state primaries to show
- 11 Cash Uncle Sam's check. Candidates who receive many small contributions from many people qualify for matching federal funds. The money keeps coming until you gain less than 10 percent of the popular vote in two consecutive primaries and fail to win 20 percent in a subsequent primary.

- wisdom. Listen to their concerns.
- 9 Distinguish vourself from your sameparty opponents. Until you emerge as your party's chosen candidate, you've got to flaunt your issues. Separate yourself from the herd. Later you can move to the middle of the road.
- your voter appeal. A good showing is vital to financial support. The New Hampshire primary is the first and the most visible. It's tiny, but the press loves to cover it. In recent years, it is rare for a candidate to become president without first winning in New Hampshire. In fact, in the last 40 years only Bill Clinton did not carry the New Hampshire primary.
- ing TV, exposure is great for your campaign. 13 Secure your party's endorsement. Win enough primaries and demonstrate
 - public support in opinion polls, and you'll have the endorsement locked up before you get to the national convention.

12 Make news. Stage events. Get yourself

on TV nightly. With millions of voters watch-

- 14 Unify the party. You'll need the support of your former opponents to finish the race. Make peace and pull the party together.
- 15 Craft a viable party platform. Choose issues that everyone loves and no one hates. It's harder than it sounds. Be prepared to make some compromises. Move to the middle of the road. Politically, Americans are largely similar. No extreme candidate can win. If you supported extreme positions to win attention early in the campaign, it's time to shift to a more moderate position. Make exciting
- 16 Choose a running mate who can pull in extra votes, level out platform imbalances, and keep feet out of mouth.
- **17 Escape mainstream media.** Find ways to talk directly to the voters. Appear on MTV or a talk show to avoid distortion of your ideas by news commentators or editors.

Becomina President



- **18 Debate.** Demonstrate your ability to think on your feet and show voters that you are fit to be a president.
- 19 Get out the vote any way you can. Stimulate volunteer efforts, Mailings, phone calls, and ads are expensive. And priceless. Meet the voters face to face. Do it while the cameras are rolling.
- 20 Return favors. Support your party's local candidates loyally if you expect party support to keep you afloat. Visit the cities and states where local elections are close to give your party's candidates a boost. Help them and they'll help you.
- 21 Sling mud but wear Teflon. Disparage your opponent's record and values carefully. Negative campaigning can backfire. Be prepared to counter low blows directed
- **22 Target swing states.** Don't waste time in states where you're likely to lose or where you have a strong lead. Go to the undecided states where electoral votes are plentiful and
- 23 Don't stop running until the last vote is cast. Your official presidential campaign ends on Election Day—the Tuesday after the first Monday in November. Don't plan any time off until the race is over.
- **24 Get to work.** The race was the easy part. Now it's time to make good on your promises so that four years from now, you can win the race all over again.

Presidential Trivia

Of the 42 presidents 19 were born in New York, Ohio,

- 21 had fathers who were farmers
- 1 had a father who was president
- 1 had a grandfather who was president
- 18 had 6 or more brother and sisters
- 13 were the first-horn in their families
- 41 were married
- 1 had 15 children

- 6 were in their 40s when they took office
- **26** were in their 50s when they took office
- 9 were in their 60s when they took office
- 1 was in his 70s when he took office
- 8 died in office
- 4 were assassinated
- 30 were college graduates
- 27 had military service 26 were lawyers
- 15 served as vice president
- 15 served as senators
- 19 served as representatives
- 16 served as state governors
- 13 were Democrats
- 17 were Republicans
- 1 was elected for a fourth term
- 1 was elected for a third term
- 14 were elected for a second term
- **9** who succeeded to the presidency were subsequently elected in their own right
- 2 were impeached

O Code of Federal Regulations. Government Printing Office.

www.access.gpo.gov/nara/cfr/ The Code of Federal

Regulations (CFR) is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government

Your vote counts-indirectly.

The president and vice president are elected by the states, not directly by your popular vote. When you vote for a presidential candidate, you are really voting for an elector in your home state, who in turn pledges to vote for a presidential and vicepresidential candidate. On election day, there are 51 separate elections (50 states plus the District of Columbia) to determine each state's electors.

This diagram shows how many electors each state has and how they voted in each election since 1960

Source: Encyclopædia Britannica

Kev

- Democrat
- Republicar
- George C. Wallace
- Harry F. Byrd

The number of electors is fixed at 538.

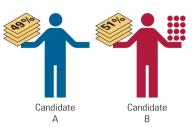
It will increase only if we add more states to the Union. The number of electors for each state is the same as the number of senators and representatives that state has—a reflection of the state's population. But the electors are not the same people as the members of Congress. Electors are selected for each election year by their respective political parties, usually as a reward for years of faithful service to the party.

Capture a majority.

To become president, a candidate needs 270 electoral votes—a simple majority of the 538 electors

Winner takes all.

State contests are winner-take-all. The candidate with a majority of the popular vote gets all the electoral votes in the state. Winning the popular vote by even the slightest margin gives a candidate all the electoral votes for that state.



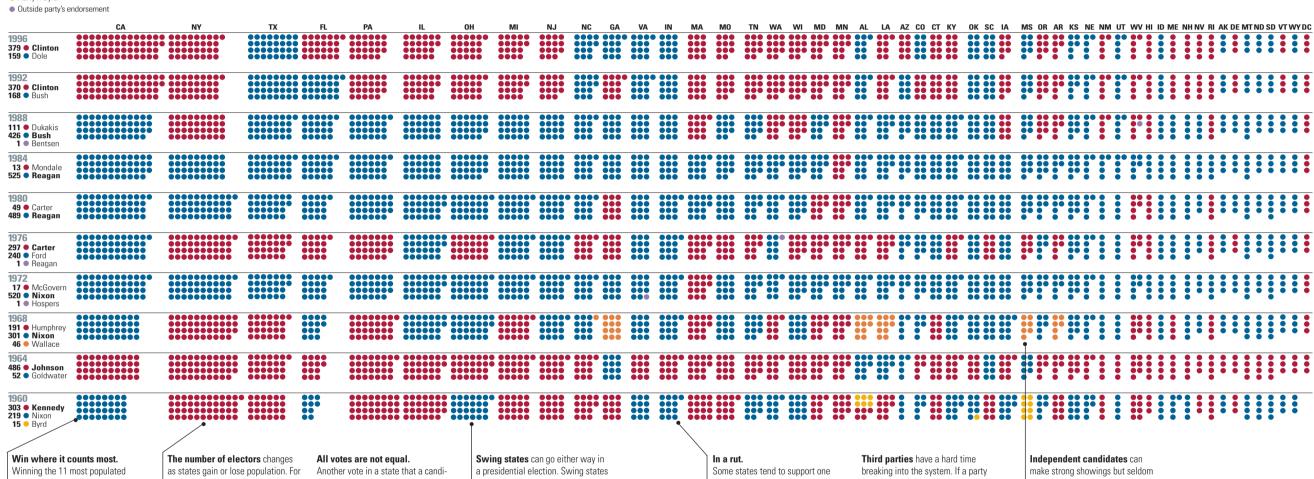
Power to the states.

The founding fathers adopted the electoral system to give states an important say in national government and to make sure that not all the power went to the most populated states. The electoral system ensures that voters in states with small populations still have a significant voice. For example, Delaware, a state with a small population, has one elector for each 250,000 residents, but California, the most populous state, has one elector for every 600,000 residents.

Playing the game.

Presidential candidates recognize the nature of the electoral system when they plan their campaigns. They focus on states where the contest is close and pay special attention to states with lots of electoral votes.

The Electoral College



states gives a candidate the 270 electoral votes needed to become president, so most candidates work hard to win these states

example, California, Florida, and Texas have grown over the past 40

date has already won isn't worth much. And neither is a vote in a years, while Illinois, New York, and state where a candidate trails and cannot possibly win. The most valu-Pennsylvania have lost electors. able votes are in states where the race is close and a small gain could tip the balance and give the candidate a majority. This is the reason that candidates invest their time and money in states where the race is close—especially if the state has a

lot of electors.

with many electoral votes attract the most attention from presidential candidates. In recent elections, Michigan Missouri New Jersey New York, Ohio, and Pennsylvania have been significant swing states.

party or the other in every presidential race. A candidate who thinks an opponent controls a given state will shift resources elsewhere

forms around a faction that has solit from one of the traditional parties, it tends to divide the vote and hand the election to the opposition. But, third parties can bring innovative ideas to the national agenda. Traditional parties are quick to coopt popular ideas, neutralizing the threat of an independent party. For example, the initial plan for Social Security was proposed by the Socialist Party but was later adopted by the Democrats in an effort to win the 1932 election.

have the resources to oppose major parties. The closest anyone has come recently was in 1968, when George Wallace split from the Democratic Party and won 46 electoral votes with his American Independent Party's platform (law and order, opposition to desegregation). In 1992, H. Ross Perot got nearly 20 percent of the popular vote, but because he failed to cap ture the majority in any state he didn't win a single electoral vote.

Can the outcome of the electoral vote differ from the popular vote?

Yes. It's happened twice in our history. But it can't be off by much. Rutherford B. Hayes (1876) and Benjamin Harrison (1888) won enough electoral votes to become president even though their opponents had slightly more popular votes. The electoral system was developed to allow the states to select national leaders. It was not intended to match the popular vote exactly, every time.

Can a roque elector vote for a candidate other than the one that carried his state?

Yes. It has occurred from time to time (look for the purple dots above), but it's never made any difference in an election. Typically, the party appoints an elector who is inclined to honor a pledge

What happens if no candidate wins the 270 electoral votes needed to become president?

With three or more candidates, it is possible that none will have the 270 votes needed to win. In that case, the House of Representatives chooses the president and the Senate chooses the vice

Are all states winner-take-all?

Not every state. Maine and Nebraska have their own versions of the electoral system, where the electors can split their votes. Occasionally, other states will split their electoral votes, but these splits have never altered the outcome of any election.

Why not change to a system based on popular votes?

Changes like this have been proposed, but they've gone nowhere. A purely popular vote would require even more widespread campaigning by candidates and might favor third parties at the expense of the traditional parties. Changes to the electoral system would require a constitutional amendment.

O Federal Elections Commission. U.S. www.fec.gov/ In 1975, Congress created the Federal

Election Commission (FEC) to administer and enforce the Federal Election Campaign Act (FECA)—the statute that governs the financing of federal elections

Lobbyists pull a lot of strings.

Lobbyists work for special interest groups. Their goals are to defeat legislation that is undesirable to their clients and to promote legislation that is favorable. They know everything about how the legislative process works and use every trick in the book. Lobbyists make sure legislators at the federal and state levels understand how the special interest group feels about specific laws and highlight the voting power and campaign contributions that the group can offer. They supply information, schmooze, threaten, and funnel campaign contributions.

This diagram shows the activities of a lobbyist.

Sources: Federal Election Commission, Center for Responsive Politics

Many lobbyists are part of big Washington firms that work for many different special interest groups at the same time. Estimates in 1998 put the number of active lobbyists at more than 11,000—more than 20 for every member of Congress. Many highpowered lobbyists are former members of Congress who have established contacts and understand how the system works.

Twenty to one.

What is a special interest group?

Any group of people with a shared interest is a special interest group (SIG). These groups organize and work energetically to influence lawmaking. TSIGs can be organized into six types:

- Economic special interest groups are concerned about legislation that affects their business, trade, or union.
- Civic special interest groups focus on issues they think are right for the country. Consumer advocacy groups and environmental organizations are good examples.
- Governmental special interest groups look out for the interests of states and municipalities.

- Ideological special interest groups exist solely to promote the particular views of their members. The Christian Coalition and Americans for Democratic Action are
- Civil rights special interest groups have been formed by groups that have historically faced legal discrimination or unfair opportunities. Examples include the National Association for the Advancement of Colored People (NAACP) and the National Organization of Women (NOW).
- Single-issue interest groups focus on one concern, for example Mothers Against Drunk Driving (MADD).

What is a political action committee?

A political action committee (PAC) is created by a SIG to legally raise and distribute money to candidates. A PAC is nothing more than a big bank account. PACs became a major element of political life after 1971, when campaign finance legislation limited the amount of money that an individual can contribute. Each PAC could contribute up to \$5,000 to each candidate for each campaign (an individual can only give \$1,000). To gain influence in government no matter who wins, some PACs contribute to both sides in a close race.

Lobbying

What does a lobbyist do? group? What is a political

Kev Action Money Each SIG hires lobbyists to help persuade legislators to support the goals and ideas of People join an existing Lobbyists build a network **Lobbyists brief** legislators Lobbyists convince politi-**Special interest groups** the aroup special interest group to of contacts to ensure that about the bills currently cal parties to add the SIG's contact the media about encourage laws that suit under consideration and issues to the party platform issues in an attempt to influthey can reach any conthem or form a new special gressperson who can help make sure lawmakers have and arrange for soft-money ence public opinion. interest group. them. They persuade legisthe facts they need. Lobbyists contributions to be made to may testify before congresthe party lators to see issues from the sional committees and SIG's point of view. Lobbyists Lobbyists alert the SIG to even help write bills to supply experts to talk about potential threats from pro-Special interest groups ensure that the viewpoints of the effects a specific bill will posed legislation and report (SIGs) advise members on their clients are supported. have on the public and SIGs form PACs (political each legislator's position on the policies and voting Lobbyists also discuss with the SIG. action committees) to legally key bills. And to magnify records of congresspersons lawmakers the availability of make contributions to polititheir influence on hot issues, so they can vote for legislacampaign contributions, and cal campaigns lobbyists may team with tors that support their views **sponsor** public opinion polls and oppose those that don't. other special interest to demonstrate support for the SIG's views. The Public **Political Action Special Interest** Lobbyist **Political Party News Media** Congressperson Congress Committee Group The media inform the public Parties give extra campaign support to candidates about pending legislation, polit-SIGs pay the lobbyists' who have attracted big camical events, election campaigns, paign contributions and controversial issues. PACs can give up to \$15,000 An individual can donate up to There are limits to how much Individuals can donate up to Individuals can also donate An individual can donate PACs can give up to \$5,000 to An individual can donate a money an individual can con-\$5,000 to a PAC. They can conmoney directly to SIGs to help a maximum of \$25,000 per a candidate's campaign. maximum of \$1,000 per election annually to a national party \$20,000 per calendar year to a to a candidate or the candidate's tribute to candidates, current tribute to more than one PAC as calendar year as long as he national party committee the SIG in its lobbying efforts. legislators, PACs, and political long as each is formed by a sepor she obeys all the federal election committee parties. These limits were arate special interest group campaign financing limits.

The term "lobbyist" comes from the 19th century, when representatives of special interest groups gathered in the lobby of the Willard Hotel in Washington, D.C., to talk to members of Congress

imposed to curb the "buying" of influence in government

What makes a person a lobbyist?

A registered lobbyist must spend at least 20 percent of his or her time lobbying, work for a client paying more than \$5,000, have multiple contacts with leg islative staff, members of Congress, or high-level executive branch officials, and spend at least \$20,500 over a semiannual period. Though unregis tered, many other people also use lobbyist tactics and their own personal clout to influence

Fortune's ranking of SIGs with the most clout:

- 1 American Association of Retired Persons
- 2 American Israel Public Affairs Committee
- 3 National Federation of Independent Business
- 4 National Rifle Association of America 5 AFL-CIO of America
- 6 Association of Trial Lawyers of America
- 8 Credit Union National Association 9 National Right to Life Committee
- **10** American Medical Association

What is the difference between hard money and soft money?

The amount of money that can be given to a candidate legally by an individual or a PAC is limited. That's hard money. It must be declared and reported. But there is a way to throw more money behind a candidate. Soft money gets around the limits imposed on hard money by allowing individu als, corporations, and unions to help a candidate by contributing to the candidate's party.

Do campaign contributions end up in the candidate's pocket?

Not very often. There are too many people watching, inside and outside the party, to get away with it easily. And for most candidates, it is much more important to win than it is to put away a few dollars. Some candidates go deeply in debt to keep their campaign rolling.

Do foreign countries lobby our government?

Yes. In 1998, there were more than 500 active agents. Foreign agents are lobbyists working on behalf of a foreign country, corporation, or industry. Foreign interests can hire a U.S. lobbyist or send one from their country. These lobbyists may be seeking economic or political support, promoting business expansion into their country, or marketing their goods and services to the U.S.



Navaho weaving, circa 1975 from the collection of Kit Hinrichs

Clement Mok

Economics of Raising a Child

What are the costs involved in raising a child?

Children at Risk

What factors influence a child's well-being? Who is at risk? And where are they?

Domestic Violence & Child Abuse

How common are these problems?

Baby Boom Echo

What characterizes this generation of teens?

K-12 Schools

Who attends school? Who completes high school? And what are the costs associated with it?

Literacy

What is literacy? And what is its impact?

Affirmative Action

Has affirmative action worked?

Technology in the Classroom

Who has access? How is it being used? Is it effective?

The Cost of Higher Education

Who's educated? And at what cost?

Higher Education

What are people studying?

Suicide

What causes suicide? How frequently does it occur? Who's at risk?

The cost of raising a child born in 1997

What is the cost of educating a child to age 21?

What is the average amount of income a person forgoes while raising a child from birth to age 21?

Cumulative Expenditures













































expenditu to annual

7.24

4.20



Expenditures / Income before taxes | \$115,020 / \$22,500 | Middle income group \$156,690 / \$47,900 | High income group \$228,690 / \$90,700 | Ratio of expenditures to annual income 5.11 3.27 2.51





Expenditures / Income before taxes

*Estimates are based on 1990-92 Consumer Expenditure Survey data updated to 1998 dollars using the Consumer Price Index. The figures rep-

child in a two-child family. Estimates are about the same for the older child. To estimate expenditures for an only child, multiply the total expenditures by 1.24. To estimate expenditures for each

child in a family with three or more each by approximately 0.77.

☐ According to one government calculation, the direct cost of raising a child to age 18 has risen by 20% since 1960 (adjusted for inflation

and changes in family size).

☐ Only 19% of all fertility treatments actually produced a take-home baby—averaging \$8,000 a try. It's not uncommon for infertile couples to spend \$50,000 or more in pursuit of pregnancy.

Though statistics indicate that higher income earners can afford children more easily, their level of forgone wages is quite steep. In fact, statistics show that middleaged women with graduate degrees are over three times more likely to out of high school. Similarly, twoincome married couples earning over \$75,000 are 70% more likely to be childless than those earning

> ☐ According to the March of Dimes, the lifetime health costs of a child born with cerebral palsy, average **\$503,000**; with Down's syndrome, \$451,000; and with spina bifida, \$294,000.

Estimated annual expenditures*on children born in 1998

Compared to the average cost of keeping a middle-class child born in 1997 healthy to age 18, the health costs of a disabled child are 10 to 20 times higher.

Economics of

Raising a Child

What are the costs involved

in raising a child?

of children are being raised by a single parent.

One of the attributes of strong families, time together, is likely to be diminished since the time that a single parent has to nurture, monitor, care for, and guide children is inevitably limited.



growing up in households that rely on public assistance.

Chronic dependence on public assistance has been shown to undermine parental self-esteem and efficacy. Over time, many parents who rely on welfare reveal a diminished sense of control over their own lives and the lives of their children. In some instances, parents begin to feel that there is no alternative to public support, thus accommodating themselves and their children to an expectation of dependence.

Children who are living in families with four or more risk factors are considered "High Risk."

They represent

of the population of children. "1999 Kids Count Data Book," The Annie F. Casey Foundation

America's Children at Risk. Census Brief. Dept. of Commerce. Census Bureau.

www.census.gov/prod/3/97pubs/cb-9702.pgf Brief Census report on the variety of risks facing children in the United States. Includes social, education and economic

of children are growing up with a head of household who has not graduat-

Studies broadly indicate that the less education a mother has, the less likely that her young child will be read-to at home or be fully ready for school. Children born to a mother who has less than a high school diploma are now twice as likely to drop out of school as the children of a mother who is a high school

ed from high school.

of children are living with parents who do not have full-time, yearround employment.

Working parents serve as influential role models and impart the value of work and earning to their children. Beyond the dignity-enhancing value of work, when a parent has secure employment, children learn earlier and more broadly about the world of work and career and enlarge their own sense of adult possibilities.



The 1999 National Composite Rank is each state's standing on the conworst (51). The rankings are based on low-birth-weight babies; infant mortality; child deaths; teen deaths by accdent; homicide, and suicide; teen birthrate; high school dropout rate; teen unemployment; parental and single parent households.

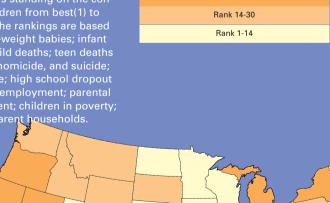
ing up in poverty.

Children who grow up poor are more likely to become teen-age parents, drop out of high school, and be unemployed as young adults. Families with more financial resources are able to give their children a far broader range of experiences, which increases their access to opportunities.



Teenage childbearing is problematic because it often diminishes the opportunities of both the child and young mother. Births to teenage mothers under age 18 are particularly troublesome because most of the these mothers are unmarried and have not completed high school. Their children are ten times more likely to live in poverty.





☐ Only **17%** or 1.5 million of California's children are vulnerable, while 39% of children living in the District of Columbia are in the highrisk category.

1992 4 1992 3

1982 3

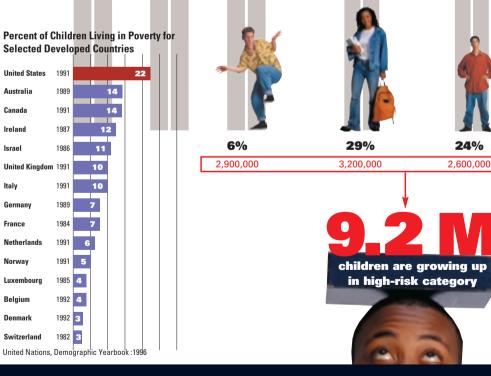
☐ The percentage of children in poverty is perhaps the most global and widely used indicator of child well-being. Despite the enormous wealth in the U.S., our child poverty

rate is the highest among 17 developed countries. Our poverty rate is 50% higher than the next highest rate.

500,000

Children at Risk What factors influence a child's well-being? Who is at risk? And where are they?

Income, savings, parental time, access to health care, ethnicity, and locale all play a major role in determining how well a family can ensure the well-being, development, and success of its children.



3

Population



Domestic Violence & Child Abuse

How common are these problems?

?

3,000,000 treported cases

or 47 out of every 1,000 U.S. children were reported as victims of child maltreatment in 1997.

Reports of child abuse have increased 41% between 1988 and 1997. Experts attribute much of the increase in reporting to greater public awareness of and willingness to report child maltreatment, as well as changes in how states collect reports of maltreatment.

1,054,000 confirmed cases

or 15 out of every 1,000 U.S. children were abused in 1997. 16% Emotional and Other Forms of Maltreatment
54% Neglect

8% Sexual Abuse
22% Physical Abuse

20

Young children remain at
a high risk of fatality.

10
Between 1995 and 1997,
78% of fatally abused
children were less than five
years old at the time of
their death.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Age of Victims



Based on information from 18 states, reports of abuse in day care, foster care, or other institutional care settings represented about 3% of all confirmed cases of child maltreatment in 1997.



Children from families with annual an income below \$15,000 were 22 times more likely to experience maltreatment compared to children from families with an annual income above \$30,000.

The Violence Against Women Act: Breaking the Cycle of Violence. Executive Summary. Violence Against Women Office. Dept. of Justice. U.S.

www.usdoj.gov/vawo/cycle.htm
The Violence Against Women Act is landmark legislation—combining tough law
enforcement strategies with important safeguards for victims of domestic violence and
sexual assault

□ Domestic Violence

Recent surveys indicate that increased public awareness about domestic violence has encouraged women to come forward. Surveys indicate that approximately 30% of women

have faced some form of abuse. Reported perpetrators of child abuse are equally divided among men and women, but the majority of perpetrators of domestic violence are men.

☐ Child Fatalities

Using 1996 statistics provided by children protective service (CPS) agencies, it is estimated that more than three children die each day as a result of child abuse or neglect.

41%

of these deaths are children known to CPS agencies as current or prior cases. Extreme Child Poverty Rises Sharply in 1997. Children's Defense Fund. www.childrensdefense.org/publications/extremepoverty.html

An examination of recent welfare reforms and their impact on children in poverty.

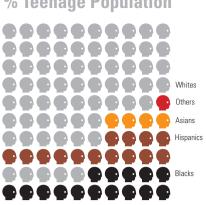
Ethnically Diverse

Teens are more ethnically diverse than the overall U.S. population. The percent of Hispanic teens, African American teens and Asian American teens are all above the national average.

% U.S. Population



% Teenage Population



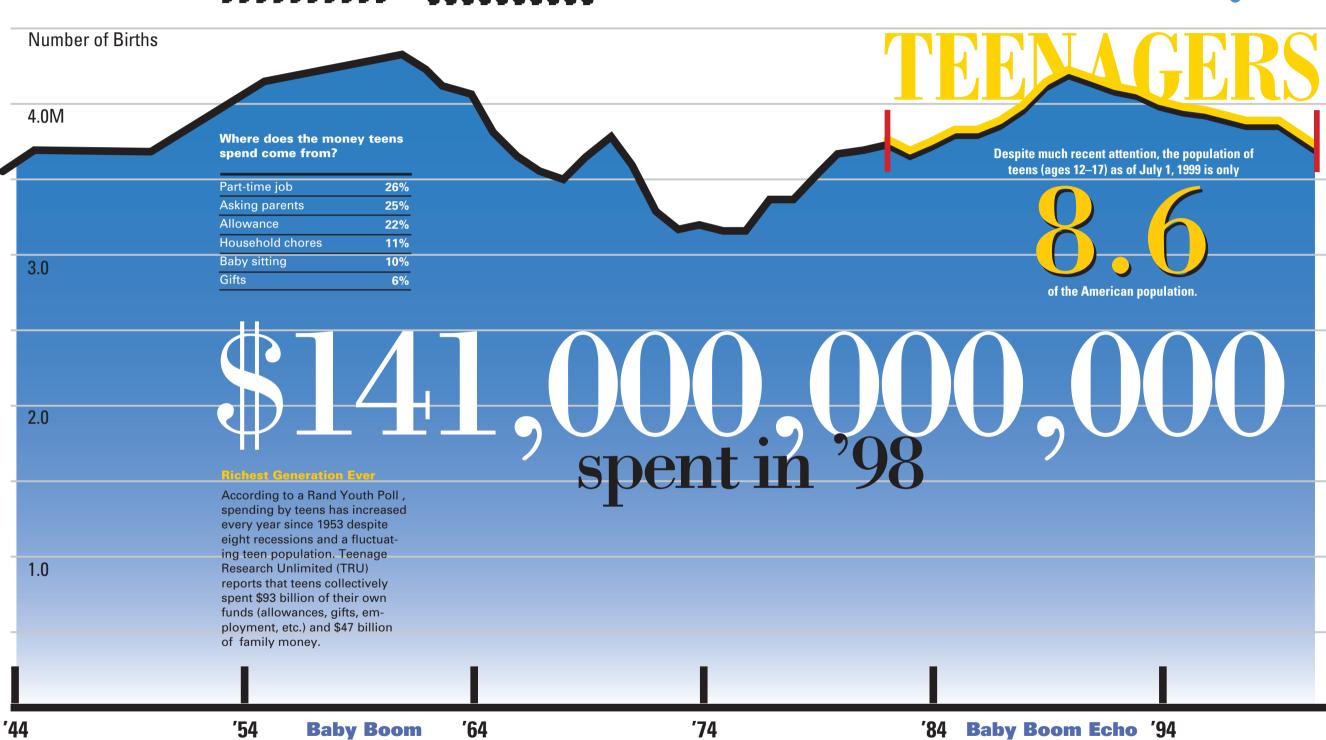


Teens have the highest percentage of Internet users, with 89.2% having already been online. According to Newsweek, 77% of all teens would rather look something up on the Internet than in a book. At present, more male teens use the Internet than female teens. On average, teens surf the Internet 5.1 hours per week primarily at home, at school, and at their friends' homes.

Baby Boom Echo

What characterizes this generation of teens?

2



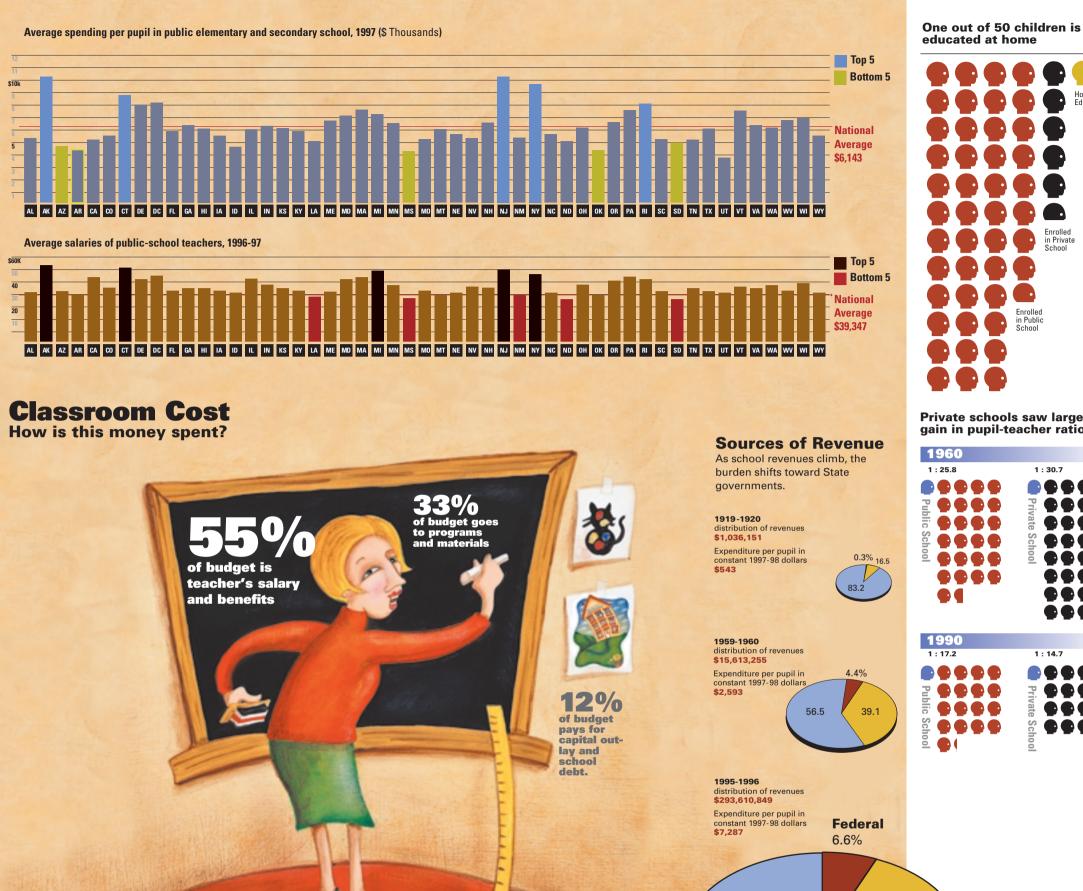
□ During the school year 39% of all teens between 15 and 17 work an average of 18 hours each week. During summertime, 59% of teens work either full-time or part-time.

☐ By the time they graduate from high school 80% of all teens will have had at least one job (usually part-time).

☐ Today teens spend average of 51 minutes a day doing homework, down from 70 minutes a decade ago.

☐ By the time they enter college, 40% of teens will have their own vehicle.

□ Over 10% of all high school students have a credit card (co-signed by a parent), and 55% of all teens have a telephone calling card.

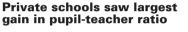


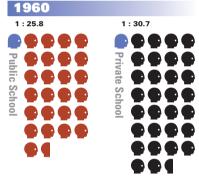
K-12 Schools

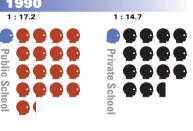
Who attends school? Who completes high school? And what are the costs associated with it?

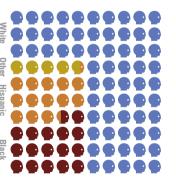


Just 50 years ago, the number of high school graduates among 17-year-olds was only 59%. In recent decades, graduation increased dramatically. For the 1989-90 school year, 74.2% graduated - a total of 2,587,000 students. Vermont ranks the highest with 89%, and South Carolina ranks the lowest with 54.4%.









35.1% of the population in elementary and secondary school is made up of minorities-blacks, hispanics, and others.

Dept. of Education. U.S.

www.ed.gov
The lead agency in the U.S. federal government dealing with education policies and

☐ Teachers' salaries rose 19% from 1980 to 1997. Virtually all of this increase occurred during the mid-80s. Since 1991, the average teacher's salary actually fell slightly, after adjusting for inflation.

☐ The number of minority students increased 5% between 1986 and 1996. Hispanics account for 3.5% of the increase, while Blacks account for less than one half of 1%.

Local

45.9

percentage of white high school dropouts among 16- to 24-year-olds. (1996)

State

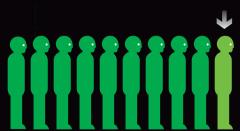
47.5

percentage of black high school dropouts among 16- to 24-year-olds. (1996)

percentage hispanic high school dropouts among 16- to 24-year-olds. (1996)

\$790M

was spent in 1999 by the federal government on adult education and family literacy — a substantial increase over the previous year when it spent \$484 million. This is in addition to the \$958 million spent by state and local governments.



One out of every ten people of the 40+ million adults with literacy needs is enrolled in a program that assists them in improving their skills.

1.5M Adult Basic Education

(below 8th grade skill level)

0.9M Adult Secondary Education
(8th -12th grade skill level)

1.6M English as a Second Language

Literacy

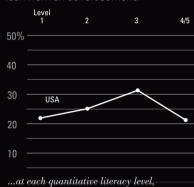
What is literacy? And what is its impact?



In the past, literacy was considered the ability to read at a very basic level. Today, the world is changing in ways that demand and reward greater knowledge and skills. The global economy, the Internet, NAFTA, and other developments have changed what it means to be literate.

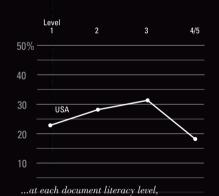
Quantitative Literacy

The knowledge and skills required to apply arithmetic operations, either alone or sequentially, to numbers embedded in printed materials such as balancing a checkbook, figuring out a tip, or determining the interest on a loan from an advertisement.



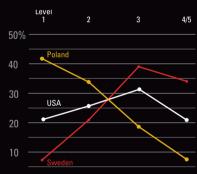
Document Literacy

The knowledge and skills required to locate and use information in different formats, such as job applications, payroll forms, transportation schedules, maps, tables, and charts.



Prose Literacy The knowledge and skills n understand and use inform

Ine knowledge and skills needed to understand and use information from printed texts, including editorials, news stories, poems, and fiction.



...and at each prose literacy level,

	1	2	3	4/5
Sweden	7.5	20.3	39.7	34.2
Netherlands	10.5	30.1	44.1	15.3
Germany	14.4	34.2	38.0	13.4
Canada	16.6	25.6	35.1	22.7
Australia	17.0	27.1	36.9	18.9
Switzerland (French)	17.6	33.7	38.6	10.0
Belgium (Flanders)	18.4	28.2	39.0	14.3
New Zealand	18.4	27.3	35.0	19.2
Switzerland (German)	19.3	35.7	36.0	8.9
USA	20.7	25.9	32.4	21.1
United Kingdom	21.8	30.3	31.3	16.6
Ireland	22.6	29.8	34.1	13.5
Poland	42.6	34.5	19.8	3.1

Literacy is defined more broadly to include applying reading, writing, and math skills to obtain and use information and solve problems. Literacy is not something people have or don't have. Rather, it is a range or continuum of skills that help people function in daily life, with individuals falling at different places on that continuum.

□ Dropouts experience the most unemployment, with a 10% average, compared to an average unemployment rate of 2.5% for those with college degrees.

of adults read at or below 5th grade level.

Mean monthly income

\$452

Percentage of adult population...

Mean monthly income

\$1,829

with a bachelor's degree

 National Center for Education Statistics Dept. of Education. U.S.
 nces.ed.gov/

nces.ed.gov/
NCES is the primary federal entity for collecting and analyzing data that are related to education in the United States and other nations.

43%

of people with the lowest literacy skills live in poverty. 17% receive food stamps, and 70% have no job or a part-time job.

 Educational Resources Information Center. National Library of Education.
 Dept. of Education. U.S.
 www.accesseric.org/

www.accesseric.org/ A national information system designed to provide users with ready access to an extensive body of education-related literature. Myth: The only way to create a color-blind society is to adopt color-blind policies. Fact: Although this assertion sounds intuitively plausible, the reality is that color-blind policies often put racial minorities at a disadvantage. For instance, all else being equal, color-blind seniority systems tend to protect white workers against job layoffs, because senior employees are usually white. Likewise, color-blind college admissions favor white students because of their earlier educational advantages. Unless pre-existing inequities are corrected or otherwise taken into account, color-blind policies do not eliminate racial injustice — they reinforce it.

Myth: Affirmative action may have been necessary 30 years ago, but the playing field is fairly level today

Fact: Despite the progress that has been made, the playing field is far from level. Women still earn 74 cents for every male dollar. Black people have twice the unemployment rate of white people, half the median famili income, and half the proportion of those who attend four years or more of college. In fact, without affirmative action the percentage of black students on many campuses would drop below 2%. This would effectively choke off black people's access to higher education and severely restrict progress toward racial equality.

Myth: Affirmative action is nothing more than an attempt at social engineering by liberal Democra

Fact: In truth, affirmative action programs have spanned seven different presidential administrations – four Republican and three Democratic. Although the originating document of affirmative action was President Johnson's Executive Order 11246, the policy was significantly expanded in 1969 by President Nixon and then Secretary of Labor George Shultz. President Bush also enthusiastically signed the Civil Rights Act of 1991, which formally endorsed the principle of affirmative action. Thus, despite the current split along party lines, affirmative action has traditionally enjoyed the support of Republicans as well as Democrats.

Myth: The public doesn't support affirmative action anymore. Fact: This myth is based largely on opinion polls that offer an all-or-none choice between affirmative action as it currently exists and no affirmative action at all. When intermediate choices are added, surveys show that most people want to maintain some form of affirmative action. A recent Time/CNN poll found that 80% of the public felt "affirmative action programs for minorities and women should be continued at some level." What the public opposes are quotas, set asides, and "reverse discrimination." For example, when the same poll asked people whether they favored programs "requiring businesses to hire a specific number or quota of minorities and women," 63% opposed such a plan As these results suggest, most members of the public oppose extreme forms of affirmative action that violate notions of procedural justice — they do not oppose affirmative action itself.

Myth: Support for affirmative action means support for preferential selection procedures that favor unquelified candidates over qualified candidates. Fact: Although affirmative action is sometimes mistakenly equated with this form of preferential treatment, federal regulations explicitly prohibit affirmative action programs in which unqualified or unneeded employees are hired. In fact, most supporters of affirmative action actually oppose this form of preferential selection and instead support a selection process in which a female or minority candidate is chosen from a pool of equally qualified applicants (e.g., students with identical college entrance scores)

Myth: A large percentage of white workers will lose out if affirmative action is continued. Fact: Government statistics don't support this myth. According to the Commerce Department, there are fewer than two million unemployed black civilians and more than 100 million employed white civilians. Even if every unemployed black worker were to displace a white worker, less than two percent of whites would be affected. Furthermore, affir mative action pertains only to job-qualified applicants, so the actual percentage of affected whites would be a fraction of a percent. The main sources of job loss among white workers have to do with factory relocations and labor contracting outside the U.S., computerization and automation, and corporate downsizing.

Myth: Affirmative action tends to undermine the self-esteem of women and racial minorities. Fact: Although affirmative action may have this effect in some cases, interview studies and public opinion surveys suggest that such reactions are rare. For instance, a recent Gallup Poll asked employed blacks and employed white women whether they had ever felt that others questioned their abilities because of affirmative action. Nearly 90% of respondents said no (which is understandable – after all, white men, who have traditionally benefited from preferential hiring, do not feel hampered by self-doubt or a loss of self-esteem). Indeed, in many cases affirmative action may actually raise the self-esteem of women and minorities by providing them with employment and opportunities for advancement. There is also evidence that affirmative action policies increase job satisfaction and organizational commitment among beneficiaries.

Excerpted from S. Plous. "Ten Myths About Affirmative Action," *Journal of Social Issues*, Winter 1996, Vol.52, Issue 4, pp. 25-31, www.socialpsychology.org/affirm.htm

☐ For every dollar earned by men, women as a whole earn 74 cents, African American women earn 63 cents, and Latina women earn 57 cents. Policy.com. Issue of the Week, 2/22/99: Affirmative Action in Focus. www.policy.com/issuewk/1999/0222_58/ index.html Issues and debate about affirmative action

☐ Women and minorities make up two-thirds of the population and 57% of the workforce, yet they account for only 3% of senior management positions at Fortune 1000 industrial corporations.

Myth: If Jewish people and Asian Americans can rapidly advance economically, African Americans should be able to do the same.

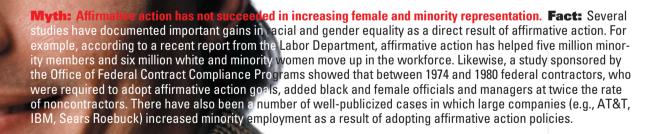
Fact: This comparison ignores the unique history of discrimination against black people in America. As historian Roger Wilkins has pointed out, blacks have a 375-year history on this continent: 245 of those involving slavery, 100 involving legalized discrimination, and only 30 involving anything else. Jews and Asians, on the other hand, have immigrated to North America — often as doctors, lawyers, professors, entrepreneurs, and so forth. Moreover, European Jews are able to function as part of the white majority. To expect blacks to show the same upward mobility as Jews and Asian Americans is to deny the historical and social reality that black people face.

Affirmative Action

Has affirmative action worked?



Myths to each cure discrimination with discrimination. Fact: The problem with this myth is that it uses the same word – discrimination – to describe two very different things. Job discrimination is grounded in prejudice and exclusion, whereas affirmative action is an effort to overcome prejudicial treatment through inclusion. The most effective way to cure society of exclusionary practices is to make special efforts at inclusion, which is exactly what affirmative action does. The logic of affirmative action is no different from the logic of treating a nutritional deficiency with vitamin supplements. For a healthy person, high doses of vitamin supplements may be unnecessary or even harmful, but for a person whose system is out of balance, supplements are an efficient way to restore the body's balance.

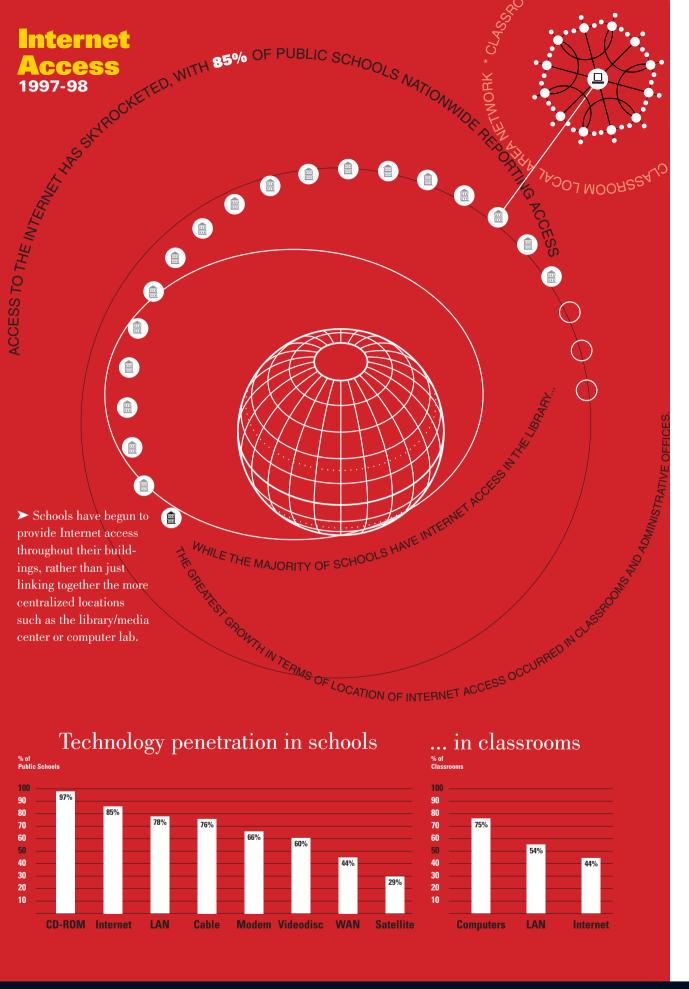


• Affirmative Action Review: Report to the President. Executive Office of the President. U.S.

www.whitehouse.gov/WH/EOP/OP/html/aa/ aa-index.html

On March 7, 1995, President Clinton directed that a review be conducted of the Federal government's affirmative action programs. This is the report based on that review.

☐ A Gallup Poll conducted in 1997 found that 67% of those polled, and 65% of whites, support reserving some college openings for black students when not doing so would mean that blacks would be badly under-represented on campus. 74% agree that affirmative action means "making equal opportunities for everyone including women and minorities."



"How much do you think computers have helped improve **54%** student a great learning?" "I thought computers would be better than television. I had high hopes — and I came back with huge disillusionment. In fact, I was horrified with what I saw in schools and people's homes. We have jumped into [education technology] way too soon."

Technology in the Classroom

Who has access? How is it being used? Is it effective?

2

Computers and Internet connections are fast becoming standard features of the American public school, but many teachers do not make regular use of them for teaching. This problem is created by some school districts that put computers into classrooms without showing teachers how to use them.

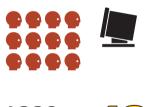
Student to Computer Ratio: Student to Computer Ratio: 1997

— Jane Healy,

Educational psychologist and author of

Failure to Connect: How Computers Affect Our Children's

Minds — for Better and Worse



12:1

6:1



Schools with HIGH MINORITY

5:1



Schools with LOW MINORITY population

0000



Student to Internet Access Ratio: 1997







Ratio recommended by the United States Department of Education **5**:1

Educational Technology Office. Dept. of Education. U.S. www.ed.gov/Technology/

Agency encourages and supports federal programs designed to improve technology services throughout the American education system.

58%

of schools have access to the Internet from at least one classroom. 70%
of schools have access

of schools have access to the Internet from a library/media center.

81%

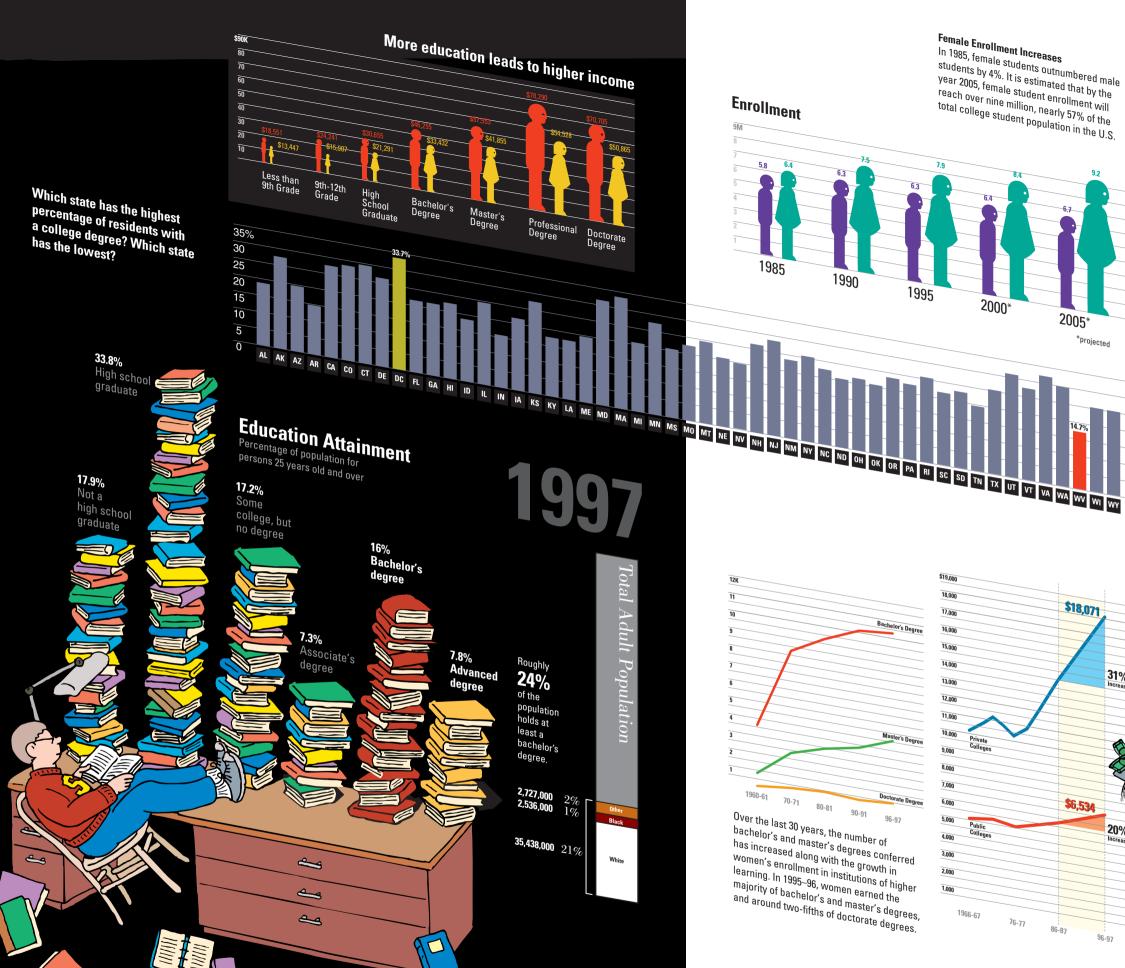
1998

of teachers surveyed were either beginners in using technology or at an intermediate level. 7%

of teachers surveyed were advanced enough in their technology skills that they could integrate technology into their curriculum.

14%

of teachers surveyed use the Internet for "instructional purposes."



National Center for Postsecondary Education. Stanford University.

www.stanford.edu/group/ncpi/index.html

NCPI's mission is to provide leadership for
the transformation and improvement of postsecondary education in its diverse forms--from research universities and comprehensive colleges to community colleges and vocational-technical schools.

☐ Nearly half a million foreign students attend U.S. colleges and universities each year. Although U.S. colleges and universities remain the world leaders in attracting foreign students, the United States is

losing its dominance in international education. In the early 1990s, about 40% of all international students studied in the U.S., whereas in 1996-97 the figure dropped to 32%.

☐ After adjusting for inflation and for constant dollars, statistics show that per-student expenditures increased about 16% throughout the 1980s, but only 7% between 1988 and 1995.

31%

20% Increase

☐ Spending for computer hardware and software by colleges was about \$2.8 billion for the 1997-1998 school year. The average spent per student was \$149 for public colleges and \$283 for private colleges.

For the 1996–97 academic year, annual

undergraduate charges for tuition, room,

and board were estimated to be \$6,534 at

colleges. In a 10-year period, charges at public colleges increased 20% while those

at private colleges increased 31%, after

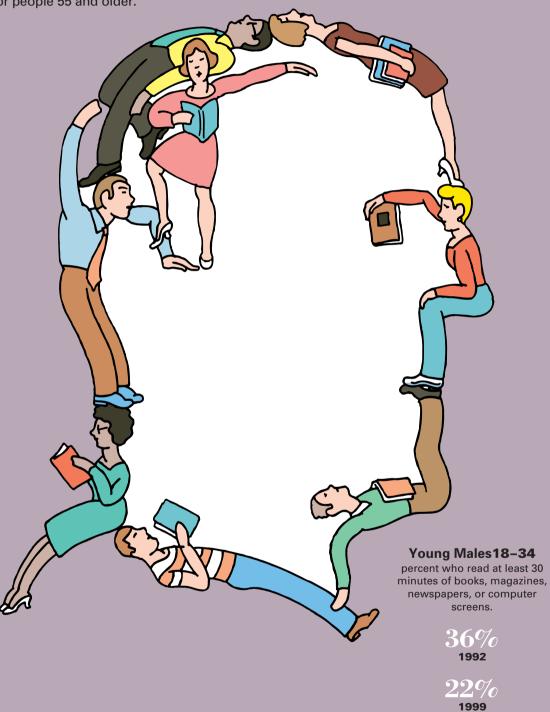
public colleges and \$18,071 at private

The Cost of Higher **Education**

Who's educated? And at what cost?

A research report developed by the NPD Group, a market research firm, measured the daily activities of 3,000 different people each year since 1992. This sampling of 24,000 men and women demonstrated a falloff in younger readers who said they spent at least 30 minutes of the day reading. The percentage is relatively stable for people 55 and older.

The older the age group, the more people are reading. People over 50 are reading an average of an hour a day, nearly double the time of people in their 20s and below. Even though there are fewer people reading, the amount of time people actually spend reading has decreased only slightly, from 46 minutes a day to 44 minutes.

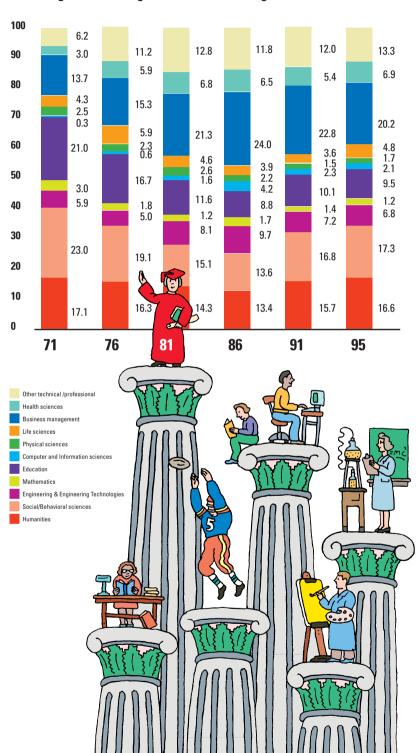


After declining for several years, the number of degrees conferred in the humanities and the social and behavioral sciences has grown since the mid-1980s. Combined with business management degrees, these three types of degrees constitute half or more of all degrees conferred since 1971.

Over the last two decades, health sciences degrees have doubled while education degrees have decreased by more than one-half during the same period.

red

Percentages of the categories of bachelor's degrees conferred



Changing opportunities within the job market affect the fields in which students choose to major. In turn, the majors that students choose affect the demand for courses and faculty, as well as the supply of new graduates in different fields.

Higher

Education

What are people studying?

☐ An increasing number of college graduates now hold jobs traditionally held by workers without college degrees. But this is not an indication that students are making unwise investments

in higher education. On the contrary, the number of people returning to college education has increased over time, even as more graduates take jobs in these other occupations. Comprehensive, searchable sources for information about standardized tests, applications, comparative school lists (from private high schools to graduate schools to study-abroad programs), financing, and special needs students.

www.petersons.com
www.collegeboard.org
www.collegeboard.org

☐ According to a study by the U.S. Department of Education, the number of degrees granted in six technology-related areas (engineering, engineering technology, computer science, business information systems, mathematics, and physics) fell from 218,820 in 1990 to 207,684 in 1996. In examining a slightly different combination of technologyrelated degrees, the study found a drop of between 5 and 8% over the same period. The decrease is a cause for concern since the technology industry's employment growth exceeds the supply of technically skilled workers.

Among the nations with a population of more than one million people, 73% of children murdered lived in the U.S. And of those killed by guns, 86% were U.S. children. 54% of the suicides were our children.

No national data on attempted suicides are available; reliable scientific research, however, has found that:

More women than men report a history of attempted suicide, with a gender ratio of about 2:1.

A person commits suicide about every 17 minutes in the U.S., but it is estimated that an attempt is made about once every minute.

Suicide

What causes suicide? How frequently does it occur? Who's at risk?

In 1996 only 1.3% of total deaths in the U.S. were from sucide.In contrast, 32% were from heart diseases. 23% from cancers, and 7% from stroke.

Suicide is the ninth leading cause of death in the U.S., but it is the third leading cause of death for young people aged 15-24 (after motor vehicle accidents and

unintentional injury).

Over 32,000 people kill themselves every year.

Suicide is a complex behavior. The risk factors for suicide frequently occur in combination. Preventive interventions must be complex and intensive if they are to have lasting effects.

Recognition and appropriate treatment of mental and substance abuse disorders for particular high-risk age, gender, and cultural groups is the most promising way to prevent suicide and suicidal behavior.

Most school-based, information-only suicide prevention programs have not been evaluated for their effectiveness. Research suggests that such programs may actually increase distress in the young people who are most vulnerable.

90% of all suicides were among whites; males account for 75% of all suicides and females 18%.











Suicide among black youths, once uncommon, has increased by two-thirds over the past 15 years.

> Suicide, like homicide, has come to play a proportionately large role in teenage deaths over the past several decades. Between 1970 and 1990, the suicide death rate for youth ages 15 through 19 nearly doubled. Since 1990, the overall death rate has stabilized. The strongest risk factors for attempted suicide are depression, alcohol or drug disorder, and aggressive or disruptive behaviors.

Nearly 60% of all suicides are committed with a firearm.

□ Depression

Over 60% of all people who commit suicide suffer from major depression. If one includes alcoholics who are depressed, this figure rises to over 75%.

☐ Alcohol

Alcoholism is a factor in about 30% of all completed suicides.

☐ Firearms

83% of gun-related deaths in homes are the result of a suicide. Death by firearm is the fastest growing method of suicide.

☐ Medical Illness

The highest suicide rates are found among those over 50. In tion, but they are responsible over half of those deaths, med- for 33% of suicides. ical illness plays an important role in the motivation. People with AIDS are 20 times more likely to commit suicide.

White men over 50 represent 10% of the popula-

The suicide rate for women peaks between the ages of 40 and 54, and again after 75.

Suicide Research Consortium. National Institute of Mental Health. Dept. of Health and Human Services. U.S. www.nimh.nih.gov/research/suicide.htm The Consortium coordinates program development in suicide research across the Institute, identifies gaps in the scientific knowledge base on suicide across the life



Krzysztof Lenk / Paul Kahn

Business

What is happening as we shift towards a service economy?

Top Companies

Has the computer business affected our world status?

Business Growth

Why do big businesses get bigger?

Mergers & Acquisitions

Why have mergers increased in size and number?

Wages & Earnings

Who earns more money?

Employee Compensation

Why are CEO's incomes increasing faster than average?

Immigration

Where are our immigrants from? Where are they living?

Foreign Trade

What are we gaining and loosing?

Global Trade

Why are we the biggest importer, exporter and deficit holder?

Global Economy

Why does the U.S. not have the highest GNP per capita?

The United Nations

How does it run on such a small budget?

What is BUSINESS?

 The activity of buying or selling goods or services. Goods are things that are produced in order to be sold. Services is a business that provides help or does jobs for people rather than produces things.

To provide something for money.

Sell

Company or Store

A person or an organization that makes or sells goods and/or services.

To acquire something for money.

◆ Top 3 franchises by number in 1997 are: 1) McDonald's, 15,394; 2) 7- Eleven Convenience Stores, 13,819; 3) Subway, 12,914; 4) Burger King Corp., 8,422; 5) Jani-King, 6,285. (Source: Entrepreneur, Jan. 1999)



It measures the total factor costs of goods and

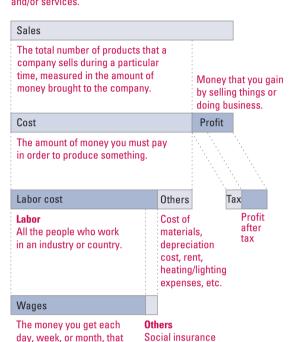
services produced by the economy. Income is

measured before deduction of taxes

Business

What is happening as we shift towards a service economy?

2



costs for

employees, etc

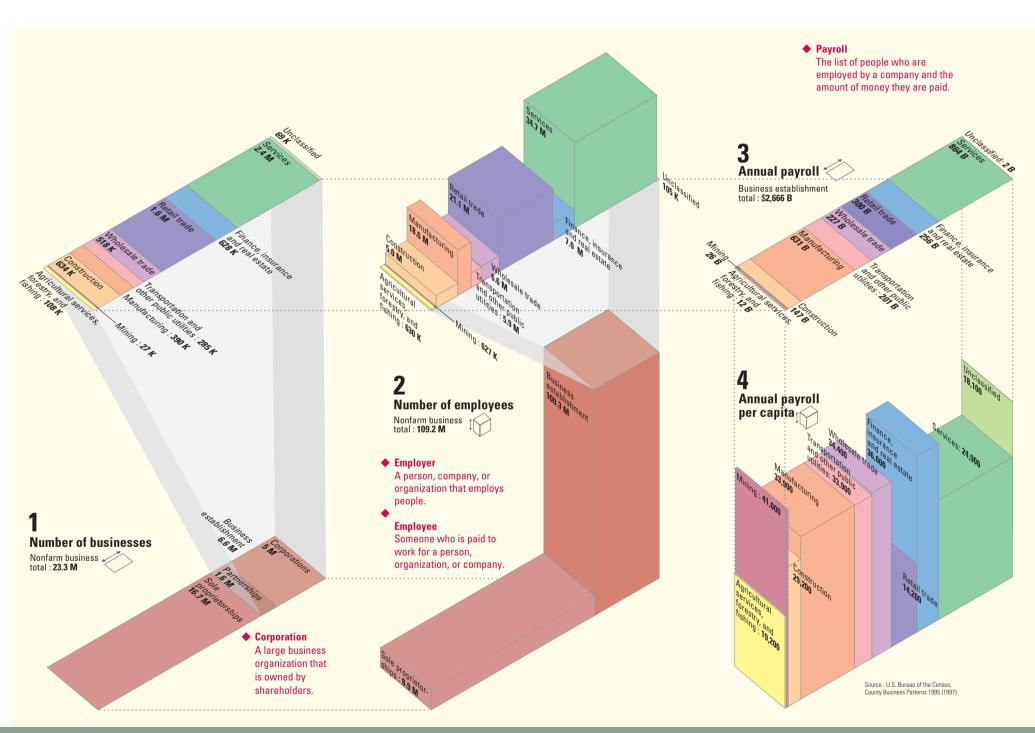
What is the total volume of American business?

is usually paid according

to the number of hours

that you work.

(Excludes most government employees, railroad employees, and self-employed persons.)



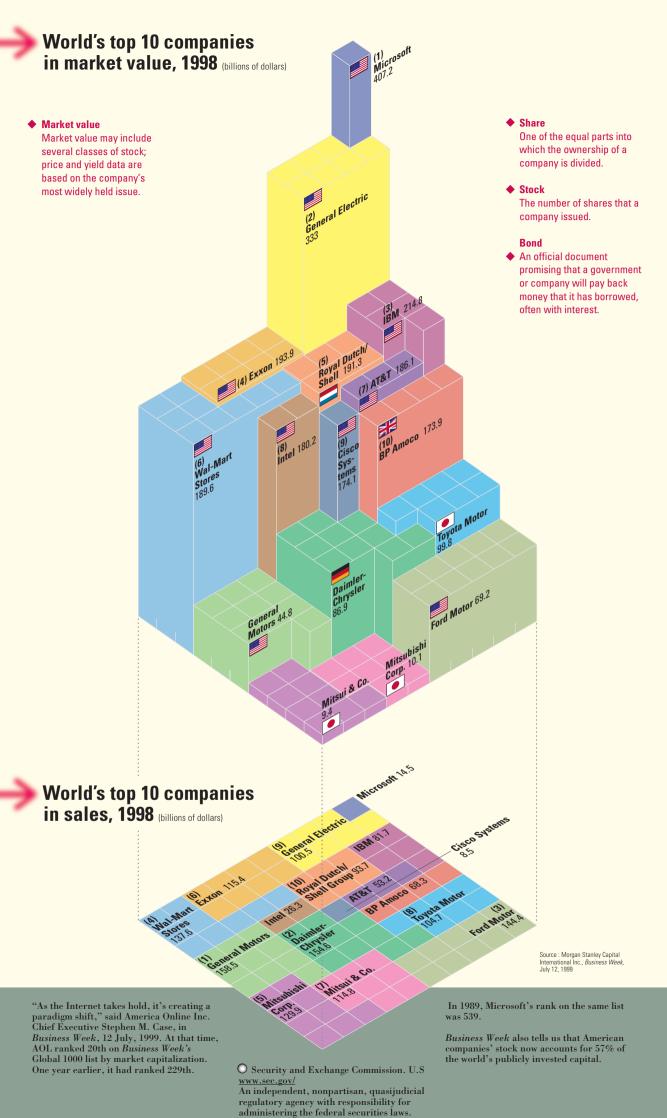
"Corporations have become the dominant institution of our time, occupying the position of the church in the Middle Ages, and the nation-state of the past two centuries," according to Fast Company magazine. Of the 100 largest economies in the world, 51 are corporations. General Motors, for example, is a larger economy than Denmark or Thailand, according to the Institute for Policy Studies

The nine industrial divisions listed in the U.S. Office of Management and Budget's Standard Industry Classification:
1) agriculture, forestry and fishing; 2)mining; 3) construction; 4) manufacturing; 5) transportation and public utilities; 6) finance, insurance and real estate; 7) wholesale trade; 8) retail trade; 9) services.

The service sector, which includes government, health, computer and data processing, and child day care services. among others, is responsible for 3/4 of U.S. employment, and is expected to account for 4 of every 5 jobs by 2005.

Small businesses account for 99% of the 23.3 million nonfarm businesses in the United States today, according to the Small Business Administration.

Trade credit: the most often utilized form of short-term business financing, whereby a supplier provides a company with needed materials in exchange for a scheduled later payment, with added interest. Franchised business represents nearly 40% of all U.S. retail sales. The Department of Commerce estimates that by 2000, franchising will account for more than half of all sales.



World's top 10 companies by profits, share-price gain, return on equity, 1998

Profits (billions of dollars)

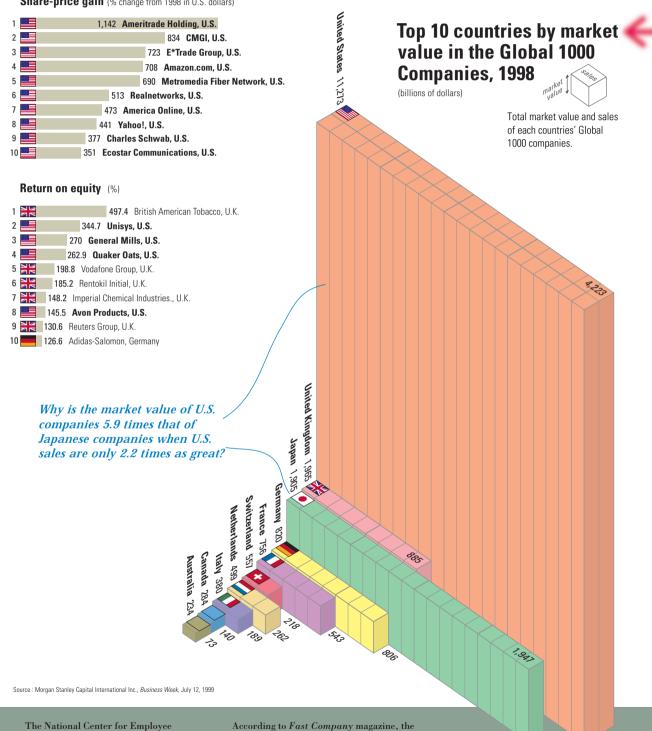


Top Companies

Has the computer business affected our world status?



Share-price gain (% change from 1998 in U.S. dollars)

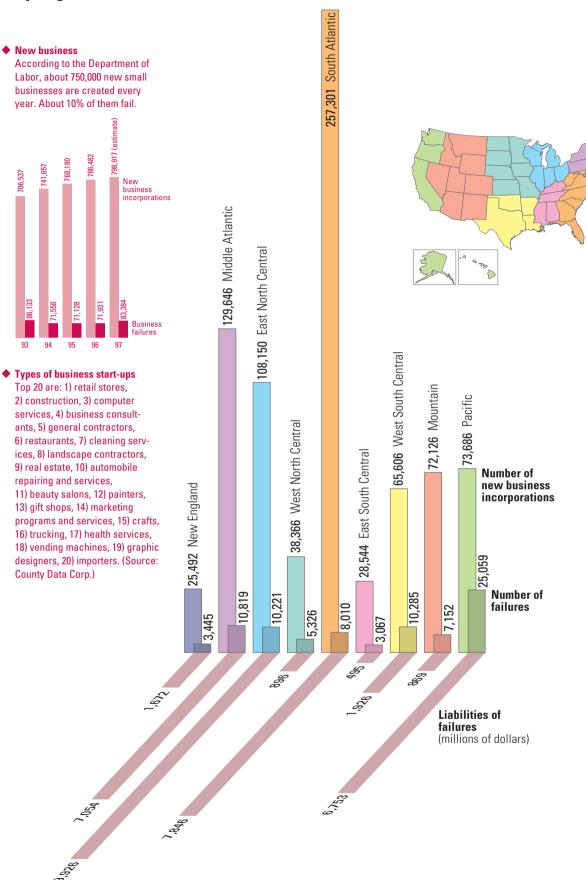


The National Center for Employee Ownership reports that 15 million U.S. workers now own about \$500 billion in stock through employee stock ownership plans, 401(k)s, and broad-based stock options.

According to Fast Company magazine, the 5 largest American companies with more than 30% employee ownership are United Parcel Service, with 315,000 employees, Kroger Co. (200,000), Publix Supermarkets (95,000), Rockwell International (82,670), and United Airlines (77,900).

The Center for Responsive Politics, a nonprofit research group that collects data regarding money in politics, found that Microsoft's total political campaign contributions increased by 460% between 1991 and 1998.

Number of new business incorporations, number and liabilities of business failures by regions, 1997 Source: Dun & Bradstreet



The 5 most stressful American jobs are U.S. President, firefighter, senior corporate executive, Indy-class race car driver, and taxi driver; the 5 least stressful are medical records technician, janitor, forklift operator, musical instrument repairer, and florist, according to the National Business Employment Weekly Jobs Rated Almanac

In 1994, The National Center on Education and the Economy tells us, 1 in 3 newly created jobs required a college degree

A Census Bureau survey revealed that women owned more than 6.4 million businesses in 1992, generating \$1.6 trillion O AntiTrust. Dept. of Justice. U.S. www.usdoj.gov/atr/index.html
The Department promotes and protects the competitive process—and the American economy—through the enforcement of the antitrust laws.

U.S. cities in 1992 with the highest numbers of women-owned firms, in ranking order: Los Angeles, New York, Chicago, Washington DC, Philadelphia.

> Those with the most black-owned firms: New York, Washington DC, Los Angeles, Chicago, Atlanta.

What is a MERGER? An ACQUISITION?

New company C

Company B

Announced worldwide

and U.S. mergers and

acquisitions Source : Securities Data Co.

World total value (billions of dollars)

U.S. total value (billions of dollars)

World total number

U.S. total number of deals

11343

15,985

15,596 16,710

19,135

23,266

23,638

Acquisition

Company A

Company B

◆ Merger

Company A

Company B

Those with the most Hispanic-owned firms: Los Angeles, Miami, New York, Houston, Riverside-San Bernardino, CA.

that bottes, bein wound to the stations 178

Business Growth

Why do big businesses get bigger?



Divestiture

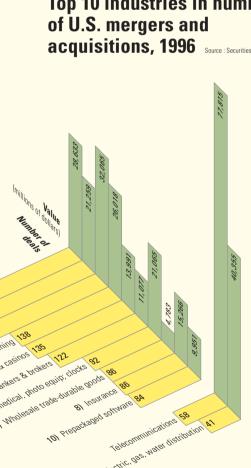
Company A

Sale of a business, division, or subsidiary by corporate owner to another party.

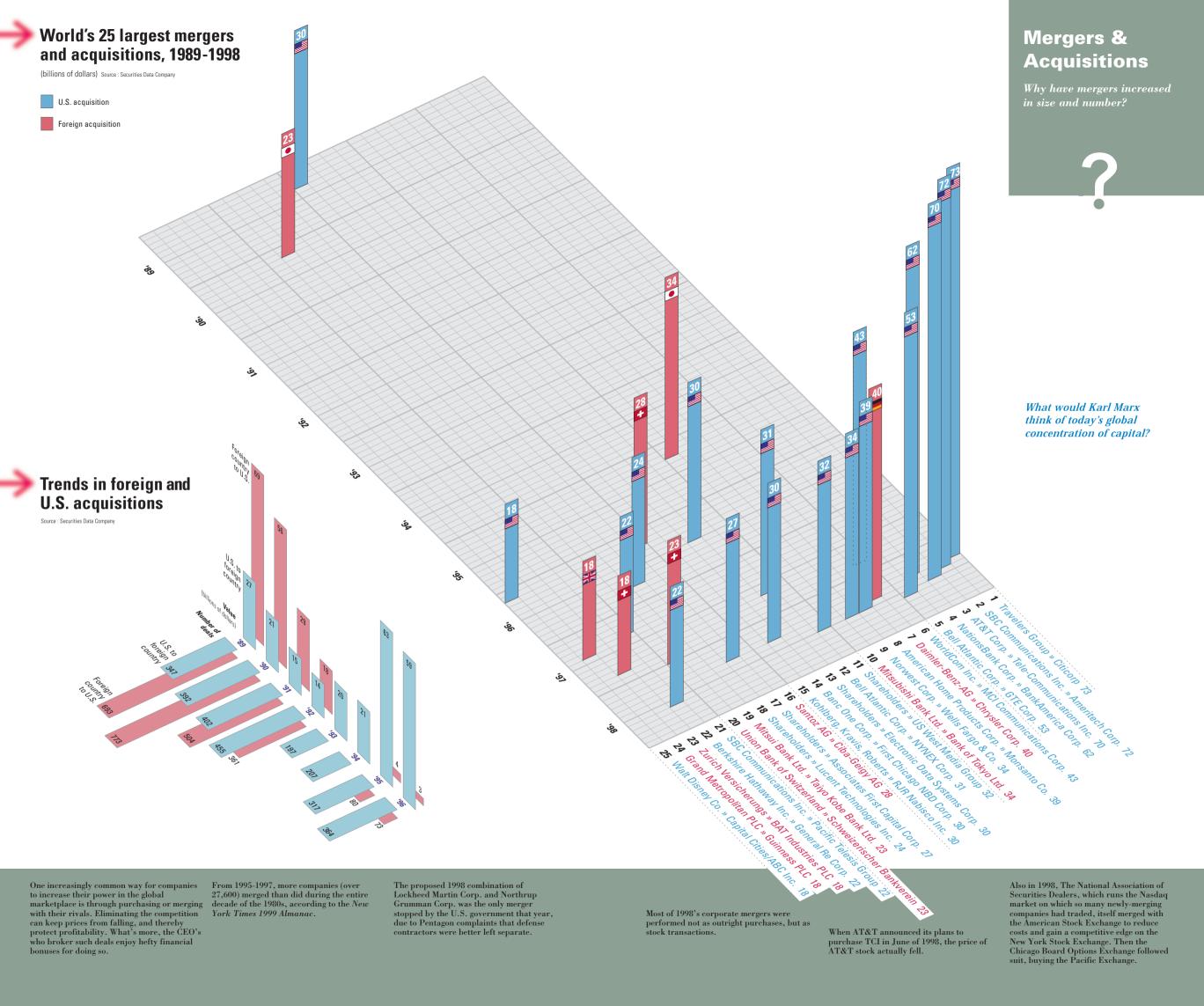
♦ Leveraged buyout

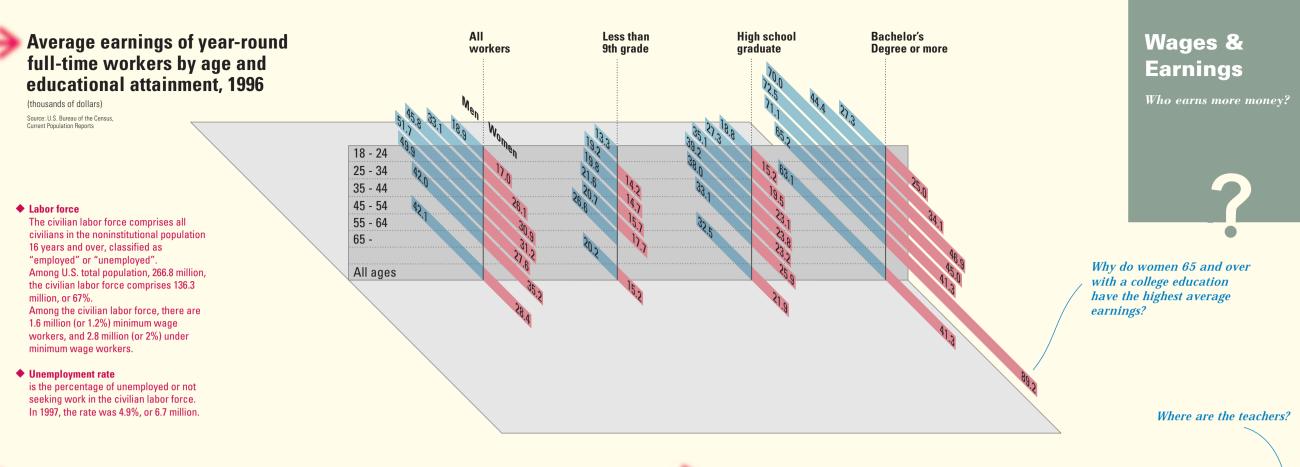
Acquisition of a business in which buyers use mostly borrowed money to finance purchase and incorporate debt into capital structure of business after change in ownership. (Source: Securities Data Co.)

Top 10 industries in number acquisitions, 1996 Source : Securities Data Co.

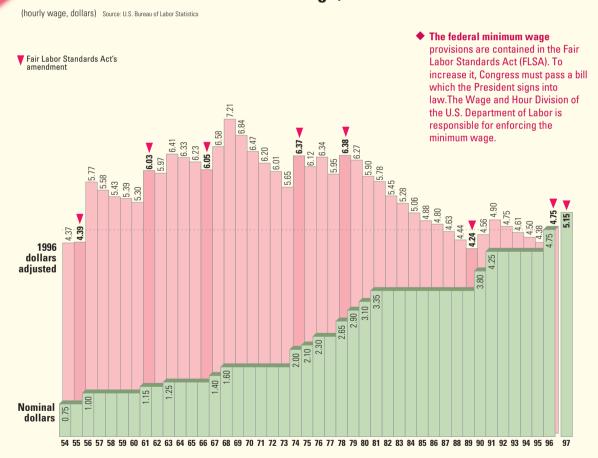


1997's top 5 women-controlled businesses, as reported by *Working Woman* magazine: 1) JM Family Enterprises, Deerfield Beach; 2) Fidelity Investments, Boston; 3) Ingram Industries, Nashville; 4) Carlson Cos., Minneapolis; 5) Little Caesar Enterprises,

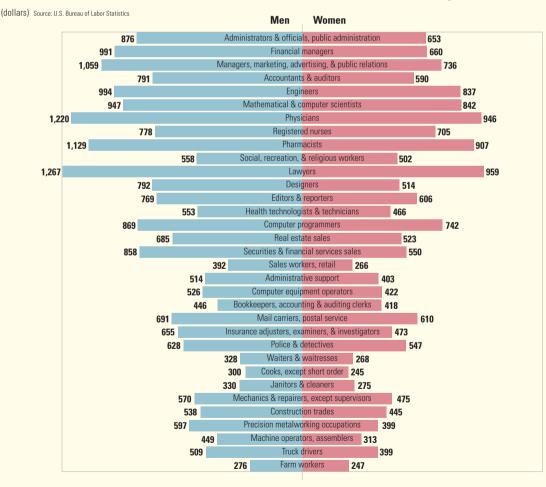




Amount of the Federal Minimum Wage, 1954-1996



Median weekly earnings of full-time workers by occupation, 1997



The U.S. Bureau of Labor Statistics expects the American labor force to grow to 149 million in 2006. By that time, the median age of the labor force will approach 41, a level not seen in the United States since the 1960s.

The Urban Institute's 1998 "Does Work Pay? An Analysis of the Work Incentives Under TANF" study concluded that when a single parent, two-child family moves from no work and welfare to a part-time minimum wage job, family income "grows dramatically"—by an average of 51% for 20 hours of work per week at \$5.15 per hour.

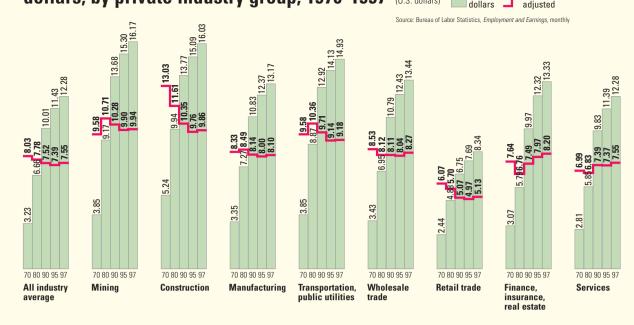
In 1997, a full-time worker (40 hours per week) earning the minimum wage would have monthly wages of \$824.

In 1997, 79% of Americans spoken to by Washington's Peter Hart and Associates said they had "pretty much or most everything" they needed

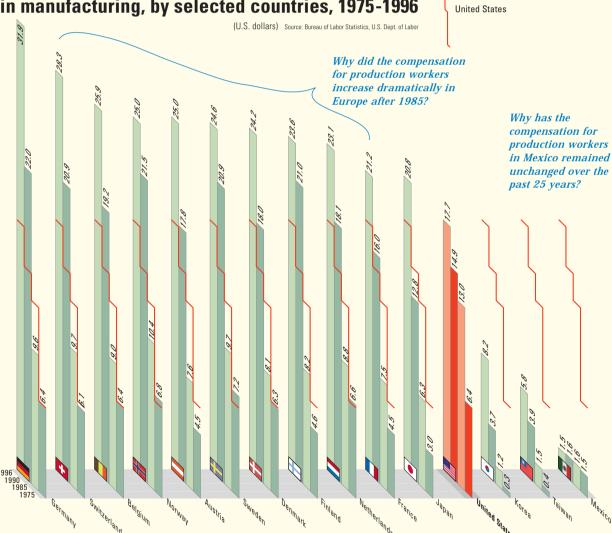
The number of children living in poverty (who have at least one working parent) has increased by 35% since 1989, according to Baltimore's Annie E. Casey Foundation.

From 1979 to 1995, says the U.S. Census Bureau, the median earnings of an American woman with a full-time job increased by \$1,925, in constant dollars. In the same span, the median earnings of an American man with a full time job increased by \$2,816.

U.S. average hourly earnings in current and constant (1982) dollars, by private industry group, 1970-1997 (U.S. dollars) Current adjusted adjusted



Hourly compensation costs for production workers in manufacturing, by selected countries, 1975-1996



◆ 1999 highest paid CEO

Charles B. Wang, CEO of Computer Associates International, got the largest public-company bonanza ever. He raked in stock worth \$670 million when the shares met price targets set in 1995. Computer Associates took a \$675 million after-tax charge for \$1.1 billion in payouts to Wang and other top execs.

♦ 1998 highest paid CEO

is Michael Eisner, CEO of Walt Disney, with \$575.6 million. In comparison, an average worker's pay is \$22,976. (Business Week)

10 highest-paid CEO's direct compensation 1997, and an average CEO's income

(dollars

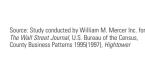
Employee Compensation

Why are CEO's incomes increasing faster than average?



An average CEO's income and an average payroll per capita by major industry groups, 1997 (dollars)

◆ J. P. Morgan thought a CEO's wages should be no more than 20 times that of the average employee in that company.



From 1997 to 1998, real wages in the service-producing industries increased 3.9%. Wages in transportation and utilities increased 4%, and wages in finance, 5.4%. Wages in manufacturing, however, only increased by 1.9%.

Real wages in 1998 were 13% below what

they were in 1974, according to the July/

August 1998 Compensations & Benefits

Review. The average nonsupervisory employee still makes almost \$41 per week less in real terms than he or she did in 1974. Productivity in 1997 increased 1.7% in the nonfarm business sector. In manufacturing, productivity increased 4.4% (its largest hike in more than 10 years), especially in the making of durable goods, which saw a dramatic increase of 5.7%.

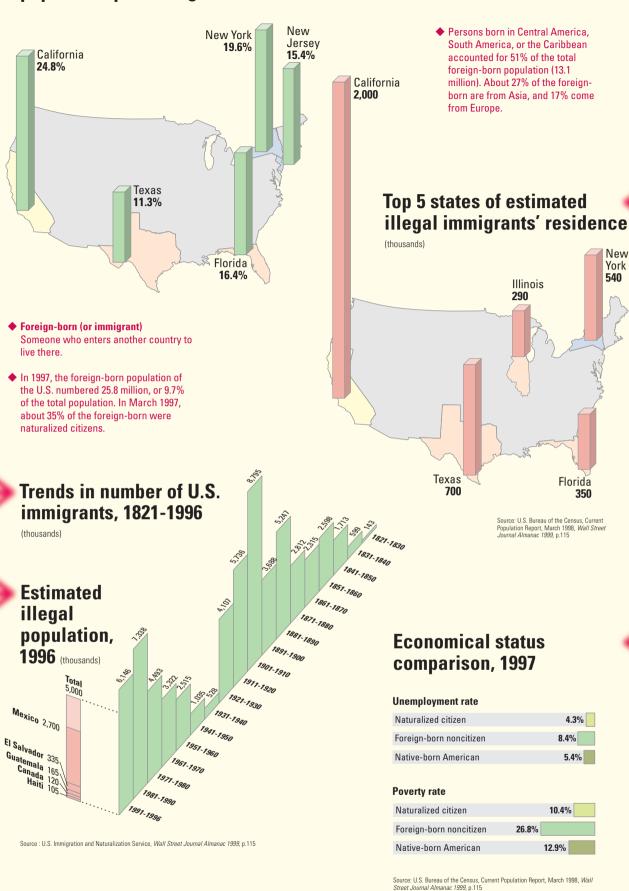
In 1998, computer science graduates received starting salary offers averaging \$40,843—a 9% increase from figures posted in 1997, according to the National Association of Colleges and Employers' April 1998 Salary Survey Report.

A recent study conducted for the Information Technology Association of America by Virginia Polytechnic Institute estimates that 346,000 computer programmer and systems analyst jobs are vacant in U.S. companies with more than 100 employees.

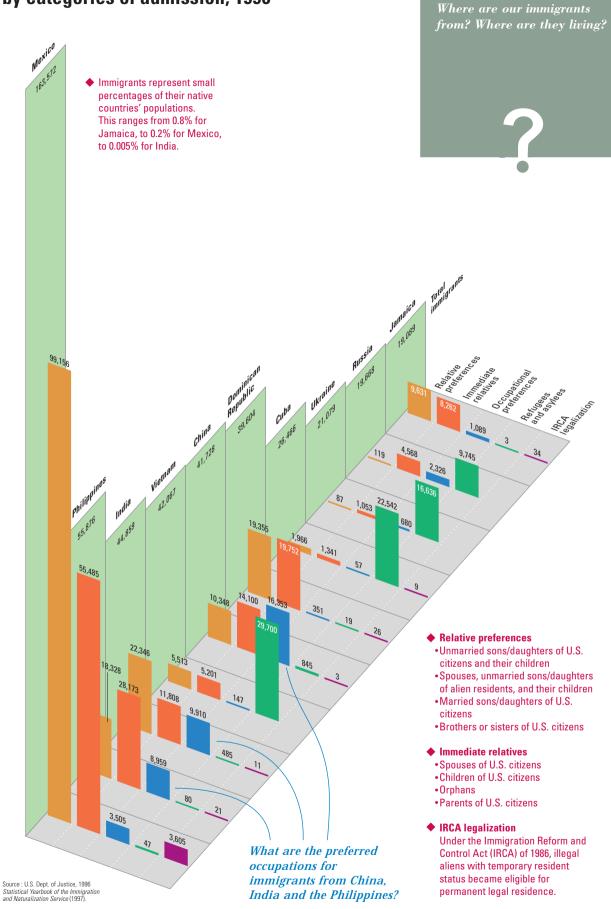
The July/August, 1998 Compensation and Benefits Review projected 1998 salary increases: For executives: 4.2% For middle managers: 4.1%

For executives: 4.2% For middle managers: 4.1% For technical and administrative workers: 4.0%

States with highest foreign-born population percentage



Top 10 countries for U.S. immigrants by categories of admission, 1996



As the natural increase of the U.S. population slows, immigration has become an increasingly important factor in population and labor-force dynamics.

Although white non-Hispanics are expected to account for by far the largest share of the labor-force in 2006 (73%), their rate of population growth is actually slower than that of black, Asian, and Hispanic groups.

O Immigration and Naturalization Service. Dept. of Justice. U.S. www.ins.usdoj.gov/graphics/index.html The Federal agency that administers the nation's immigration laws. You will see that INS mission involves a variety of inter-related The U.S. Census Bureau ranked Africa highest among continents of origin of the most highly educated immigrants to the U.S. in 1995.

"About 8 million foreigners emigrate to the U.S. legally every year. In addition, the Immigration and Naturalization Service (INS) estimates another 300,000 a year enter illegally or overstay their visas, adding to the 4 million illegal immigrants that already live in the country," according to the Annual Report of the United States.

March, 1998 Census Bureau reports indicate that about 25% of both foreignborn and native-born Americans aged 25 and over had completed four or more years of college. At the same age level, 34.7% of the foreign-born population, and 15.6% of the native-born population had not finished high school.

Immigration

What is FOREIGN TRADE? **Foreign Trade** ◆ The activity of buying, selling, or exchanging What are we gaining and goods, between countries. loosing? The state of having sold more goods to another country The U.S. Foreign country A than you have bought from it. A business that Countries with which the U.S. provides help or (Surplus) Exports-The business of selling has the highest trade surplus does work for and sending products to people rather Imports February 1999 (millions of dollars) Source : U.S. Census Bureau another country, or the than producing products that are sold. things. Services Goods ◆ Things that are produced in Exports order to be sold (Deficit) The business of -Imports ◆ The difference between the bringing amount of money that a products into country has and the greater Moning of the Man of t one country amount that it needs from another in order to be sold, or the products that are sold. Surplus Deficit Balance The balance of trade is an important issue **♦ Exchange Rates** because it indicates how a nation's Because countries have economy changes and, ultimately, about its their own currencies, trade Netherlands competitiveness vis-à-vis other countries. also involves exchanging or Mexico A rising balance of trade deficit indicates trading currencies. The an economy is unable to sell its goods exchange rate between abroad, and that consumers favor imports currencies represents the over domestically produced goods. ratio at which they can be exchanged or the price of one currency in terms of the other. The exchange rate for What are almost all world currencies miscellaneous is now determined by the manufactured U.S.trade deficit, market. The exchange rate Top 5 countries with regional view articles? of a currency rises or **U.S.** international which the U.S. trades Jan.1998 / Jan.1999 appreciates when the trade, Jan. 1999 Feb. 1999 (year to date at an annual demand for it rises and/or (billions of dollars) (billions of dollars) rate, billions of dollars) the supply falls. This may happen because foreign total total buyers want to buy more of exports imports a nation's goods or Asia Europe 93.8 because consumers within the country decide to buy Canada 28 fewer imports. It may also -20 happen because the What food do we country reduces its money Japan 15 export to Japan? supply. Countries' central banks can manipulate Mexico 14 exchange rates slightly by buying and selling their China 7 own and other currencies. Germany 6 **Countries with which** total imbalance (Source: New York Times the U.S. has the highest Almanac 1999, p.500) 17.0 trade deficit Do we export airplanes February 1999 (millions of dollars) and import cars?

O Foreign Trade. Census Bureau. Dept. of Commerce. U.S. www.census.gov/foreign-trade/www/pub/ ftd/msftd.html

Census Bureau's latest information on imports, exports, shipping, and customs data. The fastest growing U.S. export sectors are chemicals, pharmaceuticals, food, and electronic equipment.

-160

-175

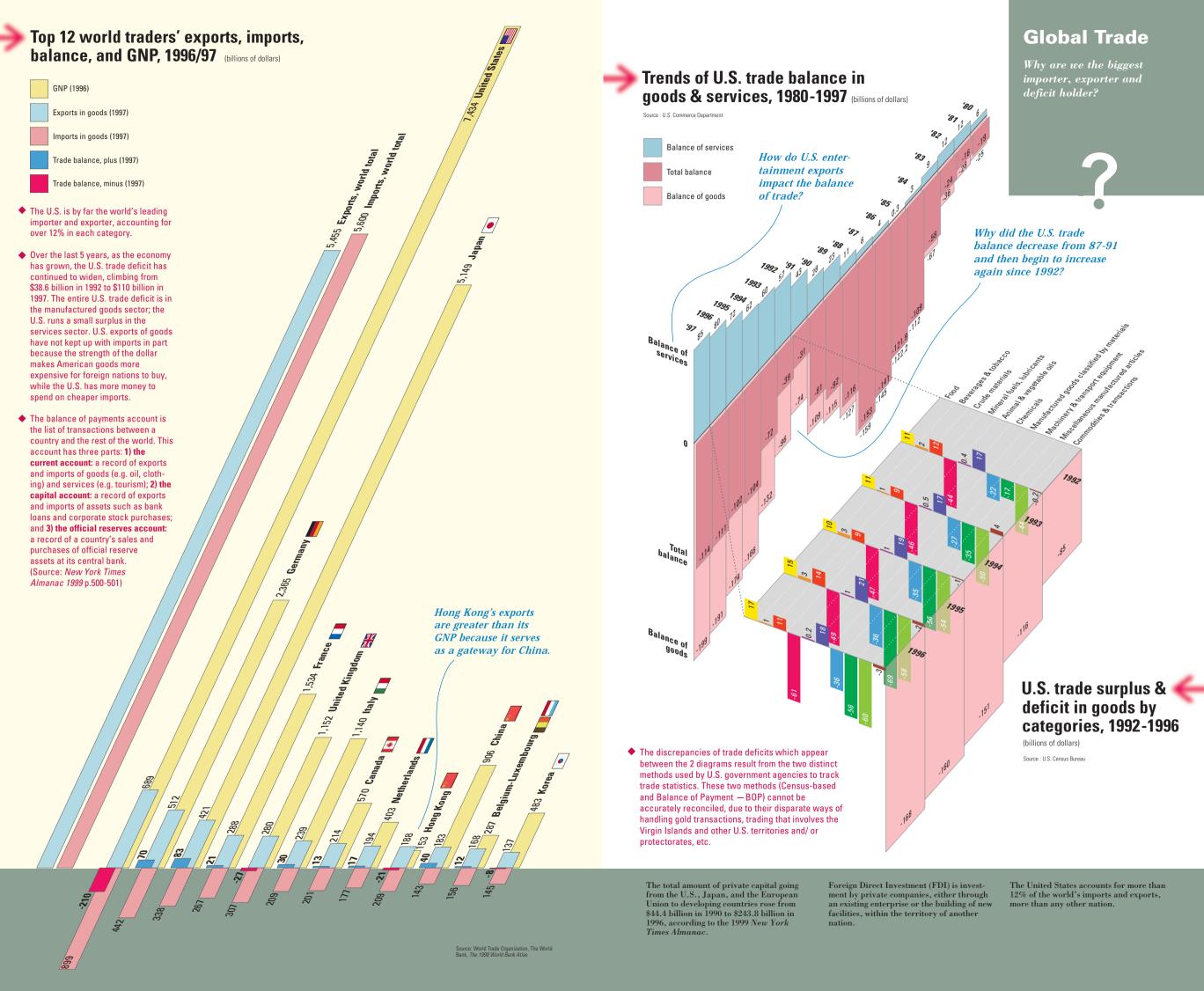
Machinery and transport equipment together comprise the largest category within 10 U.S. goods classifications for both imports and exports. Among all the top 10 countries with which the U.S. has a trade surplus, and 7 of the top 10 countries with which it has a trade deficit, machinery and transport equipment are the most often traded goods.

Source : U.S. trade in perspective, Department of Commerce, International Trade Administration, Trade development: U.S. Census Bureau

1/3 of global trade consists of transactions between 2 divisions of the same corporation, according to a United Nations Conference on Trade and Development.

In 1996, the United States traded \$4 trillion worth of goods with countries cited by the State Department for torture, among them Mexico, South Korea, and China.

1997 U.S. holdings, according to the U.S. Department of Commerce, of foreign stocks (in billions of dollars): United Kingdom, 278; Japan, 120; Canada 79; Netherlands, 77; France 57



What is GNP?

◆ GNP (Gross National Product) is the total market value of final goods and services (i.e., income) of residents of a country, including income they receive from abroad, but not including payments to foreigners.

Countries with highest GNP, 1996

(billions of dollars) GNP \$228 billion

Luxembourg and Singapore (Less than GNP \$100 billion)

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both groups, a total of 17 countries are presented.

Source: The World Bank, The 1998 World Bank Atlas

Washington's Japan Economic Institute reports that Japan estimates the bad debt held by its banks represents 17.5% of that nation's GDP. In 1988, the bad debt held by American S&Ls totaled 3.2% of the U.S.

per capita GNP, 1996 GNP per capita

Countries with highest

The 1996 GNP (in billions of dollars) of 3 of the world's major economies: United States, 7,434; European Union, 8,469, and Japan, 5,149, according to the World Bank.

The 15 member states of the European Union: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

◆ What is final goods and services?

> Intermediate goods such as plastic, glass, cotton, etc., are not counted since they are not in their final state. Including only final goods and services prevents double counting and thus avoids an overstatement of GDP (GNP). Final goods include household purchases, since they will not be used to produce other goods and services

◆ Since 3 countries — the United States, Japan, and Germany are ranked among the top 10 in is the market value for all final goods and services produced within a nation in a given time period.

◆ GDP (Gross Domestic Product)

◆ Economic classification by the World Bank (based on average annual per capita income)

High-income: \$9,636~

Middle-income: \$786~\$9,635

Low-income: ~\$785

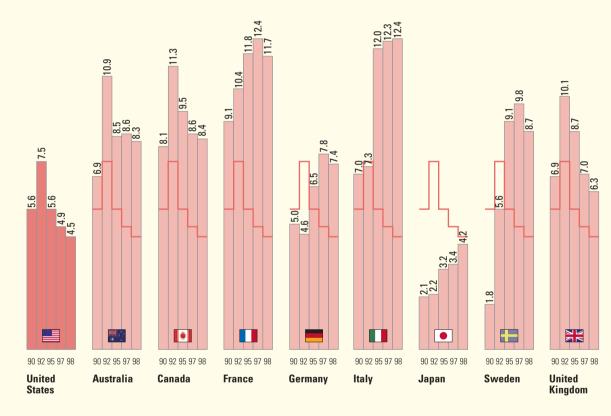
Developing country

Global **Economy**

Why does the U.S. not have the highest GNP per capita?

Unemployment rate trends, 1990-1998 (%)

Source : U.S. Bureau of Labor Statistics



◆ America's unemployment rate (which count only those people who are both "unemployed" and "currently looking for work") is at a historically low level. Yet each percentage point of unemployment represents more than 1.3 million Americans without paying jobs. What's more, these official unemployment statistics do not include: the "discouraged" job-seeker who has unsuccessfully sought work for so long that he is not currently looking; the worker who received compensation for doing freelance work or odd jobs, etc.; the workers who were "laid off"; or the workers who are too proud to admit being without work, and others. (Source: Hightower)

The Joint Committee on Taxation in Washington recently estimated that multinational corporations legally avoided \$10.1 billion in U.S. taxes by using foreign accounts in 1988.

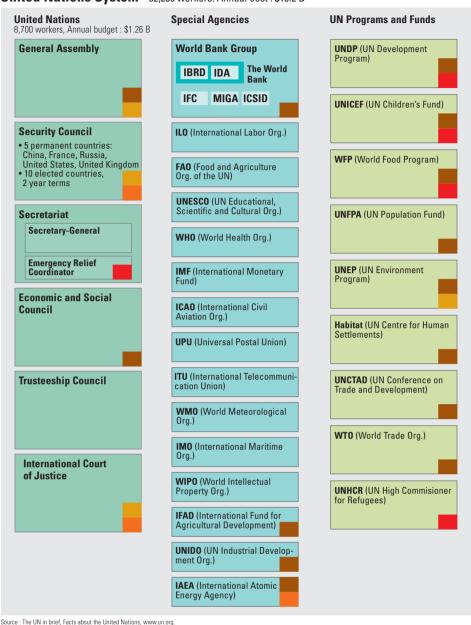
The 1997 Annual Report of the United States specifies, "Currently the future liabilities of the federal government total \$20.7 trillion. This translates to almost \$80,000 owed for every man, woman, and child in the U.S.A." O Restoring Global Financial Stability. United States Information Agency. www.usia.gov/regional/ea/asiafin/ globefin.htm USIA site designed to highlight American

efforts to sustain a rational international financial system.

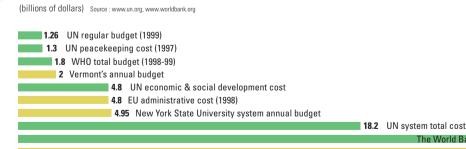
What is the United Nations?

 Established in 1945. Members: 185 countries: Four purposes
 to maintain international peace and security • to develop friendly relations among nations • to cooperate in solving international problems and in promoting respect for human rights • to be a center for harmonizing the actions of nations.

United Nations System 52,280 workers. Annual cost: \$18.2 B



Budget comparison, the UN and other organizations



The UN system is a major purchaser of goods and services, totalling nearly \$3 billion a year.UNICEF buys half of the vaccines produced in the world, while the UN Population Fund is the world's largest purchaser of contraceptives.

U.S. companies are consistently the largest sellers of goods and services to the UN. In 1997, U.S. companies secured 59% of procurement done by the UN Headquarters in New York (\$192 million out of \$327.5 million).

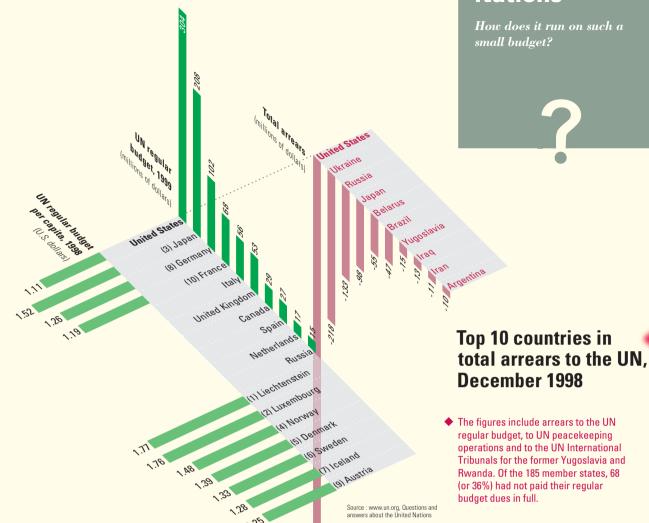
The World Health Organization has concluded an agreement with the British pharmaceutical company SmithKline Beecham for a \$1.5 billion, 20-year cam paign to eradicate elephantiasis globally.

New York City's annual budget 31.3

The World Bank's total lending 28.6

Information technology companies are providing technical assistance to an automated customs system developed by the UN Conference on Trade and Development

Top 10 contributors to the UN regular budget, 1998/1999



1.25

The United Nations

How does it run on such a small budget?

◆ The figures include arrears to the UN regular budget, to UN peacekeeping operations and to the UN International Tribunals for the former Yugoslavia and Rwanda. Of the 185 member states, 68 (or 36%) had not paid their regular budget dues in full.

♦ The World Health Organization coordinates, programs aimed at the attainment by all people of the highest possible level of health. It works to solve health problems in areas such as

provision of essential drugs.

immunization, health education and the

◆ The World Bank is a lending institution whose aim is to help integrate countries into the wider world economy and promote long-term economic growth that reduces poverty in developing countries

◆ The International Monetary Fund acts as a monitor of the world's currencies by helping to maintain an orderly system of and lends money to members who face serious balance of

> UN appeals raise over \$1 cy assistance to people affected by war and natu-

The U.S. is both the highest-assessed UN member (\$304 million) and the UN member with the greatest debt (\$1.6 billion).

billion a year for emergenral disaster.

Development ♦ General Assembly All UN member states are represented in the General Assembly, a kind of parliament of nations which meets to consider the world's most pressing problems. **♦ Security Council**

The UN Charter gives the Security Council primary responsibility for maintaining international peace and security. The Council may convene at any time, day or night, whenever peace is threatened

Justice, human rights and international law

Humanitarian assistance

Economic and Social Council

The Council plays a key role in fostering international cooperation for development. It also consults with non-governmental organizations (NGOs), thereby maintaining a vital link between the United Nations and civil society.

International Court of Justice

Consisting of 15 judges elected by the General Assembly and the Security Council, the Court decides disputes between countries.

In 1997, Time-Warner co-chairman Ted

Turner announced a \$1 billion donation to

UN development and assistance programs.

The world's Rotary Clubs have given more than \$400 million to WHO's efforts to

eradicate polio, and the world's Lions

Clubs support many UNICEF programs.

payments between all countries. payments deficits.



Joel Katz

Cost of Living

How much do things really cost and how have costs changed? Where is it most expensive to live?

Spending & Saving

How much more or less are we spending, and on what? What percentage of our income do we spend, and on what? How much are we saving and paying in taxes?

Income & Debt

What is our income, by race? What kind of debt do we incur, by age? How is Americans' debt distributed? Who lends us money?

Investing

How many mutual funds are there and how do we invest in them? Who buys stock? Where do we keep our IRA accounts?

Aging & Retirement

How long is our retirement becoming? How much are the elderly increasing? How is the racial makeup of the elderly changing?

Social Security

How solvent is the Social Security program? How much does it cost? What is the ratio of workers to beneficiaries? Who gets benefits and how much? How have entitlement programs increased compared to other programs? How important is Social Security to the elderly?

Poverty by Age

How old are the poor? How does the age of the poor compare with the age of the country? What percentage of each age is poor? How does education affect income?

Poverty by Characteristic

What are our chances of being poor? Where do the poor live? Of what race and family composition are the poor?

Housing

Who owns and who rents? How much does housing cost? What housing types do we occupy and how many rooms do we live in?

Homelessness

Who are the homeless? How many of them are there and how are they counted? How old, what gender, family composition, and race are they? The purchasing power of a 1950 dollar shrank to just under 15¢ by 1997.



The cost of a three-pound chicken has risen from \$1.23 in 1919 to \$3.15 in 1997 in current dollars. In constant dollars it has declined to 39¢ (a decrease of 68%). In work time it has declined from 2 hours 37 minutes to just 14 minutes (a decrease of 91%).³

Hours of Work

6,000 hour

Cost of Living

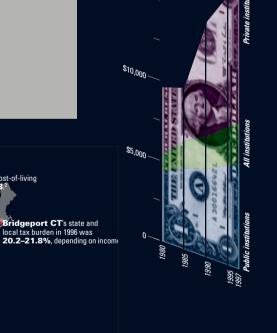
How much do things really cost and how have costs changed? Where is it most expensive to live?



The higher cost of

Since 1980, the costs for higher education have increased faster than for all other goods and services. In current dollars, higher education costs have increased 328%, or 68% more than the cost of living. The greatest increase has been in the costs of private institutions, which have increased 367% in current dollars, or 88% more than the cost of living. These costs are recovered by the increased earnings of college graduates over those without a college degree.

- For annual salaries by educational attainment, see Poverty by Age.
- To see how much more we are spending on higher education and other goods and services, and to see the percentage of our income that we spend on education, see the following spread.



Time Well Spent

Percentage change in goods and services between 1990 and 1998 relative to In Time Well Spent: The Declining Real the consumer price index of 29.4%. For Cost of Living in America, published in the 1997 annual report of the Federal example, college tuition and fees have Reserve Bank of Dallas and updated increased 83.6% in current dollars but only (!) 54.2% in real, constant dollars. since, authors W. Michael Cox and

+54.2%: college tuition and

+42%: butter

+40%: cable television

By the numbers

+34.2%: cigarettes and

+25.4%: airfare

+20.7%: physicians' services

+18.6%: legal services

+14.4%: bread

+6.9%: public transportation

+2.9%: motor vehicle maintenance and repair

-0.2% rent

-4 %: over-the-counter drugs

-4.8%: poultry

-5.4%: milk

_10.9%: furniture and

-12.8%: new cars

-21.1%: electricity

-28.1%: carbonated drinks

-41.6%: women's dresses

_52.2%: televisions

-89.8%: personal computers and information processing equipment

cost of the goods and services that make up our lives in terms of hours (or minutes) of work. These graphs are based on those data, which reveal that—with the notable exception of higher education— Richard Alm exhaustively document the the real cost of the products and services we buy is now significantly less than when they were introduced. Cost decreases are, expectedly, greatest in products affected by the rapid pace of technological innovation. (New home costs, which have increased since 1970, can be explained by the wonderful features with they are equipped.)

12 items of food• 3-lb chicken Milk (1/2 gallon)

The inflation bite

Since 1950, inflation has taken 85¢ from the value of every dollar.



- The 12-item food basket cited by Cox and Alm includes 3 lbs. of tomatoes, 5 lbs. of sugar, 1 dozen eggs, 1 dozen oranges, 1/2 gallon of milk, and 1 lb. each of bacon, coffee, ground beef, lettuce, beans, bread, and onions.
- 1 Based on a family of four with \$60,000 annual income, residing in a 2,200 sq. ft., 8-room, 4-bedroom, 2.5-bath home, and owning two vehicles. Source: Runzheimer International

2 Based on a U.S. expatriate family of two with a base salary of \$75,000, factoring a combination of housing, transportation, and goods and services.

Anchorage AK's state and local tax burden was 2.9–3.3%,

4 years public college tuition

Cost of air travel from NYC to San Francisco

Color TV

Mattress and box spring

3 W. Michael Cox and Richard Alm. Time Well Spent: The Declining Real Cost of Living in America. 1997 annual report of the Federal Reserve Bank of Dallas. Cox and Alm's calculations use the average hourly wage for production and nonsupervisory workers in manufacturing. In 1897, this wage was less than 15¢ an hour, by 1997 it had climbed to \$13.18.

The national view

W. Michael Cox and Richard Alm. Time Well Spent: The Declining Real Cost of Living in America. 1997 annual report of the Federal Reserve Bank of Dallas.

Montreal's cost-of-living

Bridgeport CT's state and

Ford automobile

Refrigerator

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, Statistical Abstract of the United States, 118th Edition, 1998. Washington DC.

Wall Street Journal The Wall Street Journal Almanac 1999

LLS Department of Commerce, Economics and Statistics Administration, Bureau of the Census; U.S. Department of

Housing and Urban Development, Office of Policy Developmen and Research. American Housing Survey for the United States in 1995. Current Housing Reports H150/95RV. Washington DC. American Chamber of Commerce Researchers Association. Cost

of Living Index: Comparative Data for 329 Urban Areas, 1998. American Institute for Economic Research. Economic Education Bulletin, Volume XXXVIII, No. 12, 1998

In 1944, IBM's Mark I mainframe compu ter cost \$200,000 (1944 dollars; almost \$2,000,000 1997 dollars). It performed 3 calculations a second, which equaled, in work time, 732,681 lifetimes of work per MIPS (millions of instructions per second).3

In 1997, a personal computer cost \$1,000, performed 166 MIPS, and cost 27 minutes of work per MIPS to operate.

O Consumer Price Indexes. Home Page. Labor Statistics Bureau. Dept. of Labor.

stats.bls.gov/cpihome.htm

The CPI represents changes in prices of all goods and services purchased for consumption by urban households. User fees (such as water and sewer service) and sales and excise taxes paid by the consumer are also

The growth rate of health costs has been significantly higher than the growth rate of wages for the last 30 years.

The elderly spend almost as much on health care (13%) as they do on food (15%); under-25s spend more than six times on food (19%) as on health care

Since 1986, our percentage of saving, after taxes, has declined by more than two-thirds. In that same period, the percentage of our total income allocated to taxes has increased almost 16%.

The young spend seven times more than the elderly on education; the elderly spend almost five times more than the young on health care.

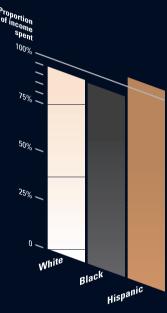
The young, the old, and Hispanics spend more than they earn. We assume that the young are subsidized by their parents and credit card debt and the old by their savings.

Spending & Saving

How much more or less are we spending, and on what? What percentage of our income do we spend, and on what? How much are we saving and paying in taxes?

How our spending

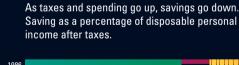
Spending by race

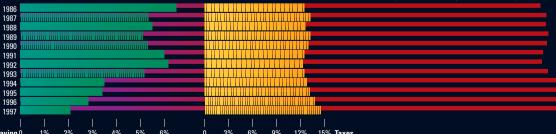


IFEST Hispanics may be of any race. For a discussion of racial and ethnic classifications and how data from persons of Hispanic origin influence the data reported for whites, see Poverty by Characteristic. It is assumed that the proportion of income spent by Hispanics is inflating the proportion of income spent by whites.

Between 1984 and 1997, the percentage of our income after taxes we spend on many products and services has changed significantly. These changes do not consider the actual cost of these products and services, but only the change in the percentage of our income that we spend on them. The light grey bars show the percentage of our budget that goes to each of these necessities and non-necessities. To see how the cost of these goods and services has changed, see the preceding spread.

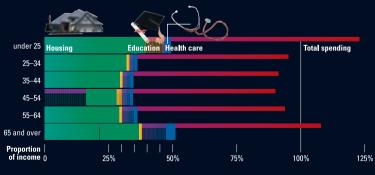
Saving, spending, taxes





Spending by age education, and health care.

Proportion of income spent, overall and for housing,



The Coca-Cola Company has a 44% share of the non-alcoholic beverage market. Private label companies have a 2% share.

The national view

The residents of **Seattle** spent **89.3%** of their income in 1996–97, highest in the country.

The most complaints to the Better Business Bureaus in 1997 were lodged against franchised auto dealers, followed by auto repair shops and home remodeling contractors.

In the fourth quarter of 1998, personal savings as a percentage of income fell to 0.

+20%

1 Health insurance is included in health care and so is not shown as percentage of spending.

+30% percentage of spending

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. Statistical Abstract of the United States, 118th Edition, 1998. Washington DC.

Wall Street Journal. The Wall Street Journal Almanac, 1999. New York.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census: LLS, Department of Housing and Urban Development, Office of Policy Development and Research. American Housing Survey for the United States in 1995. Current Housing Reports H150/95RV. Washington DC.

American Chamber of Commerce Researchers Association. Cost of Living Index: Comparative Data for 329 Urban Areas, 1998.

U.S. Department of Commerce, Bureau of Economic Analysis. Consumer Expenditure Survey, 1997.

Families earning less than \$10,000 annually have the smallest median debt as a percentage of their income, 16%, compared to all families earning between \$10,000 and \$100,000.

The largest percentage of American heads-of-families with debt greater than 40% of their annual income are between the ages of 55 and 64.

By the numbers

4.7%: families with credit cards in 1995.

3.6%: credit card debt of all family debt in 1995.

\$2,500: median debt of families whose annual income was less than \$10,000 in 1995.

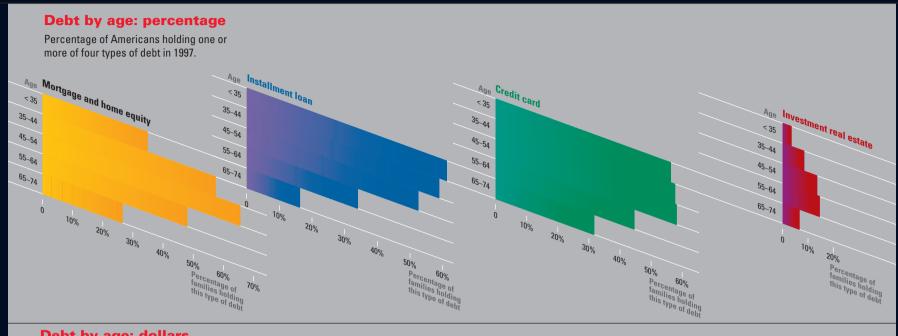
\$118,000: median debt of families whose annual income was greater than \$100,000 in 1995.

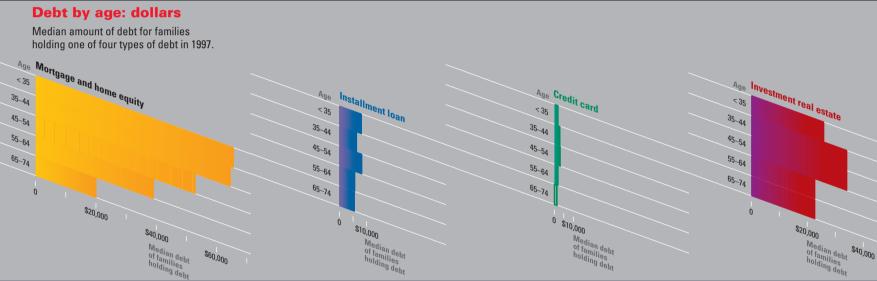
families earning less than \$10,000 annually with a mortgage or home equity loan in 1995.

73%: families earning more than \$100,000 annually with a mortgage or home equity loan in 1995.

545%: increase in revolving consumer credit between 1985 and 1999, in current dollars, from \$105.7 billion to \$575.8 billion.

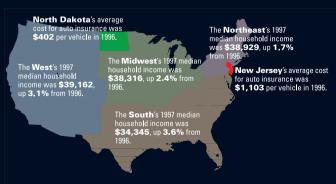
311%: increase in revolving consumer credit between 1985 and 1999, in constant dollars and adjusted for population growth.





The national view

Income in 1997 dollars



Type of debt

Investment real estate mortage Credit Card Installment Hone mortage home equity

Purpose of debt Investment real estate Goods and services Vehicles Home purchase improvement

Source of financing financing financing finance company Finance company Savings and loan

Installment Home mortgage/ home equity Goods and services Wehicles improvement

The number of ATM transactions increased from 3.6 billion in 1985 to 11.0 billion in 1997.

The number of POS (point-of-sale) transactions increased from 14 million in 1985 to 1.4 billion in 1997.

The number of commercial banks decreased by 37% between 1985 and 1997, from 14,417 to 9,143; the number of branches increased 39%, from 43,293 to 60,320.

The number of savings institutions decreased by 51% between 1985 and 1997, from 3,626 to 1,779; the number of branches decreased 40%, from 20,980 to 12,672.

O Social Security Administration. U.S.

<u>www.ssa.gov</u>

Official web site of the agency. Contains information, data, reports and other sources of information about SSA programs

O Isaac Shapiro and Robert Greenstein.
The Widening Income Gulf. Center on
Budget and Policy Priorities.
www.cbpp.org/9-4-99tax-rep.htm
Report that examines Congressional Budget
Office data indicating a growing income gap
among segments of American society.

Notes

- 1 Based on a family of four with \$60,000 annual income, residing in a 2,200 sq. ft., 8-room, 4-bedroom, 2.5-bath home, and owning two vehicles. Source: Runzheimer International
- 2 Based on a U.S. expatriate family of two with a base salary of \$75,000, factoring a combination of housing, transportation, and goods and services.

Source

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. *Statistical Abstract of the United States*, 118th Edition, 1998. Washington DC.

Income & Debt

What is our income, by race?

Americans' debt distributed?

What kind of debt do we

incur. by age? How is

Who lends us money?

Income by race

dollars.

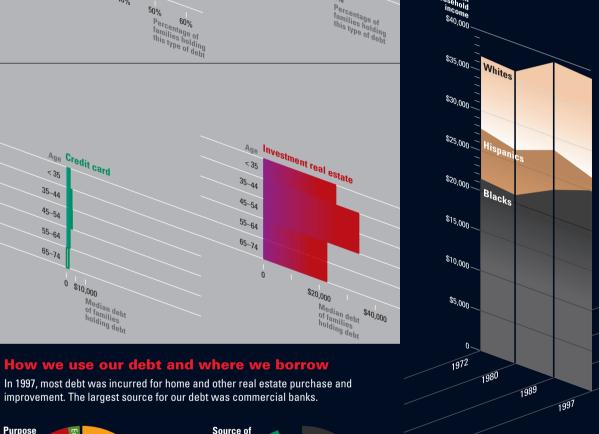
Only Blacks have attained and surpassed

the high-income year for other races of

1989. Median household income in 1997

Wall Street Journal. *The Wall Street Journal Almanac*, 1999.

American Chamber of Commerce Researchers Association. *Cost of Living Index: Comparative Data for 329 Urban Areas*, 1998. Federal Reserve Board of Governors.



In 1995, less than 1% of America's families, those earning over \$250,000 annually, owned 27% of all stock. Twenty-four percent of families, those earning less than \$25,000. owned $1^{1}/_{2}\%$ of all stock.

In 1997, 65.5 million Americans, in 37.4% of households, owned mutual funds.

By the numbers

54.5 % of 1997's mutual funds investments were by individuals (\$2.5 trillion).

94%: increase in the number of companies listed on the New York Stock Exchange between 1980 and 1997, from 1,570 to 3,047.

49%: decrease in the number of bond issuers listed on the New York Stock Exchange in the same period, from 1,045 to 533.

757%: increase in the market value of securities listed on the New York Stock Exchange between 1980 and 1997, in current dollars, from \$1,243 billion to \$9.413 billion.

389%: increase in the market value of securities listed on the New York Stock Exchange between 1980 and 1997, in constant dollars.

28%: increase in the percentage of families with stock holdings between 1989 and 1995, from 31.6% to 40.3%.

of stock holdings among these families' financial assets between 1989 and 1995.

than \$100,000 owning stock, 81.8% to

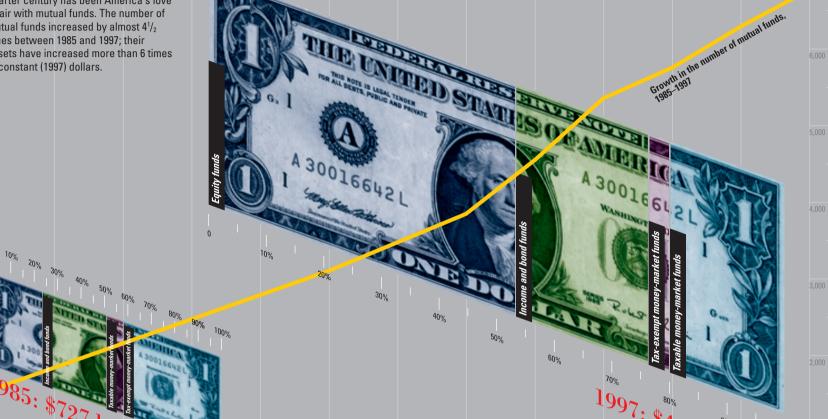
The growth of mutual funds The personal finance story of the last

quarter century has been America's love affair with mutual funds. The number of mutual funds increased by almost 41/2 times between 1985 and 1997; their assets have increased more than 6 times in constant (1997) dollars.

: increase in the percentage from 28.6% to 41.5%.

: increase in the percentage of families with income less than \$10,000 owning stock, 3.3% to 6.2%, between 1989 and 1995.

0.7%: decrease in the percentage of families with income greater 81.1%, between 1989 and 1995.



The rich get richer

The rich's share of America's wealth keeps getting larger. The richest 20% of Americans is the only group whose percentage of wealth is increasing.

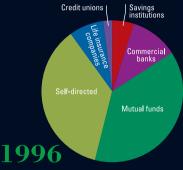


quintile of households in 1997 was \$15,400; quintile, \$71,500.

Who holds the IRA money

Between 1985 and 1996 IRA holders moved their accounts away from savings institutions and commercial banks in favor of mutual funds companies and





The next wealthiest 10% owned 12% of Americans' net worth.

The remaining 80% of Americans owned 19% of Americans' net worth.

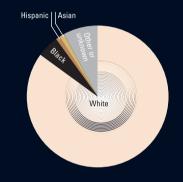
Investina

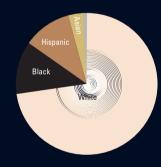
How many mutual funds are there and how do we invest in them? Who buys stock? Where do we keep our IRA accounts?



Who owns stock

The racial and ethnic composition of stock-owning Americans was much whiter than that of the U.S. population as a whole in 1997. The upper pie shows stock ownership by race; the lower pie shows the racial composition of the country as a whole.





U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. Statistical Abstract of the United States, 118th Edition, 1998. Washington DC.

Wall Street Journal. The Wall Street Journal Almanac, 1999.

American Chamber of Commerce Researchers Association. Cost of Living Index: Comparative Data for 329 Urban Areas, 1998.

Survey of Consumer Finances.

Federal Reserve Board of Governors.

In 1995, the wealthiest $\frac{1}{2}$ of 1% of America's households owned 65% of publicly traded stock.

The next wealthiest $^{1}\!/_{\!2}$ of 1% owned 12%of publicly traded stock.

The next wealthiest 4% owned 18% of publicly traded stock.

The next wealthiest 5% owned 3% of publicly traded stock.

The next wealthiest 10% owned $\frac{1}{2}$ of 1% of publicly traded stock.

The remaining 80% of Americans owned 0% of publicly traded stock.

The upper limit of income of the poorest for the second quintile \$29,200; for the third quintile, \$46,000; for the fourth

The lower limit of income of the top 5% was \$126,550.

In 1995, the wealthiest 1/2 of 1% of America's households owned 28% of Americans' net worth.

The next wealthiest 1/2 of 1% owned 7% of Americans' net worth.

The next wealthiest 4% owned 21% of Americans' net worth.

The next wealthiest 5% owned 12% of Americans' net worth.

Median household income increases up to the age of 54 and then declines.

The cost of health care rises dramatically after age 45.

For every hundred persons aged 50–64, the number of persons 85 and older will increase by 50%, from 10 to 15.

By the numbers

59% of the over-65 population in 1998 were women, but

71% of the over-85 population in 1998 were women.

59% of Americans over 65 are women, but

73% of Americans over 65 living in poverty are women.

40%: mean income of Americans over 65 as percentage of the mean income of those aged 45–54.

24.7%: poverty rate of the elderly in 1970;

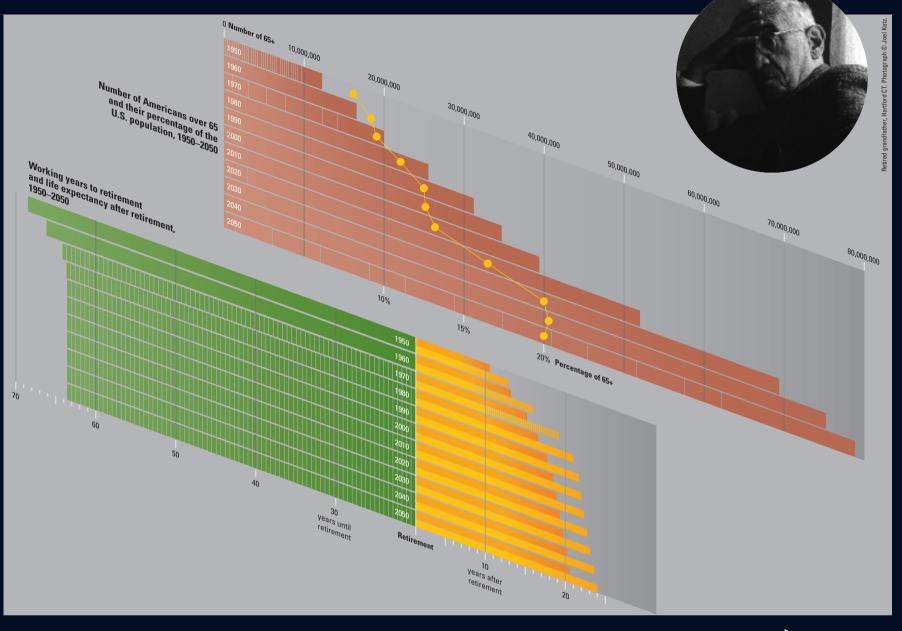
10.8%: poverty rate of the elderly in 1996.

46.4% of men over 65 have pension income, but only

26.4% of women do.

3%: full-time private wage and salary workers with 401(k) plans in 1983;

27%: full-time private wage and salary workers with 401(k) plans in 1993.



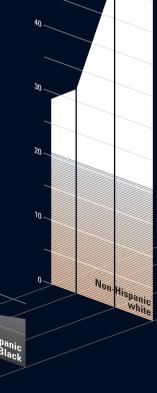
Aging & Retirement

How long is our retirement becoming? How much are the elderly increasing? How is the racial makeup of the elderly changing?



Race and the Elderly

The racial makeup of America's over-65s will be much more diverse in 2050 than in 1997. Non-Hispanic whites will drop from 80.8% of the elderly to **66%**. The percentage of non-Hispanic Blacks will increase from 8% to **9.6%**. The percentage of elderly Hispanics will increase from 4.9% to **17.5%** of the elderly (from 1.7 million to 13.7 million). Asians and Pacific Islanders (too few in numbers to graph) will increase from 2% to **6.3%** of the elderly.



The national view

The elderly population of Nevada grew 84% between 1987 and 1997. The national average was 15%. Alaska's growth of 73.9% was second.

California will have the largest elderly population in 2020, 6,622,000, but will live in the nine states outlined in green in 2020.

The South will overtake the Northeast sometime after 2010 and have the largest percentage of elderly in 2020, 17.5%.

The percentage of elderly in Florida will reach 25.6% by 2020, up from 17.3% in 1980.

Percentage of the elderly by race

Non-Hispanic white

70% of Baby Boomers don't want to depend on their children during retirement; 9% believe that people ought to be able to depend on their family financially during

2050

Sources

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. *Statistical Abstract of* the United States, 1998.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census; U.S. Department of Health and Human Services, National Institutes of Health, National Institute on Aging. 65+ in the United States. Current Population Reports. Special Studies. P23-190. 1996.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. Current Populations Reports: Population Projections of the United States by Age, Sex, Race, and Hispanic Origin, 1995–2050. P25-1130.

Bureau of Labor Statistics, *Employee Tenure in 1998*, USDL 98-387; *Job Tenure*, January 1987.

AARP/Roper Starch. Baby Boomers Envision their Retirement: An AARP Segmentation Analysis, 1999.

U.S. Department of Commerce. *Money Income in the United*

The percentage of workers 65 and over who worked for less than 12 months increased from 10% in 1987 to 16.1% in 1998.

Of the 80% of Baby Boomer retirees who plan to work during retirement, almost 35% expect to work mainly for interest or enjoyment; almost 23% plan to work mainly for income.

16% plan not to work at all.

39% of Boomers have given a great deal of thought to their retirement years; 15% have not given the subject much thought at all.

84% of Boomers feel that they need more money to live comfortably than their parents' generations; 42% believe that they will have more money when they retire; 31% expect Social Security to meet their needs as well as it met the needs of their parents' generation.

The poorest 20% of the elderly get 90% of their income from Social Security; the wealthiest 20% get only 20%.

Without Social Security, the poverty rate would more than quadruple, from 10.8% to 48%.

Two-thirds of Americans over 65 depend on Social Security for at least half of their income.

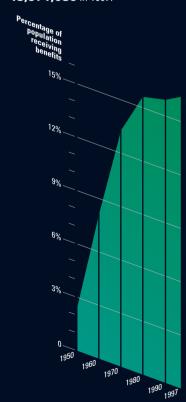
Running out of time

Although the number of workers paying into the Social Security program continues to increase, the aging of America's population and the increasingly lower age of retirees and disabled workers is relentlessly raising the annual cost of benefits faster than the program's annual income. The Social Security Trust Fund is projected to rise until the year 2020, at which point it will begin to fall precipitously. Without significant changes to the program, the Trust Fund is expected to be exhausted in 2032.

- To see the increasing numbers of the elderly and retired, see the preceding spread.
- To see the need for Social Security by the elderly and retired, see the following spread

Increased percentage

The percentage of Americans receiving Social Security benefits has increased from 2.3% in 1950 to **16.4%** in 1997, and in numbers from 3,477,243 in 1950 to 43,971,086 in 1997.



The median income from pensions for Americans 66-84 years old in 2030 will be Only 26% of women had pension income in 5% more than in 1990 (in constant 1990

"Between half and two-thirds of [the Baby Boomer] generation is going to need a floor of protection to keep them out of financial hardship—the traditional role of Social

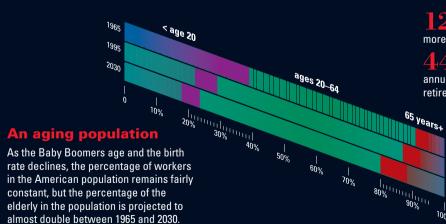
> Peter G. Peterson President, Concord Coalition 21 March 1998

\$3.75 trillion \$3.5 trillion \$3.25 trillion \$3 trillion \$2.75 trillion \$2.5 trillion \$2.25 trillion \$2 trillion \$2.5 trillion \$1.75 trillion \$2.25 trillion \$1.5 trillion \$2 trillion \$1.25 trillion \$1.75 trillion \$1 trillion \$1.5 trillion \$750 billion \$2 trillion \$1.25 trillion \$500 billion \$1.75 trillion \$1 trillion \$250 billion \$1.5 trillion \$750 billion \$1.25 trillion \$500 billion \$1 trillion \$250 billion \$750 billion \$500 billion Social Security annual expenditu 990 1995 2000 2005 2010 \$250 billion 2010 2015

The cost of supporting

\$75

The total monthly benefits paid in 1997 by the Social Security program are the equivalent of \$113.71 from every American man, woman, and child.



Social **Security 1**

How solvent is the Social Security program? How much does it cost? What is the ratio of workers to beneficiaries?

Contributors and beneficiaries

The perpetuation of the Social Security system is predicated on a number of workers to support every beneficiary. As the percentage of workers in the population decreases, and as the number of beneficiaries increases, the necessary ratio of workers to beneficiaries is lost. The number of workers to beneficiaries is projected to decrease from **16.5** in 1950 to 2.1 in 2030, or 87%. Similarly, the number of beneficiaries per 100 workers is projected to increase from 6 in 1950 to 48 in 2030, an 800% increase.

By the numbers

of Baby Boomers earning less than \$30,000 annually and

earning more than \$70,000 annually expect to rely on Social Security for most or all of their retirement income.

36% of Baby Boomers earning more than \$70,000 annually but only

earning less than \$30,000 annually feel very optimistic about their retirement years.

of Baby Boomers earning more than \$70,000 annually and

44% earning less than \$30,000 annually feel that they won't be able to retire.

- U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, Statistical Abstract of the United States, 1998.
- Social Security Administration. *Annual Statistical Supplement to the Social Security Bulletin*, 1998.
- Social Security Administration, Office of Research, Evaluation and Statistics. Fast Facts and Figures about Social Security,

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- U.S. Census Bureau. Current Population Survey. March 1997
- U.S. Bureau of the Census, Current Population Reports, P60-198. Poverty in the United States. 1996.
- FRBI Datebook on Employee Benefits, 4th edition.

Lewin-VHI. Baby Boomer Pension Benefits: Will They Be Adequate for the Future? Research Division, AARP, 1994

AARP/Roper Starch. Baby Boomers Envision their Retirement: An AARP Seamentation Analysis, 1999.

73% of the aged poor in 1996 were women.

By 2030, Baby Boomers will be the largest aged population in American history. 55% of them expect to get their money back from the Social Security system. 48% expect to count on Social Security during retirement. 15% expect to rely on Social Security for most or all of their retirement income. Americans over 65 get 40% of their income from Social Security.

Who gets benefits

By the numbers

43,971,086: number of Americans receiving Social Security benefits in 1997, equivalent to the total population of California and Illinois.

\$30.5 billion: total monthly benefits paid by the Social Security program in 1997.

7 times: the percentage of Americans who received Social Security benefits in 1997 compared to 1950.

137 times: the increase in Social Security benefits between 1950 and 1997, in current dollars.

20.5 times: the increase in Social Security benefits between 1950 and 1997, in constant (1997) dollars.

Bread or guns

Social Security and Medicare payments have both increased at a significantly faster pace than defense expenditures between 1980 and 1997. (This graph is in billions of current dollars; in constant dollars, defense spending has actually declined).



The national view

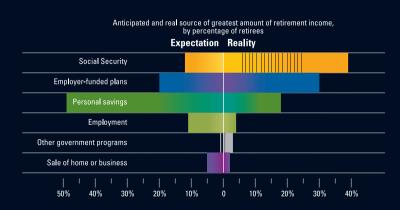
Wyoming received the least Social Security money in 1996, \$183 million.

Only West Virginia, Kentucky, and Louisiana have less than a 60% Social Security direct deposit participation rate.

Florida, the fourth most populous state with the equivalent of 45% of California's population, has the second largest number of Social Security beneficiaries, 76% of California's.

Expectation and reality

Retirees have optimistic expectations of their retirement income. The greatest percentage expect that their most important source of income will be personal savings; in fact, it will be Social Security.



To see the increasing numbers of the elderly and retired, see Aging and Retirement.

To see the anticipated collapse of the Social Security system, see the preceding spread.

68% of Baby Boomers expect to be able to count on retirement income from an IRA, 401(K), or other retirement savings account; 60% from income or money from savings and investments; 57% from an employer's pension, 48% from Social Security.

"America must make sure that Social Security continues as the foundation of our economic future for our families and that pensions and individual savings and investments supplement, not substitute for, Social Security benefits..."

Margaret A. Dixon President, AARP, 1996–98 31 July 1997 © FinanCenter: Personal Finance & Calculators. FinanCenter, Inc. www.financenter.com

A commercial web site designed to provide information and tools for consumers about home and auto loans, credit cards, and insurance, as well as other financial products.

Sources

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. *Statistical Abstract of* the United States, 1998. Table N° 26.

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AARP/Roper Starch. Baby Boomers Envision their Retirement: An AARP Segmentation Analysis, 1999.

Social

elderly?

58% were women.

Security 2

Who gets benefits and how

much? How have entitlement programs increased compared to other programs? How impor-

tant is Social Security to the

In 1998, 42% of Americans receiving

Social Security benefits were men and

Income sources for the

Social Security continues to be the

1997.

largest source of income for the elderly,

comprising over 40% of their income in

Social Security

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. *Population Projections of* the United States, 1995–2050, 1996. Only persons under 24 years old have a greater incidence of poverty than the national average.

The age group with the fewest number of people living in poverty is 55–64; the age group with the lowest rate of poverty is 45–54.

Black and Hispanic children under 18 are more than $3^{1}/_{2}$ times as likely to live in poverty as white children.

A person with a professional degree (MBA, JD, MD) earns more than six times as much as someone without a high school diploma.

Poverty by Age

How old are the poor? How does the age of the poor compare with the age of the country? What percentage of each age is poor? How does education affect income?



Education and

Not surprisingly, the poverty rate is much higher (actually, 10 times higher) and earnings much lower among high school dropouts compared to those with college and graduate degrees.



By the numbers

20% of Americans under 18 live

1.5 times the national

14,000,000 Americans under 18 live in poverty,

3 times the number in the next largest group, 25–34, and

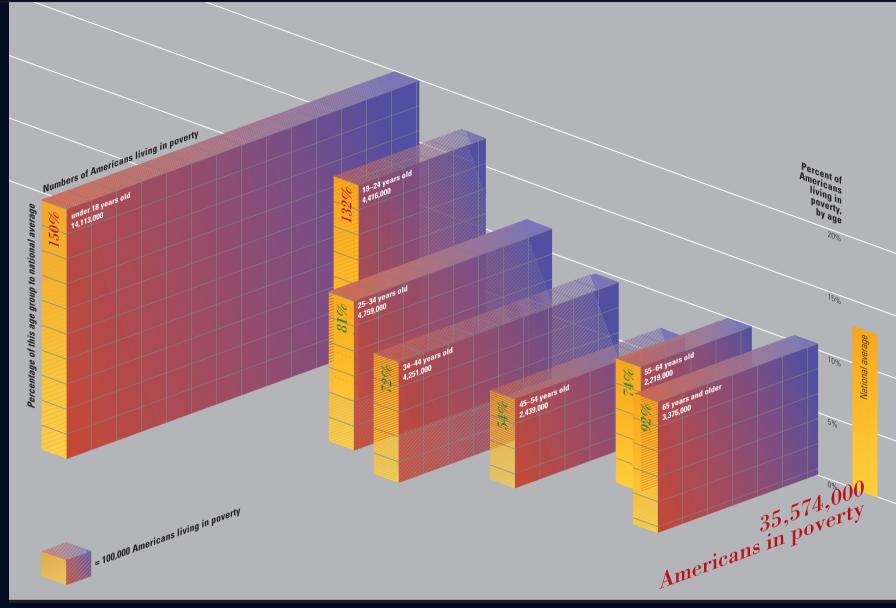
20 times more than Americans between 45 and 54.

Under-18s constitute 40% of the poor, which is

almost 65% more than their percentage of the population.

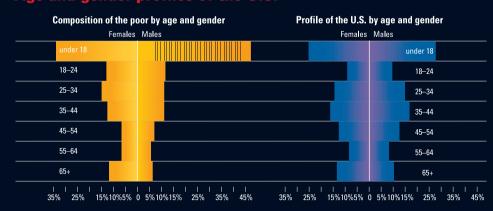
23 is the median age of Americans living in poverty.

On average, 2 children (and 1.7 adults) live in each poor household.





Age and gender profiles of the U.S.



22.7% of adults in poor households are full-time workers.

The average annual income of Americans in the lowest income quintile is \$3,200.

Among 18-24-year-old whites, the poverty rate for females is 41% greater than for

Among 18-24-year-old Blacks, the poverty rate for females is 88% greater than for

Among 18-24-year-old Hispanics, the poverty rate for females is 26% greater than for males.

The number of Americans 65 and older living in poverty has decreased by 10%since 1980. And because America is getting older, the percentage of the poor elderly in the total population has decreased by more than 31%.

igcirc Poverty. Census Bureau. Dept. of Commerce, U.S.

www.census.gov/hhes/www/poverty.html Census data and reports on all aspects of poverty in U.S.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, Statistical Abstract of the United States, 118th Edition, 1998, Washington DC,

Wall Street Journal. The Wall Street Journal Almanac. 1999

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census; U.S. Department of Housing and Urban Development, Office of Policy Development and Research. American Housing Survey for the United States in 1995, Current Housing Reports H150/95RV, Washington DC

Dalaker, Joseph and Mary Naifeh. U.S. Bureau of the Census, Current Population Reports, Series P60-201. Poverty in the United States: 1997. U.S. Government Printing Office, Washington DC, 1998.

For poverty rates and numbers by family composition, race, ethnicity, gender, geography, and national origin, see the following spread.

The number of whites living in poverty is almost as great as Blacks and Hispanics combined. The poverty rate is greater outside metropolitan areas than within but more poor live in metropolitan areas than outside.

34% more women live in poverty than men; their risk of poverty is 28% greater.

The poverty rate of foreignborn, naturalized citizens is half that of foreign-born noncitizens and lower than that of the native-born.

By the numbers

Your chance of being **poor**:

in 2 if you are a member of a family headed by a Hispanic woman (no spouse present).



1 in 2.7 if you are black, female, and under 18 years old.

in 4 if you are Native

1 in 5.3 if you live in the center of a city.

1 in 6.7 if you are female,

1 in 8.6 if you are male.

1 in 7.1 if you are of Asian or Pacific Islander descent.

1 in 20.4 if you are a white male aged 54–59.

5.5 times greater if you live in New Mexico than if you live in New Hampshire.

Your chance of being wealthy:

 $1\,\,\mathrm{in}\,\,8.3$ if you live in Connecticut and

1 in 50 if you live in West Virginia or Mississippi.

Poverty rates and numbers by selected characteristics Poverty is a fascinating mix of "upstream" and "downstream" characteristics. For me, "upstream" relates to broad cultural and societal issues, best expressed in percentages; "downstream" has to do with delivery and quantifiable issues, best expressed by numbers. The higher, in many cases strikingly higher, poverty rates among groups identifiable by race, ethnic origin, and gender are telling reminders of the distance we have yet to come to realize the American dream evenhandedly for all Americans. The numbers of the poor among groups with the same characteristics are simply parallel to the makeup of the United States but of importance in planning for and delivering the services that the poor need. A kinder, gentler nation Overall, these four types of aid to the poor have increased between 1980 and 1996, with the biggest increase in Medicaid. This graph shows the percentage of households receiving each type of aid and is therefore adjusted for increase in population.

The average poverty thresholds in 1997

\$8,813 for one person

\$10,743 for two people

\$12,802 for three people

\$16,400 for four people

\$19,380 for five people

The thresholds are lower for individuals and two-person households over 65 years

The thresholds generally become lower as the number of children in a household

The number of Black poor decreased 9.4% between 1996 and 1997; their poverty rate decreased 6.7%; their real median income increased 4.3%.

Food stamps

The rate of poverty for Black female heads-of-household decreased between 1996 and 1997 to 39.8% from 43.7%.

For poverty rates and numbers by age, see the preceding spread.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census, Statistical Abstract of the United States, 118th Edition, 1998. Washington DC.

Wall Street Journal. The Wall Street Journal Almanac, 1999

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census; U.S. Department of Housing and Urban Development, Office of Policy Development and Research. *American Housing Survey for the United States* in 1995. Current Housing Reports H150/95RV. Washington DC

Dalaker, Joseph and Mary Naifeh, U.S. Bureau of the Census Current Population Reports, Series P60-201. *Poverty in the United States: 1997.* U.S. Government Printing Office, Washington DC, 1998.

Counting Hispanics

In the 1990 census, all respondents were

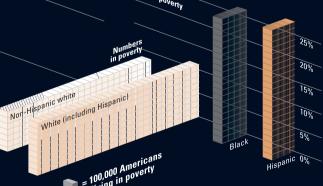
Poverty by

poor?

Characteristic

What are our chances of being poor? Where do the poor live? Of what race and family composition are the

required to choose a race (white, Black, Asian/Pacific Islander, Native American/Aleut/Eskimo); specifying an ethnicity (Hispanic origin, for example) was optional. As a result, readily available data often double-counts persons of Hispanic origin. Based on the 1998 Statistical Abstract, 91.2% of Hispanics are double counted as white, 5.6% double counted as black, and 3.2% double counted as Asian/Pacific Islander or American Indian/Eskimo/Aleut. While this double counting has relatively little effect on statistics for Blacks, it has a significant effect on statistics for whites, increasing their poverty risk from 8.6% to 11.0%, a difference of 38%! The result is to reduce the perceived differential between non-Hispanic whites and other segments of the population. In the data presented in this section, classifications for whites include Hispanics unless otherwise stated.



In 1997, 804,000 new, onefamily homes were sold with a median price of \$146,000; 4.215.000 existing one-family homes were sold with a median price of \$124,100; and 296,500 new mobile homes were sold with a median price of \$41,100.

Rental housing is more costly as a percentage of income. Except among the elderly, owned housing is more expensive in dollars.

How much does housing cost? What housing types do we occupy and how many rooms do we live in?

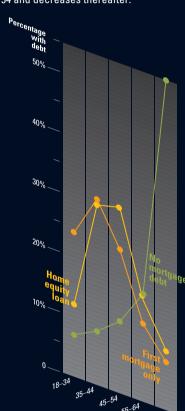
Who owns and who rents?

Housing



Housing debt by age

Freedom from housing debt increases with age. Mortgage and home equity debt peaks between the ages of 35 and 54 and decreases thereafter.



By the numbers

70%: the increase in residential mortgage debt between 1980 and 1997 adjusted for both inflation and population growth.

\$4.36 trillion

residential mortgage debt in 1997 (up from \$1.1 trillion in 1980).

4 %: decrease in the residential mortgage delinquency rate between 1980 and 1997:

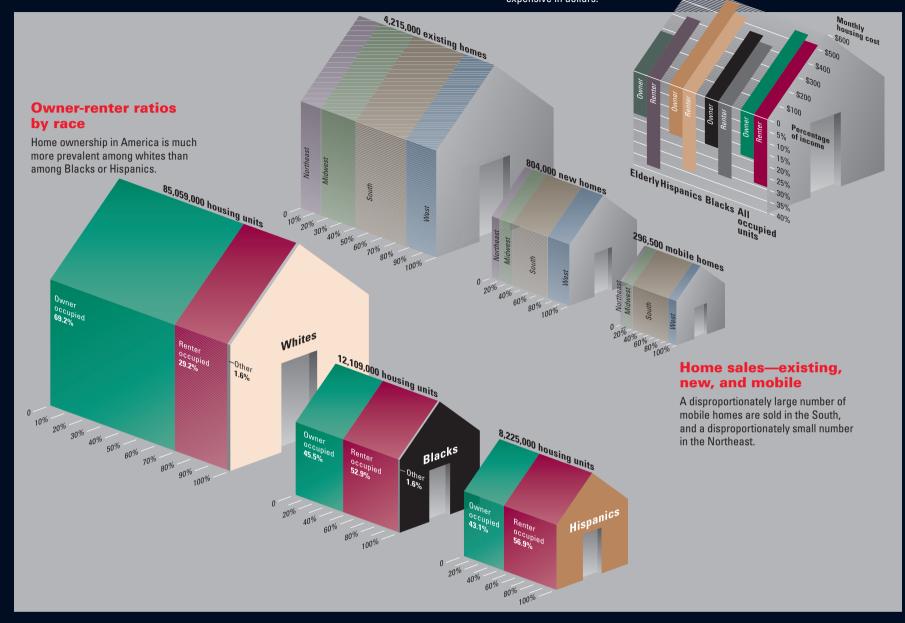
220%: increase in the residential foreclosure rate in the same time neriod

The greatest growth in household type, both family and non-family, between 1970 and 1997 has been in male-headed households.

137%: increase in the percentage of after-tax income spent to support a home purchase between 1976 (24%) and 1997 (32.8%).

San Francisco.

highest median price of home purchased, \$289,700; highest average monthly payment for home purchase, \$1,632; second highest percentage of after-tax income for monthly payment (after New York), 40.1%; longest time to save down payment, 4 years; highest average monthly apartment rent, \$1,542; highest median household income, \$86,600.



The national view



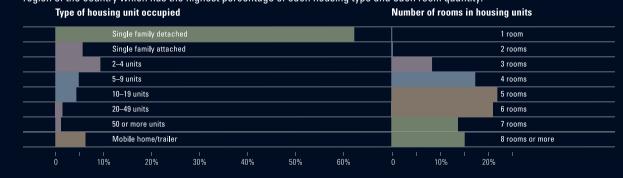
Between 1970 and 1997, the average floor area of new single-family homes has grown from 1,500 to 2,150 square feet and the median floor area, from 1,385 to 1,975

O Housing Topics. Census Bureau. Dept.

www.census.gov/hhes/www/housing.html Census data and reports on all aspects of U.S. housing market.

Housing unit type and number of rooms per unit

America is a single-family-house country; the mean number of rooms per housing unit is 5.1. The bars are colored to match the region of the country which has the highest percentage of each housing type and each room quantity.



of Commerce. U.S.

Where do we live?

in the suburbs.

Mostly in metropolitan areas, and mostly

presentations, see Poverty by Characteristic. ₽ For additional information on age-related mortgage

For a discussion of how persons of Hispanic origin are

often double counted in many government statistical

- National Low Income Housing Coalition. Out of Reach Report, 1999.
- 2 Kokomo's #1 ranking in housing affordability—95.3 means that families earning the Kokomo median income of \$46,900 could have purchased 95.3% of all the homes sold in the fourth quarter of 1997. The median sales price in Kokomo that quarter was \$79,000. Source: National Association of Home Builders. From *The Wall Street* Journal Almanac, 1999.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census. Statistical Abstract of the United States, 118th Edition, 1998. Washington DC.

Wall Street Journal. The Wall Street Journal Almanac, 1999.

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of the Census; U.S. Department of Housing and Urban Development, Office of Policy Development and Research. American Housing Survey for the United States in 1995. Current Housing Reports H150/95RV. Washington DC.

Almost half the housing units in the United States were built between 1950 and 1979. The median age of housing units is 28 years.

The average sales price of a new one-family home is highest in the Northeast; the median sales price is highest in the West.

New housing is least expensive in the South; existing housing is least expensive in the Midwest.

2.8% of the total number of housing units in the United States are seasonal; 8% of year-round housing units are vacant. The vacancy rate of rental units is almost five times the rate for homeowner units.

square feet.

Mental illness

20-25% of the single adult homeless population suffers from persistent mental illness¹⁰, but only about a quarter of them require institutionalization11.

Children under 18 account for 25% of the urban homeless, the same percentage of the young in the general population; unaccompanied minors comprise 3%⁵. 51% of the homeless are 31–50 years old¹. Other studies place the percentage of homeless aged 55–60 at 2.5% to 19.4%.

Single adults are much more likely to be male than female, with single men comprising 45% of the urban homeless population and single women, 14%⁵.

Families

Families with children are considered to be the fastest growing segment of the homeless, comprising 38-40% of the homeless^{5,7}, with higher proportions in rural areas

Race and ethnicity

The urban homeless population is considered to be 49% Black, 32% white, 12% Hispanic, 4% Native American, and 3% Asian⁵. Not surprisingly, these percentages vary widely with location: the homeless in rural areas are much more likely to be white; homelessness among Native Americans and migrant workers occurs largely in rural areas8.



40% of homeless men have served in the armed forces, compared with 34% in the general population⁹. In urban areas, 22%

presentations see Poverty by Characteristic

of the homeless are veterans5.

For a discussion of how persons of Hispanic origin are often double counted in many government statistical

O Homeless—Other Sources of Information. Dept. of Housing and Urban Development. U.S. www.hud.gov/hmlother.html HUD programs and policies that attempt to alleviate the problems associated with

- 1 Burt, Martha. "Causes of the Growth of Homelessness During the 1980s." in Understanding Homelessness: New Policy and Research Perspectives. Fannie Mae Foundation, 1991, 1997. Available free from the Fannie Mae Foundation, 4000 Wisconsin Avenue, NW, North Tower, Suite 1, Washington DC 20016.2804; 202.274.8074; fmpubs@fanniemaefoundation.org
- 2 National Law Center on Homelessness and Poverty. Out of Sight—Out of Mind? A Report on Anti-Homeless Laws, Litigation, and Alternatives in 50 United States Cities, 1999. Available for \$28 from the National Law Center on Homelessness and Poverty, 918 F Street NW, Suite 412, Washington DC 20004.1406; 202.638.2535.
- 3 Link, Bruce et al. "Life-Time and Five-Year Prevalence of Homelessness in the United States" in American Journal of Public Health, December 1994. Available from Dr. Bruce Link, Columbia University, 100 Haven Avenue, Apt. 31-D. New York NY 10032.2626.

Housing costs

Declining wages and increasing rental costs have put housing out of the reach of minimum-wage workers. In the median state, a minimum-wage worker would have to work $\frac{87}{7}$ hours a week to

afford a two-bedroom apartment at 30% of his or her income, the Federal definition of affordable housing¹².

- Shinn, Marybeth and Beth Weitzman, "Homeless Families
 - 8 U.S. Department of Agriculture, Rural Economic and Community Development. Rural Homelessness: Focusing on the Needs of the Rural Homeless. Washington DC, 1996.
 - 9 Rosenheck, Robert et al. "Homeless Veterans." in Homelessness in America. Washington DC, Orex Press, 1996
- 10 Koegel, Paul et al. "The Causes of Homelessness," in Homelessness in America. Washington DC, Orex Press,

Homelessness

How many of them are there

family composition, and race

and how are they counted?

Who are the homeless?

How old, what gender,

Unseen. Uncounted

The National Coalition for the Homeless, the source of all the data used in this spread, discusses very articulately the difficulty and frustration of defining, and the virtual impossibility of quantifying,

homelessness. It concludes that, since

homelessness is a temporary condition,

an appropriate measure of the problem

is the number of people who experience homelessness over time rather than a number of "homeless people." Most studies are limited to counting people on the street or in shelters. This can lead to significant underestimates

of the magnitude of the problem:

transitional housing spaces11.

ments and will not be counted.

counted

1999²

19944

Principal Source

Washington DC 20005 202.737.6444 www.nch.ari.ne

are homeless. 1988

1. In virtually every city, the estimated

number of homeless greatly exceeded

the capacity of emergency shelter and

2. There are few or no shelters in rural areas of the U.S., and many people without housing live with relatives or friends in crowded, temporary arrange-

3. A study of formerly homeless people

found that 59.2% of them stayed in vehi-

cles and 24.6% in tents, boxes, caves, or

Below are summarized four national esti-

boxcars, and are unlikely to have been

mates of homelessness, none of which

can really represent how many people

500,000-600,000 = .20-.25%

7,000,000 = 2.9% in 5 years

700,000/night = .26%

2,000,000/year = .73%

1985-1990 averaged3

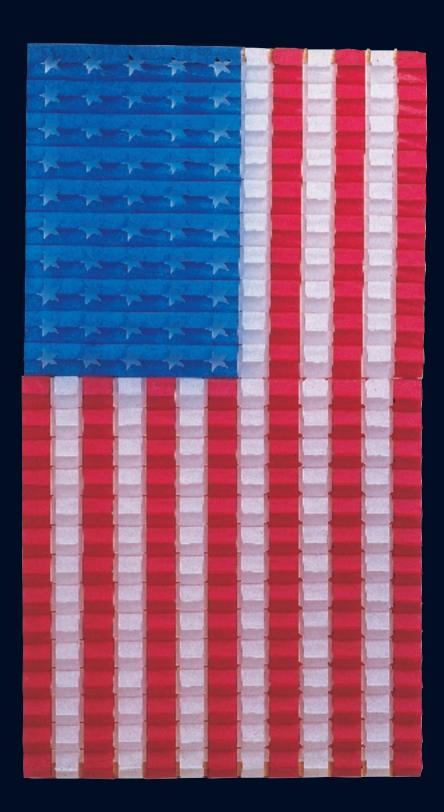
3% = 7,818,000

National Coalition for the Homeless 1012 14th Street NW, Suite 600

are they?

- 11 Federal Task Force on Homelessness and Severe Mental Illness. Outcasts on Main Street: A Report of the Federal Task Force on Homelessness and Severe Mental Illness. Delmar NY, National Resource Center on Homelessness and Mental Illness, 1992.
- 12 National Coalition for the Homeless, 1012 14th Street NW, Suite 600, Washington DC 20005; 202.737.6444.

- 4 Culhane, Dennis et al. "Public Shelter Admission Rates in Philadelphia and New York City: Implications of Turnover for Sheltered Population Counts," in *Housing Policy* Debate, 5(1994)2: 107-140. Available free from the Fannie Mae Office of Housing Research, 3900 Wisconsin Avenue NW, Washington DC 20016; 202,752,7761.
- 5 U.S. Conference of Mayors. A Status Report on Hunger and Homelessness in America's Cities: 1998. Washington
- 6 Institute of Medicine, Homelessness, Health, and Human Needs. Washington DC, National Academy Press, 1998.
- Are Different," in *Homelessness in America*. Washington DC, National Coalition for the Homeless, 1996.



Folding tissue paper flag, circa 1975 from the collection of Kit Hinrichs

Michael Bierut

Disease & Illness

What kills us? Can diseases be eradicated?

Cancer

Who gets it? What kinds are there? Are we winning the fight against it?

AIDS

Where is it? Who has it? What are the trends?

Disability

Who's disabled? How? How do the disabled support themselves?

Alternative Medicine

How popular is it? Is it for real?

Genetic Engineering

What is it? Where will it lead? What do we think about it?

Physical Fitness

How fat are we? How much exercise do we get?

Mental Health

What problems and effects are found in older Americans? What are we doing about it?

The Cost of Health

Who pays? How much? Where does the money go?

The Business of Health

How much do doctors earn? What do we spend on hospitals?

Insurance

Who's covered? Who's not? Why?

2,900,000

people died from Tuberculosis in 1997.

Year of the virus

1977 Ebola Virus

1983 AIDS

1989 Henatitis C

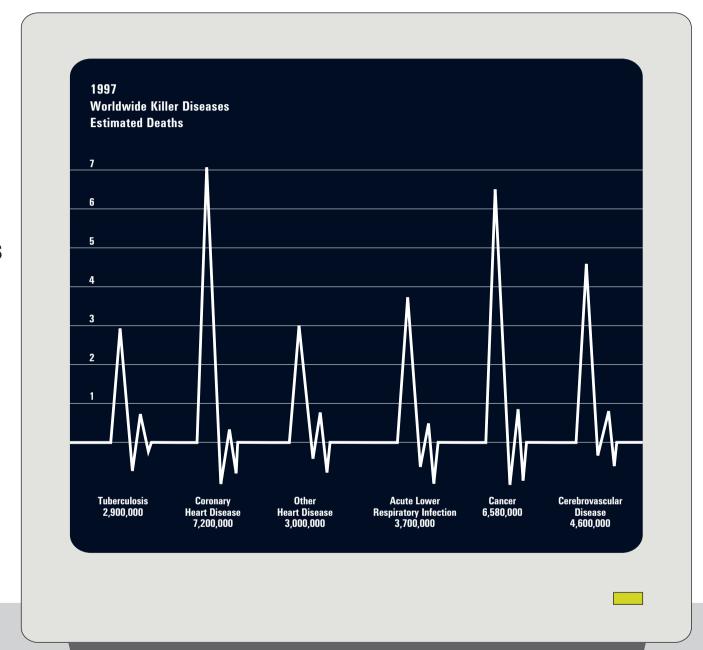
Disease & Illness

What kills us? Can diseases be eradicated?

2

Most common worldwide...

- 1. AIDS
- 2. Lyme Disease
- 3. Meningococcal infections
- 4. Escherichia Coli (E-Coli)
- 5. Malaria



3

Killers

According to the table at left, these three diseases killed the most people worldwide in 1997.

Coronary Heart Disease 7.2 million

Cancer 6.58 million

Cerebrovascular
Disease
4.6 million

We're back!

Diseases once considered outdated are making a comeback.

Cholera:

Caused by a bacterium spread principally through food and drinking water contaminated with human feces.

Malaria:

transmitted by the anopheles mosquito. Malaria has risen steadily during the 80s and 90s. Globally, about 300 to 500 million cases occur annually.

Tuberculosis:

Caused by a parasite

This bacterial
disease was predicted to be eliminated
from the U.S. by the
end of the century.
According to the
World Health
Organization,
Tuberculosis is the
"world's most
neglected health
crisis"

Heart disease: The num ber one killer in the U.S.

The facts

Men who have suffered clinical depression are more than twice as likely to develop heart disease as those who haven't. Black smokers inhale more nicotine per cigarette than do white smokers. This may explain why they are 30% more likely to develop lung cancer. Diesel exhaust fumes may pose a significant cancer risk even in lowlevel exposure, according to a draft EPA report. Between the periods 1976-80 and 1988-94, hypertension among adults age 20-74 declined sharply from 30 percent to 23 percent after remaining relatively stable over the previous 20 years.

Mortality from HIV infection declined 48 percent in 1997 following a 29 percent decline in 1996. This 2-year decline contrasts sharply with the period 1987-1994 when HIV mortality increased at an average rate of 16 percent per year.

MEDLINEplus. National Library of Medicine. National Institutes of Health. Dept of Health and Human Services. U.S. www.nlm.nih.gov/medlineplus/
The National Library of Medicine brings MEDLINEplus to the web as a source of information for health care professionals and consumers. Resources include databases, publications, links to health organizations, directories of doctors and hospitals, and a dictionary of medical terms.

1. Hagt disease 2. Cancer

1 in 2 men

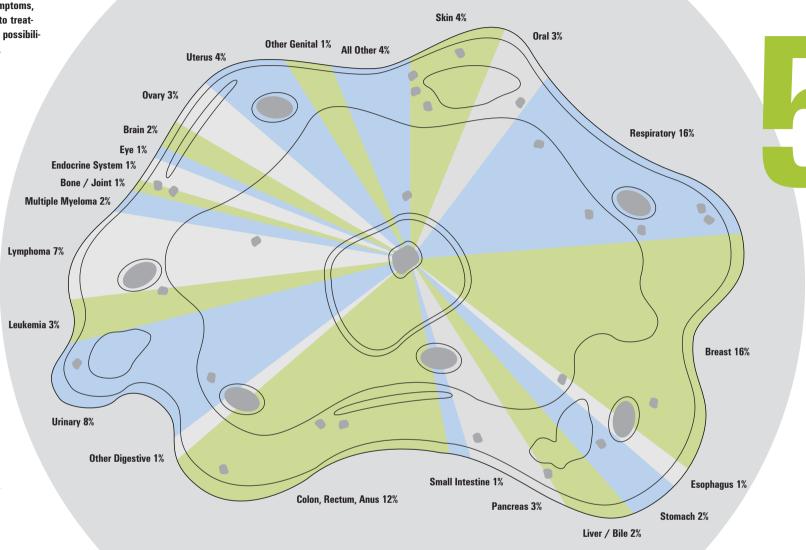
A U.S. male has a
1 in 2 probability of
developing invasive
Cancer at some
time during his life.

A disease characterized by the unrestrained growth of cells, Cancer remains the second leading cause of death in the United States. In 1996, 539,533 deaths resulted from this disease

Cancer afflicts
people of all ages,
races, and genders.
It varies greatly in
cause, symptoms,
response to treatment, and possibility of cure.

1998

1998 marked the first drop in the number of new cancer cases in almost sixty years. In the 1930s, only one in four American cancer patients survived at least five years after diagnosis. In contrast, four out of ten who get cancer now will survive the five years following diagnosis.



Cancer

Who gets it?
What kinds are there?
Are we winning the fight
against it?



Most common

The five leading types of Cancer and resulting deaths from each:

- 1. lung/bronchus 160,000
- 2. colon/rectum 56.500
- 3. breast (female) 43.900
- 4. prostate (male) 39,200
- 5. pancreas 28 900



1,500 Americans die daily

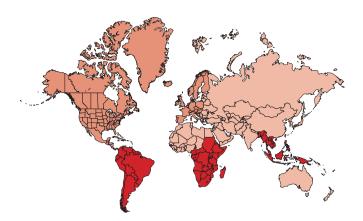
The facts

Common Cancers include blood and bone marrow, bone, lymph nodes, brain, sympathetic nervous system, kidneys and soft tissue. In the U.S. 1 out of 4 deaths is due to Cancer. In 1999, about 1,221,800 new cancer cases are excepted to be diagnosed.

As a childhood disease, Cancer is rare.

CancerNetTM. National Cancer Institute. National Institutes of Health. Dept of Health and Human Services. U.S. www.cancernet.nci.nih.gov/ CancerNet provides information, reviewed by oncologists, on cancer treatments, prevention, screening, and clinical trials for patients, health care professionals, basic researchers and the public.

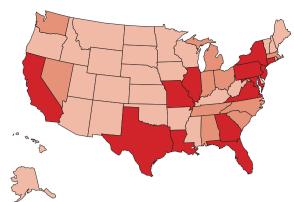
Cancer is treated by surgery, radiation, chemotherapy, hormones and immunotherapy. The National Institutes of Health estimate overall annual costs for cancer at 107 billion



In the world

30 million people are estimated to be infected with AIDS worldwide, the largest number of them residing in sub-saharan Africa.

- Red areas of the map show regions of the world with the highest number of adults and children living with the virus.
- Pink areas indicate lesser numbers of infected.



In America

- Red areas of the map to the left indicate 1,000 to 14,000 AIDS cases reported in the state.
- Dark pink areas indicate 500 to 1,000 cases reported.
- Light pink areas indicate 0 to 500 reported cases of the virus.

AIDS

Where is it?
Who has it?
What are the trends?

2

30.6 million

Infected

30.6 million people are estimated to be infected with AIDS worldwide. 860,000 are in North America. **27,000**Black Americans

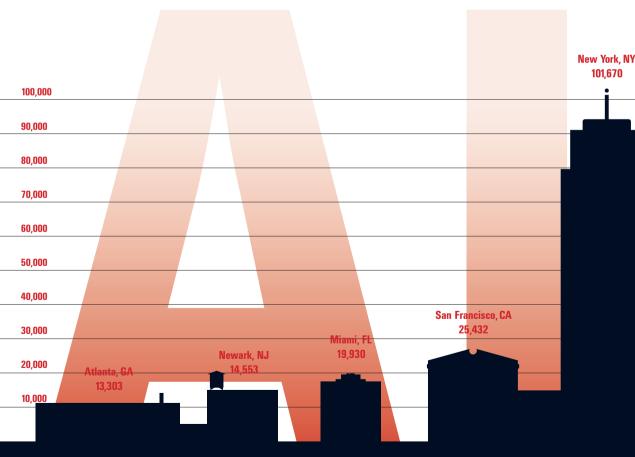
are HIV positive.

0,394

Hispanic Americans are HIV positive.

20,188White Americans

are HIV positive.



The facts

It takes an average of nine years for HIV to progress to AIDS. A well-known 1987 study in Rwanda showed that a woman had a 9 percent chance of infection if her husband was a farmer, a 22 percent chance if he was a solider, a 32 percent chance if he was a white collar worker and a 38 percent chance if he was a government official.

Los Angeles, CA 37,038 Washington, DC 18,564

of the American Medical Association.

American Medical Association.

American Medical Association.

Medical Association.

www.ama-assn.org/special/hiv/hivhome.htm

This site maintained by the editors and staff of the Journal of the American Medical Association, provides peer-reviewed resources on treatments, prevention, support, professional literature, and the latest news about AIDS and HIV.

American urban

In our

centers have
become hotbeds for
infection. In 1997
there were fourteen
U.S. cities with over
10,000 HIV or AIDS
infected people.
New York City has
by far the most
infected, with more
than the five next
highest cities com-

Houston,TX 16,048

An estimated 250,000 Americans do not know they are infected with the AIDS virus.

Philadelphia PA

14,8<mark>03</mark>

An analysis of a blood sample preserved since 1959 from the oldest documented case of infection with the AIDS virus called HIV-1 shows

Chicago, IL

17,692

that the first such infections probably occurred in people in the late 1940's or early 1950's.

Worldwide, 859,000,000 people have some sort of disability. In the U.S. 54,000,000 people live with a disability, making them the single largest minority group in the country.

54 million Americans

Of the millions of people limited in their activities by long term disability, 73% are heads of households, 48% are principal shoppers, 46% are married, and 58% own their own homes.

1 in 5 homes

has a disabled person living there.

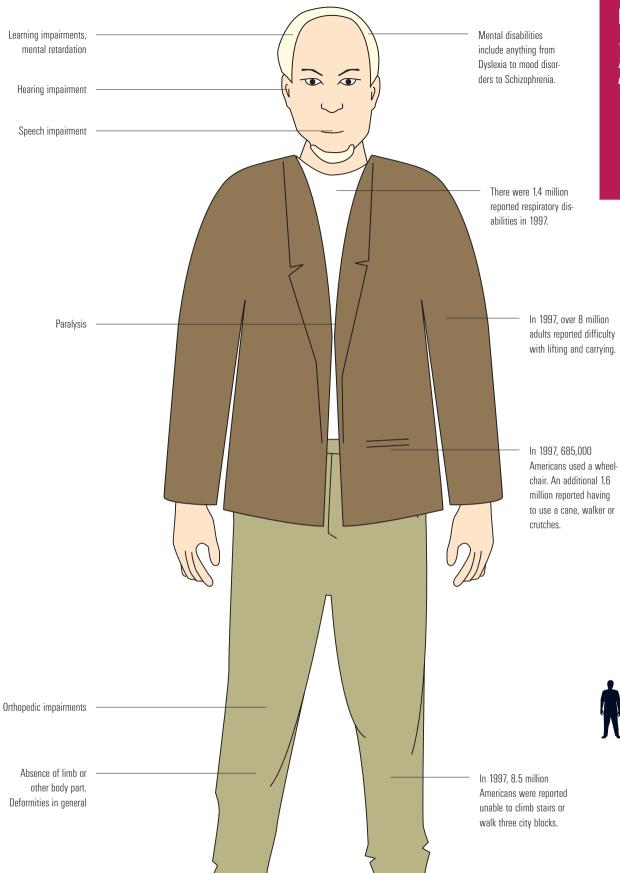












Disability

Who's disabled? How? How do the disabled support themselves?



The pay scale

For persons without a disability, the employment rate is 80.5%. For those with a severe functional limitation. however, the employment rate is only 27.6%. The average monthly income for a nondisabled person is \$2,446. For a person with a nonsevere disability it is \$2,006. A person with a severe disability only averages \$1.562 per month.

1 in 6 people

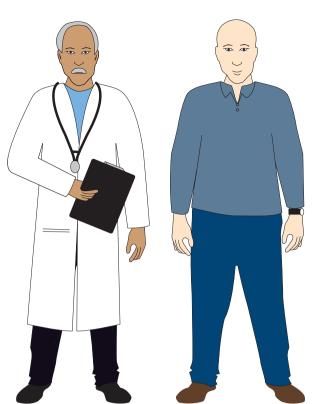
One in every six Americans will be disabled some time in his or her lifetime

The facts

More than 7 million people employ mobility devices such as crutches, canes, walkers, wheelchairs and scooters. It is estimated that at least one half of all non disabled adults have a disabled spouse, child, parent or friend. About a third of adults with disabtitlties go to a restaurant at least once a week. National Institute on Disability and Rehabilitation Research. Office of Special Education. Dept. of Education. U.S. www.ed.gov/offices/OSERS/NIDRR/Under the auspices of the Education Department, the National Institute on Disability and Rehabilitation Research coordinates research programs that aim to fully integrate and provide independent living for the disabled. Through their Doorways web site, consumers can access

The Americans with Disabilities Act gives civil rights protections to individuals with disabilities similar to those provided on the basis of race, color, sex, national origin, age, and religion. It guarantees equal opportunity for individuals with disabilities in public accommodations, employment, trans-

portation, State and local government services and telecommunications



Worldwide, only about 10 to 30% of health care is provided by conventional practitioners: the remaining 70 to 90% involves combinations with alternative practices. In the ILS over 50% of all physicians use or refer patients to alternative treatments. 1 in 3 Americans uses some form of alternative medicine. 40% of Dutch physicians use homeopathy; 70% of German pain clinics use acupuncture.

80% of medical stu-

dents would like

further training in

alternative medi-

medical schools would like further training in alterna tive medicine. Currently, over 32 medical schools offer courses in complementary. alternative and unconventional medicine.

developed in pharmacology, but combination approaches, that prove most useful for problems with complex causes. Usually these have fewer direct toxic side effects and may, if successful, cost less and therefore be preferable to

Doctor or "Doctor"

80% of students in

Often it is not the "magic bullets"

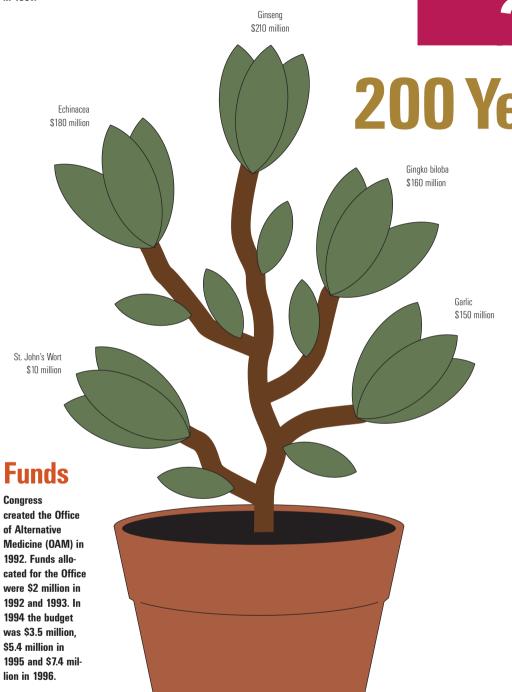
Medicinal herb sales in the U.S.

The U.S. herbal medicine industry is exploding. The graphic below shows total dollar amounts for specific medicinal herbs in 1997.

In addition to these, another \$2.4 billion was spent on all other types of medicinal herbs

Alternative Medicine

How popular is it? Is it for real?



Homeopathy has essentially continued unchanged for over 200 years. In general, the history of alternative medi cine is quite long. **Acupuncture has** been practiced for more than 2000 years and prayer, spiritualism, and shamanism have an estimated 20,000 year history.

Different strokes

Various U.S. alternative health services and the number of licensed practitioners in 1996.

Acununcture 8.000

Chiropractic 55,000

Homeopathy 1,000

Massage Therapy 200,000

Naturopathy 1,500

Osteopathy 41,600

The facts

Over 50% of

medicine

cians use some

sort of alternative

conventional physi-

Alternative medicine comprises a wide variety of healing philosophies, approaches and therapies. It includes treatments and health care

practices not widely taught in medical schools, not generally used in hospitals, and not usually reimbursed by health insurance

42% of all adults

alternative medical

therapy in 1997.

reported using

some type of

healthfinder®. Dept. of Health and Human Services. U.S www.healthfinder.gov healthfinder® is a gateway to consumer health information from various Federal Government agencies.

patients.

Health Topics A-Z. Centers for Disease Control and Prevention. Dept. of Health and Human Services. U.S. www.cdc.gov/health/diseases.htm An alphabetical approach, from Acute Care to Zoster, to finding information on diseases and other health topics is provided on this web site from the Centers for Disease Control and Prevention

The OAM averages over a thousand inquiries per month about alternative and complementary medical practice and research.

Approximately one million **Americans spend** \$500 million a year on acupuncture.

According to a March of Dimes survey, more than 40% of Americans think it would be okay to make their children more attractive or more intelligent.

was originally developed to correct facial deformities caused by war iniuries, but was soon used as a means of esthetic nerfection. Breast implants were developed to

reconstruct breasts in women who lost theirs to mastectomy Soon after they were inserted in women who simply wanted a larger cup size. Gene therapists foresee a time when some thing similar will happen with their

helieve it would he okay to use gene therapy to alter a child's aggression level or remove a disposition to alcoholism

Genetics may account for about **20% of the U.S. Gross Domestic Product, or roughly** \$2 trillion, by the year 2025.

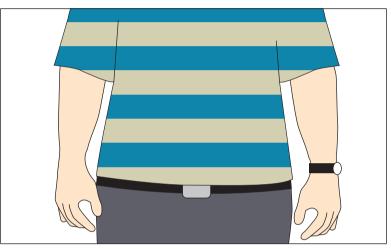
10% of the U.S. population agrees that using gene therapy to prevent a child from becoming homosexual would be a good

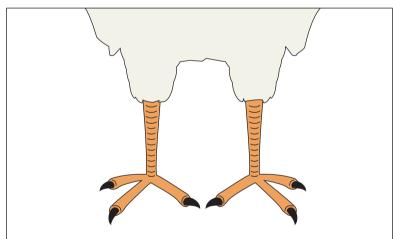
Few people question the value of correcting a gene for Sickle-Cell Anemia Cystic Fibrosis, Alzheimer's, Heart Disease, or Cancer.

But altering genes for the sake of appearance requires much thought debate, and ethical discussion.

Where will it lead? **Genetic Crossover**

technology too.





Smart!

Plants will give higher yields and natural processes such as ripening will be enhanced and controlled

Genetic **Engineering**

What is it? Where will it lead? What do we think about it?



Plants

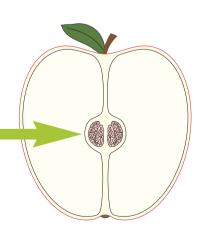
Soon, by means of genetic engineering, pheremones will be bred into plants as a means of pest control by luring insects and other pests away from their intended victims.

Humans

It is very possible that by the time our grandchildren reach adulthood, they could have almost complete control over exactly how their habies will look, think, and act.

Animals

Routine genetic programs will be used to enhance animals for food production, recreation, and even as pets.



The facts

would use gene

therapy to make a

child more physi-

cally attractive.

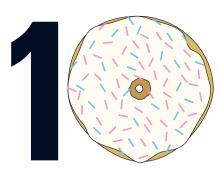
Several companies developing pigs with human genes in order to facilitate the use of the organs in humans. One day you may be able to own your own personal organ donor pig with your genes implanted. When one of your organs gives out, you have a back-up. Human Genome Project Information.
 Dept. of Energy and National Institutes of Health. U.S.

<u>www.ornl.gov/hgmis</u> The 13-year Human Genome Project aims to identify the more than 80,000 human genes and determine the sequences of some 3 billion DNA subunits and make them available for biological study. Publications on the research, ethical and social issues, and more on genetics is found at this site

Genetic Engineering technology poses a great danger

Fertility clinics are the wild card in Thev are among the most advanced, and least regulated, biotech research centers in the country.

Genetic engineering has been compared the printing press, the steam engine, the splitting of the atom and the



Fattest Cities:

New Orleans 37%
Norfolk 34%
San Antonio 33%
Kansas City 32%
Cleveland 32%
Detroit 31%
Columbus 31%
Cincinnati 31%
Pittsburgh 30%

Houston 29%

shows the country's fattest cities with the percentage of overweight Americans residing in each. According to the Federal Obesity Guidelines assessment of overweight involves evaluation of three key measures: hody mass index (BMI). waist circumference, and a natient's risk factors for diseases and conditions associated with obesity. Overweight is defined as having a BMI of 25 to 29.9 and obesity as a BMI of 30 and above, which is consistent with the definitions used in many other countries.

The list to the left

The average woman who considers herself over-weight is 28 lbs. over her ideal weight. The average overweight man is 24 lbs. too heavy.

Weight gain...

Between 1960 and 1994, the prevelance of obesity increased from nearly 13% to 22.5% of the U.S. adult population, with most of the increase occurring in the 1990's.

\$33 billion

spent on the diet industry annually

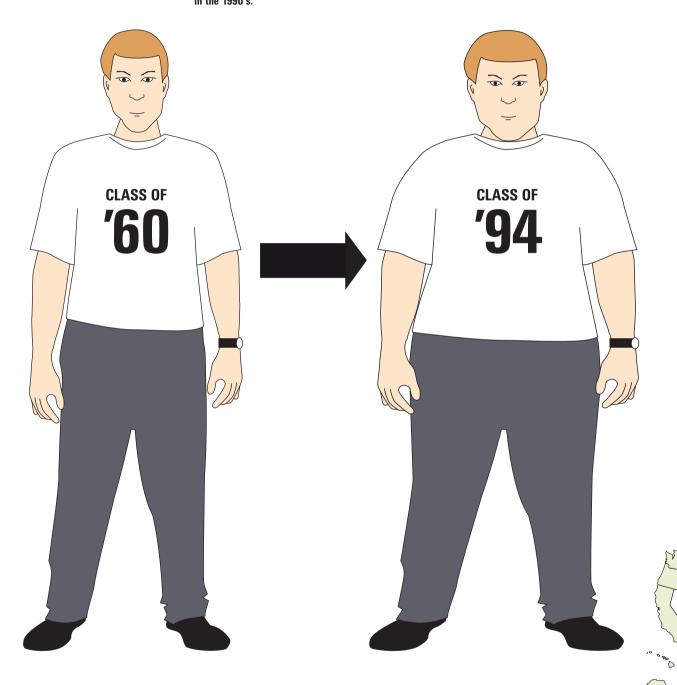
Dieting is big business in America. Between fitness videos, multivitamin drinks, and prescription medication, the decision to lose weight has become a largely financial

one.

Physical Fitness

How fat are we?
How much exercise do
we get?

2



The average American woman is 5'4" tall and weighs 142 lbs. But she'd like to be 5'6" and weigh 129. The average man is 5'10" tall and weighs 180. He'd like to be 5'11" and weigh 171.

Couch Potatoes

- In the dark green areas, 30% of the population reported no regular exercise or physical activity.
- The lighter green areas were slightly more active.

50% of all Americans are too fat.

The facts

Even though more than half of Americans want to lose weight, fewer than one in five is on a diet. 62% of women want to lose weight, and only 3% want to gain, leaving only about 1/3 of all woman happy with their weight. Men are slightly happier: only 42% of men would like to lose

weight, and 10% would like to gain. That leaves almost half of adult men happy with their weight.

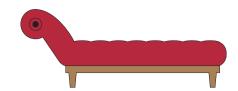
Physical Activity and Health: A Report of the Surgeon General. Public Health Service. Dept. of Health and Human Services. U.S.

www.edc.gov/necdphp/sgr/sgr.htm
This report summarizes research on physical activity from physiologists, doctors, and behavioral scientists and concludes that exercise and physical activity can improve the quality of life and improve one's health.

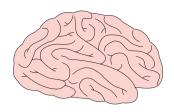
Individuals who exercise regularly are less likely to develop:

Heart disease
Diabetes
High blood pressure
High cholesterol
Certain Cancers





DISTA PROZAC 3150 20 mg



What problems and effects are found in older Americans?

What are we doing about it?

Mental Health

2

Almost one in six suicide. Depression elderly Americans increases the likelisuffer from serious. hood that a serious physical illness will persistent symptoms of depression, develop or get and many have worse and without treatment, greatly maior clinical impacts the lives of depression, an immobilizing disorthe elderly as well as their families. der that can lead to

in From 1980 to 1992,
suicide rates rose
by 9% among all
ill Americans 65 and
older, and by 35%
among those aged
80 to 84. Only a
small percentage of
those deaths are
believed to rep-

resent a calculated escape from an incurable illness. 40% of elderly suicide victims visit their doctors the week before. Rarely do the doctors detect the potential for suicide.

When the Utah division of Kennecott Copper Corporation provided mental health counseling for employees, its hospital medical and surgical costs decreased 48.9%.

The company claimed that costs dropped nearly 64.2%. In all, for every dollar spent on mental health care, the company saved \$5.78.

For millions of people in the U.S. and around the world, Prozac and similar drugs have delivered freedom from depression and the opportunity for a more productive life. These drugs

have not only helped those who are depressed, but also curbed suicide, hospitalization and mortality rates. Therapy, in combination with antidepressant drug breakthroughs has yielded a decrease of 48.6% in the number of prescriptions written to senior citizens according to a

recent Kaiser
Permanente study.
Other decreases
included 47.1% in
physician office visits, 45.3% in emergency room visits
and 66.7% in frequency of hospitalizations.

5 million Americans, age 65 and over, suffer from serious depression.

As many as 90% of depressed elderly Americans are not receiving treatment.

The facts

Following are various categories of mental health problems and examples of the types of conditions in each Anxiety Disorders:
Panic Disorder
Social Phobia
Obsessive
Compulsive Disorder
Acute Stress Disorder

Childhood Disorders: Conduct Disorder Attention-Deficit Disorder Tourettes Disorder Separation Anxiety Cognitive Disorders: Delirium Dementia Eating Disorders: Anorexia Bulimia Mood Disorders: Major Depressive Disorder Bipolar Disorder Personality Disorders: Paranoid Personality Schizoid Personality Avoidant personality

Psychotic Disorders: Schizophrenia Delusional



For the same amount we spend on health care, we could buy every man, woman and child in America a first class ticket from New York to Paris.

\$

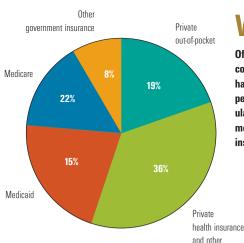
The average country spends \$1,728 per person per year on health care, 7.5% of the gross domestic product. Turkey spends the least at

\$260

In the United States, we spend each year an average of



per person on health care the highest in the world.



Who pays?

Of all industrialized countries, the U.S. has the lowest percentage of population with government-assured health insurance.

?

Where does the money go?

The Cost of

Health

Who pays?

How much?



Where it goes:

Hospitals 35%

Doctors 20%

Drugs 9%

Nursing Homes 8%

Home Care 3%

Dentists 5%

Vision Products 1%

Other 20%

Annual U.S. spending on health care now totals over

\$1,100,000,000,000

13.5%

The U.S. also spends a higher percentage of its gross domestic product on health care than any other country, which means it has less to spend on other goods and services.

Health care spending is slowing, but it is still expected to double—to \$2.2 trillion—by 2008.

The facts

Per capita health spending in 1997 ranged from a high of \$3,925 in the United States to a low of \$260 in Turkey. Switzerland was the second highest at \$2,547 per person.

At \$1,128, the United States had the highest daily hospital expenditures by a wide margin. Household Health Expenditure and Population Projections. Medical Expenditure Panel Survey. Agency for Health Care Policy & Research. Dept. of Health and Human Services. U.S. www.meps.ahcpr.gov/nmes.htm Papers and data on health care cost trends and projected expenditures to 2005 are provided by the Agency for Health Care Policy

and Research

Health Care Indicators. Health Care Financing Administration. Dept. of Health and Human Services. U.S.

www.hefa.gov/stats/indicatr/indicatr.htm Current data and analysis of health care spending, employment and prices are found in the Health Care Indicators. Health Information. National Institutes of Health Dept. of Health and Human Services. U.S.

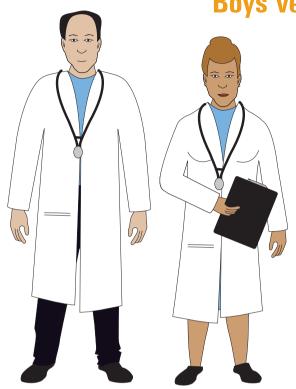
www.nih.gov/health/
Find consumer health information or conduct a literature search of the MEDLINE database of 11 million references at the Health Information page of the NIH web site

737,764 U.S. Physicians

The Business of Health

How much do doctors earn? What do we spend on hospitals?

Boys versus girls



79% 21%

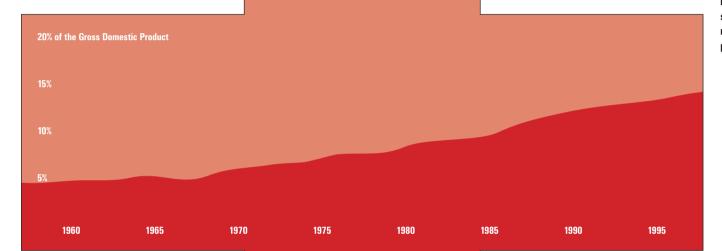
grew at double-digit rates

during almost every year

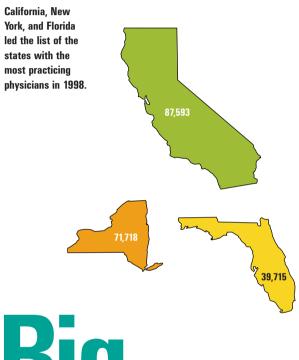
Prescription drug expenditures

In 1996 there were 580.377 practicing male physicians in the United States. There were 157.387 female physicians.

Of physicians under age 35 working in the U.S. in 1996. 64.4% were men and 35.6% were



The states of medicine



HMO's

The Blue Cross and Rlue Shield System led the list of national managed care firms ranked by total HMO enrollment as of January 1999. Aetna-U.S. Healthcare, Kaiser Permanente and **United HealthCare** rounded out the ton

Strictly business

the U.S., as com-

pared to 6.125 in

seems dispropor-

expenses totaled \$1.9 billion in 1946

and over \$330 hil-

that medical

lion in 1996.

tionate considering

1946. Such a figure

As shown below

industry has steadi-

ly become a solid

part of the U.S.

economy, repre-

senting close to

14% of the Gross

Domestic Product In 1996 there were

6.201 hospitals in

the health care

since 1980. In contrast, the growth of total national health expenditures actually decreased from 13% in 1980 to less than 5% in 1997.

A dangerous shortage of nurses

The facts

incomes for selected medical specialties: **General / Family** \$130,000 Surgery

\$215,000 **Internal Medicine** \$150,000 Radiology \$240,000

The nation's hosnitals are experiencing a shortage of registered nurses, espe cially the specialized, highly trained nurses who staff operating rooms.

intensive care units and pediatric wards for high-risk babies. Driven in part by an aging population and the turmoil in managed care, the shortage began a vear

ago in California, and this year it has touched nearly all acute-care hospitals, where patients go with strokes, heart attacks, and major surgery and that

employ nearly twothirds of all registered nurses.

Nancy M. Pindus and Ann Greiner. Effects of Health Care Industry Changes on Health Care Workers and Quality Patient Care: Summary of Literature and Research. Urban Institute. www.urban.org/health/pindus.htm
This is a review of the literature and research on how the changing workforce and labor market effects the quality of patient care and safety of health care workers and how this information can be used to reform the health care industry. of the uninsured were Non-Hispanic Whites under the age of 65.

16.5% of the uninsured were Black Non-Hispanic Americans 4.8% were Asian/Pacific Islanders.

Insurance

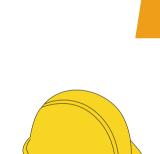
Who's covered?
Who's not?
Why?

?

In 1997,

Americans had no health insurance coverage.

Groups most likely to lack coverage include young adults, persons of Hispanic origin, part-time workers, and foreign-born people.



Covered at work

Employment is the leading source of health coverage for Americans. In 1997, 61.4% of the entire U.S. population had health insurance coverage obtained through an employer. Most people were covered by a private

insurance plan for part or all of the year. Among the general population, 18- to 64-year old workers (both full-and part-time) are more likely to be insured than those who do not work. But, among the poor,

workers are less likely to be covered than nonworkers. About 49.2% of poor full-time workers lacked insurance in 1997. 1.2% were American Indians.

24.3% of the uninsured were Hispanic-

Americans.

The facts

Among persons under age 65, 18.3% were uninsured in 1997, compared with 14.8% a decade earlier. Because of Medicare, only 1% of persons ages 65 and older have no health insurance coverage. Medicare. Dept. of Health and Human Services. U.S.

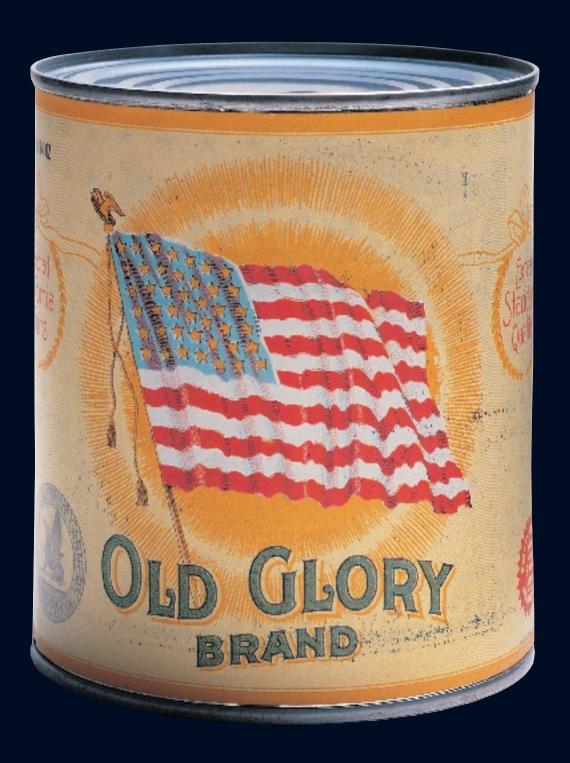
www.medicare.gov/
Medicare, administered by HCFA, provides health insurance to Americans over 65 and with certain disabilities and is the largest health insurance program in the United States. Their official web site contains reports, current and proposed health plans, contacts, and tips on how to avoid fraud.

Despite the Medicaid program, about 31.6% of the poor (11.2 million) had no health insurance of any kind during 1997.

Poor people comprised 25.9% of all uninsured people.

Enacted jointly with Medicare in 1965, Medicaid provides federal matching funds to states to help pay the cost of medical care and services for lowincome persons.
In 1996, 36.1 million
aged, blind, disabled, or poor persons with families
received Medicaid
benefits at a total
cost of \$122 billion.

Almost half of those who are now 65 will eventually need some kind of nursing home care; 40% of them will pay for this service through Medicaid



Kit Hinrichs

War

What are the human and financial costs to the citizens of the United States?

Nuclear Arms

What are the human and economic costs of nuclear weapons, and what is the current threat to the world?

Armaments

The U.S. manufactures, stockpiles and distributes more armaments than any other country. Has it made us more secure? How big is the U.S. arsenal, what kind of weapons does it include and how much does it cost?

National Defense

What are the human and financial costs of national defense to the citizens of the United States?

Terrorism

How has the threat of terrorism changed our view of our international neighbors and ourselves?

Biochemical Weapons

How dangerous are biochemical weapons? Who is at risk? Are we prepared for an attack?

Human Rights

Where does the United States stand in the struggle for human rights internationally and at home?

International Affairs

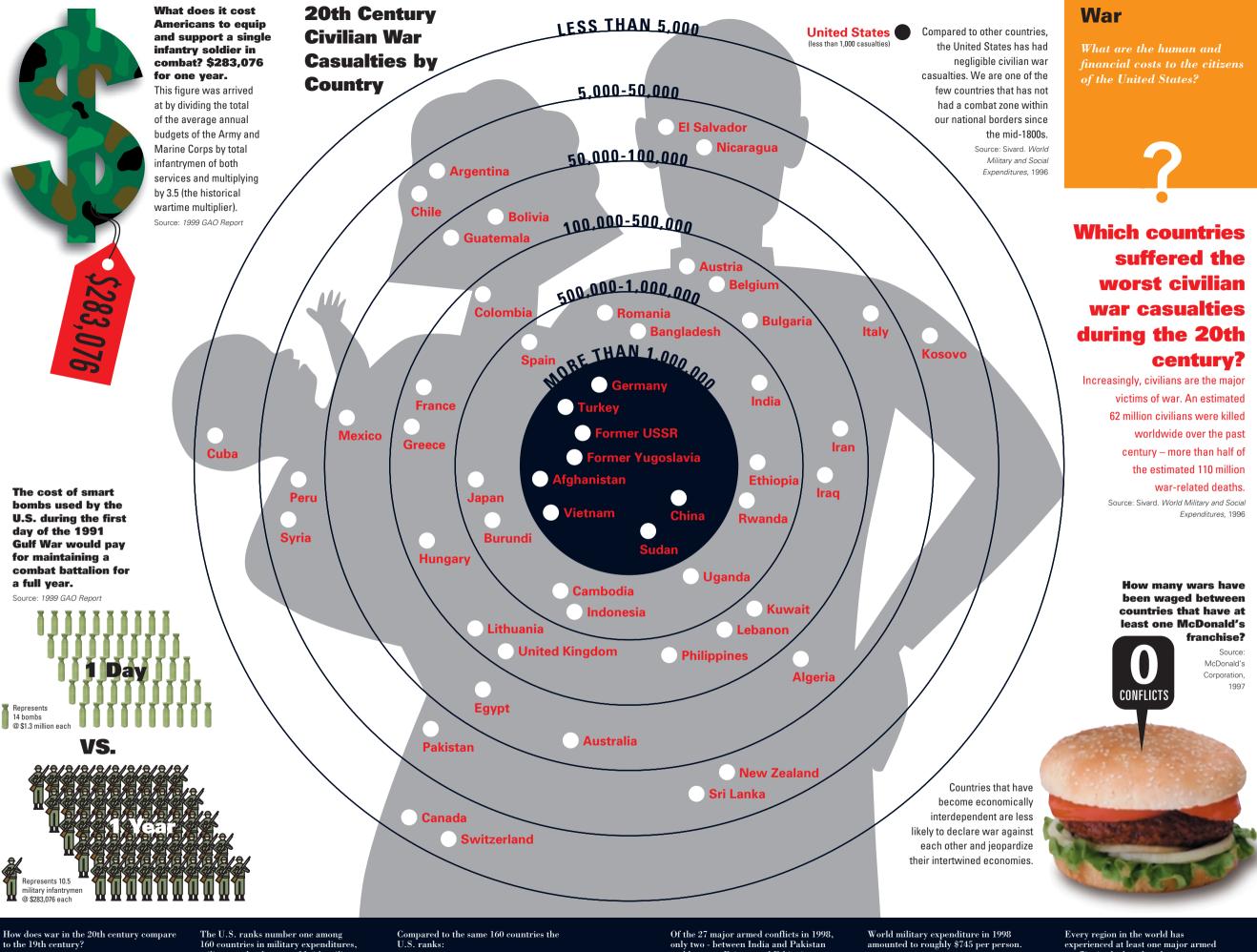
Is the United States a good global citizen?

Intelligence Community

Is the U.S. getting the most accurate, cost effective, relevant information from its intelligence agencies?

Hunger

How does the U.S. stack up in the fight against domestic and international hunger?



How does war in the 20th century compare

There have been six times as many deaths per war in the 20th century. No other century on record equals the 20th in uncivilized violence, number of conflicts waged, hordes of refugees created, or

Source: Sivard. World Military and Social Expenditures, 1996

military technology, worldwide military bases, military aid, combat aircraft, and arms exports.

Source: Sivard. World Military and Social Expenditures, 1996

39th: Students per teacher 39th: Population per physician

Contraceptive usage Public education spending per capita

Source: Sivard. World Military and Social

only two - between India and Pakistan and between Eritrea and Ethiopia - were between sovereign states. All the others were internal conflicts.

Source: SIPRI Yearbook 1999 (Stockholm International Peace Research Institute)

Source: SIPRI Yearbook 1999 (Stockholm International Peace Research Institute)

conflict in the last decade.

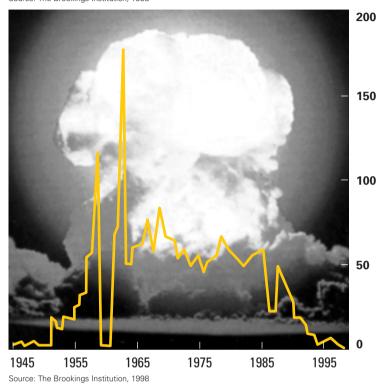
Source: 1999 Info Please Almanac

Nuclear Nations

How many nuclear weapons have been detonated worldwide since 1945?

Approximately 2,050 nuclear tests have been conducted since the end of WWII.

Source: The Brookings Institution, 1998



China: 400

United Kingdom:

What is the annual cost per capita of all U.S. nuclear weapons and related programs? It costs each American approximately \$130 per year for a total of \$35.1 billion.
Estimated spending for 1998.
Source: World Almanac, 1999

Chireu orares, 10,925

How many nuclear arms are maintained around the world and which countries acknowledge possessing them?

Five nations acknowledge nuclear arsenals: Russia, United States, France, China and the United Kingdom. India and Pakistan are considered "Nuclear Threshold" countries, having tested but not deployed weapons.

Source: National Resources Defense Council; Congressional Budget Office

Since 1940, the United States has spent over \$5.5 trillion on nuclear weapons. That is equivalent to the total national debt in 1998.

Source: The Brookings Institution, 1998

The world stockpile of nuclear weapons, after recent reductions, still represents over 700 times the explosive power used in the 20th Century's three major wars, which killed 44 million people.

Source: Sivard. World Military and Social Expenditures. 1998

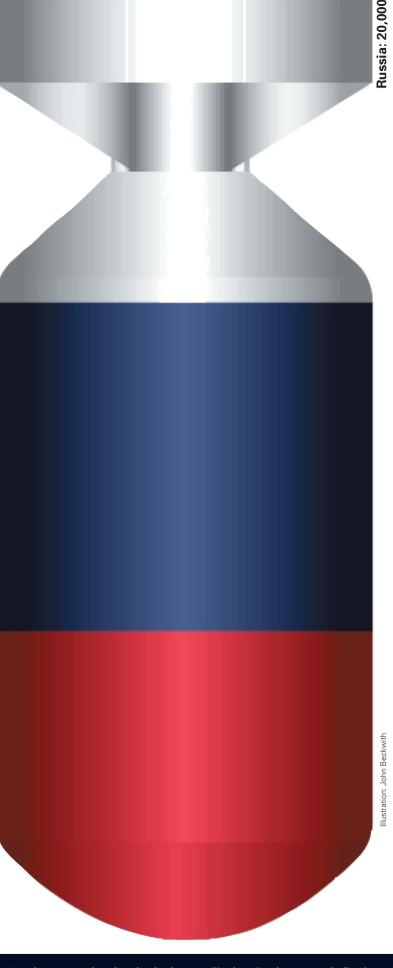
Total land area occupied by U.S. nuclear weapons bases and facilities: 15,654 square miles.

Total land area of the District of Columbia, Massachusetts and New Jersey: 15,357 square miles.

Sources: U.S. Nuclear Weapons Cost Study Project; Rand McNally Road Atlas and Travel What is the largest U.S. nuclear explosion

15 megatons on March 1, 1954

Source: U.S. Department of Energy



11 nuclear weapons have been lost by the U.S. by accident and never recovered.

Source: U.S. Department of Defense; Center for Defense Information; Greenpeace; *Lost Bombs*, Atwood-Keeney Productions, Inc. 1997

Number of nuclear tests in the Pacific: 106. Number of tests in Nevada: 911. Total number of tests in Alaska, Colorado, Mississippi and New Mexico: 10.

Source: Natural Resources Defense Council, Nuclear Weapons Databook Project

Nuclear Arms

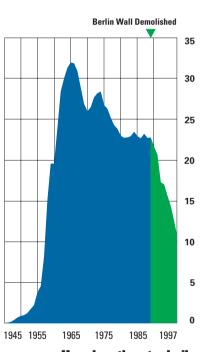
What are the human and economic costs of nuclear weapons, and what is the current threat to the world?



Where does the U.S. store its nuclear arsenal and how many missiles are in each state?

New Mexico	2,450
Georgia	2,000
Washington	1,68
Nevada	1,35
North Dakota	1.140

Source: National Resources Defense Council, 1998



How has the stockpile of nuclear weapons changed since the fall of the Berlin Wall?

There has been a reduction of 4,390 weapons in nuclear stockpiles since 1989.

Source: The Brookings Institution, 1998

The U.S. has paid \$802,834,827 to the Marshallese Islanders to compensate them for damages from nuclear testing in 1956.

Source: U.S. Department of Justice, Torts Branch, Civil Division

Today's American soldier is the most lethal in U.S. history - with a destructive force over 332 times greater than a **Revolutionary War** soldier.

Source: Dupuy, Evolutions of Weapons and Warfare, 1987

Equipping America's Fighting Man 1776-1999

Civil War Rifled musket

and one cannon per 500 men. **Revolutionary** Hardtack biscuit, Musket and bacon and bread. support of one Supplies for one

cannon per 750 men. Food for 2-3 days.



wwi Bolt action, breech/magazine loading rifle, grenades, support of machine gun and artillery.



wwii

Semi-automatic and automatic rifles, grenades, land mines, machine guns, medium and long-range artillery. Supplies for 3-5 days of combat. Close air support contributes to firepower.



1970

Automatic rifles, grenades, land mines, machine guns, medium and long-range artillery. rocket artillery. anti-tank guided missiles (ATGMs). Supplies for 2-3 days of intensive combat. Close air support contributes greatly to ground firepower.

> infrared night vision devices. Today's soldier can carry supplies for 2 days of combat the same as a WWII soldier - due to the high rate of fire/rapid ammunition consumption of current weapons. Helicopters and tracked vehicles make it much easier to supply infantrymen.

1999

Automatic rifles, grenades, land mines, machine guns, artillery, airpower, ATGMs, smart munitions, Individual GPS navigational system, laser targeting systems,



Armaments

stockpiles and distributes



The U.S. is the leading manufacturer and exporter of arms - 4 times greater than its next largest competitor.

Top ten exporters of armaments worldwide

























Saudi Arabia



of armaments

China

worldwide



















Australia Kuwait

Source: U.S. States Department, WMEAT 1997

During President Clinton's first year in office, U.S. arms sales more than doubled. From 1993 to 1997, the U.S. government sold, approved, or gave away \$190 billion in weapons to virtually every nation on earth.

Source: MoJo Wire (Mother Jones Online) 1999

The U.S. has over 50% of the world arms

Source: MoJo Wire (Mother Jones Online) 1999

The U.S. has not been shy about arming potential foes in regional conflicts. For example, two of America's biggest arms customers are Greece and Turkey, which have been threatening to go to war with each other for decades over the tiny Mediterranean island of Cyprus

Source: MoJo Wire (Mother Jones Online) 1999

The Pentagon has been running a giant garage sale to unload its large overstock of dated but still lethal weapons and spare parts. Leading recipients include: Mexico, Colombia, Peru, Egypt, Israel, Jordan, Bahrain and Turkey – all countries where serious political repression and/or human rights violations were reported.

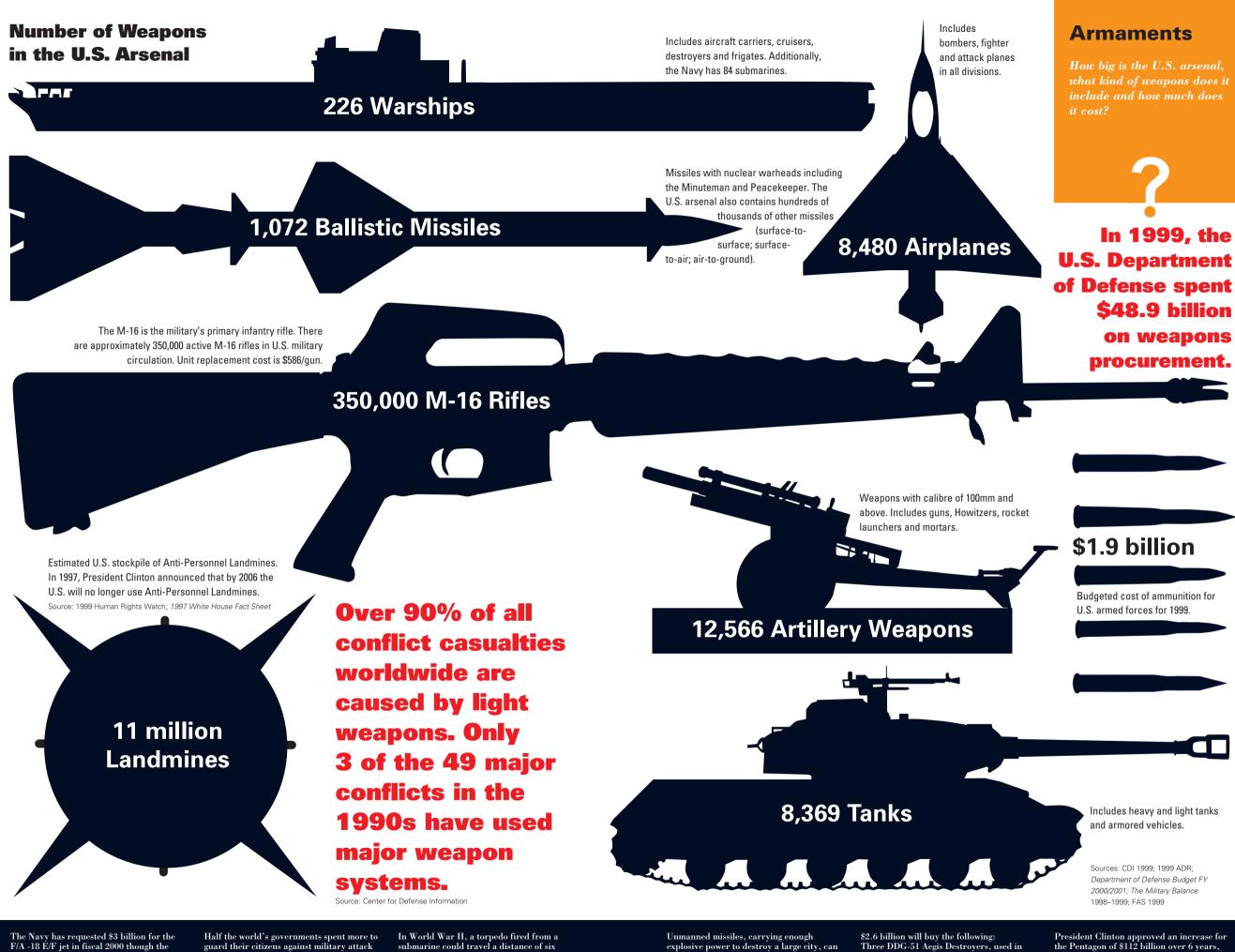
Source: 1999 Federation of American Scientists

24 governments and one insurgent group are ineligible to import any American weapons due to U.N. Security Council-mandated arms embargos.

Source: 1999 Federation of American Scientists; State Department Embargo Reference Chart

In 1996, the United States ranked 39th in the world in military expenditures as a percentage of Gross National Product.

Source: 1999 Info Please Almanac



The Navy has requested \$3 billion for the F/A -18 É/F jet in fiscal 2000 though the plane is underperforming and over budget, while veteran's groups estimate that the fiscal 2000 budget is almost \$3 billion less than is needed to adequately address the health care needs of our nation's veterans

Half the world's governments spent more to guard their citizens against military attack than to protect them against all the enemies

Source: Sivard. World Military and Social

In World War II, a torpedo fired from a submarine could travel a distance of six miles; today's sea-launched cruise missile can hit the bull's eye 1,500 miles away.

Source: Sivard. World Military and Social

Unmanned missiles, carrying enough explosive power to destroy a large city, can now reach any point on the globe in less than 30 minutes.

Source: Sivard. World Military and Social Expenditures, 1996

\$2.6 billion will buy the following: Three DDG-51 Aegis Destroyers, used in multi-threat environments that include air, surface and sub-surface threats.

Immunization program with added vaccines and micronutrients for the world's children.

Source: Council for a Livable World

the same amount the General Accounting Office has estimated that it would cost to renovate and upgrade our schools

Source: Sivard. World Military and Social

Source: Council for A Livable World



Uncle Sam was Samuel Wilson, an honest, hardworking meat packer from Troy, New York. He supplied meat to the U.S. Army during the war of 1812.

Source: The Lemmelson-MIT Awards Program's Invention Dimension website

The American flag was designed by a naval flag designer named Francis Hopkinson, whom the U.S. Government did not compensate for his services. Old Glory has inspired several other flags, including those of Chile, Liberia, Malaysia, and Puerto Rico. Between 1980 and 1990, the armed forces discharged an average of 1,500 service members annually for being gay.

Since the end of the Cold War, active duty troops in the U.S. military have been reduced by about one-third, from 2.1 million in 1987, to 1.4 million in 1997.

Source: Public Agenda 1999



United States Institute of Peace www.usip.org/
An independent, nonpartisan federal institution created and funded by Congress to strengthen the nation's capacity to promote the peaceful resolution of international con-

Dept. of State. U.S. www.state.gov/
The lead federal institution for the conduct of American diplomacy.

National Defense

What are the human and financial costs of national defense to the citizens of the United States?



Decrease in defense spending since the fall of the Berlin Wall:

Nearly 40%, from \$400 billion to \$250 billion. Source: Public Agenda 1999

Number of active personnel in the Marines: 171,300 Of this, 5% are

women.

5 cents for the Marine Corps

U.S. M.C.

What percentage of the **American public fears** a foreign-sponsored terrorist attack?

Source: Princeton Survey/Pew Research Center 9/97

What percentage of the American public fear a domestic terrorist attack?

Source: Princeton Survey/Pew Research Center 9/97

Between 1982-1994. 2 in 3 what percentage of terrorist attacks in the **U.S.** were domestic?

> Source: Federal Bureau of Investigation





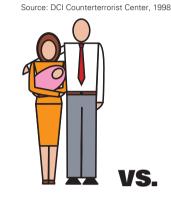
40 percent of the **273** terrorist attacks worldwide were directed against U.S. targets.

In 1998.

By percentage, what are the most commonly used weapons in terrorist attacks?

Includes attacks against U.S. facilities and attacks in which U.S. citizens suffered casualties.

Source: 1998 Patterns of Global Terrorism, State Department Report



Terrorism

of our international neighbors and ourselves?

Terrorist attacks kill more

personnel by a ratio of 4 to 1.

civilians than military

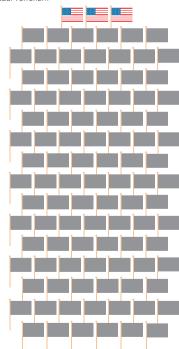
terrorism changed our view

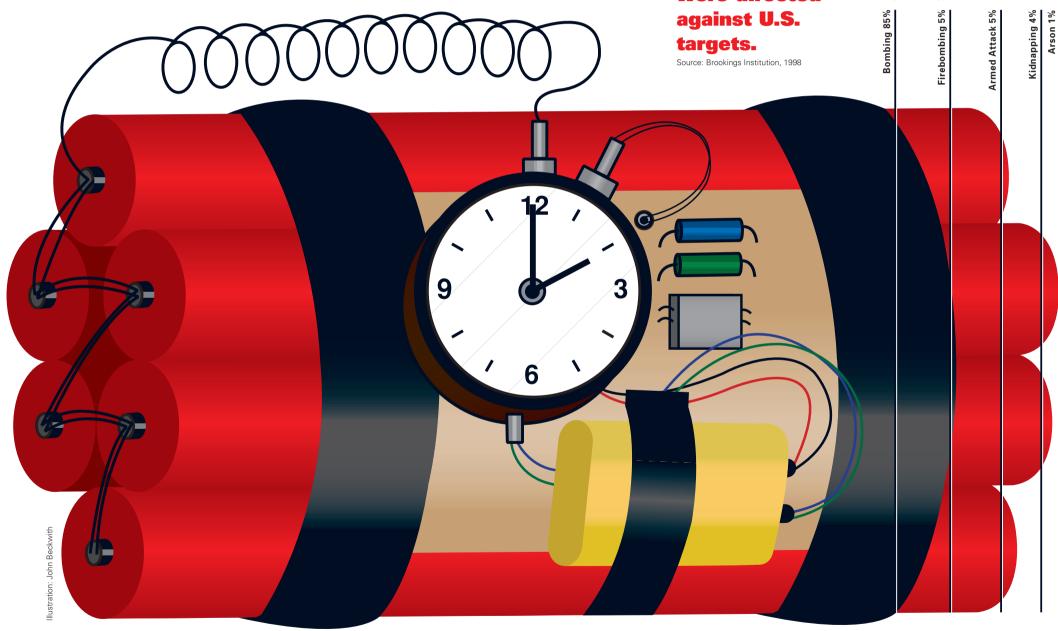


Worldwide, what are the odds that an American will be killed in a terrorist attack?

Of the 741 people killed in terrorist attacks in 1998, only 3 percent were Americans.

Source: U.S. State Department, 1998 Report on Global Terrorism





How many acts of terrorism occur each year worldwide?

In 1998, there were 273 international terrorist attacks. Of these, 40 percent were directed against U.S. targets.

Source: U.S. State Department, 1998 Report on Global Terrorism

Cyberterrorism is a threat. The U.S. is at risk of cyberterrorist attacks that could shut down utilities, air traffic control and other services. U.S. law enforcement agencies are 5-10 years behind international criminals in electronic capabilities.

Source: Center for Strategic and International Studies, 1998

How many U.S. cities have received training and equipment in the event of a nuclear, biological or chemical attack?

At the end of 1998, 40 cities had received training. Each city receives \$300,000 in conjunction with training from the Department of Defense for personal protection, decontamination and detection

Source: Center for Nonproliferation Studies

What percentage of Americans believe that it is likely that terrorists will explode a nuclear bomb within the next ten years in the United States?

23% 27% 24%

23%

Very likely to happen Fairly likely Fairly unlikely Very unlikely

Source: Gallup Organization, 6/98

What regions of the world have the highest incidents of terrorism against the U.S.?

Latin America Western Europe Middle East Africa Eurasia

Source: U.S. State Department, 1998 Report on

The bombing of the Federal Building in Oklahoma City on April 19, 1995, killing 168 people and wounding hundreds, was the largest act of domestic terrorism in U.S. history.

Source: Federal Bureau of Investigation, 1997 Terrorism in the United States

What would it cost to launch a major attack against a civilian population?

It would cost as little as \$1 to disperse a deadly biological agent over 1 square kilometer.



ONE SQUARE KM

As a threat to human life, biological weapons are on a scale comparable to nuclear weapons as a means of mass destruction.

Source: Crimes of War, Gutman & Reiff



Which nations have stockpiled chemical or biological weapons?

Countries known to possess or to be actively seeking some form of biochemical weapons capability: China, Iran, Iraq, Israel, Libya, North Korea, Russia, South Korea, Svria, Taiwan and the United States.

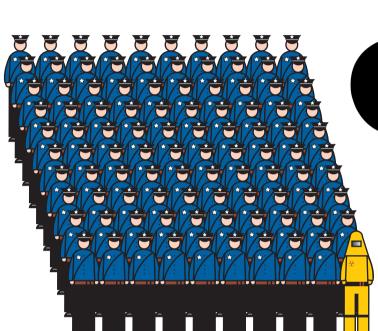
Source: Center for Defense Information; 1999



Biochemical

Weapons





What percentage of police departments nationwide have had training in biological weapon attacks?

A sampling of police departments revealed that only 1.12 percent of police personnel have had biological weapons training.

Source: Center for Nonproliferation Studies, Monterey Institute of International



Anthrax, Cholera, Plague, Botulism (Botulinum Toxin), Tularemia, Variola (Smallpox), Ricin (Toxin), Q Fever, Staphylococcal Enterotoxin B (Toxin), Brucellosis, Venezuelan Equine Encephalitis, Tricothecene



What percentage of **U.S.** ground personnel suffer from the effects of **Gulf War Syndrome?**

1 in 7. Although the Persian Gulf War ended in 1991, approximately 100,000 American veterans continue to experience unexplained health problems.

Source: CNN Interactive, 1999

Which biological agents pose the greatest threat to the **United States?**

Anthrax and smallpox are recognized as the agents of choice for terrorists. Anthrax is very durable and persistent in the environment and fatal if inhaled. Smallpox is highly contagious and there is no known medical treatment.

Source: Office of the Surgeon General, U.S. Army, 1977

> 18 acts of biochemical terrorism were reported to law enforcement officials in the U.S. between 1960-1998.

Source: Center for Nonproliferation Studies, Monterey Institute of International Studies.

The U.S. military is vaccinating all troops against anthrax and has begun a \$322 million program to build stockpiles for 18 other vaccines, including one to

Source: New York Times, The Threat of Germ Weapons is Rising. Fear, Too. Broad and Miller, 12/27/98

What is VX?

The chemical agent VX is one of the deadliest nerve agents known to humankind, especially when applied to the skin. A 10-milligram drop on the skin can kill an adult human in 15 minutes

Source: Biological Agent Information Papers.

U.S. Army Institute of Infectious Diseases

Source: New York Times

How many arrests are made in America each year for possession or threatened use of biological weapons?

This information is difficult to obtain due to its sensitivity. In 1995, there were 3 arrests made for possession of a biological agent.

Source: FBI Threat Assessment

What percentage of the Pentagon's daily Gulf War records of soldiers' chemical exposure is missing?

Source: Gulf War Research Foundation

Spies and satellites are only marginally helpful for ferreting out biological gear as small as kitchen cookware that is easy to hide and whose purpose can be peaceful (unlike the nuclear arms, bombers, ships, and missiles of the Cold War).

Source: New York Times, The Threat of Germ Weapons is Rising. Fear, Too. Broad and Miller,

combat smallpox.

Basic Human Rights Performance Ranking by Country

- 1. Sweden
- 2. Finland
- 3. Switzerland
- 4. Netherlands
- 5. Norway
- 6. Denmark
- 7. Japan
- 8. Canada
- 9. West Germany
- 10. Australia
- 11. France
- 12. United Kingdom
- 13. Belgium
- 14. Austria
- 15. Hong Kong
- 16. Irish Republic
- 17. New Zealand
- 18. Spain 19. Greece
- 20. United States
- 21. Portugal /
- 22. Israel
- 23. Italy
- 24. Uruguay
- 25. Costa Rica
- 26. Mauritius
- 27. Argentina
- 28. Hungary
- 29. Venezuela
- 30. Dominican Republic
- 31. Trinidad
- 32. Panama
- 33. Ecuador
- 34. Jamaica 35. Botswana
- 36. East Germany
- 37. Kuwait
- 38. Singapore
- 39. Congo 40. Senegal
- 41. Gambia
- 42. Sierra Leone
- 43. Algeria
- 44. Czechoslovakia
- 45. Bulgaria
- 46. Brazil
- 47. South Korea
- 48. Jordan
- 49. Saudi Arabia
- 50. Cameroon

Source: World Bank, World Development Report (1986): World Bank, World Tables, 1985-1986

Of 62 foreigners on death-row in the U.S. most were effectively denied access to consular assistance, in violation of the Vienna Convention on Consular Relations

Source: Amnesty International Report 1998

Human **Rights Abuses**

Asylum-seekers detained

Since 1996, there has been a 75% increase in immigration detainees in the U.S., over 6,000 of whom are held in local jails. For many, their sole crime is travelling

without papers. Source: The Lancet, Human Rights in the U.S.A.: Land of the

Police Brutality

Every year there are thousands of reports of assault and ill-treatment by police. There is no reliable national data, but inquiries into some of the largest urban police departments have uncovered systematic

brutality.

Human rights abuses are known to occur throughout the world, including in the U.S. However, hard evidence and quantifiable statistics have been difficult to gather, and human rights groups have relied primarily on anecdotal accounts.

Treatment of Prisoners

Restraint chairs specially designed chairs to immobilize inmates – are widely used in U.S. prisons despite known dangers.

Death Penalty

In 1998, 68 people were executed in the U.S., bringing the total number executed since 1977 to 500. More than 100 countries have abolished the death penalty.

Children in Jail

No official statistics are available, but it is believed that at least 3,500 juveniles (18 and under) are being held with the U.S. general prison population.

Source: Amnesty International Report, 1999







Illustration: John Beckwith



Human Rights

States stand in the struggle for human rights



States or districts which have enacted laws banning discrimination on the basis of sexual orientation (listed by date of enactment):

District of Columbia Wisconsin Massachusetts Connecticut Hawaii **California New Jersey** Vermont Minnesota **Rhode Island New Hampshire** *Maine

*Maine enacted and then rescinded its law. Source: National Gay and Lesbian Task Force

76% of Black Americans and 61% of White Americans feel that the civil rights movement has had a positive effect on the United States.



Cincinnati's human rights ordinance has the nation's only provision forbidding discrimination against Appalachian

Amount of annual

cited for torture

largest traders cited.

U.S. trade with countries

\$400,000,000,000. Mexico, South

Korea and China are among the

the United States, Commerce Department

Source: State Department/Statistical Abstract of

American Friends Service Committee www.afsc.org/

A Quaker organization which includes people of various faiths who are committed to social justice, peace and humanitarian ser

The Federal Government will spend over \$1.7 trillion in 1999. Of that amount, \$19.5 billion (.01% of the total) will go to international affairs.

Source: U.S. Budget for FY 2000 Historical Tables

What percentage of U.N. peacekeeping forces are U.S. military personnel?







How many embassies, and consulates does the United States maintain around the world?

155 posts in six regional groupings.

Estimated figure for 1999. Source: Embassy World, 1999

What percentage of the total annual U.N. budget is assessed to the U.S.?

The United States is only responsible for 25% of the U.N.'s regular peacekeeping budget. To date, the U.S. owes the U.N. over 1.3 billion dollars in dues.

Source: United Nations

Source. Officed Nations

International Affairs

Is the United States a good global citizen?



How much do we spend on worldwide refugees vs. peacekeeping forces?

The U.S. spends \$670 million on refugees and \$231 million on peacekeeping forces, a 3 to 1 ratio.



Estimated figure for 1999. Source: Where do U.S. Diplomats Work/Summary of Positions, State Department.

1999 Export-Import Figures



25%

In 50 years of peacekeeping, over 750 military and civilian personnel from 118 countries have served in 49 operations.

Source: SIPRI Yearbook 1999 (Stockholm International Peace Research Institute)

Over 52 million Americans traveled overseas in 1995.

Source: 1998 Statistical Abstract of the United States, U.S. Census

Total U.S. payments to the U.N. are less than one-quarter of one percent of the federal budget.

Source: United Nations

Arms Control and International
Security. Dept. of State. U.S.

www.acda.gov
The missions of arms control, nonproliferation, and political-military affairs will be under the policy oversight of the Under Secretary of State for Arms Control and International Security.

There are over 85 million fingerprints in the FBI's files that belong to people who have never been convicted of a crime. That is one in every 3 Americans. Source: Federal Rureau of

Investigation

What was the

number of federal wiretap warrants

granted for

investigations

Source: Legal Times/

Federal Bureau of

Investigation

criminal

in 1996?

How many years of legal action did it take to get the CIA to release the annual U.S. intelligence budget in 1997?

Source: Tim Weiner, Blank Check: The Pentagon's Black Budget, Warner Books/Center for National Security Studies/Central Intelligence Agency

30 Years

1,000 Informants

How many CIA informants have been laid off since 1995?

Source: Central Intelligence Agency

> **\$26.7** Billion What was the budget for all **U.S.** government intelligence

and intelligencerelated activities in 1998? Source: Central Intelligence

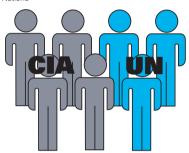
Intelligence **Community**

Is the U.S. getting the most accurate, cost effective, relevant information from its intelligence agencies?



Ratio of the number of CIA employees to the number of U.N. employees, worldwide: 4 to 3

Source: Jeffrey T. Richelson, The U.S. Intelligence Community/United



The CIA has requested exemptions for 2 out of 3 documents scheduled to be declassified under the Freedom of **Information Act in 2000.**

Source: Central Intelligence Agency

839Warrants

granted for espionage investigations by the U.S. Foreign Intelligence Surveillance Court?

How many

581 Warrants

Agencies

warrants were

Source: Legal Times/ Federal Bureau of Investigation

Zero

How many U.S. citizens were officially spied on by the CIA?

Source: Central Intelligence Agency The U.S. intelligence budget in 1998 was roughly equivalent to the gross domestic product of Zimbabwe - a country of 11.1 million inhabitants.

Source: 1999 Central Intelligence Agency Factbook

How many U.S. government agencies and organizations carry out intelligence activities?

Source: Director of Central Intelligence, 1999

Number of DNA samples collected from convicted serial criminals: 6,000.

Source: Federal Bureau of Investigation

Estimated number of federal fugitives eligible for the FBI's Ten Most Wanted list is more than 6,000.

Source: Federal Bureau of Investigation





undernourished people were gathered together (into a new country), it would be the third most populous nation just behind China and India.

> Insecurity in the World, 1998; 1998 BBC News

Hunger

How does the U.S. stack up

in the fight against domestic

and international hunger?

U.S. shipments of surplus food abroad include more than 2 million metric tons of bread and flour yearly, enough to bake about 600 loaves of bread a year for every hungry child in the **United States.**

Source: World Hunger: 12 Myths, Lappe, Collins, Rosset, 1998

What percentage of food bank clients are children and seniors?

51% are

About half of the U.S. households that report experiencing hunger receive food assistance from the federal government. 51% of food bank clients are children and seniors.

Source: Could There Be Hunger

It is impossible to talk about hunger without talking about poverty. More than 36 million Americans are poor; most of them are children.

Source: Hunger in America

Inequality exists not only between countries, but also within countries between the wealthy and poor. In the U.S., 29% of children are hungry or at risk of hunger, and the child poverty rate is double that of any other industrial country.

Source: World Socialist Website, 1997

 $4.4 \ \mathrm{billion}$ people live in developing countries and one third survive on less than \$1 per day.

Source: The State of Food Insecurity in the World, 1998; 1998 BBC News

The 6 billion people of the world today have, on average, 15% more food per person that the global population of 4 billion had 20 years ago.

Science Magazine: "Environmental Contributions

to the Obesity Epidemic" Hill & Peters, 29 May 1998

Source: Report of the Inter-sessional Working Group of the Committee on World Food Security, 1996

Food Assistance in Disaster Situations: Frequently Asked Questions. Dept. of Agriculture. U.S. www.fns.usda.gov/fdd/menu/ administration/disaster/disaster.htm

As part of the Federal Emergency Response Plan, FNS's Food Distribution Division has the primary responsibility of supplying food to disaster relief organizations for mass feeding or household distribution.

Food for Peace Program. Agency for International Development. U.S. gaia.info.usaid.gov/hum_response/ffp/ The U.S. federal government agency that implements America's foreign economic and

humanitarian assistance programs.



Civil War flag, circa 1865 from the collection of Kit Hinrichs

Robert Greenberg

Gambling

How much do Americans spend on gambling?

Substance Abuse

How many Americans use drugs?

Bankruptcy

How many Americans are filing for bankruptcy?

Privacy

Do we have a right to privacy?

Weapons

What impact do guns have on America's crime problem?

Crime

Which cities are most victimized by crime?

Property Crime

Are property crime rates increasing or decreasing?

Violence

If the crime rate is dropping, why do Americans feel more threatened by crime?

Juvenile Crime

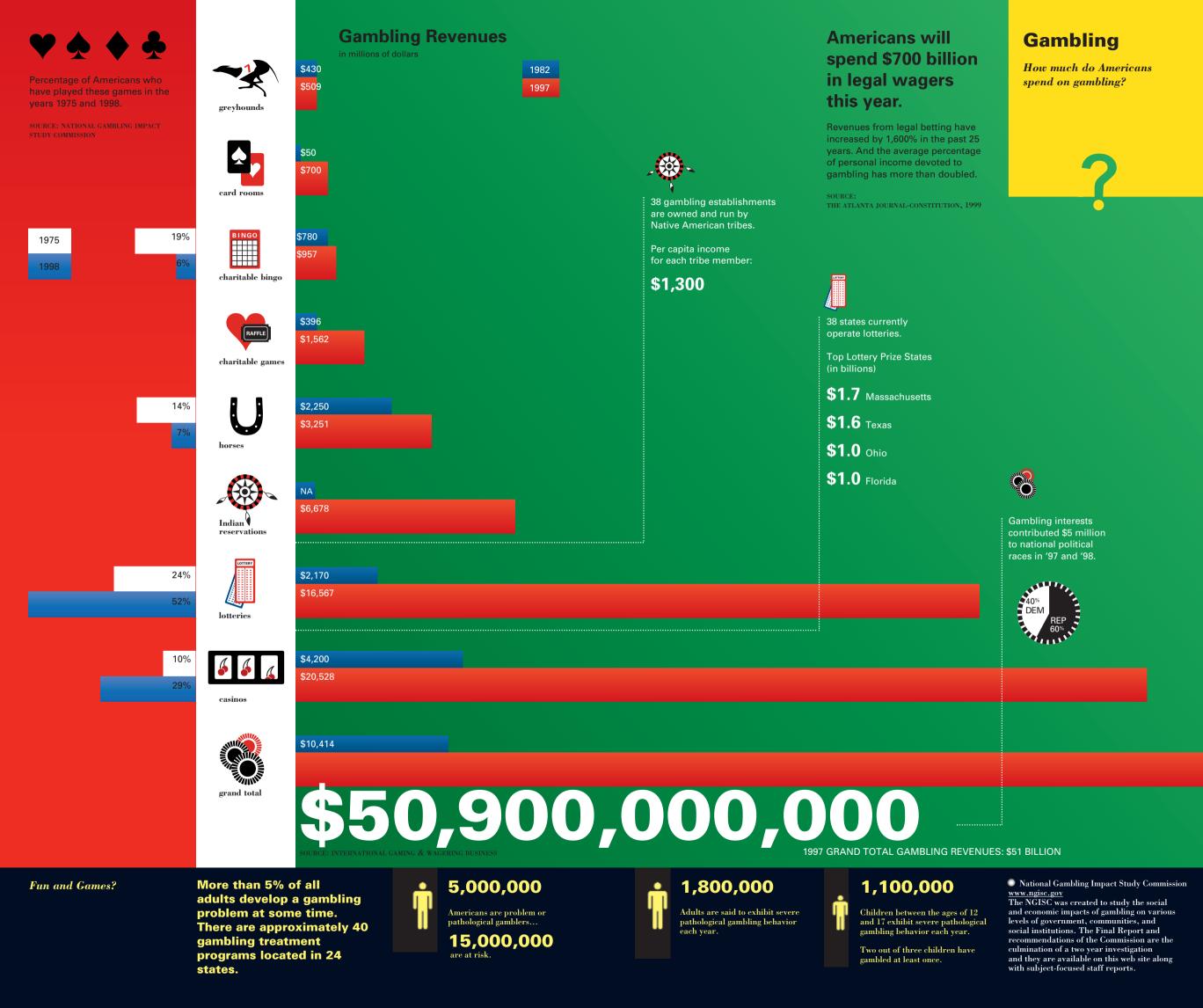
How much do juveniles contribute to America's crime problem?

Punishment

Are incarceration rates increasing or decreasing?

Death Penalty

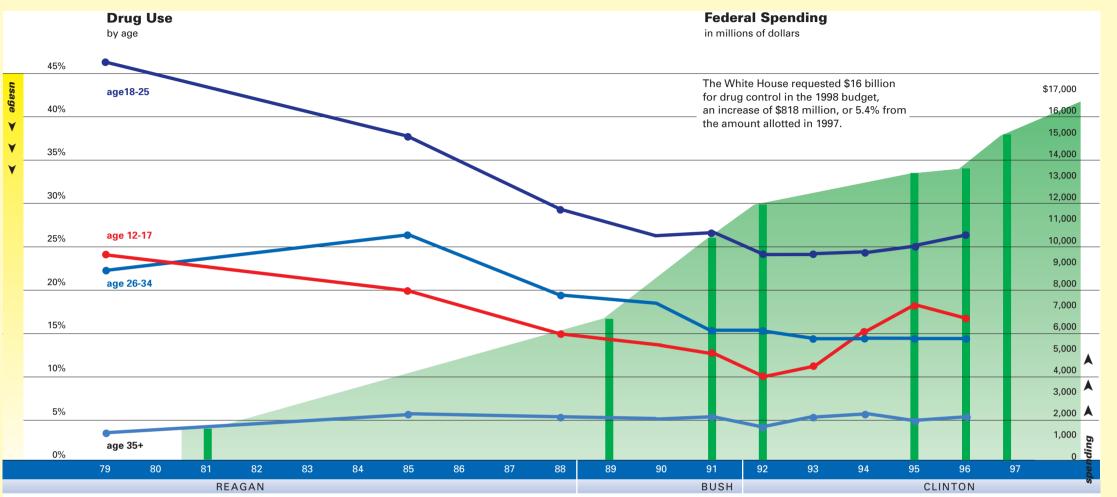
Is capital punishment a deterrent to murder?



74 million, or 35% of Americans age

Marijuana is by far the most prevalent illicit drug. In 1996, nearly 5% of the population age 12 and older (over 10 million) used marijuana or hashish.







How many Americans use drugs?





The FBI reported an estimated 1,506,200 state and local arrests for drug law violations in 1996.

In the same year, the National Institute of Justice's Drug Use Forecasting program found that the percentage of adult male arrestees testing positive for drugs at the time of arrest ranged from 48% in San Jose to 82% in Chicago. Adult female arrestees testing positive ranged from 35% in New Orleans to 83% in Manhattan.

Juvenile male detainees testing positive ranged from 38% in Portland to 67% in D.C.

Reported use of marijuana by high school seniors during the past month peaked in 1978 at 37% and declined to its lowest level in 1992 at 12%. The use of marijuana has increased since then, back up to 24% in 1997.

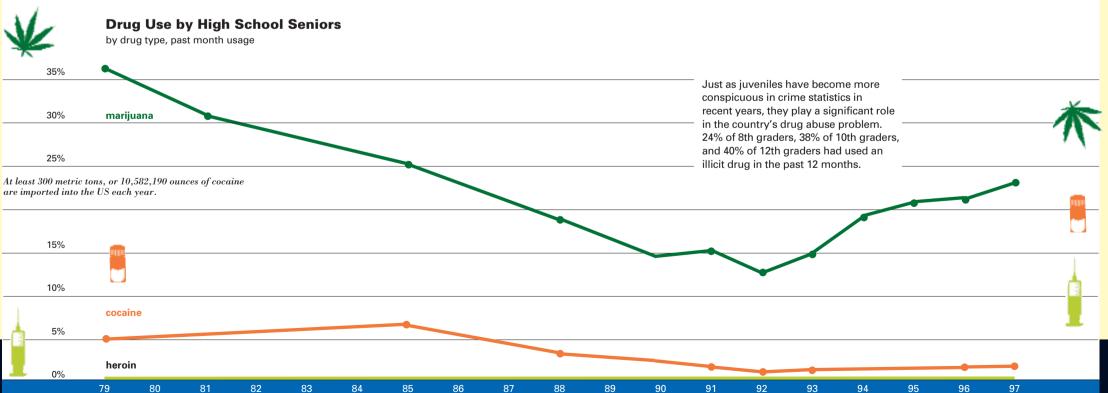
Reported use of cocaine by high school seniors during the past month increased from 2% to 6% between 1975 and 1981. The highest level was 7% in 1985. In 1997, 2.5% of high school seniors used cocaine.

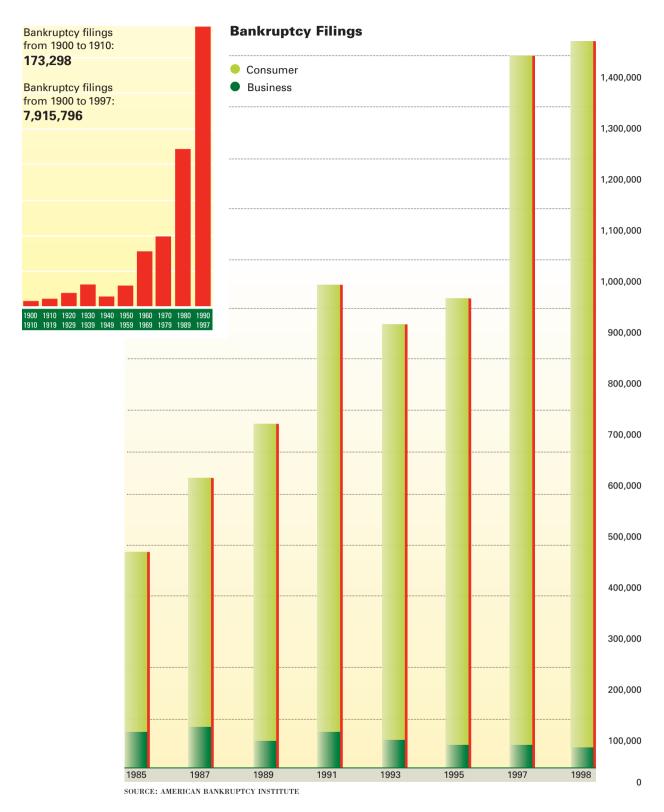
Heroin use by high school seniors ranged from .2% to a high of .6% in

National Clearinghouse for Alcohol and Drug Information.

www.health.org/pubs/nhsda/index
The National Clearinghouse for Alcohol and Drug Information brings to the web the annual Household Survey on

Drug Abuse dating from 1993.





Two in three American families use credit cards.

About 52% always pay off their balances, 20% sometimes pay them off, and 28% hardly ever pay them off.

The estimated 60 million households with revolving credit card balances carried an average of \$7,000 of credit card debt per household. This costs an average of more than \$1,000 in interest and fees per year, per household.

The rise in bankruptcies is due to many factors including easily available credit, the expansion of legalized gambling, the divorce rate, simpler bankruptcy laws, unrecovered medical claims, and widespread advertising by bankruptcy attorneys.

SOURCE: HOUSTON CHRONICLE 7/98

Bankruptcy

How many Americans are filing for bankruptcy?

?

1,442,600

bankruptcy filings in 1998

97%

are consumer bankruptcy filings

SOURCE: AMERICAN BANKRUPTCY INSTITUTE

Bankruptcy Rate

by state, per 100,000

High	Highest Lowest		est
TN	983	NC	352
GA	839	IA	345
NV	800	ME	340
AL	791	VT	324
MI	706	SD	320
ОК	680	ND	306
CA	649	sc	299
VA	640	AK	225

The greatest increase in bankruptcy filings has occurred in New England. Massachusetts leads all states with a 961% rise from 1984 to 1997.





Credit card debt doubled from 1990 to 1996. By the end of 1997, the total was

\$455,000,000,000



In 1996, 58% of women surveyed said they were very concerned about threats to their privacy, compared to 33% of men.

SOURCE: AMERICAN DEMOGRAPHICS, 1/99

On the Job Surveillance

63% of organizations surveyed practiced ar least one form of surveillance. Of these:

employee performance

stored and reviewed
e-mail messages

stored and reviewed computer files

taped and reviewed

voice mail

taped telephone conversations

Increase in the number of workers under surveillance since 1991:

275%

Data Collection on the Web

A recent study of consumer privacy on the Internet shows that nearly two-thirds of all commercial web sites display some type of warning if they collect personal information.

The study found that 93% collect some type of personal information. A Web vendor can track which pages you visit, what you buy, where you have linked from and where you go after you leave.

Consumer Profiling

The buying and selling of consumers' personal information is big business. Information is gathered from the Web, applications, subscriptions, and credit card purchases.

Posted earnings of one information broker: \$281,000,000

Percentage of Web Sites that Collect Personal Information

TYPE OF WEB SITE	FINANCIAL	CHILDREN	RETAIL	HEALTH
E-mail address	93	96	100	100
Name	73	74	77	53
Postal address	65	49	70	51
Telephone #	59	24	67	47
Fax #	27	26	31	13
Birth date	17	46	7	12
Social Security #	20	1	6	3
Credit card #	7	0	31	8
Gender	4	25	2	8
Occupation	21	3	5	3
Education	6	7	7	2
Income	20	3	3	0
Interests	1	18	5	3
Hobbies	1	9	0	1

People who don't use the Internet frequently cite privacy concerns as their prime reason for staying offline.

Cost of installing one traffic surveillance camera: \$7,500 to \$12,000

Spent on purchasing surveillance cameras last year: \$1,000,000,000

The word "privacy" does not appear in the United States Constitution.

The Supreme Court has ruled that there is a limited right to privacy in matters of marriage, procreation, child rearing and education. However, information held by third parties such as financial records or telephone calling records are not protected. New technologies make it ever easier to capture, store, analyze, share and act upon data.

Personal Identification

Three conventional forms of identification are cards (usually with a magnetic strip or photograph), passwords (PIN), and biometrics (fingerprint, voice).

Biometric technology has attained great sophistication and accuracy in recent years, surpassing all other forms of identification:

Chance of mistaken identity via retinal scanning:

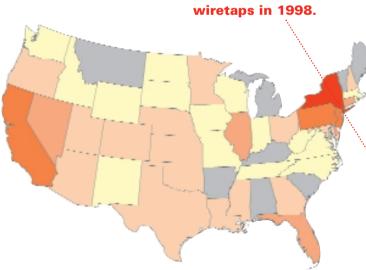
1 in 1,000,000,000,000

fingerprint scanning:



in 1,000

The federal government and New York accounted for more than 70% of all



Wiretapping

Privacy

to privacy?

Do we have a right

Wiretaps placed on cell phones, pagers, e-mail and other electronic communication devices nearly tripled last year. Police wiretaps on cell phones and pagers now outnumber wiretaps on telephones connected to conventional phone lines.

In 1998, state and federal judges authorized 1,329 wiretaps, a 12% increase over 1997. State and local drug investigations accounted for the increase; about 75% of all wiretaps were requested in drug cases.

Wiretap investigations conducted in 1998 led to 3,450 arrests and 897 convictions



SOURCE: THE ADMINISTRATIVE OFFICE OF THE U.S. COURTS

- 0 wiretaps
- 1-10 wiretaps
- 10-50 wiretaps
- 50-100 wiretaps • 100+ wiretaps
- states without wiretap laws

If you don't want to be caller ID'd, dial *67 before making your call.

O Electronic Privacy Information Center www.epic.org/
Established in 1994 to conduct public interest research and advocate privacy and First Amendment rights in an electronic

environment. Their web site contains



Weapons Used in Crimes*

1990 weapon 1980 Guns 101 94 82 95 108 78 Strongarm Knife 32 30 18 Other 23 25 24

*robbery and property crimes only

SOURCE: FEDERAL BUREAU OF INVESTIGATION

A 1994 study funded by the Centers for Disease Control and Prevention found that two-thirds of the participants in a Seattle gun buy-back program still owned other guns. The 1,700 guns that were turned in accounted for only 1% of guns in Seattle homes.

24 Hawaii Wisconsin 42% Maryland West Virginia Tennessee 76%

states with highest percentage

80%

79%

District of

Columbia

Mississippi

Gun Deaths by State

states with lowest percentage

31%

31%

North Dakota: 17%

Delaware

Iowa

Between 1979 and 1991, nearly 50,000 children were killed by guns—that's more than the number of Americans killed during our 25 years in Vietnam.

Gun violence is statistically on the decline. However, after a season of sensational killings, the debate over the place of guns in our society rages on.

Gun Deaths by Country

per 100,000 people (selected countries)

United States	15.25
Brazil	14.00
Mexico	12.00
Finland	6.75
France	6.25
Australia	3.00
Germany	1.50
England/Wales	.50
Japan	.07



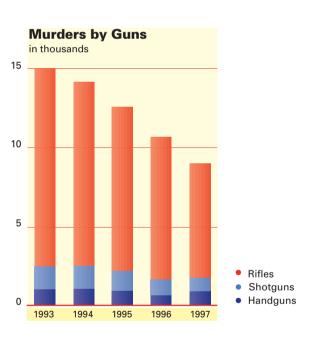
Weapons

on America's crime

problem?

What impact do guns have

The United States and Finland have the two highest rates of per capita gun ownership, and the two highest rates of gun suicide, in the world.



SOURCE: NEWSWEEK MAGAZINE, 8/99

Revol Manufa		Pistols Manufactured	Exported	Rifles Manufactured	Exported	
	4,650 103,900 0,428 63,656		16,650 44,200	970,550 1,251,350	37,250 76,600	

According to the Bureau of Alcohol, Tobacco and Firearms, the U.S. manufactured 1,406,505 handguns in 1997, 77,972 less than in 1996, and 316,425 less than in 1995. The U.S. imported 474,182 handguns in 1997—16,372 less than in 1996, and 231,911 less than in 1995.

	Shotguns	Machine Guns		
	Manufactured	Exported Manufactured		Exported
1986	641,500	59,000	41,500	25,000
1997	916,000	86,250	67,900	20,900

Policy.com Issue of the Week For Week 3/29/99: Gun Control Under Fire www.policy.com/issuewk/1999/0329_65/ index.html

Policy.com is a nonpartisan policy news and information service that highlights research, opinions, and events relating to public policy issues. This Issue of the Week examines gun control, the Second Amendment, and reform alternatives.

			Violent Crime				ı	Property	y Crime	ı
	Total	total	murder	forcible rape	robbery	aggravated assault	total	burglary	larceny theft	vehicle theft
1996 rate per 100,000 populatio	5,079 n	634	7	36	202	388	4,445	943	2,976	526
% change 1986 to	96 -7	3	-14	-5	-10	12.2	-9	-30	-1	3.6
Metropolitan areas	5,512	715	8	38	244	424	4,798	993	3,188	616
Other cities	5,328	461	5	35	72	350	4,867	935	3,695	238
Rural areas	2,050	222	5	24	16	177	1,828	620	1,083	126

Highest Crime Rates Total crimes reported for cities with the highest crime rates, 1996 = 3,316 = 2,500 = 1,900= 1,130 In surveys of 12 cities in 1998, the percentage $of\ residents\ who\ said\ they\ were\ fearful\ of$ crime in their neighborhood ranged from 20% in Madison, WI to 48% in Washington, DC.

Violent offenses include

murder non-negligent manslaughter rape sexual assault robbery assault extortion intimidation

criminal endangerment

Property offenses include

burglary larceny motor vehicle theft possession and selling of stolen property destruction of property criminal tampering

Public-order offenses include

manufacturing trafficking

Drug offenses include

commercialized prostitution morals and decency charges liquor law violations weapons drunk driving escape to avoid prosecution court offenses

1998 **Violent crimes**

Property crimes

8,100,000

22,900,000 **Total crimes**

31,300,000

Crime

Which cities are most victimized by crime?

Highest Crime Rates

	index	total
Atlanta	17,070	3,316
St. Louis	15,129	2,728
Miami	13,746	3,115
Oklahoma City	12,159	1,130
Baltimore	12,001	2,723
Detroit	11,991	2,319
Washington, DC	11,889	2,470
Kansas City	11,662	1,981
Albuquerque	11,308	1,469
Minneapolis	11,291	1,883
Nashville	11,219	1,890
Memphis	11,127	1,985

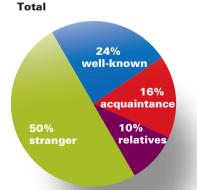
SOURCE: U.S. BUREAU OF JUSTICE STATISTICS. CRIMINAL VICTIMIZATION 1996

In 1998, Americans experienced approximately 31.3 million crimes.

73% were property crimes, 26% were crimes of violence. For every 1,000 persons age 12 and older, there were two rapes or sexual assaults, three assaults with serious injury and four robberies. Murder was the least frequent violent crime—about seven murder victims per 100,000 persons in 1997.

SOURCE: 1998 NATIONAL CRIME VICTIMIZATION SURVEY

Victim/Offender Relationship

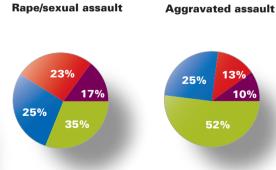


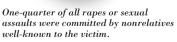
stranger

relatives

well-known

casual acquaintance





well-known to the victim.

Uniform Crime Reports Federal Bureau of Investigation www.fbi.gov/ucr/ucreports.htm
The statistics in the UCR are provided through a national reporting system and the resulting publications provide an overview of crime in the U.S. The web reports date from 1995 and include statistics on murder and manslaughter, forcible rape, robbery, aggravated assault, burglary, larceny theft, auto theft, arson and hate crime.

Robbery

7%

12%

Crime Rates property crime by region per 100,000 population 2,000-2,999 3,000-3,999

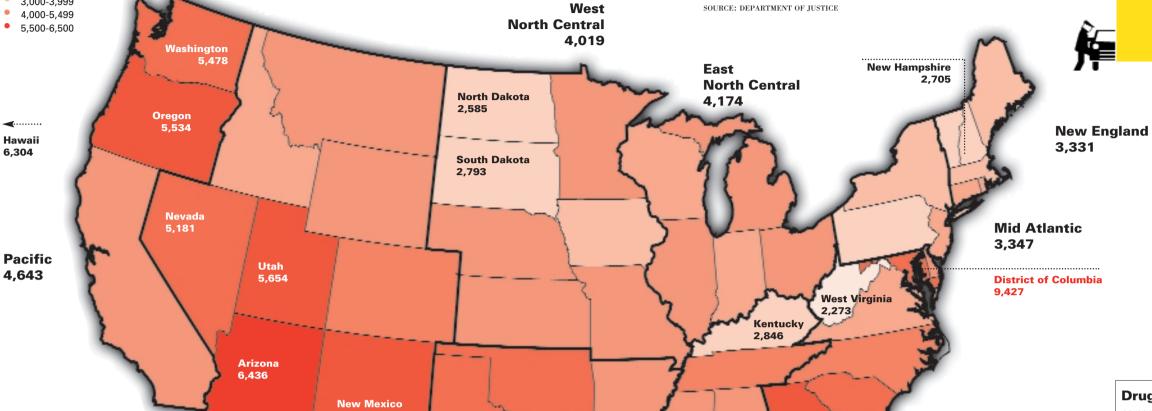
53% of state prison inmates, 74% of jail inmates, and 87% of federal inmates were imprisoned for offenses which involved neither harm, nor the threat of harm, to a victim.

Are property crime rates increasing or decreasing?

Property

Crime





Property Crime Offenses

	AUTO	BURGLARY	THEFT
1960	328,000	912,000	1,855,500
1965	497,000	1,282,500	2,572,500
1970	928,500	2,205,000	4,226,000
1975	1,009,500	3,265,500	5,978,000
1980	1,132,000	3,795,000	7,137,000
1985	1,103,000	3,073,500	6,926,600
1990	1,636,000	3,074,000	7,946,000
1991	1,662,000	3,157,000	8,142,000
1992	1,611,000	2,980,000	7,915,000
1993	1,563,000	2,835,000	7,821,000
1994	1,539,000	2,713,000	7,880,000
1995	1,472,500	2,594,000	7,998,000
1996	1,395,000	2,501,500	7,894,500

 $The\ Smithsonian$ displayedGeorge Washington's false teeth until they were stolen in 1981.

West

5,113

South Central

5,762

Mountain 5,347

Louisiana 5,910

> In 60% of the 4 million household burglaries in 1998, the burglar gained entry through an unlocked door or window.

Georgi 5,671

East

4,018

South Central

South Atlantic

5,304

Drug Use by Arrestees

percent of males testing positive in major cities for any drug, 1997

Chicago, IL	80%
Manhattan, NY	79%
St. Louis, MO	74%
Ft. Lauderdale, FL	73%
San Diego, CA	73%
Atlanta, GA	72%
Denver, CO	71%
Portland, OR	71%
Washington, DC	69%
Birmingham, AL	67%
New Orleans, LA	67%
Philadelphia, PA	67%
Cleveland, OH	64%
Phoenix, AZ	64%
Dallas, TX	63%
Houston, TX	63%
Indianapolis, IN	63%
Detroit, MI	62%
Omaha, NE	62%
Miami, FL	61%
Los Angeles, CA	59%

SOURCE: US NATIONAL INSTITUTE OF JUSTICE

Drugs and Crime National Institute of Justice. Department of Justice.

www.ojp.usdoj.gov/nij/drugdocs.htm

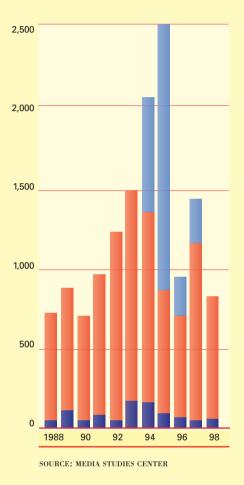
The National Institute of Justice makes available via its web site many reports on drug use and crime dating from 1994. From 1992 to 1996, the number of U.S. homicides declined by 20%, yet the number of murders reported on the ABC, CBS and NBC evening news increased by 721%.

TV Crime Time

minutes on ABC, CBS and NBC

- O.J. case/trial
- All other crime
- Guns/gun control

The PursuitWatch Network, in San Dimas, CA, is a paging service that informs its customers whenever a high-speed chase is televised.



Domestic Violence

Domestic violence is a pattern of assault and coercion, including physical, sexual, and psychological attacks, as well as economic coercion, used against one's intimate partner.

Researchers have long known of the link between domestic violence and child abuse. Each year, more than one million children are confirmed as victims of child abuse and neglect. As a result of this treatment, three children die every day.





95% of assaults on spouses or ex-spouses are committed by men against women.

SOURCE: THE U.S. DEPARTMENT OF JUSTICE

when?

55%

of all violent crimes occur between the hours of 6 am and 6 pm.

where?

40%

of all rapes and/or sexual assaults occur at or near the victim's home or lodging.

how?

91%

of all rapes and/or sexual assaults occur while the offender has no weapons.

Atheists and agnostics suffered the fewest only 2— religion-related hate crimes in 1996.

7,947 hate crimes

authorities in 1995.

were reported to local

Hate Crimes

The largest categories of reported hate crimes included:

Anti-Black	3,945
Anti-White	1,554
Anti-Jewish	1,236
Anti-Male Homosexual	937

The most hate crimes against lesbians and gays reported in 1995 were in:

New York City	625
San Francisco	324
Los Angeles	256
Minneapolis/St. Paul	218

The violent acts in descending frequency were:

Intimidation	4,048
Simple Assault	1,796
Aggravated Assault	1,268
Murder	20
Forcible Rape	12

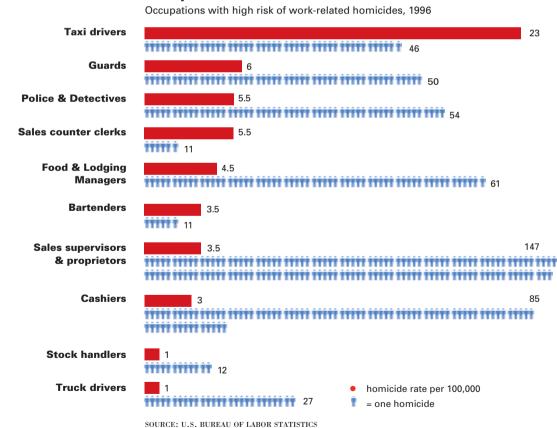
The FBI claims that 75% of the U.S. population is represented in these data. However, less than half of law enforcement agencies report hate crimes and only 1,150 actually record incidents.

Violence

If the crime rate is dropping, why do Americans feel more threatened by crime?



Workplace Violence



Homicide Rate

per 100,000 residents population, 1995

black male

black female

white male

white female

• Center for the Study and Prevention of Violence. University of Colorado. www.colorado.edu/cspv/index.html The Center has a three-fold mission: to collect and make available resources on the causes and prevention of violence to provide technical assistance in developing and assessing prevention programs, and to conduct research.



Juvenile Crime

How much do juveniles contribute to America's crime problem?

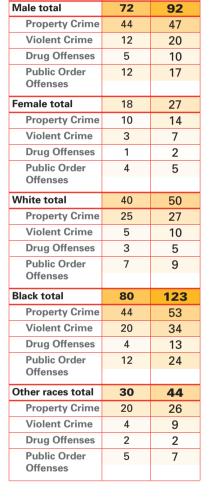


5 minutes. More than half (27) of the U.S. states have no restrictions for prosecuting juveniles as adults. 42 states have created laws that hold parents responsible for their children's behavior of those, 17 make parents criminally liable.

A child is arrested for a violent crime every

That's 288 arrests per day, 105,000 per year.

SOURCE: THE CHILDREN'S DEFENSE FUND



Juvenile Crime

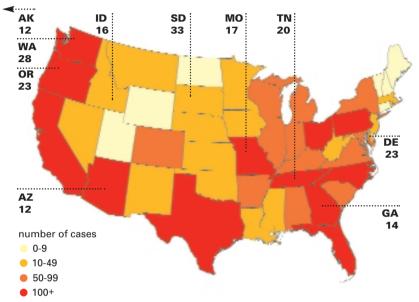
by sex and race, per 1,000 youth

1986

1995

Student Gun-Related Expulsions

number of students expelled per 100,000 for States with highest rates in 1997-98



Juvenile crime has spiked upward while adult crime rates have remained flat or declined. It is now more likely for a 15-year-old than a 30-year-old to commit a violent crime.

3,930 students were expelled during the 1997-98 school year for bringing firearms to school—down about 30% from the previous year.

The main reason given by adolescents for obtaining or carrying guns is selfprotection.

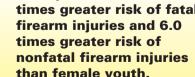
SOURCE: NATIONAL CENTER FOR JUVENILE JUSTICE. JUVENILE COURT STATISTICS

Between 1985 and 1995, the juvenile arrest rate for violent crimes rose 69%; for murders, it rose 96%.

Police made about 2.7 million arrests of juveniles in 1995, 19% of them for violent crimes-murder, forcible rape, armed robbery and aggravated assault. That translates into an arrest for one in every 200 people between the ages of 10 and 17.

Juveniles were involved in 32% of all robbery arrests, 23% of weapons arrests, and 15% of arrests for murder and aggravated assault.

Male youth are at 7.3 times greater risk of fatal firearm injuries and 6.0 times greater risk of nonfatal firearm injuries than female youth.







7 am

8 am





11 am

12 pm

10 am



1 pm

2 pm



3 pm

4 pm



5 pm



7 pm

8 pm

6 pm

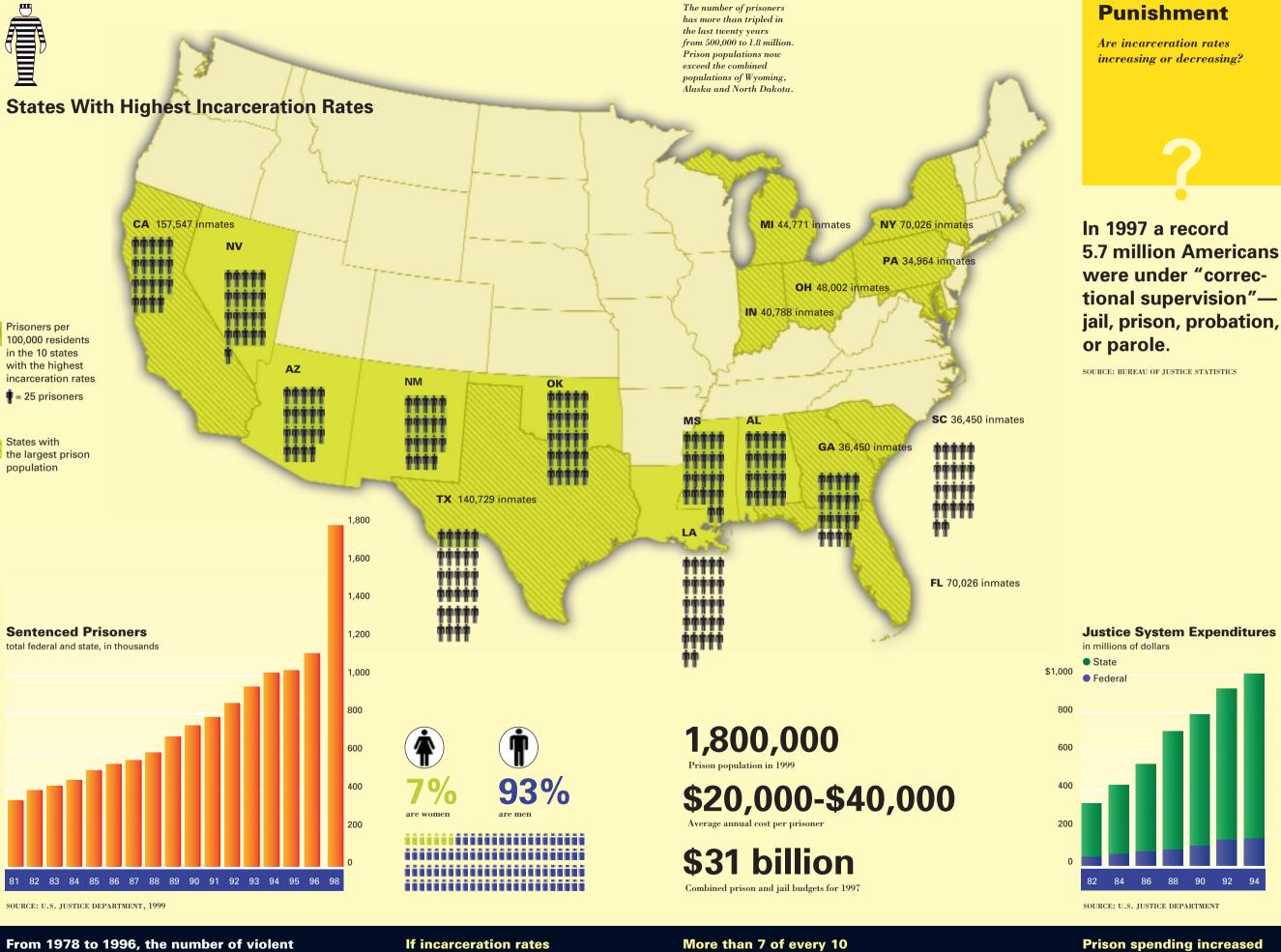




National Criminal Justice Reference Service. Department of Justice. www.ncjrs.org
The Justice Information Center is the most

extensive clearinghouse of crime, criminal justice, and juvenile justice information in the world. Find reports and statistics online or search the database for government and non-government publications and articles from professional journals.

4,223 children were killed by firearms in 1997 that's one child every two hours.



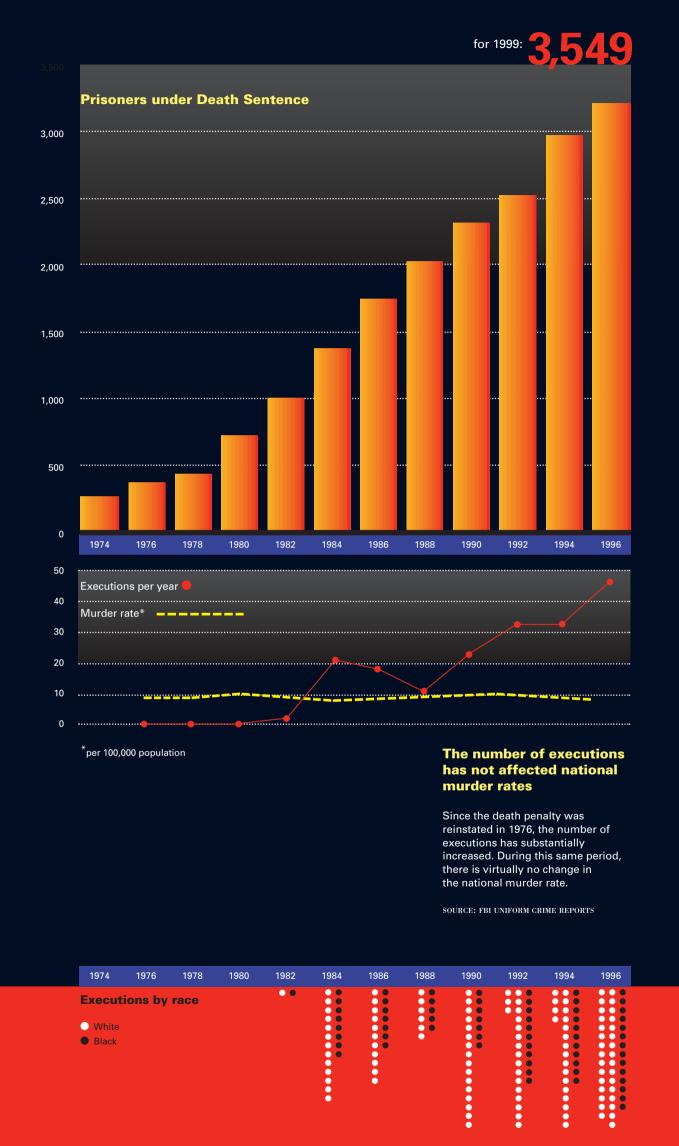
From 1978 to 1996, the number of violent offenders entering prisons doubled (from 43,733 to 98,672 inmates); the number of nonviolent offenders tripled (from 83,721 to 161,796 inmates) and the number of drug offenders increased sevenfold (from 14,241 to 114,071 inmates).

If incarceration rates remain unchanged, one in every 20 people (5.1%) will serve time in a prison during their lifetime.

More than 7 of every 10 jail inmates had sentences prior to probation or incarceration.



faster than funding for colleges between 1977 and 1995. Spending growth for prisons was 823% compared to 374% for higher education.

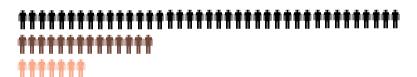


Race of Death Row Inmates

White 47%
 ■ Black 42%
 ■ Hispanic 8%
 ● Other 3%
 □ Other 3%</l

Race of Victims

• White 83%
• Black 11%
• Hispanic 4%
• Other 2%
• Other 2%
• Plack 11%
• Hispanic 4%
• Other 2%
• Other 2%
• Plack 11%
• Plack 1



Race of District Attorneys*

22 Hispanic DAs = 22 Black DAs = 1,794 White DAs

Death Penalty

Is capital punishment a deterrent to murder?



The United States is the only Western industrialized nation that allows capital punishment.

From 1930 to 1996, 4,217 executions were carried out under state or federal authority. 3,859 occurred before 1972, when the Supreme Court ruled capital punishment unconstitutional.

Since the Court reinstated the death penalty in 1976, an additional 566 executions have been carried out; 82 inmates have been exonerated.



83% of capital cases involve white victims, even though nationally only 50% of murder victims are white.

SOURCE: NAACP LDP DEATH ROW

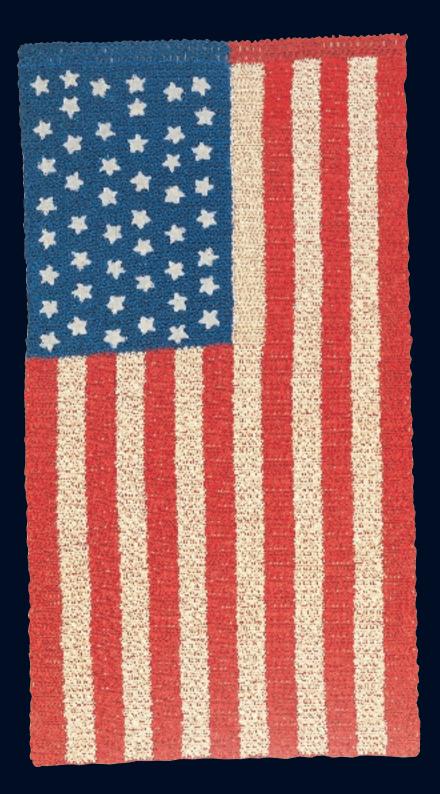
Prisoners executed in 1996 had been on death row for an average of 10 years. A positive aspect of this lengthy wait is that it allows some death row prisoners to prove their innocence before they face execution.

However, 36 of the 38 states that have capital punishment have a statute of limitations for evidence presented after conviction.

X

Death Penalty Information Center www.essential.org/dpic This non-profit organization that favors the abolition of the death penalty provides numerous reports on issues surrounding the use of capital punishment.

^{*} chief prosecuting official with discretionary power to determine charging levels in death penalty states



Crochet and appliqué flag, circa 1920 from the collection of Kit Hinrichs

Hani Rashid / Lise Anne Couture

Sex & Sexuality

Who is sexually active? What forms of birth control are being used?

Stock Market

How many Americans invest in stocks? What kinds of stock do they prefer?

Transportation

How do Americans get around?

Space Program

How much is spent on America's space program?

Cities

What are the average earnings in America's biggest cities? What are the growth rates of these cities?

Race

What percentage of Americans is represented by each race? How is each race doing in terms of employment?

Marriage & Divorce

What percentage of Americans is married? Divorced? How does our divorce rate compare to that of other countries?

Families

How big is the average American family? Who is supporting these families?

American Demographics

How do our characteristics relate?

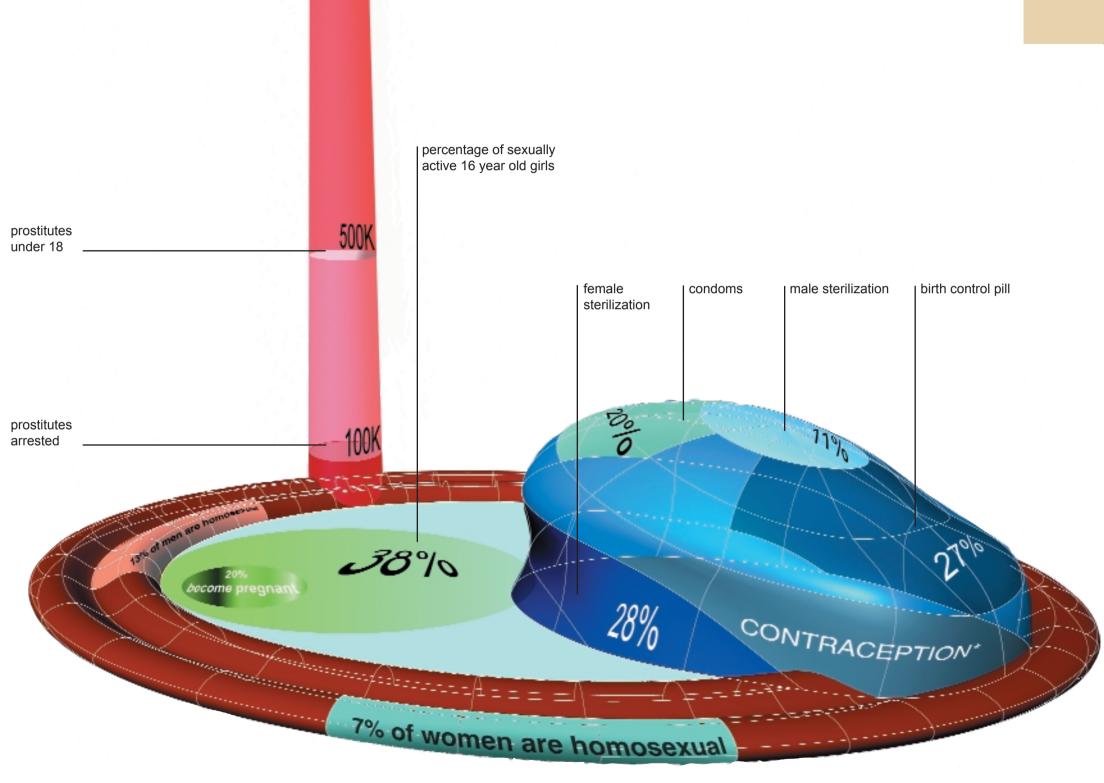
Datascaping USA

How can we better understand America's characteristics?

Sex & Sexuality

Who is sexually active? What forms of birth control are being used?





Sexual activity

On average American adults have 1.49 sexual partners each year.

prostitutes

The average American has sex 59.6 times annually.

Married people age 18-29 have the most sex $(111.4 \ \text{times a year})$.

Teen sex

65% of female teenagers and 68% of male teenagers in the U.S. are sexually active.

25% of sexually active teens acquired an STD in 1997.

Diseases

Each year 12 million cases of sexually transmitted diseases are reported.

Every year 31,130 Americans die of HIV/AIDS.

Pregnancy

Nearly half of the 6.3 million pregnancies in the United States each year are unintended.

13% of all U.S. births are to teens, 78% of these are not planned.

Fertility

In 1940, the average number of sperm per human male ejaculation was 100 million. In 1990, it was 50 million.

Each year 4.5 million couples experience infertility.

*methods of contraception

Statistics for contraception represent use by fertile and sexually active women who are 15 to 44 years old. This equals 69% of the female population.

annual rates How many Americans invest of return (1926-1997) in stocks? What kinds of 3.8% stock do they prefer? treasury bills 5.2% long term government bonds 5.7% long term corporate bonds 11.0% - S&P 500 12.7% small company stocks **NYSE** volume daily average OWN STOCKS

\$1,608 tax exempt money market

\$8,981 taxable money market

\$10,315 bond & income \$23,993 equity funds

\$44,897 mutual funds

total annual amount (in \$100M) of assets invested in funds

Investment club members

65.3% are women, 34.7% are men.

46% hold an undergraduate college

86% have a family income of \$35K or more.

The most popular stocks with investment clubs:

Number of clubs with stock

Pepsi Co. Inc. Intel Corp. Motorola, Inc. Tricon Global 11,338 11,019 9,863 9,168 8,687 Merck & Co. Inc.

The price for a seat on the NYSE

1997 high price: \$ 1,750,000 low price: \$ 1,175,000

high price: \$ 250,000 (+700%) low price: \$ 190,000 (+620%)

Profile of stock owners

60% of Americans who own mutual funds have holdings in excess of \$10,000.

59% of Americans with individual stocks have holdings in excess of \$10,000.

Almost half of stockholders have household incomes between \$30,000 and \$75,000.

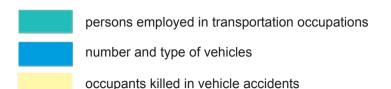
Stock Market

20% of stock owners are retired.

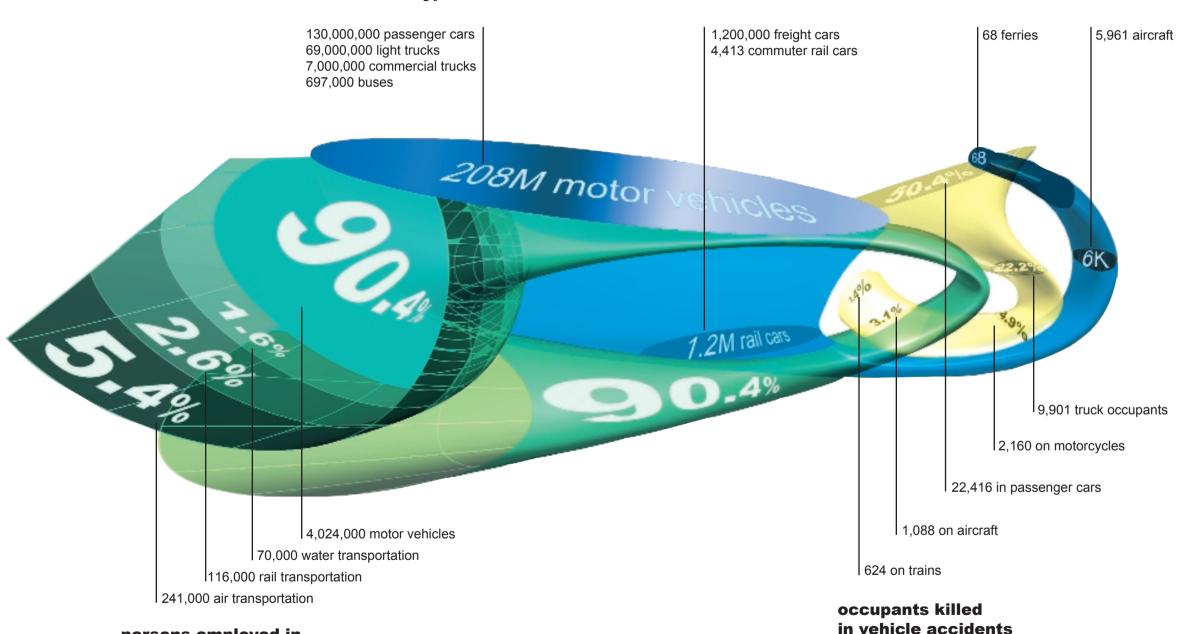
85% of stockholders are white.

Transportation

How do Americans get around?



number and type of vehicles



persons employed in transportation occupations

Fuel consumption for transportation purposes

fuel gallons

Total Gasoline Replacement fuel Alternative fuels

148,298,767,000 120,125,000,000 27,825,950,000 3,711,500,000 321,389,000

States with highest number of motor vehicles

California has the highest number of motor vehicles by more than double the number in the next highest state (CA -15,398,720, FL - 7,285,563).

Motor vehicles per household

In 1969 the average household had one car. In 1995 the average household had two cars, and 19% of all households owned three or more

Transportation Expenditure

\$847 billion or 11% of the Gross Domestic Product was spent on transportation in 1996.

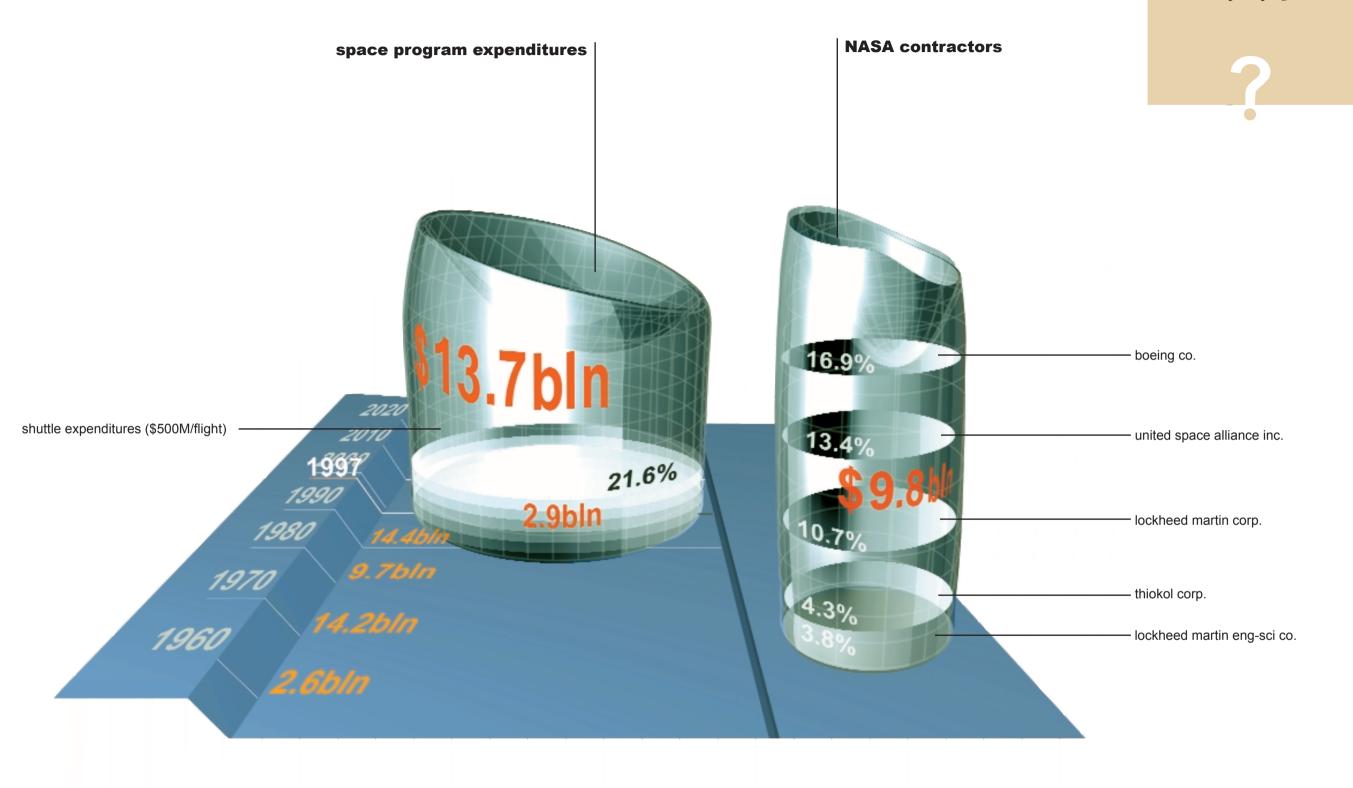
Length of public roads in the U.S.

Interstate highways National highway system

46,036 miles 1% 112,467 miles 3% 3,760,947 miles 96%

Space Program

How much is spent on America's space program?



Successful space launches

1124 2548 52 96 49 10 8 Soviet Union / CIS Japan European Space Agency China France Israel

Tax dollars at work

The NASA budget of \$13.7 billion is 0.825% of the total \$1.653 trillion in federal budget.

NASA employs 17,913 civil servants.

Public opinion

44% of Americans say they would travel in space given the chance.

44% of registered voters believe in intelligent life on other planets.

57% of Americans believe that space exploration impacts daily life.

Future

The anticipated bill for a manned international space station is \$35 billion to \$45 billion.

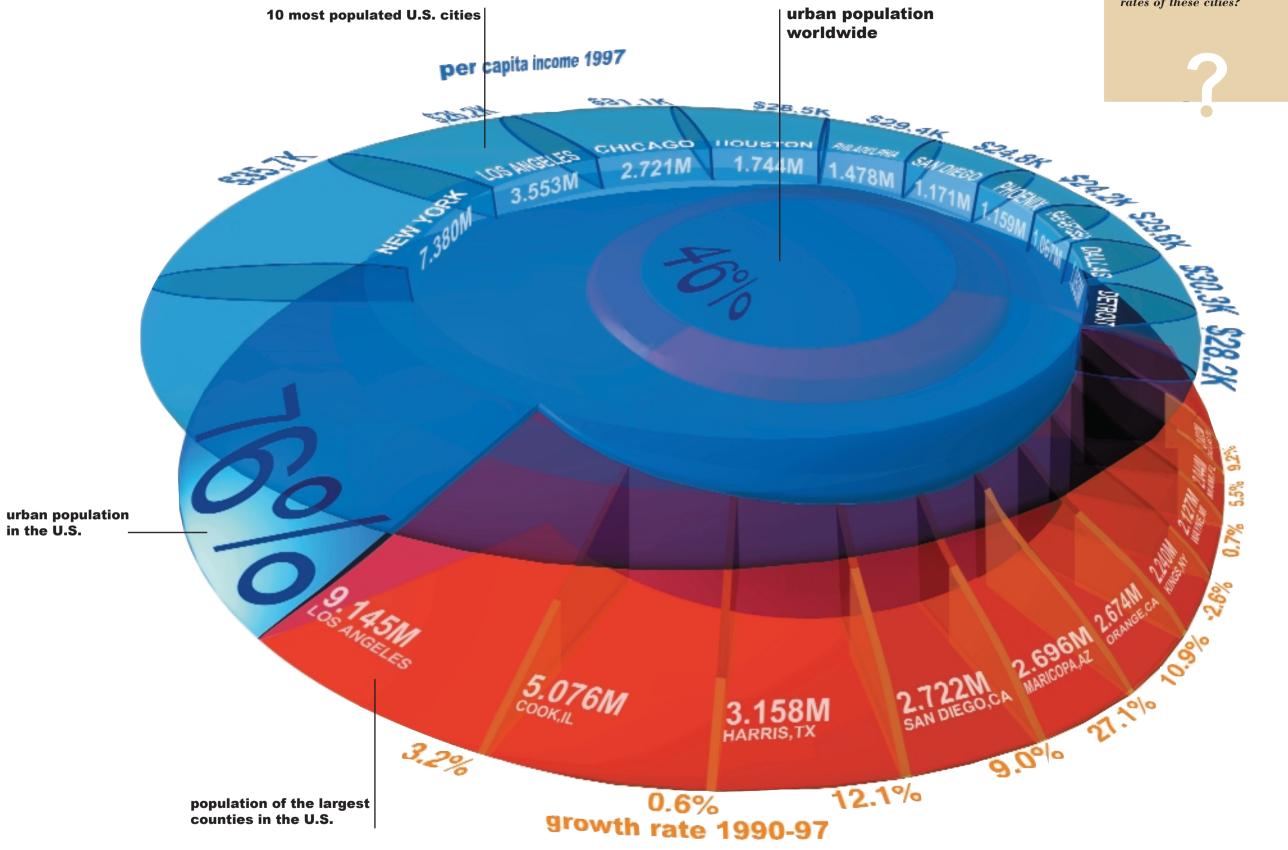
Space tourism

It costs \$4,000 per pound to lift a payload into orbit. An optimistic assumption of \$200 per pound would price a ticket into space at no less than \$50,000.

National Aeronautics and Space
Administration. U.S.
www.nasa.gov/NASA_homepage.html/
Principal federal agency committed to
spreading the unique knowledge that flows
from its aeronautics and space research.

Cities

What are the average earnings in America's biggest cities? What are the growth rates of these cities?



	Index	Sarasota, FL	8.44%
San Francisco	134.8	McAllen-Mission, TX	6.74%
New York	122.4	Phoenix, AZ	5.92%
Boston	121.4	Dallas, TX	5.919
Washington	113.7	Seattle, WA	5.519
Chicago	111.1	Raleigh-Durham, NC	5.499
Los Angeles	110.8	Orlando, FL	5.39%

Metropolitan area job growth

Highest cost of living index

Density of the U.S. urban population:

There are 29.5 people per square kilometer in the U.S.

Mesquite, Nevada, a suburb of Las Vegas, is America's fastest-growing city. From 1990-1998, Mesquite's population increased by 441.2%.

Distribution of housing units

32% in central cities 24% in non-metropolitan areas 44% in suburbs

National Urban Institute

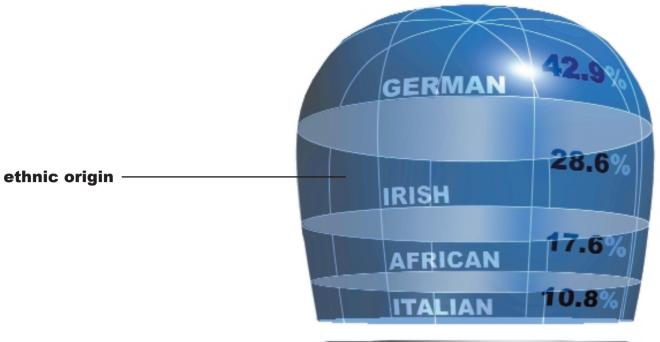
www.urbaninstitute.org/
The Urban Institute investigates social and economic problems confronting the nation and analyzes efforts to solve these prob-

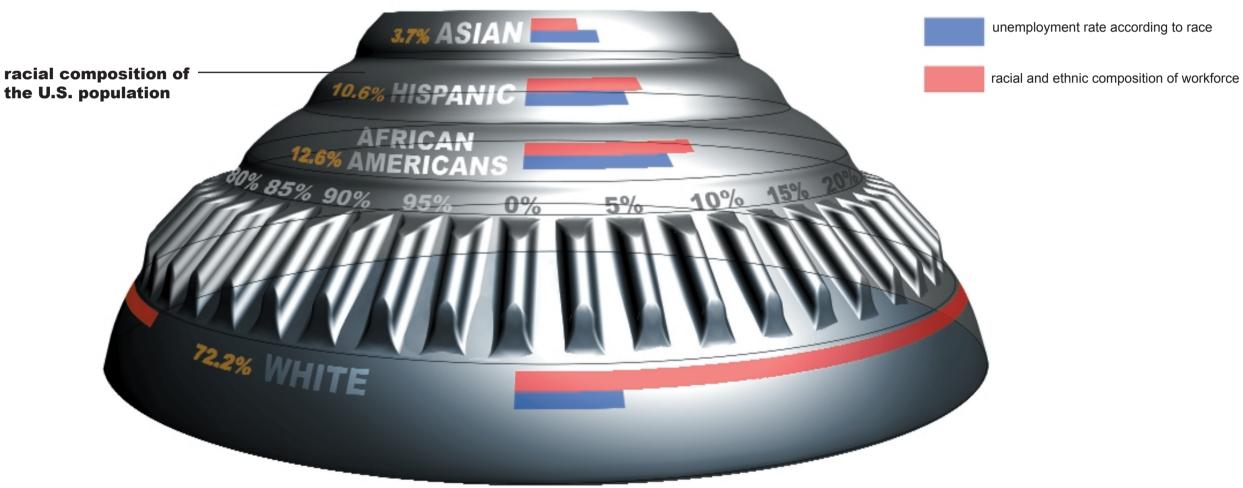
Urban Land Institute

www.uli.org
ULI research is geared to assist in solving
the land use issues of our society.

Race

What percentage of Americans is represented by each race? How is each race doing in terms of employment?





Average income

\$37,005 is the median household income in the U.S.

Whites earn \$38,972 on average, African Americans earn \$25,050, and Hispanics earn \$26,628.

Technology

Among families earning \$15,000 to \$35,000 per year, more than 32% of whites own computers, but only 19% of blacks and Hispanics in this income range have computers at

Business ownership

Minorities own 12.5% of U.S. busi-

Home ownership

71.7% of white families own their own homes compared to 46% of black families and 43% of Hispanic

808,163 people in America live on reservations.

Infant mortality rates

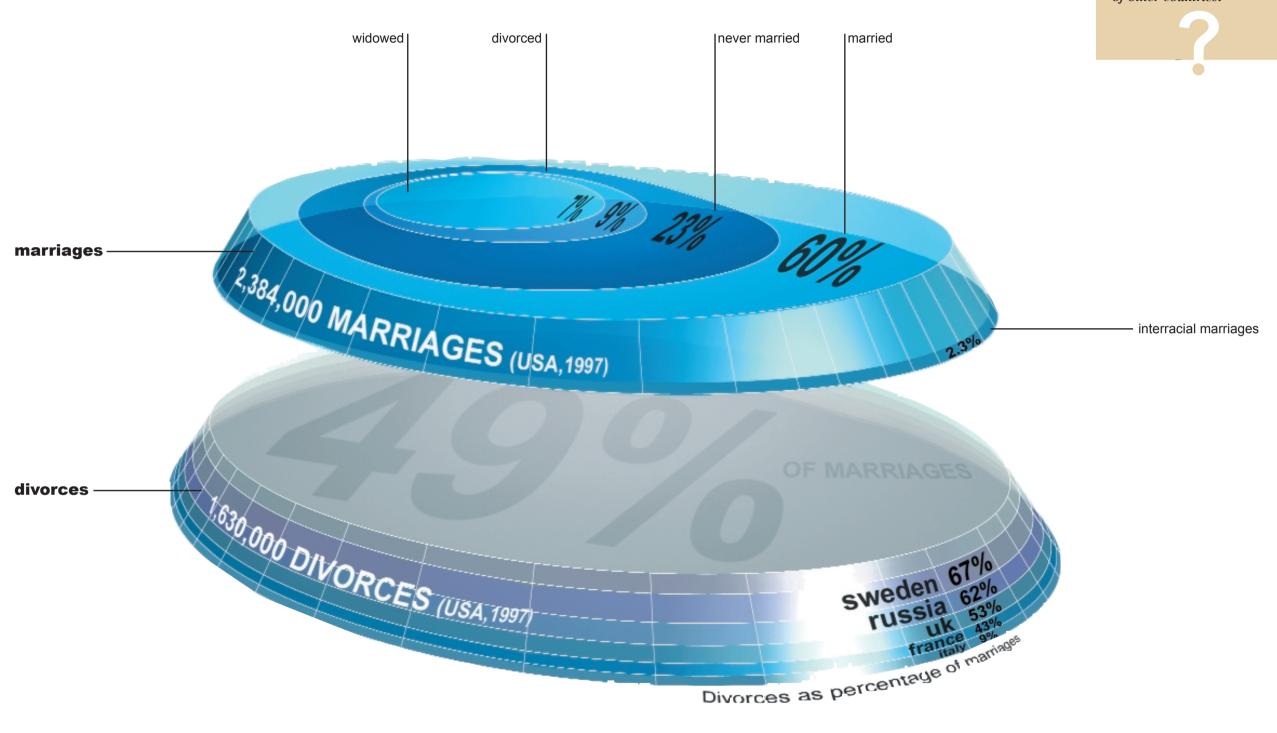
blacks 14.6

Hispanics 6.3 whites 6.3 per 1000 live births

Institute on Race & Poverty. University of Minnesota Law School.

www1.umn.edu/irp/
Addresses the underlying causes of the problems created at the intersection of racial segregation and poverty.

marital status



Median age of	men an	d women
when married		

1976: 23.8 yearsmen women

1996:

21.3 years 27.1 years 24.8 years men women

Divorced population:

The number of divorced people has more than quadrupled from 1970 with 4.3 million to 18.3 million in

Unmarried couple households:

Age of couples Under 25 25-44 yrs 20% 60% 15% 5% 45-64 yrs 65 and over

Never married adults:

In 1996 44.9 million adults had never been married, more than twice the number in 1970 (21.4M). Policy.com. Issue of the Week. 6/21/99:Marriage: the State of the Union www.policy.com/issuewk/1999/0621_78/ index.html

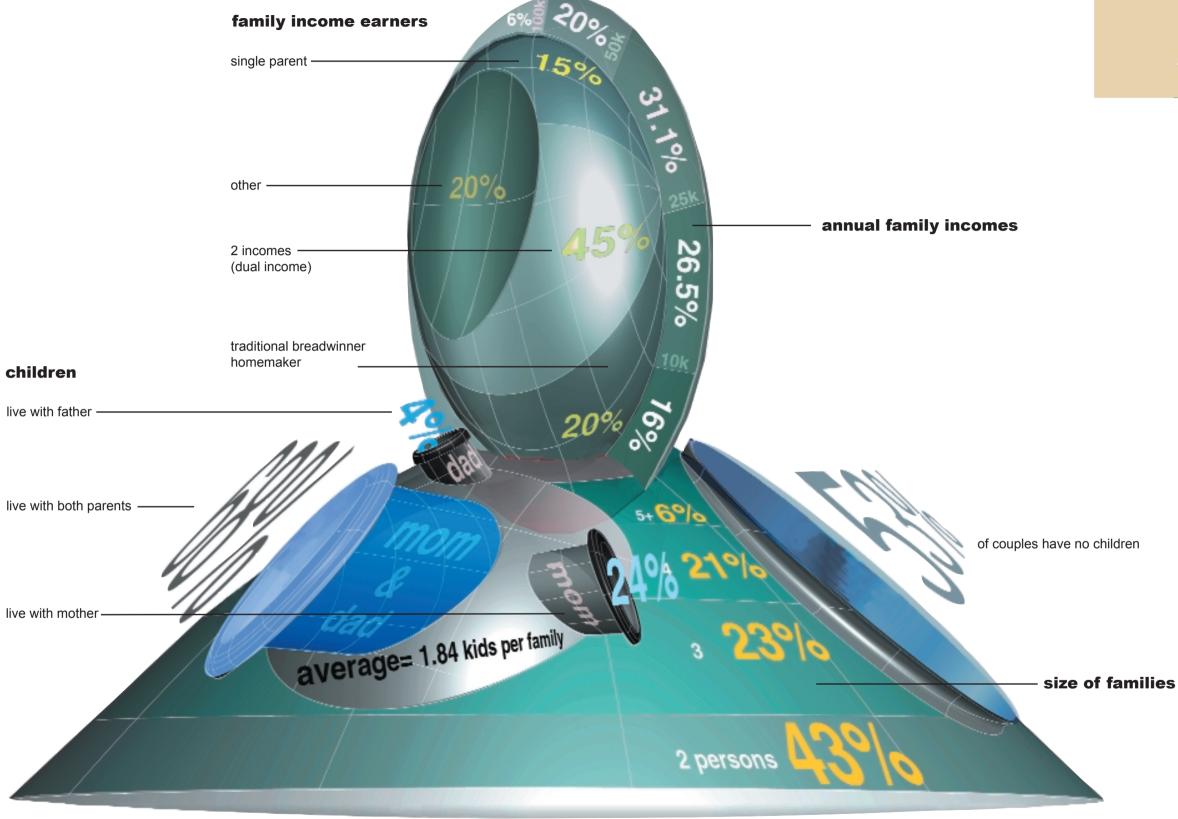
A commercial news service offering policy information and news reports.

Marriage & Divorce

What percentage of Americans is married? Divorced? How does our divorce rate compare to that of other countries?

Families

How big is the average American family? Who is supporting these families?



Poverty thresholds

Size of family

1 person

2 persons 3 persons 4 persons 5 persons

6 persons

1997 income

\$ 8,183 \$10,473 \$12,802 \$16,400 \$19,380

\$21,886

4,564,000 Americans receive unemployment compensation.

4,932,000 Americans receive educational assistance.

Financial assistance

Single mothers

From 1980 to 1997 the population of American single mothers rose by 60% to 10 million.

Child abuse

In 1997 126,095 incidents of sexual abuse of children were recorded.

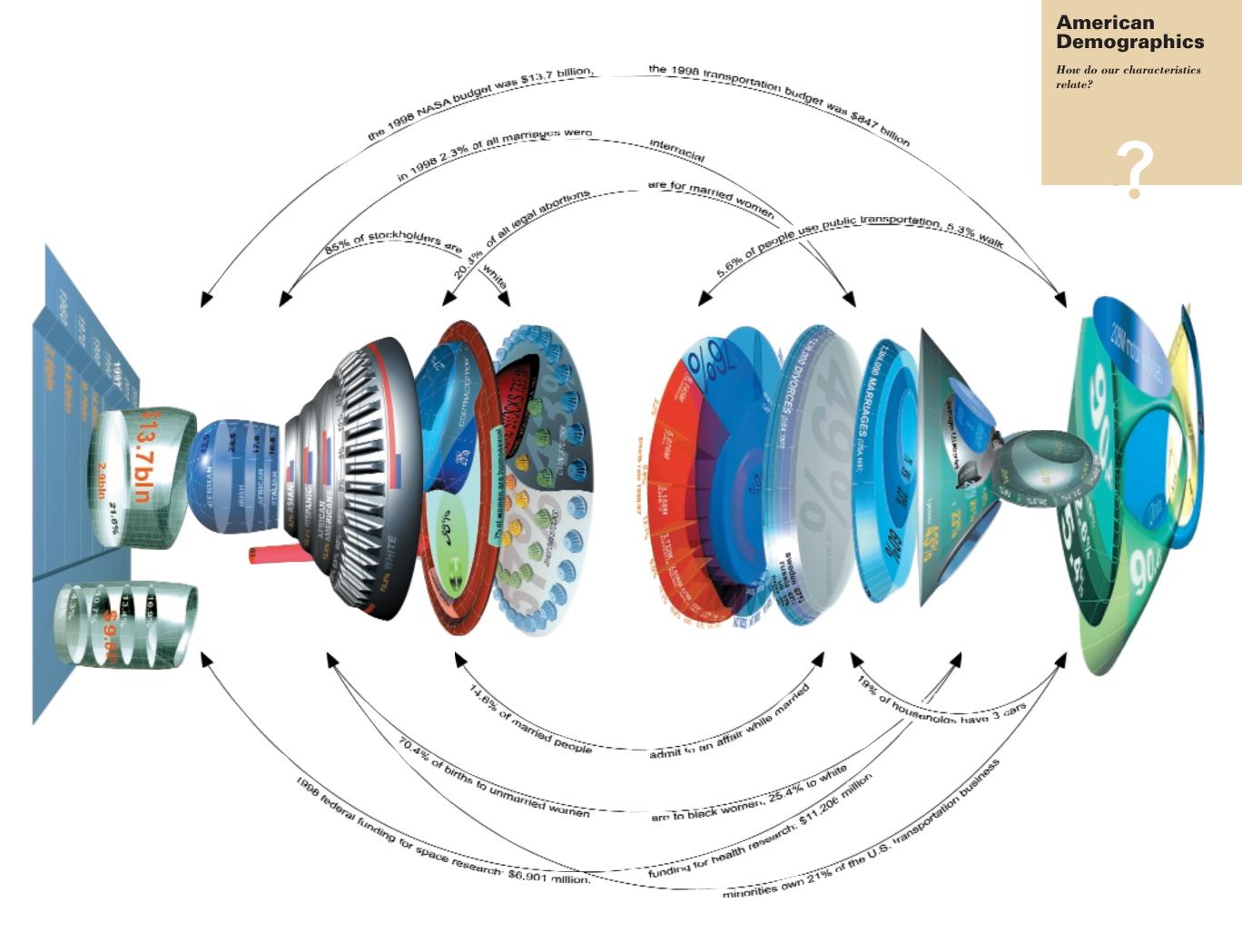
In 1997 244,903 incidents of physical abuse were recorded.

Preschool child care

Care in child's home Care in a relative's home Care in another home Daycare center Nursery or Preschool With mother at work

33% 15.9% 15.4% 21.6% 7.8% 5.5%

The average number of children per family is 1.84.













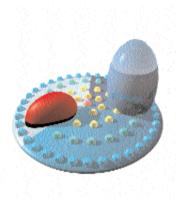
Sex and Sexuality

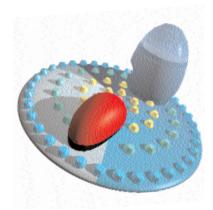
500,000 arrested

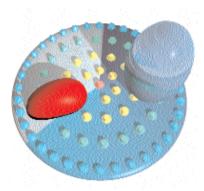
under eighteen 100,000 38% of 16 year old girls are sexually active

20% of these become pregnant

13% of men and 7% of women are homosexual







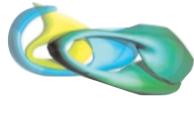


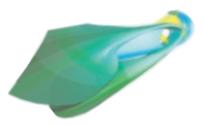


Stock Market 43% of Americans own stock

annual rate of return for S&P 500 1926-97 11% for small company stocks 12.7% inflation averaged 3.1%





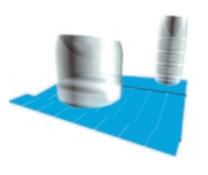


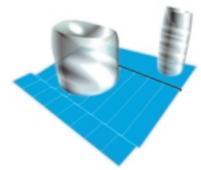




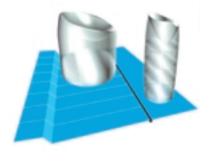
Transportation

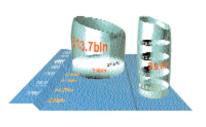
over 208 million motor vehicles in the US including 130 million passenger cars over 22,000 automobile occupants killed annually











Space Program

the overall NASA budget is \$13.7 billion

independent contractors receive \$9.8 billion

NASA spends \$2.9 billion annually on space shuttle flights which cost an average of \$500 million per flight

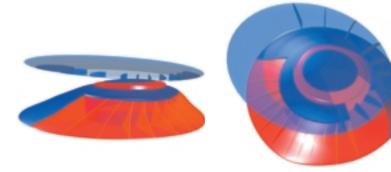
Datascaping USA

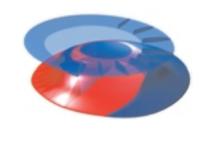
How can we better understand America's characteristics?



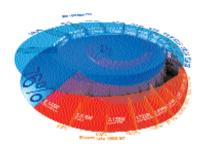
The eight models contained on these pages created by Asymptote, exist as Virtual Reality Markup Language (VRML) models that are accessible and operable on the Internet. The models can be found at the **TEDX** website www.understandingusa.com. Each three dimensional model can be manipulated and adjusted according to certain criteria allowing for different readings and means of understandings. The adjustability and transformative aspects of these data entities allow for each subject to be analyzed and scrutinized from different viewpoints. These are different 'vantage' points one can assume in order to reference information in a variety of ways. Timelining, for example allows for certain adjustments of the data to be made where one can reverse or fast forward a timeline to see how the datascape alters and transforms. By choosing one element in the data model and adjusting it according to some criteria, other items that are related can also be re-configured and adjusted accordingly. Here various correlations can be made on data that might otherwise be missed or misconstrued. This new method of reading, recording and gathering information creates a much richer and deeper understanding of information in contrast to conventional graphing and charting systems.

The datascapes consist of three main components that allow them to be interactive entities for eventual porting over the web. They were initially modeled as rudimentary wireframes in Maya software and kept 'lightweight'









Cities

a76% of the American population lives in urban areas

the urban population worldwide is 46%

New York is the largest city with 7,380,000 inhabitants the largest county is Los Angeles with 9,145,000









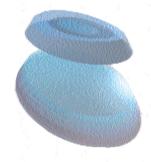


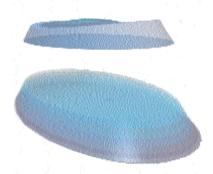
Race

ethnic origin: 42.9% German 28.6% Irish 17.6% African 10.8% Italian

racial composition: 72.2% White 12.6% African American 10.6% Hispanic 3.7% Asian unemployment: Black 10% Hispanic 7.7% White 4.2%











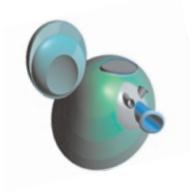
Marriages and Divorces

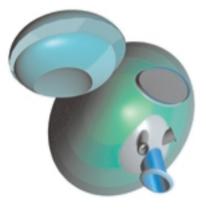
23% of American adults have never married

60% are married

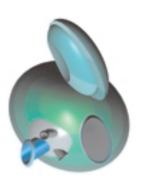
9% are divorced

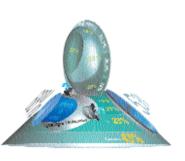
the number of divorces annually equals 49% of marriages in 1997 there were 1,630,000 divorces











Families

6% of families have 5 or more persons 45% of families have dual incomes

53% of couples do not have children under 18 years of age

68% of children live with both parents

Datascaping USA

How can we better understand America's characteristics?



in order to allow them to be efficiently read despite the bandwidth restrictions of the Internet as the technology exists today.

After the design refinement in Maya and the exporting of the models as VRML 2.0, the wireframes are re-configured and the design continues in Cosmo Worlds, software produced by Silicon Graphics. At this juncture the models are attributed with various features including animation, interactive components and motion sensors. The models are also texture mapped in Cosmo Worlds in order to give them tectonic characteristics including lighting and shading. The moving texture maps are key framed animations that are placed on the wireframes and give the datascapes their 'live' feedback capability when accessed and manipulated over the Internet.

The models are completely updatable and resident in a virtual real estate that can be infinitely transformed. This capability for the models to be updated continuously implies that these data entities could be 'current' indefinitely. Also, as a certain period of time elapses and new data is incorporated, these entities become valuable as mnemonic containers of information. They are effectively a living record of all of the past data inputs. A record of data captured through time (from various points of view) would form a very significant means to understanding junctures, milestones, thresholds and correlations over



Cigar fan, circa 1950 from the collection of Kit Hinrichs

Ramana Rao

Consumption & Consequences

How are we using the Earth? What does it mean for our future well being?

Energy

What are our sources of energy? How has this changed since 1900?

Water

Where do we get fresh water? How do we use it?

Food

How did food production keep pace with population growth? How much of what kinds of proteins do we consume?

Materials

How has material production grown in the last few decades? How does the U.S. compare to the rest of the world?

Land Use / Degradation

How is the Earth's land used by humans? How much of the Earth's forest remains? How extensive is land degradation?

Pollution

What are the main types and sources of pollution? How extensive is air, water, and atmospheric pollution?

Biodiversity

How many species of what types of animals and plants are there? What are the causes of extinction and how does the current rate compare to the past?

Climatic Change

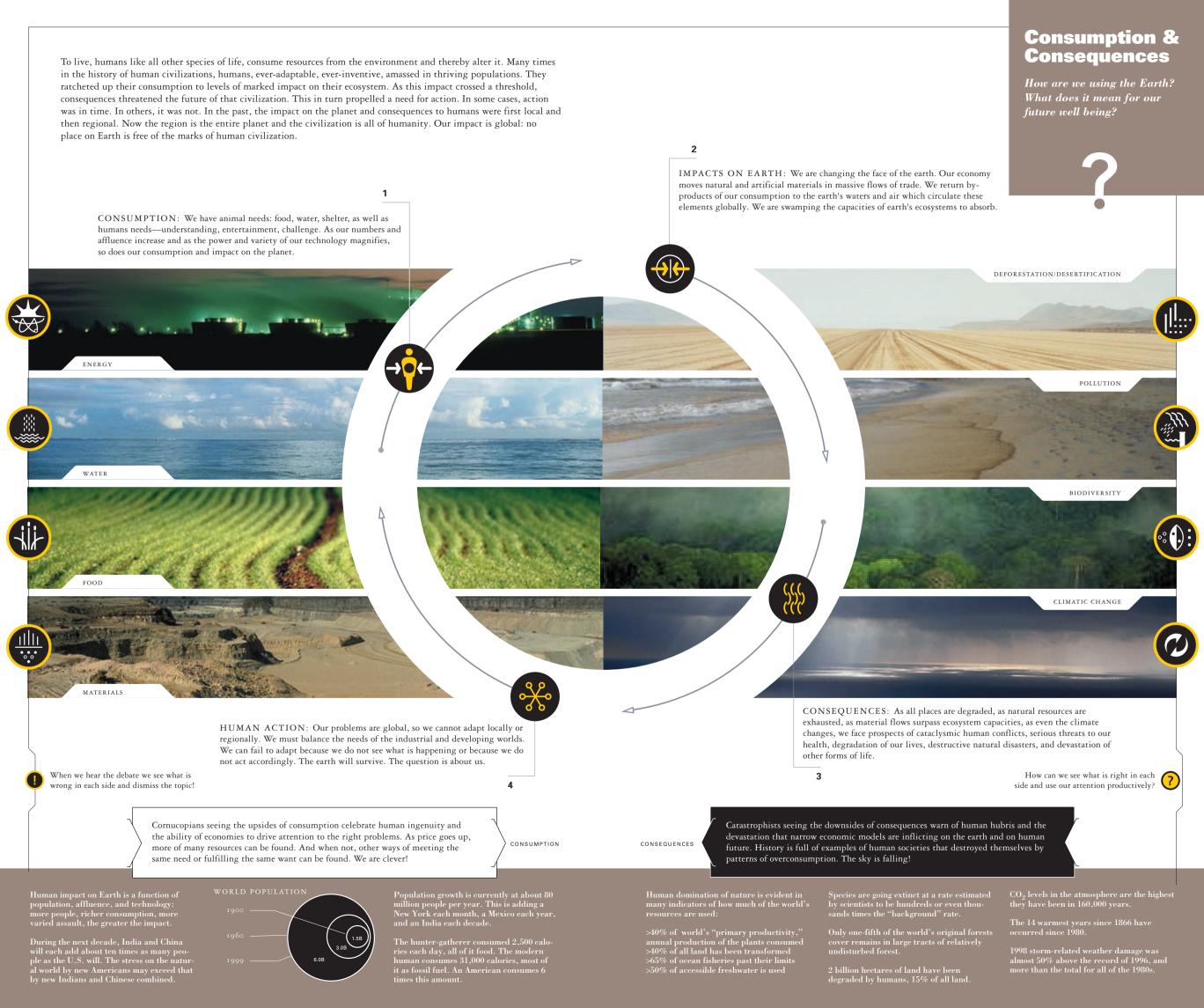
How has global temperature changed in recent times? What climate changes and consequences could be triggered?

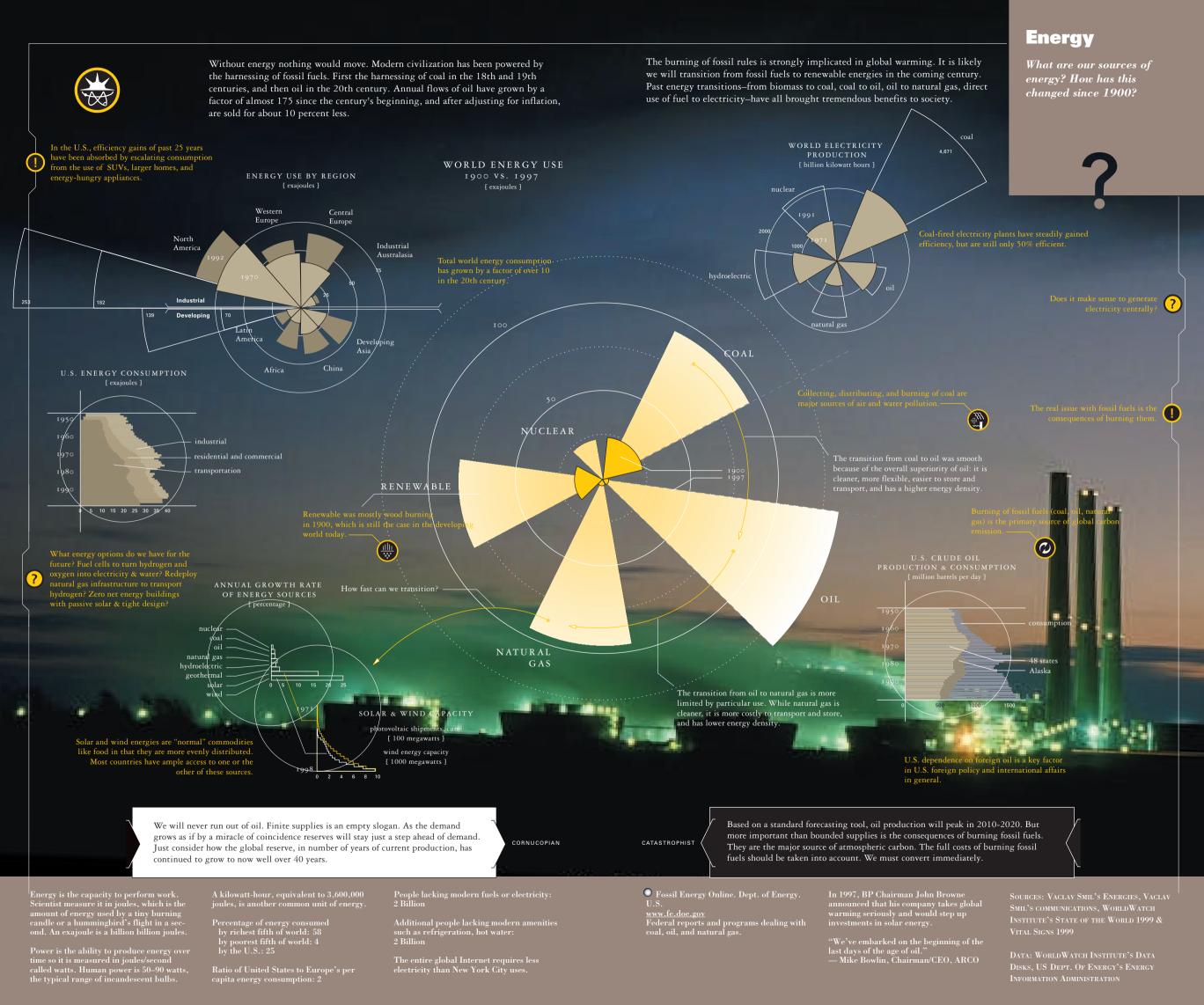
Links & Resources

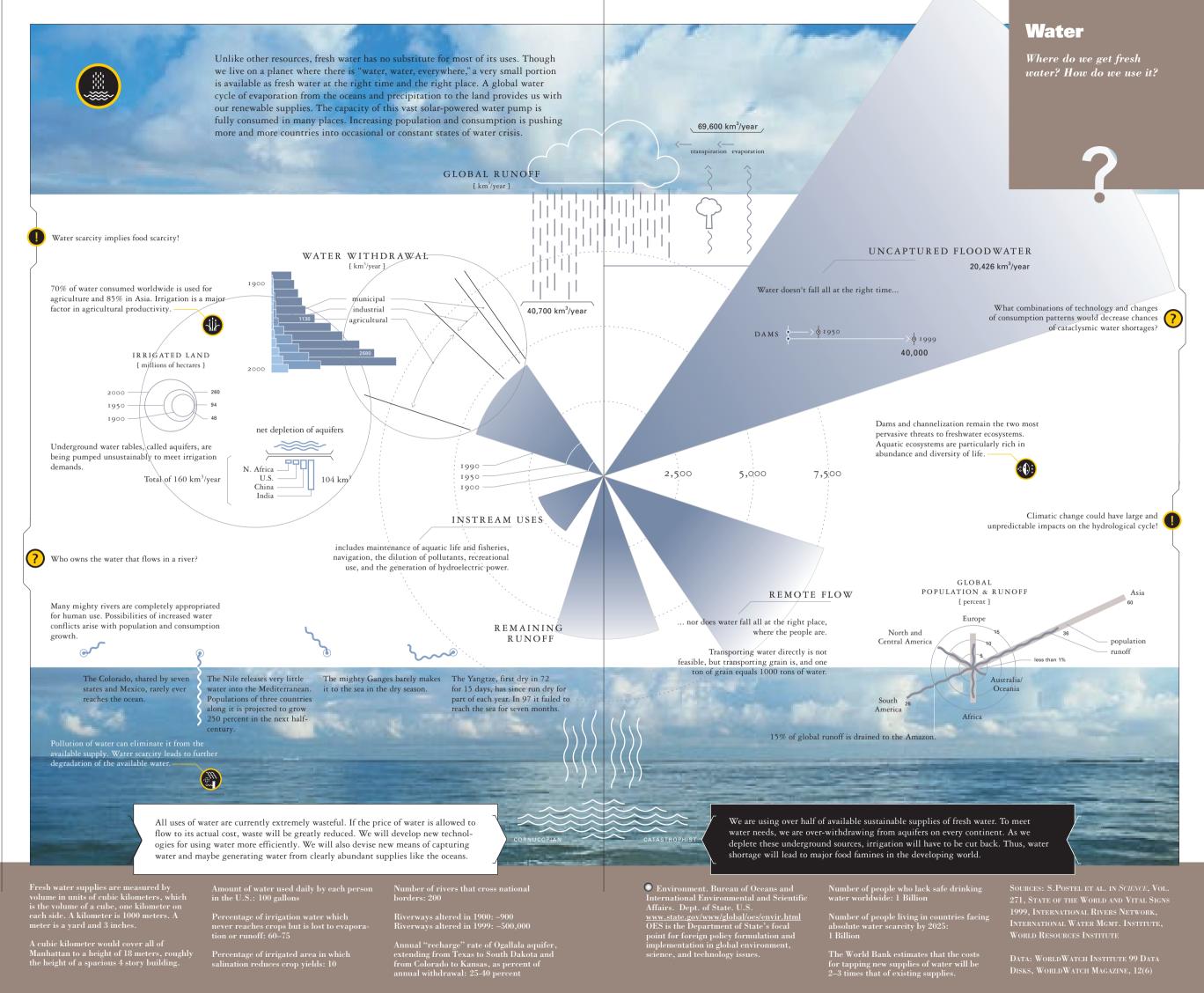
How are the topics connected? Where can I find more information?

Organizations

What governmental and research organizations provide information and data? What organizations focus on environmental issues?







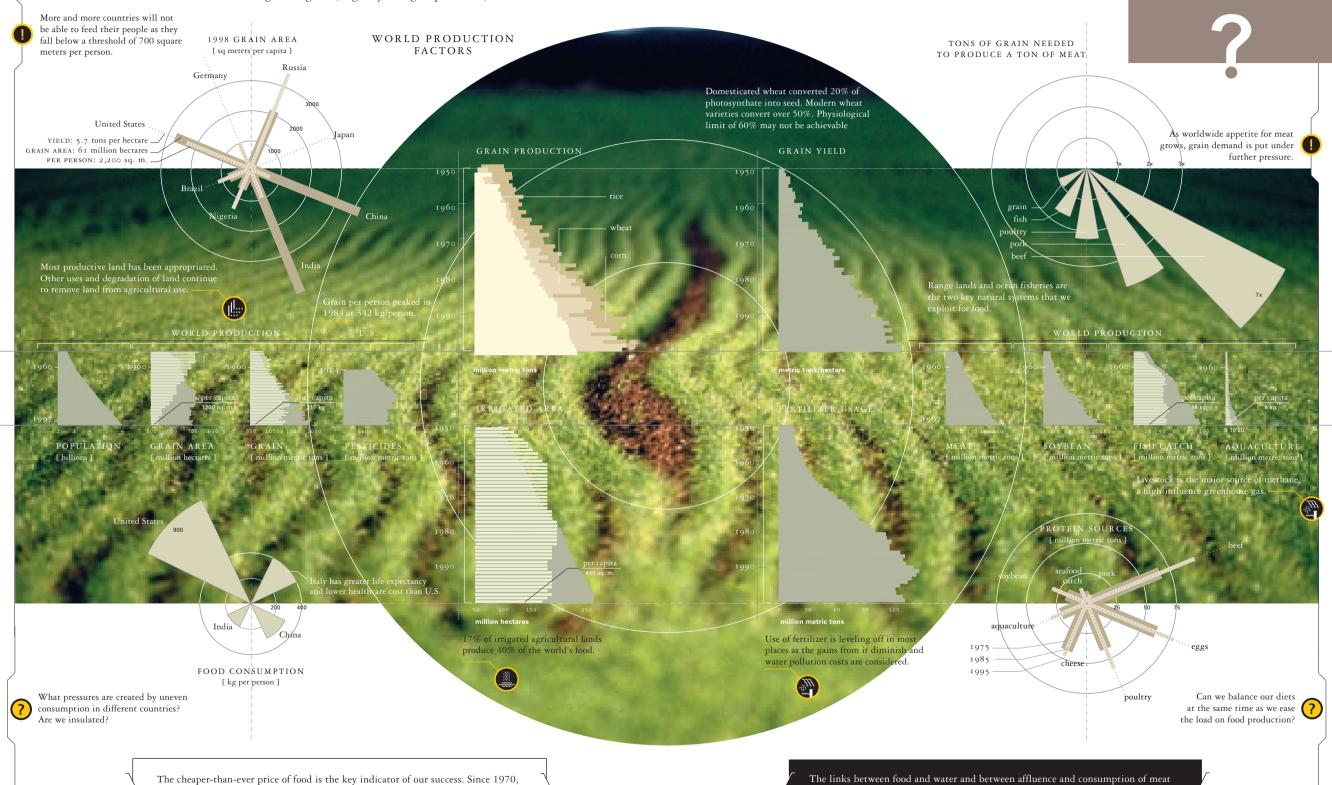


One of the greatest technological achievements of the last fifty years is that food production has outpaced population growth. Historically, food production was increased by expanding cropland. Since mid-century, cropland expansion has not kept pace with population: grain area per person has fallen by a half. Yet, food production has increased because the yield from agricultural lands has increased dramatically. This feat was achieved primarily through the increased use of three technologies: irrigation, higher-yielding crop varieties, and fertilizers.

The gains from these past advances are diminishing rapidly. The increasing yield, which grew 2.1 percent per year from 1950 to 1990, has dropped to 1.1 percent per year in the 1990s. 1984 was the peak year for grain production per person. Meanwhile, increased affluence is driving increasing production of various protein sources, many of which are bumping up against their own limits.

Food

How did food production keep pace with population growth? How much of what kinds of proteins do we consume?



Small Farms @ USDA. Dept. of Agriculture. U.S. www.usda.gov/oce/smallfarm/sfhome.htm This site is intended to provide small farm ers with a one-stop internet location that serves as a gateway to information about USDA programs specifically designed to assist small farmers.

Percentage of world's food provided by rice, corn, and wheat: 80

to realize the potential of aquaculture and bioengineered crops.

they have claimed that we are running out of technology. Breeding, fertilizers, and

other established techniques continue to produce gains, and we haven't even begun

Current grain stockpiles have shrunk to less than 2 months supply.

The U.S. has the most hungry people of any industrial nation at 26 million. Brazil has the most of any Latin American nation at

CORNUCOPIAN

Number of children that die daily from malnutrition: 19,000

Percentage of children under five in South Asia stunted by malnutrition: >60

CATASTROPHIST

Increase in meat consumption in last population doubling: 4 times

increase chances of major famines and conflicts. As aquifers deplete, India faces

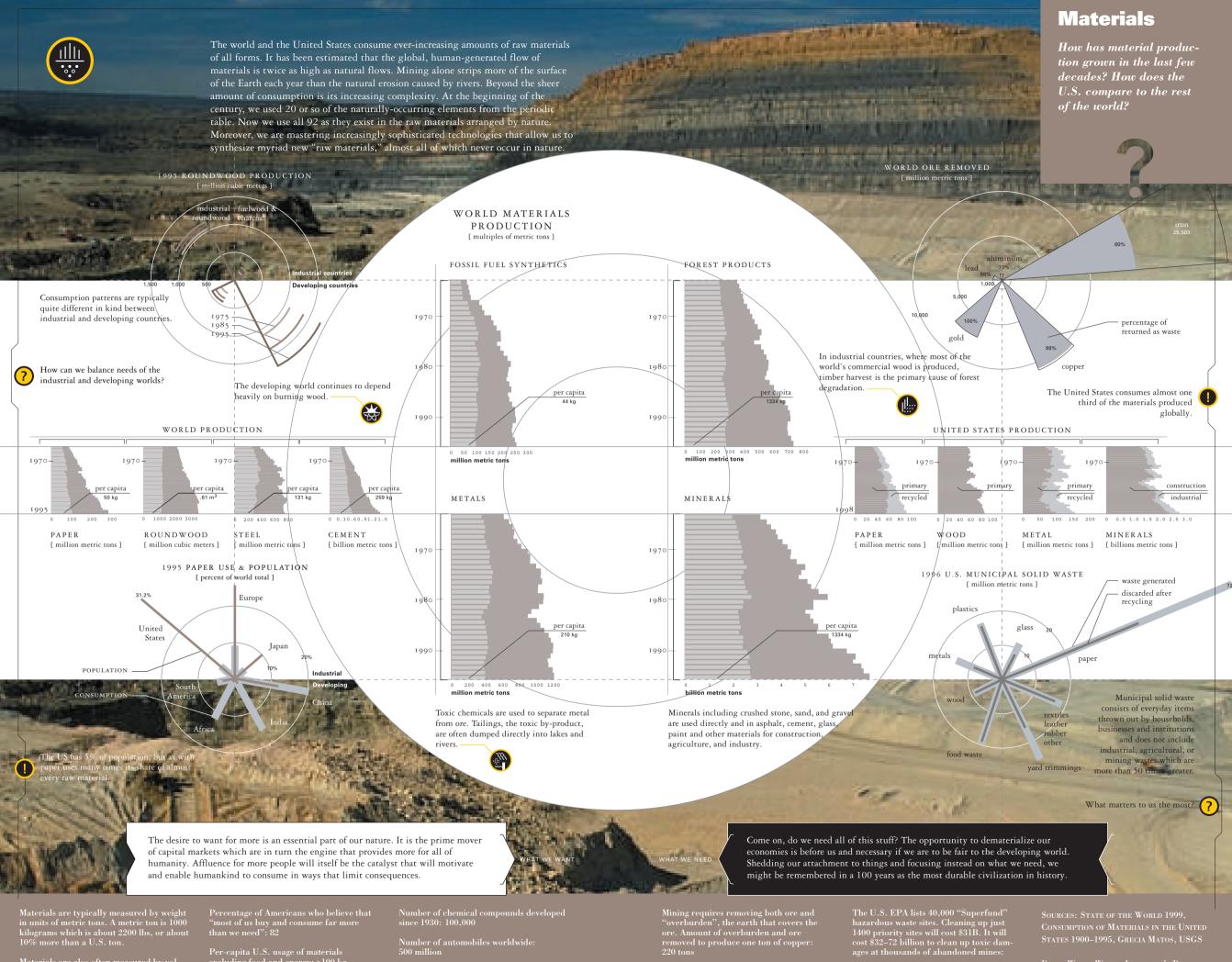
and consumes more meat, they alone could absorb entire world grain shipments.

prospects of massive drop in irrigated land. And as China diverts water to industry

Number of disputes between countrie over ocean fisheries in 1997: >100

World Resource 1998-99

DATA: WORLDWATCH INSTITUTE'S DATA DISK. U.S. EPA, U.S. DEPT. OF AGRICULTURE, U.N.



Materials are also often measured by vol-ume, as in the case of roundwood, using the unit of cubic meters, which is about 1/3 more than a cubic yard. A cord of wood is 3.6 cubic meters.

Per-capita U.S. usage of materials excluding food and energy: >100 kg

rease in materials usage if entire world d at same intensiveness as Americans:

Percentage of cars consumed by industrial nations: 87

Waste generated in production of 2 gold wedding rings: 6 tons

Length of rivers and streams in the U.S polluted by mining: 19,000 kilometers

Municipal solid waste generated by each American annually: 1600 lbs Amount of paper: 600 lbs

DISK, U.S. Environmental Protection Agency, Carbon Dioxide Information



Of the 51 billion hectares of the surface area of the Earth, 13.1 billion hectares are not covered by ice or fresh water. This fixed stock of land must meet all our agricultural, industrial, municipal, materials, and recreational needs, as well as provide all ecosystem services needed by all life on the planet. Desertification, plant and soil deterioration, erosion, salinization from excessive irrigation, and other forms of land degradation reveal a ongoing pattern of overdrawing of land stock.

cropland

ecologically

roads & built-up area

non-productive land

GLOBAL LAND STOCK { billion hectares }

wasteland &

unused grassland

semi-arid

deserts

A key notion is the carrying capacity: how many people can be supported by a given amount of land indefinitely. A related notion of ecological footprint inverts this notion asking how much land is needed to supply the materials and absorb the wastes of a given population. Either way, with the population at 6 billion people, consuming by current patterns and technologies, it appears we have surpassed the capacity of available land.

cropland

non-productive land

cropland & pasture

pasture

cropland

forests for roundwood

preserve all "wilderness

balance CO2 emission with "carbon sink" land

GLOBAL FOOTPRINT ANALYSIS

I billion hectares 1

1 billion hectares

Land Use **Degradation**

How is the Earth's land used by humans? How much of the Earth's forest remains? How extensive is land degradation?



What tools can we use to weigh the impacts of consumption options?

land will recover from droughts.

50% of arid lands have been degraded!

deforestation

Desertification is the degradation of arid, semiarid and dry subhumid lands as a result of excessive use by humans. It is a process that involves a continuum of change from slight to very severe degradation of plant and soil resources. A common misconception is that desertification is directly related to the spread of deserts, but rather usually results from excessive

use of arid land. Another misconception is that droughts are responsible.

Though they can increase the likelihood of desertification, well-managed

Oceania

LAND DEGRADATION BY CAUSE

[million hectares]

Almost half of our original forest cover is gone, much of it destroyed within the past three decades. Today, just 40 percent of this remains as frontier forests, large tracts of relatively undisturbed forest. Healthy forests provide vital ecosystem services including erosion control, provision of water across rainy and dry seasons, and regulation of rainfall.

What mechanisms for balancing local

and global interests are most effective?

In industrial countries, where most of world's commercial wood is produced, logging is the primary cause of deforestation. In developing nations, land clearing for agriculture and grazing are also major



North and Central America

70% of intact virgin forest

is threatened by logging!

South America Africa

curbing the rate of environmental degradation.

REMAINING & FRONTIER FOREST

[billion hectares]

In many parts of the world, single species timber plantations replace old-growth forest-eroding species diversity, introducing toxic insecticides, and displacing local people. Tropical forests are home to more than 50% of all species.

contamination of resources has resulted from satisfying the consumption demands DEVELOPING

INDUSTRIAL

Rapid population growth is a major driving force behind rain forest destruction, soil erosion, overgrazing, and salinization of irrigated fields. Continuing on the current development path will actually hit the less fortunate the hardest. We must move toward more environmentally sound models.

Percentage of world's remaining fronti forest housed by Russia, Canada, and Brazil: 70

The poor are the victims, not the culprits. Much of the depletion and

of industrial nations. Changing consumption habits there should be the priority in

Percentage of remaining frontier forest hreatened by human activity: 39

Percentage of frontier forest falling entirely within the temperate zone (e.g. most of the U.S. and Europe): 3

Percentage of frontier forest in the inhos pitable northern zones, boreal regions, within Canada, Russia, and Alaska:

Percentage of frontier forest outside of boreal regions that is threatened: 75

Top 150 non-wood forest products, such as rattan, cork, nuts, oils, and medicinals are worth more than \$11B a year.

Overgrazing and woodcutting are primary causes of

desertification in rangelands. Acceleration of water and

wind erosion are primary causes in rain-fed croplands.

Improper water management leading to salinization is

the primary cause for deterioration of irrigated lands.

Percentage of land that is dryland in Africa: 66 Percentage degraded: 73

Percentage of land that is dryland in North America: 33 Percentage degraded: 74

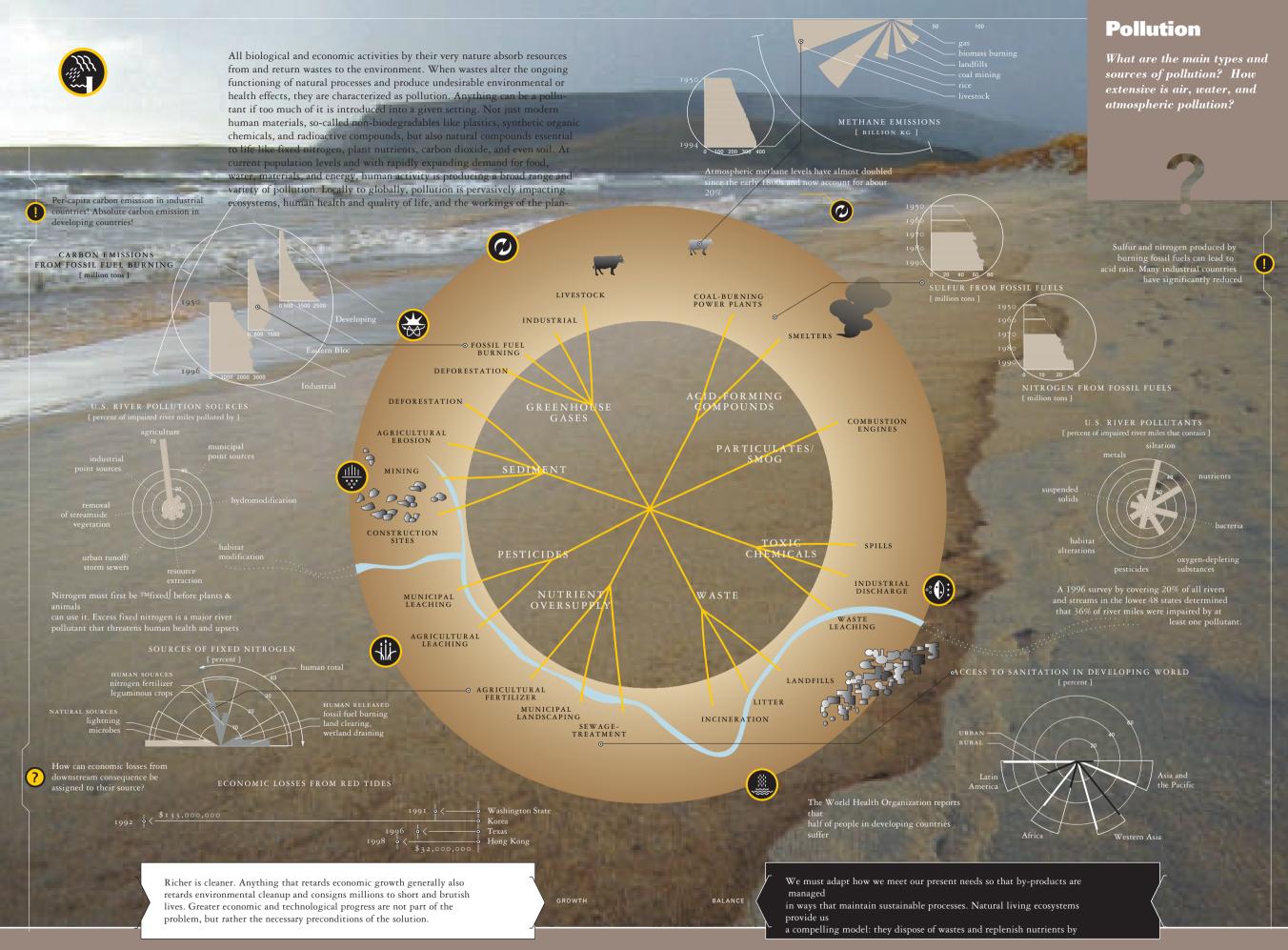
Rate that arable land in the drylands is being degraded: 10 million hectares/year

Central America

America

An "ecological footprint" analysis of North America, which accounts for materials and energy usage and waste generation, shows that the world would need to be 3 times as big to support the current population at same level of con-sumption as North Americans.

STATE OF THE WORLD 1999



"No ecosystem on Earth's surface is free of pervasive human influence," — Vitousek et al. in *Science*

"It's not that we're running out of stuff. What we're running out of is what the scientists call 'sinks', places to put the by-products of our large appetites."

— Bill McKibben in Atlantic Monthly

In a 1991 waste survey of more than 100 nations, 90% that responded agreed that uncontrolled dumping of industrial wastes is a problem, 66% that hazardous industrial waste is disposed of at uncontrolled sites, and nearly 25% that they dumped industrial waste directly into oceans.

More than 20,000 rivers, lakes and estuaries across the U.S. are polluted.

The U.S. with 5% of the world's population is responsible for 20% of carbon emission.

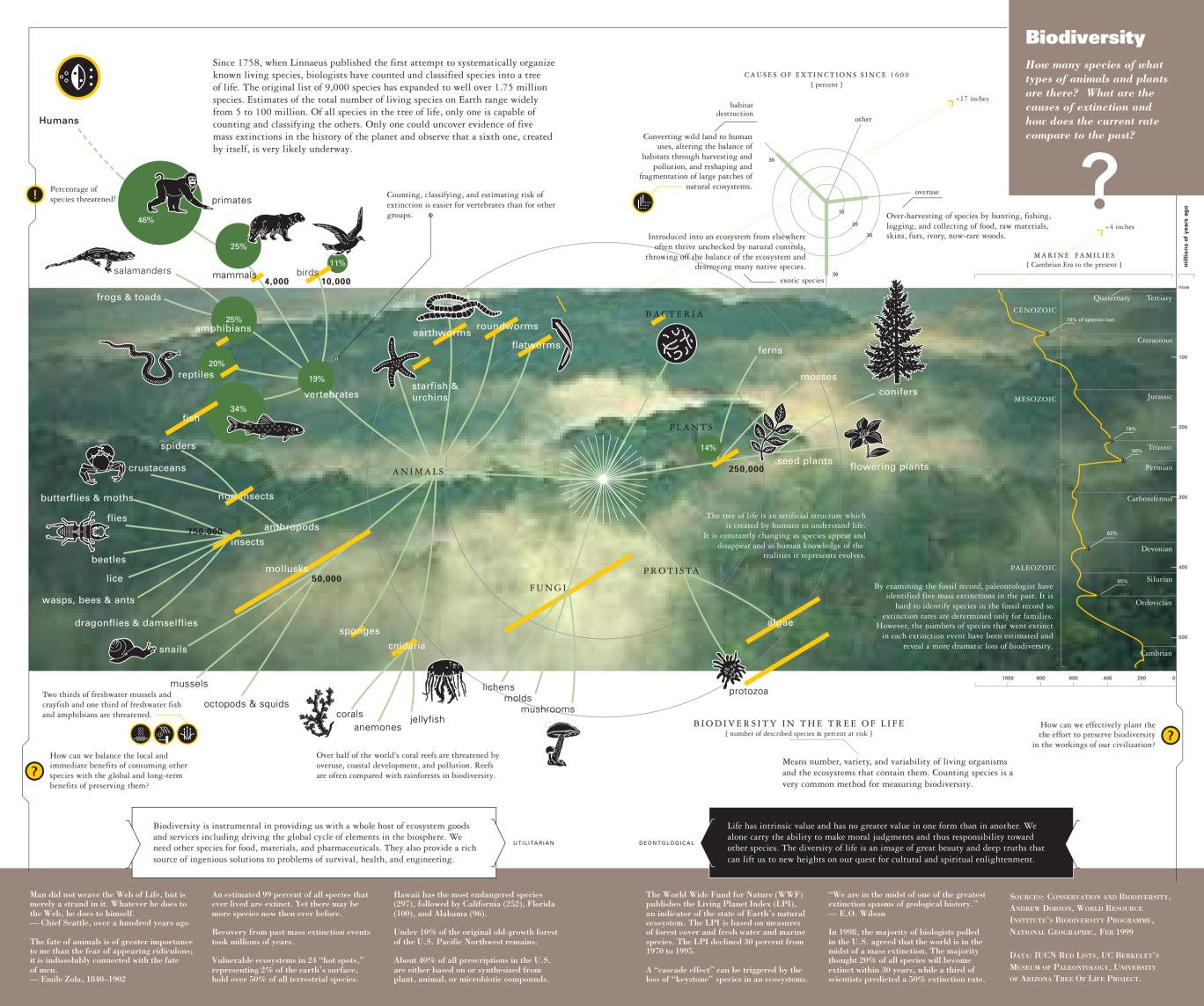
85–90 percent of pesticides used in agricul turally and municipally never reach their targets.

The "Dead Zone" in the Gulf of Mexico caused by nutrient runoff is eleven times the size of Lake Ontario.

WWW.nsd.ca/ The Earth Negotiations Bulletin provides balanced, objective and informative sum-maries of environment and development negotiations.

● Concerned Citizens. Environmental Protection Agency. U.S. www.epa.gov/epahome/citizen.htm
Designed for citizens to become familiar with environmental issues and potential environmental and human health risks caused by pollution. Learn how to protect the environment.

NEBEL AND R. WRIGHT, 7TH Ed., 2000, STATE OF THE WORLD 1999.





The Earth's climate has done abrupt flip-flops often!

Climate is the essential foundation of all systems on the earth. A rapid change of climate would have widespread and devastating effects on human civilization, as well as all life and the natural world. Human activity, particularly carbon dioxide emission, is strongly implicated in a global warming trend which may in turn upset the global climate. The atmosphere, oceans, and land form a giant weather machine, fueled by the Sun and shaped by the rotation of the Earth. The oceans play a central role as the major source of water for the hydrological cycle as well as for their innate capacity to absorb heat. Furthermore, the giant ocean conveyor belt which moves heat in huge masses of warm water plays an enormous role in global climate. The conveyor completes a cycle over a period of 1000 years.

The North Atlantic current, with the flow of

100 Amazons, keeps Europe 9-18 degrees Fahrenheit warmer than other land of comparable latitudes.

The conveyer is driven by the flow of warm salty water to the North Atlantic. There, cold dry Arctic winds cools the water and evaporates water from the surface, making it saltier and denser. It drops down 4000 meters and flows back to the tip of Africa and the Indian and Pacific oceans. More rainfall or melting e North Atlantic, as predicted for globa ould disrupt the "flushing" effect of falling dense, salty water of warm waters to the far north. A failure of the conveyer like a climate flip-flop, leading to the next ice age.

ends confirm projected consequences cluding receding glaciers, rising sea fs, and migrating plants and animals.

Climatic Change

How has global temperature changed in recent times? What climate changes and consequences could be triggered?

Are we investing enough in understanding the global weather machine?

GLOBAL AVERAGE TEMPERATURE

Aglobal temperature shift would have profound effects on natural ecosystems, especially when compounded with pollution and habitat destruction. For example, the present sites of many nature preserves may not support he species for which they were established.

ECONOMIC LOSSES

Human society has made great investments aligned with the climate as it is. For example, half of all people live in coast cities. Rises in sea level would flood many coastal areas and make them more prone to storm damage. Similarly, agricultural investments are aligned with current weather patterns.

The record heat of 1998 unleashed widespread natural disasters: droughts in 45 countries; massive fires in tropical and subtropical forest from Mexico to Indonesia, which blackened 3,500 square km; floods in China and Bangladesh, which dislodged 80 million people; severe storms and epidemics in Africa and all the Americas including Hurricane Mitch, which killed 18,000 people in Central America; and heat waves in the U.S., India, and Southern Europe.

Where there are threats of serious or irreversible damage, lack of scientific certainty should not be used as a reason for postponing cost-effective measures to prevent environmental degradations. Employing these measures is like taking insurance: we must avoid highly costly even if uncertain outcomes.

ATMOSPHERIC CONCENTRATIONS OF CARBON DIOXIDE (CO2)

CO2 concentrations and temperatures are measured for periods prior to instrumental and historical records in many ways. Scientists analyze ice cores, tree density, tree rings, lake bed sediment, and corals.

levels in 160,000 years, while global temperatures are at at their highest since the Middle Ages.

MONTHLY CO2 CONCENTRATIONS

MEASURED AT MAUNA LOA, HAWAII

Cold, salty deep c

The seasonal rise and fall of carbon dioxide shows the breach of life on the planet.
Levels rise from fall to spring as plane matter releases carbon dioxide. Levels fall from spring to fall as carbon dioxide is consumed by growing plants through photosynthesis

Scientist still disagree on how climate works and what may lead to what. Meanwhile, proposed corrective environmental policies would have minuscule impact, while risking global economic growth. Since wealthier is healthier, ill-conceived policies may themselves have the exact opposite of their intended effect.

"The balance of evidence suggests that there is a discernible human influence on global climate." — U.N. Panel of Scientists in 1995

parts per million by volume

т8ос

Global average temperature has risen about 1 degree Fahrenheit since 1860. Future warming is predicted to be 2 to 6 degrees by 2100 compared to 5 to 9 degrees since the depth of the last ice age.

Stabilizing atmospheric $\rm CO_2$ concentrations at safe levels will require a 60–80 percent cut in carbon emissions.

The climate seems to have been remarkably stable since the last ice age ended 10,000 years ago. As far as scientists can tell, global temperature varied by less than one degree since the dawn of civilization.

OGlobal Warming. Union of Concerned

www.ucsusa.org/warming/index
The Union of Concerned Scientists works to
ensure that all people have clean air and
energy, as well as safe and sufficient food.

Mount Everest rises to 29,035 feet, seven feet higher than the altitude recognized for 45 years. Source: Bradford Washburn, 89. Millennium Expedition to Mount Everest.

Mean sea level has risen by 4 to 10 inches over the last 100 years. Models project that sea levels will rise another 6 to 40 inches by 2100 with a best estimate of 25 inches. Two Pacific Island atolls have been totally

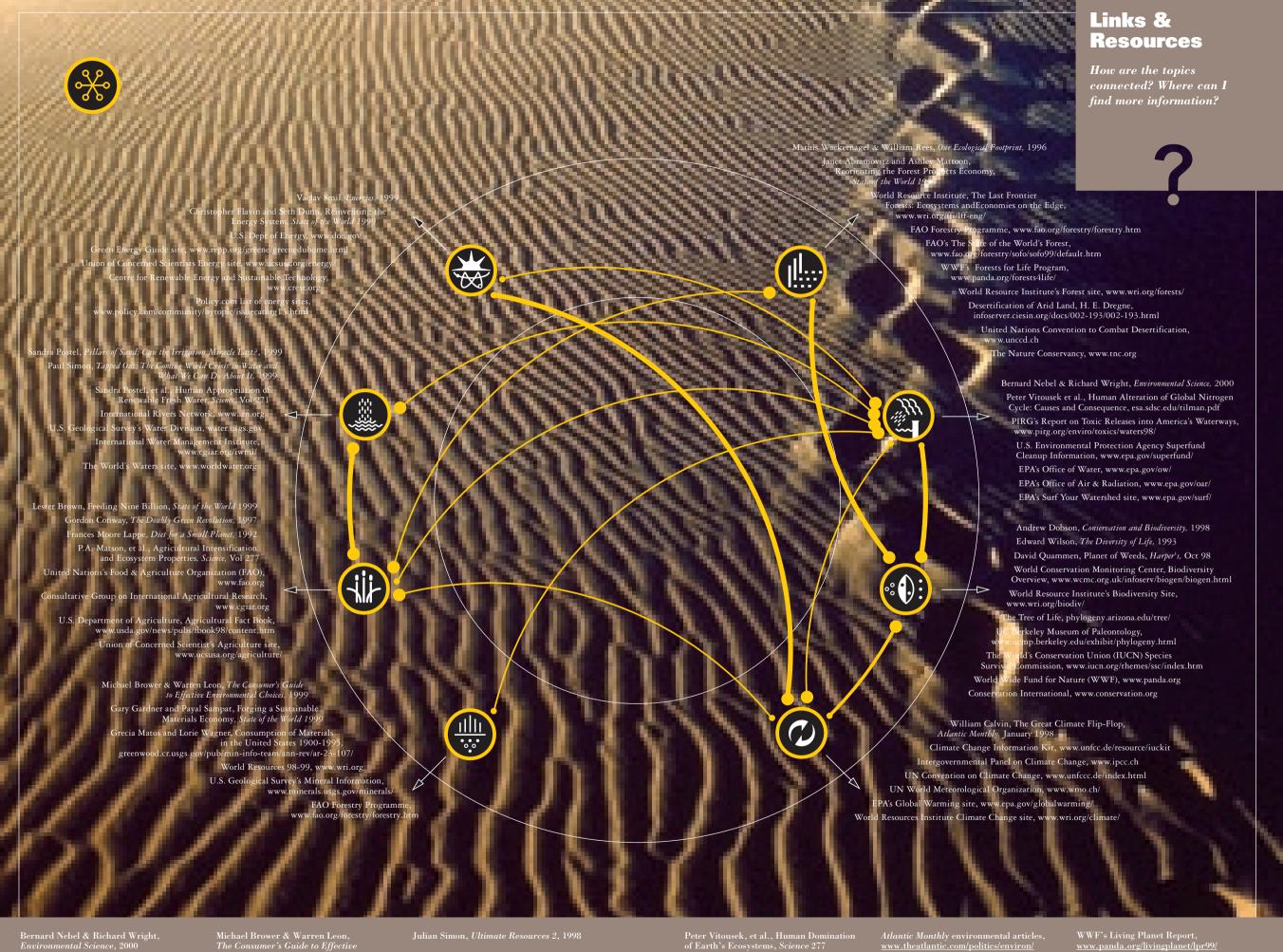
PRECAUTIONARY

Butterflies in Europe are migrating 20–150 miles north. They are very delicate creatures, our canaries in a coal mine.

www.fws.gov/r9endspp/endspp
Protecting endangered and threatened
species and restoring them to a secure status in the wild is the primary objective of
the endangered species program. Includes
reports and other data.

WILLIAM CALVIN, ATLANTIC MONTHLY, JANUARY 1998, BERNARD NEBEL & RICHARD

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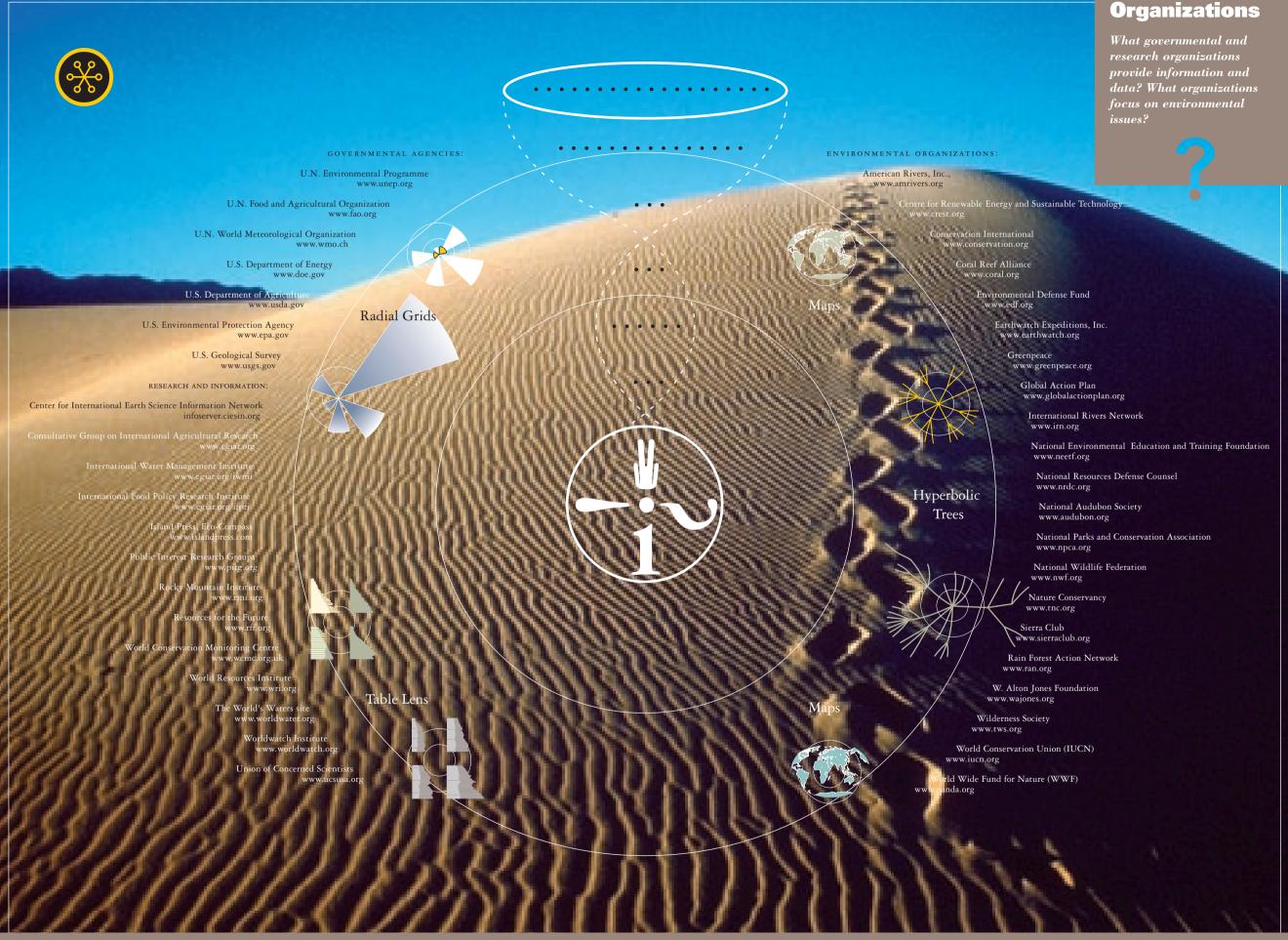
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Rocky Mountain Institute, www.rmi.org

Union of Concerned Scientists, www.ucsusa.org



Photography: Corbis—Craig Aurness, CRD Photo, Michael Cuthbert, Robert Landau, Jim Richardson; Graphis Stock—Gary Faye, Gildo Nicolo Spandoni, Adam Woolfitt; Swan Stock—Peter Goin.

Advisors: Daniel Russell, Vaclav Smil, Kevin Mullet, Hector Moll-Carillo.

www.epa.gov/ceis CEIS is the U.S. Environmental Protection Agency's (EPA) new one-stop source of data and information on environmental quality, status and trends.

● EPA Global Warming Site.
Environmental Protection Agency. U.S.

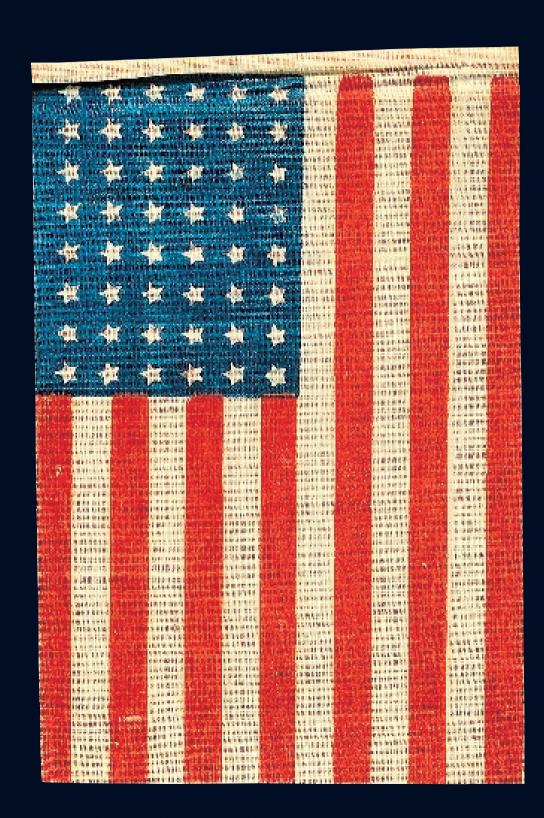
www.epa.gov/globalwarming
The U.S. Global Change Research Program
(USGCRP) coordinates the world's most
extensive research effort on climate change.

Natural Hazards. Dept. of Interior. U.S. www.doi.gov/nathaz/index.html
Page outlines information, descriptions, programs and policies involving such natural hazards as wildfires, earthquakes, floods, etc.

O National Biological Information Infrastructure. U.S. www.nbii.gov/

www.nbii.gov/
The NBH is an electronic gateway to biological data and information maintained by federal, state, and local government agencies; private sector organizations; and other partners around the nation and the world.

President's Council on Sustainable
Development. U.S.
www.whitehouse.gov/PCSD
PCSD has advised President Clinton on
sustainable development and develops bold,
new approaches to achieve economic, environmental, and equity goals.



Tom Wood

Life in America

Is the quality of life better or worse than it was fifty years ago?

American Family

Is the quality of life for your family better or worse than it was fifty years ago?

American Society

Is the quality of life for others better or worse than it was fifty years ago?

Social Issues

Have social issues and trends had an impact on your life?

American Technology

Have inventions and technology had an influence on your life?

American Achievement

What are America's greatest achievements?

American Failure

What are America's greatest failures?

American Ingenuity

What factors contribute to America's success?

Collective Memory

What world events are most memorable to Americans? What world events are most memorable to Americans old enough to remember?

Historical Context

How well do Americans remember history?

What's life in the United States like today? Is it better than it was 50 years ago? Has it stayed the same or gotten worse?

Here are 10 questions and answers from a recent survey, conducted by the Pew Research Center under the direction of Andrew Kohut, that explore some of the topics concerning the past century in America. There are no conclusions, just reactions that show how the average American generally feels about the quality of his, her or someone else's life.

For a number of social, economic, political and technological reasons, Americans think that life is generally getting better.

When asked if life is better now for them and their families, Americans responded.



When asked if life was better for Americans overall, they responded with quite a different answer.



Is the quality of life for your family better or worse than it was fifty years ago?

Americans generally see the Twentieth Century as a time of significant economic, social and technological progress. As individuals, as families and as members of various demographic groups, nearly two-thirds of Americans surveyed— men and women, whites and blacks, young and old—say that their

lives are better today than were the lives of their families fifty years ago.

Family

How Americans view the quality of life for their families today.

Gender	better	same	worse
MEN	63%		33 ()
WOMEN	62	4 ا	34
Age			
AGE 18-34	59%		34
AGE 35-54	66	<u>्र</u>	30 (
AGE 55-64	66		34
AGE 65 OR OLDER	57	<u> </u>	40
Race			_
WHITE	62 %	<u>고</u>	34
BLACK	67	4 الله الله الله الله الله الله الله الل	29
HISPANIC	57	41	39 ()
Income			
\$50,000 OR MORE	69%	<u>3</u>	28
\$30,000-\$49,999	65	ر ع ا	31
\$20,000-\$29,999	60	4)	36
\$20,000 OR LESS	47	<u>3</u>	49
Education			
COLLEGE GRADUATE	67 %	4	29 (
HIGH SCHOOL GRADUATE	60	5	35 (
SOME HIGH SCHOOL	58	41	38 ()

Depression Generation born in 1929 or before World War II Generation born before 1933 Swing Generation born 1933-1945 Baby Boom Generation born 1946-1964 Generation X born 1965-1976 Generation Y born 1977-2000 THE GOOD

40% of those who see their lives as better cite prosperity, higher pay and financial security as reasons for improvement. This is true of all major demographic groups.

THE BAD
16% of Americans
say the pace of life is
to blame for life being
worse in America.

THE UGLY
Americans who say
their lives are worse
today blame the
breakdown of family
values, moral decay,
crime and drugs in
equal numbers as
the primary reasons.

The perception that life is better today is especially strong among the wealthy and well educated. Almost 70% of people with incomes of more than \$50,000 and a similar number

of those with college degrees hold this view. Americans with incomes of less than \$20,000 are the rare group who say their lives are no better than they were fifty years ago. Children don't necessarily want more time with their parents, but they would like their parents to make more money, according to a recent study. Although a majority of Americans say that their lives are better today than they were fifty years ago, a parallel story is not nearly as optimistic. Misgivings about America today are focused on the declining moral climate, with people from all walks of life looking skeptically at how the country has changed culturally and spiritually.

Others

How Americans view the quality of life for other groups.

Demographic groups	better						same	worse
WOMEN	83%						3	(9)
DISABLED PEOPLE	82						10	8
AFRICAN AMERICANS	81						13	(5)
HISPANICS	65					30		(5)
WORKING CLASS	60				15			25 ()
SENIOR CITIZENS	61				14			25 ()
GAYS AND LESBIANS	61				25			13 ()
WHITE MALES	53				30			17 (
MEN	51				31			18 ()
MIDDLE CLASS	51				27			22
RELIGIOUS PEOPLE	46%				34			20
CHILDREN	46			10				44 (
TEENAGERS	33		111 (55 (
UNION MEMBERS	35			35				29 ()
FARMERS	20	15						65 ()

WOMEN AT WORK
In 1955, 36% of women
were in the work force,
compared to 60% today.
In 1955, 85% of men
were in the work force,
compared to 75% today.

AFRICAN AMERICANS
68% of blacks say
their lives are better
today than fifty years
ago, compared to
83% of whites who
feel the lives of blacks
have improved.

MINORITY BUSINESS
The number of minority
businesses has increased substantially.
There are 46% more
black-owned firms,
76% more Hispanic
and 56% more Asianowned companies.

Union membership accounted for 16% of the work force in 1990 with over 6.5 million members.

81% of seniors are more likely to say that their lives have improved as compared to 57% of the younger generation.

56% of the public say the lives of teenagers are worse today, and 44% view children's lives as difficult. Parents with children have a particularly dim view of their future. 65% of Americans say that farmers' lives are worse today than they were fifty years ago. Only 20% of Americans say farmers' lives are better today. FARMS
In 1950 there were
more than 5.5 million
farms with an average
of 213 acres. Currently
there are 2 million
farms with an average
of 471 acres.

The Moral Majority, founded in 1990, was the first evangelical group to become active politically, advocating conservative moral and political positions. USA.FYI

The work week in 1973 was 40.6 hours, and the average time spent on leisure was 26.2 hours. Today the work week averages 51 hours with 19.5 hours of leisure time.

Century—the civil rights movement and women in the workplace—are woven into our cultural identity and viewed favorably by nearly everyone. The benefits of other changes, such as the growth of suburbs, spending habits and even popular music, are more ambiguous to the public, and few recent trends are seen as improvements by a clear majority of Americans.

How social issues and trends impact American life.

DEMOGRAPHIC GROUP RESULTS

\$75,000 or more \$20,000-29,999 53 %

Positive response to social trends and issues

\$75,000 or more \$20,000-29,999 40 %

Blacks Whites

		College Graduate 78% High School 52%	College Graduate 22 % High School 44 %	Age 18-34 27% Age 65+ 15%	Age 18-34 24% Age 65+ 6%	
Issues and trends of the decade	better			same		worse
MUTUAL FUNDS	69%	•		(3(28
HOME SCHOOLING	43		38			19 (
GAY RIGHTS	39		32			29 ()
LOTTERIES	35		31			34
HMO/MANAGED CARE	31	20				49 (
TELEMARKETING	21	23 (51
RAP MUSIC	14	33 (53 (

Issues and trends of the century

CIVIL RIGHTS MOVEMENT	84%					11 (5
WOMEN IN THE WORKPLACE	83				13	5 (10)
GROWTH OF SUBURBS	52			27		21 ()
ROCK AND ROLL	45			32		23 ()
LEGALIZED ABORTION	34		2 4			42
ACCEPTANCE OF DIVORCE	30		17			53 ()
CREDIT CARD USE	22	10				68 ()

rural areas.

SCHOOL COSTS The average annual expenditure per student in public schools was \$260 in 1950, \$955 in 1970 and \$5.532 in 1990.

GAY RIGHTS 45% of Democrats say that the gay rights movement made things better, compared to 31% of Republicans.

American Technology

Have inventions and technology had an influence on your life?



Science and technology are seen as catalysts for the century's economic prosperity. Americans celebrate the inventions and conveniences of the Twentieth Century and point to advancements in these fields as principal reasons for improvements in their families' well-being. Inventions ranging from the automobile to birth control pills to the Internet are credited with improving the quality of life in America.

How technology impacts American life.

DEMOGRAPHIC GROUP RESULTS Positive response to technology having an impact

\$75,000 or more \$20,000 or less

College Graduate 81%

High School 59%

65+years

81% 56%

76% 51%

Men Women

65+years

Blacks

72 % 57%

77%

55+years

East Coast

58% 67%

69% 55%

\$75,000 or more \$6% \$20,000 or less \$7%

College Graduate 78% High School 64%

82% 47%

			Ingli delice:	g coco.		
Technology of the decade	better				same	worse
E-MAIL	71%				20	9 ()
THE INTERNET	69			•	13 (18 (
CELLULAR PHONES	66				12 (22
CABLE TELEVISION	62				117/	21 (
FERTILITY DRUGS	43			25		32 (
PROZAC	40			42		18 (
VIAGRA	36			49		15 (
CLONING OF SHEEP	15	35				49 (

Technology of the century

rechnology of the century					
RADIO	96%				(3/1
AUTOMOBILE	91				3 6
HOME COMPUTER	87				5 (8)
HIGHWAY SYSTEM	84				3 (3)
AIRLINE TRAVEL	77				15 (8
TELEVISION	73			(5 (21
BIRTH CONTROL PILLS	72			13	10 (
SPACE EXPLORATION	72			2	2 (6
NUCLEAR ENERGY	48		22		30 (
NUCLEAR WEAPONS	19	18			63

NEW TECHNOLOGY Americans express the for communications technologies, such as e-mail, the Internet and cellular phones.

INTERNET 75% of those under the age of fifty say the Internet is a change for the better, compared to 51% of those

DEVELOPMENTS 1954 RCA produces first color television set. 1967 Public broad-casting established. 1978 Cell phone first developed by Bell Labs. 1992 The Internet is introduced to the public

TELEVISION 74% of the American households have more than one television; **74**% have cable and 84% have VCRs.

TELEVISION VIEWING Average weekly televihousehold in 1970 was 42 hours. It was 46 hours in 1980, 48.5 in 1990 and MEDICINE Prozac, Viagra and fertility drugs get mixed reviews by the public, who are uneasy about recent breakthroughs in pharmacology and biotechnology.

49% of Americans see the cloning of sheep as a change for the worse. **62**% of women say it is a change for the worse, compared to just 36% of men.

SCIENCE The public does not embrace all scientific advances. Just 48% say nuclear energy is a change for the better. and nuclear weapons are viewed as a step forward by only 19%.

In 1997 there were 48,000 Americans admitted to hospital emergency rooms with skateboard-related injuries, 33% more than

Of all cable channels, ESPN and CNN are tied for having the largest number of subscribers, 71 million.

American Achievement

What are America's greatest achievements?

Americans name the country's strong economy, social programs, advances in science,

medicine and the space program in particular as America's greatest achievements. But nothing comes close to technological progress when evaluating America's greatest achievements-not winning the World Wars or the Cold War, not the civil rights movement and not even the Social Security System that lifted so many out of poverty.

America's greatest accomplishments.

FREEDOM AND LIBERTY CIVIL RIGHTS ENDING SEGREGATION WOMEN'S RIGHTS **EQUAL RIGHTS**



TECHNOLOGY TRANSPORTATION COMPUTERS SCIENCE COMMUNICATIONS

SPACE PROGRAM



TECHNOLOGY / SCIENCE

STANDARD OF LIVING STABLE ECONOMY BETTER JOBS LOWER UNEMPLOYMENT SOCIAL SECURITY WELFARE

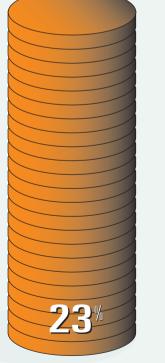


ECONOMY

MEDICAL ADVANCEMENTS HEALTH CARE



MEDICINE



NOT SURE



WINNING WORLD WAR II END OF THE COLD WAR DIPLOMACY WORLD POWER

WAR/PEACE

Over 40% cite technological advances and specifically the space program as America's most outstanding

958 NASA established

space voyage.

55 IBM introduces to conduct research first business computer 1956 Computer and space exploration. 1961 First American language introduced 5 Development of The first space first personal computer shuttle Columbia completes mission. computer produced.

International and social policies are considered by many as America's greatest achievements of the century. Victories in World War II and the Cold War are cited by only 7% of the public

In 1956 the Dow Jones index hit 500 points. In 1972 it reached 1,000 points, 2,000 in 1987, 5,000 in 1995, and in 1999 it broke 10,000 points.

Advances in civil rights and programs that lifted so many out of poverty, such as Social Security and welfare, are ranked as significant American achievements

1960 Civil Rights Act is authorized by Congress. 1972 Equal Rights Amendment approved. 1981 Sandra Day

woman appointed to

the Supreme Court.

1964 Medicare Act is passed, establishing government-run health care for senior citizens and the poor. O'Conner is the first

1953 First open heart surgery is performed. 1966 First artificial heart implant. 1967 First human heart transplant performed.

M&Ms were created for the United States military in 1940.

What are America's greatest failures?

GOVERNMENT CORRUPTION DISTRUST OF GOVERNMENT LACK OF MORALS GOVERNMENT TOO LARGE

ETHICS AND SCANDALS BUDGET AND DEFICIT

TAXES

 $When \ {\it they were asked to name the nation's greatest} \ \underline{{\it failures of the Twentieth Century}},$ Americans were split almost equally between war, morality and politics. The use of force tops the list of disappointments, followed by war, a decline in moral values and problems with politics and government.

America's greatest failures.

POVERTY IMBALANCE OF WEALTH CARE FOR THE POOR/ELDERLY HOMELESS



RICH/POOR



RACE RELATIONS

WOMEN'S RIGHTS

CIVIL RIGHTS

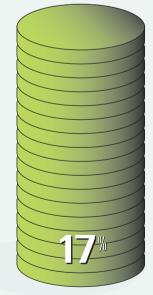
EQUAL RIGHTS

CIVIL RIGHTS

CRIME VIOLENCE INEFFECTIVE JUSTICE SYSTEM WAR ON DRUGS PRISON SYSTEM



JUSTICE SYSTEM

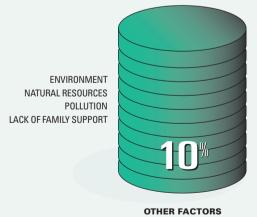


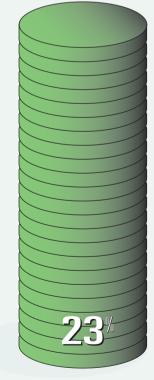
GOVERNMENT

VIETNAM INVOLVEMENT IN WARS WORLD POLICING FOREIGN POLICY WORLD INFLUENCE **USE OF POWER**



GOVERNMENT DEPENDENCY HEALTH CARE INSURANCE LEGALIZED ABORTION FDLICATION **SOCIAL SECURITY**





NOT SURE



MORALS

25% of men cite war as the nation's greatest calamity; 10% of women agree. Conversely, 18% of women think that

VIETNAM Twenty-four years after the fall of Saigon, Vietnam still haunts Americans. It is the most often mentioned moral breakdown national failure and the government's greatest mistake of the century. is the greatest failure; 10% of men agree.

50,000 conscientious to have left the country during the Vietnam conflict. 250,000 never registered for the draft, and 110,000 burned their POLICY ISSUES
Americans feel certain

policy areas, such as welfare, health care or education, are the $government's \ greatest$ failures; paradoxically these are some of the

same issues that were cited as the greatest Twentieth Century.

CIVIL RIGHTS Blacks place the treatment of minorities and intolerance at the top of their list of America's failures. 21% of blacks hold this view, compared to just **6**% of whites.

MORALITY Nearly the same number of Americans describe Clinton's lack of ethics and the Vietnam War as the nation's most

ETHICSWatergate, considered the most significant political scandal in American history, led to the resignation of Richard Nixon, the

ENVIRONMENTEstablished in 1973, Protection Agency was created to monitor the nation's environmental health.

WAR

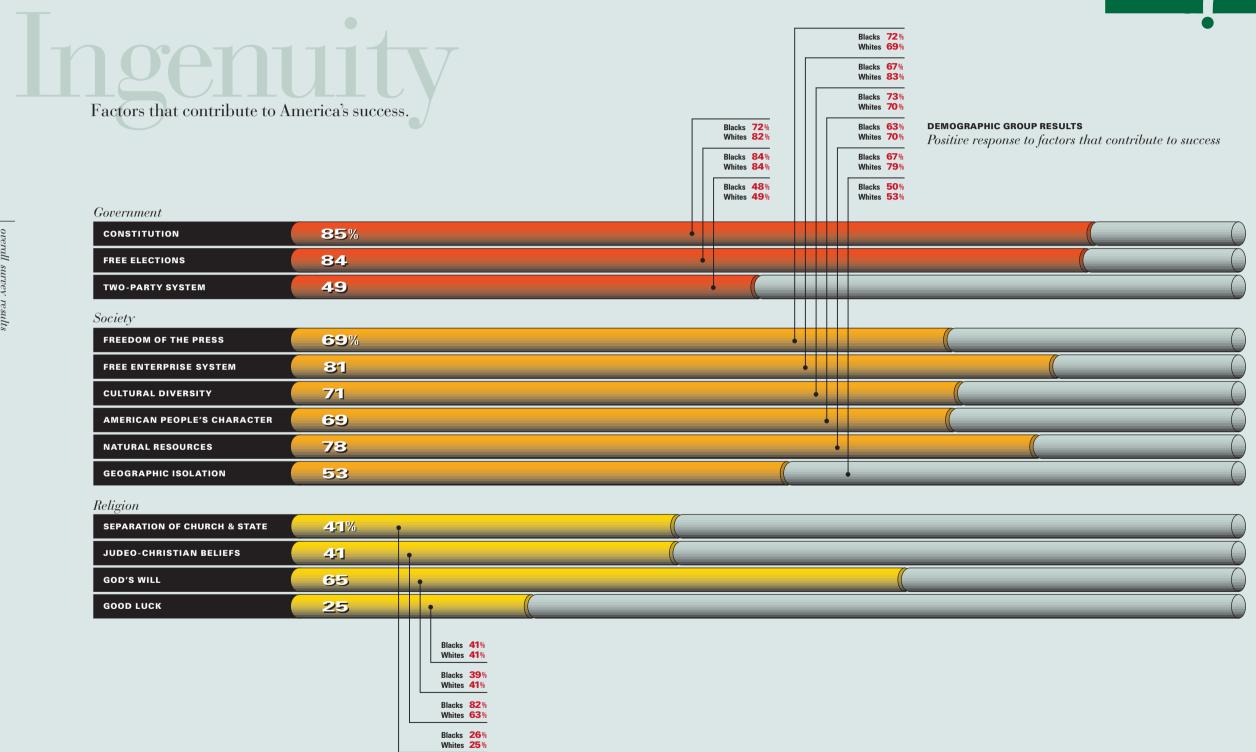
USA.FYI

College expenses hit a record high in 1990 with an Ivy League than \$20,000 a year. It is expected to cost at least \$35,000 in the year 2000.

American Ingenuity

What factors contribute to America's success?

Americans are nearly unanimous in crediting the country's social and political system for its achievements, despite today's cynicism for the government and the news media. The Constitution, free elections and the free enterprise system are viewed as the major reasons for America's success, and the country's natural resources, cultural diversity and character of the people are also cited as key factors.



One of the greatest

differences between demographic groups is their evaluation of the free enterprise system. 85% of men label free enterprise as a major reason for America's success, compared to 77% of women. 84% of 35 and older and **74**% of 18-34 years agree, compared to 83% of whites and 66% of blacks.

The total amount of United States currency in circulation totals \$450,612,505,753. In 1998 there were 189 billionaires in

Immigration has been a major factor in the growth of the United States. The number of arrivals surged around the turn of the century and, in the last decade, has risen sharply

From 1991 to 1996 alone, over 6 million people entered this country. Today there are 5 million people living in the United

91% of black women credit God's will as a key factor in America's success, and 69% of white women agree. 57% of white men also think this is true.

Seniors citizens are enthusiastic about the importance of the two-party system and geographic isolation, prominent theories of an earlier era.

In 1964 there were 7,600 shopping centers with a total of \$78 billion in sales Today there are 43,000 malls with in sales annually.

The United States is the leading exporter of wheat and corn and is second only to Thailand in exporting rice.

The United States government's annual budget for 1999 was \$1.7 trillion, compared to \$68 billion in 1955.

Memories that are shared by a majority of Americans are largely of recent events with little historical significance. An example of this would be the death of Princess Diana. These common memories, however, are central to America's cultural identity, and it is in cultural terms that Americans reflect on the various decades of the century.

Events specifically recalled by all Americans.

Since 1990

PRINCESS DIANA'S DEATH	87% international event	
OKLAHOMA CITY BOMBING	86 national event	
BEGINNING OF GULF WAR	75	
Before 1990		
TIANANMEN SQUARE MASSACRE	41%	
CHALLENGER EXPLOSION	78	
REAGAN SHOT BY HINCKLEY	67	
NIXON'S RESIGNATION	53	
ARMSTRONG MOON WALK	54	
MARTIN LUTHER KING ASSASSINATION	43	
JOHN F. KENNEDY ASSASSINATION	53	
KOREAN WAR	15	
Before 1950		
END OF WORLD WAR II	21%	
FRANKLIN ROOSEVELT'S DEATH	17	
ATTACK ON PEARL HARBOR	18	
PARIS FALLING TO THE NAZIS	7	
1929 STOCK MARKET CRASH	4	

REMEMBERING

The power of the Pearl Harbor and JFK's death are striking given that Princess Diana's fatal car accident and the terrorist blast in Oklahoma City are events of this decade.

The lives and deaths leaders remain vivid in the minds of most who are old enough to remember, though less compelling than the death of Kennedy.

The public remembers John Hinckley's attack on Ronald Reagan, Franklin Roosevelt's death, Richard Nixon's resignation, and the assassination of Martin Luther King.

SPACE PROGRAM Triumphs and tragedies of the space program are remembered with equal strength. 80 % remember where they were in 1969 when Armstrong walked on

the moon. 82% of the adults surveyed remember what they were doing when they heard about the Challenger explosion

Charles Lindbergh completes the first non-stop transatlantic flight from New York to Paris in 1927.

USA.FYI Mickey Mouse is introduced in 1928 in the Walt Disney animated film Steamboat Willie.

Americans are more

aware of national events than world events, and studies have found that men follow closely than women.

Events and people that shaped the nation's history in the Twentieth Century, such as the stock market crash, the Great Depression, Franklin Roosevelt's death and World War II, are remembered personally by very few Americans today. The country is generally united in its recollections of more recent events.

Collective Memory

What world events are most memorable to Americans old enough to remember?



Events specifically recalled by Americans old enough to remember.

DEMOGRAPHIC GROUP RESULTS

How well different age groups remember specific

ge 18-34	Age 35-54
lahoma City85%	Oklahoma City88%
allenger Disaster81%	JFK Assassination86%
If War74%	Challenger Disaster86%
agan Shot61%	Moon Walk80%
rlin Wall 55 %	Gulf War75%

Age 55-64	
JFK Assassination	98%
Moon Walk	89%
Oklahoma City	87%
Challenger Disaster	83%
MLK Assassination	82%
IVILIX ASSASSIIIAUUII	02 /0

Age 65	
JFK Assassination	93 %
Pearl Harbor	91%
World War II Ends	89%
Moon Walk	87%
FDR Death	85%

~.	
Since	IQQQ

PRINCESS DIANA'S DEATH	87% international event	
OKLAHOMA CITY BOMBING	86 national event	
BEGINNING OF GULF WAR	76	
Before 1990		
TIANANMEN SQUARE MASSACRE	42%	
FALL OF BERLIN WALL	60	
CHALLENGER EXPLOSION	82	
REAGAN SHOT BY HINCKLEY	72	
NIXON'S RESIGNATION	67	
ARMSTRONG MOON WALK	80	
MARTIN LUTHER KING ASSASSINATION	67	
JOHN F. KENNEDY ASSASSINATION	90	
KOREAN WAR	43	
Before 1950		
END OF WORLD WAR II	79%	
FRANKLIN ROOSEVELT'S DEATH	71	
ATTACK ON PEARL HARBOR	85	
PARIS FALLING TO THE NAZIS	38	
1929 STOCK MARKET CRASH	38	

AGE 18 TO 34 This generation can remember when they heard about the bombing in Oklahoma City (85%), the Challenger disaster (81%) and

The attempt on

the life of Ronald Reagan (61%) is remembered by only slightly more than those who recall the fall of the Berlin Wall (55%).

AGE 35 TO 54 Oklahoma City (88%) is

remembered as clearly as the death of John F. Kennedy (86%), even though some in this age group were not born when Kennedy was shot. Many remember

hearing about the Challenger explosion (86%) and the Moon Walk (80%). Most recall learning of Hinckley's attempt on Reagan's life (80%) and the Gulf War (75%).

AGE 55 TO 64 Almost everyone in this exactly when they heard about the assassination of Kennedy (98%). Other events of the late 1960s and early 1970s are especially memorable for

learning of Armstrong's historic Moon Walk (89%) and the death of Martin Luther King (82%). The Oklahoma City bombing (87%) and the Challenger disaster (83%) are

AGE 65 AND OLDER For senior citizens, memories of the past several decades pale in comparison to events from their younger years. Most seniors remember hearing of Kennedy's assassination (93%),

the attack on Pearl Harbor (91%) and the (89%). Equal numbers recall hearing about the Moon Walk (87%) and Franklin Roosevelt's USA.FYI Theodore Roosevelt

was the youngest president at the age of 42. Ronald Reagan was the oldest at 69.

Americans do well when it comes to placing major national events in chronological order. Typically, older Americans follow the news more closely and are generally more knowledgeable about politics and history than younger adults. Those who experience a particular event during their early adulthood are best able to put it in historical context.

How well Americans know world events.

World War II or

78% know that World War II came before the Korean War.

94% of the World War and the **Depression** generations can correctly identify the historical sequence of many major political and social events of the Twentieth Century.

Panama Canal or

70% of the public's knowledge extends beyond American wars. scandals and politics.

83% of the World War and the **Depression** construction of the Panama Canal began before the Interstate Highway System.

DEMOGRAPHIC GROUP RESULTS

How well different age groups know their history

This question stumped the public with only 24% responding correctly.

37% of the Silent Generation was espe-cially knowledgeable about the Cold War and can place the NATO alliance before the Berlin Wall. This group were young adults these events occurred.

Brown v. Board of

72% of the population knew the 1954 Brown v. Board of Education anti-segregation deci-1973 Roe v. Wade ruling that legalized abortion.

80% of Generation X is especially clear on the political clashes over affirmative action Cuban Missile Crisis or

63% of Americans got

Nixon in China

74% of Baby Boomers of President Richard Nixon's 1972 visit to China with clarity and correctly place it after the 1962 Cuban missile crisis.

Watergate or Iran-Contra

74% of Americans

80% of Baby Boomers know that Watergate, one of the defining events of their young adulthood, came before Iran-Contra No other generation scored as well as this group.

Which came first?

Which came first?	78% correct	
		Age 18 to 34 69% Age 35 to 54 76%
KOREAN WAR	14 incorrect	Age 55 to 64
Vhich came first?		
PANAMA CANAL OPENS	70%	Age 18 to 34
INTERSTATE HIGHWAY SYSTEM	17	Age 35 to 54
Vhich came first?		
NATO ESTABLISHED	24%	Age 18 to 34 22%
BERLIN WALL BUILT	52	Age 35 to 54 76% Age 55 to 64 37%
Vhich came first?		Age 65+ 28%
BROWN V. BOARD OF EDUCATION	72 %	Age 18 to 34 80%
ROE V. WADE	10	Age 55 to 64
Vhich came first?		Age 65+
CUBAN MISSILE CRISIS	63 %	Age 18 to 34 49 %
NIXON VISIT TO CHINA	17	Age 35 to 54
Vhich came first?		Age 65+
WATERGATE SCANDAL	74%	Age 18 to 34 69 %
IRAN CONTRA SCANDAL	13	Age 35 to 54 80 h Age 55 to 64 72 h

This period is thought of as a time of optimism.
The Model T is introduced, the Food and Drug Administration is of Americans are living in rural areas.

The Panama Canal is completed, the Sixteenth Amendment permits income tax . America. having vowed not to interfere in the domestic affairs of other nations, enters World War I.

Almost one-third of Americans see this period of time as swinging and carefree. Economic descriptions both the boom and bust of these years.

The harsh economic conditions of the time painted a clear picture in the public's mind. The Great Depression and economy top all

This decade is dominated by World War II, which is mentioned by over one-third of the public. Many refer to economic rebuilding, and coming out of the Depression.

Most think of rock and roll music, Elvis, cars, great fun and general prosperity. Those who actually lived during this era focused more on progress, peace and modernization.

Terms such as hippies, flower children, drugs, music and free love are used. Significant numbers also spoke of civil and political unrest and characterize this decade as a troubled and turbulent time.

The Vietnam War, Watergate, Nixon's resignation and legalized abortion are crowded out by references to disco, drugs, John Travolta and a sense of fun.

References include music and culture, materialism, greed and economics. Politics takes a back seat to cultural memories; only 2% mention Ronald Reagan or

High-tech, fast-paced, stress and progress top the list to describe this final decade. The Gulf War conflict was not cited. Young Elvis was named the most popular United States

In 2019 space travel will enter a new era when NASA launches a manned mission to the planet Mars.



Nancye Green / Michael Donovan

Moore's Law

Where do we begin?

The Internet

What does it look like?

E-Commerce

How far and how fast? What's all the fuss?

Computer Crime What should we fear?

Internet Users

Who's online? What are they doing?

Employment

Who's on the next shift?

Information Anxiety

How much is too much?

Information Overload

How do we feel about it?

MOORE'S LAW states that

the speed and performance of computer chips doubles every 18 to 24 months, thereby expanding computational power in exponential leaps. Computers are about one hundred million times more powerful than they were a half century ago, yet their prices are decreasing.

"If the automobile industry had made as much progress [as the computer industry] in the past fifty years, a car today would cost a hundredth of a cent and go faster than the speed of light."

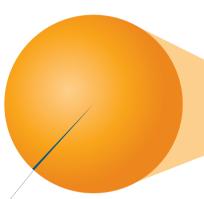
KURZWEIL, RAY, THE AGE OF SPIRITUAL MACHINES, 1999

Moore's Law

Where do we begin?

1998 LAPTOP: Two Hundred Million CPS

A Pentium® II Processor ran a typical laptop in 1998. It was approximately the size of a dime. Memory (in RAM) possessed by a typical laptop: approximately 60 MB.



Two Hundred Million CPS (Laptop)

There are one hundred thousand dots shown here. Each dot alone represents two hundred billion CPS. of which five thousand (the speed of ENIAC) would be

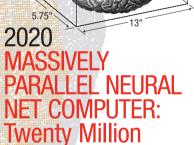
one forty-millionth of a dot (not visible to the naked eye)!

1946 Five Thousand CPS This computer conducted mathematical

calculations and occupied 1,000 square feet—approximately the size of one quarter of a basketball court. Memory (in RAM) possessed by ENIAC: 0 MB*

* Although ENIAC possessed rudimentary storage capacity in its 20 "accumulators," 20,000,000,000,000,000 GPS

THE COMPUTING POWER OF THE HUMAN BRAIN = 20 MILLION BILLION CALCULATIONS PER SECOND

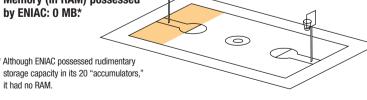


By the year 2020, experts predict that the density of computer circuits will have increased such that the raw processing power of a human brain will fit into a shoebox. Memory (in RAM) possessed by the brain: approximately 1 million billion MB

Billion CPS

However, even Gordon Moore, author of WWW.CNET.NEWS.COM

Moore's Law, believes that the develonment trend cannot be sustained and will reach "finite limits" in "several years."



UNLESS OTHERWISE NOTED, SOURCES FOR THIS PAGE ARE: KURZWEIL, RAY, THE AGE OF SPIRITUAL MACHINES, 1999; PORT, KURTIS, "MACHINES WILL BE SMARTER THAN WE ARE," BUSINESS WEEK, Aug. 30, 1999; www.library.upenn.edu; and www.intel.com/intel/museum/25anniv.

Glossary

CPSabbreviation for calculations per second

abbreviation for Electrical Numerical **Integrator and Computer**

abbreviation for megabyte

a unit of computer memory or disk storage space

abbreviation for Random Access Memory

RANDOM ACCESS MEMORY

the primary working memory in a computer, used for the temporary storage of programs and data, in which data can be accessed directly and modified

Encarta World English Dictionary, St. Martin's Press, 1999.

Merriam Webster's Collegiate Dictionary, Tenth Edition

Facts

Your personal computer will be able to simulate the brain power of the entire U.S. population by 2048.

Ray Kurzweil, The Age of Spiritual Machines, 1999, Page 105

An average electronic toothbrush has 3,000 lines of computer code.

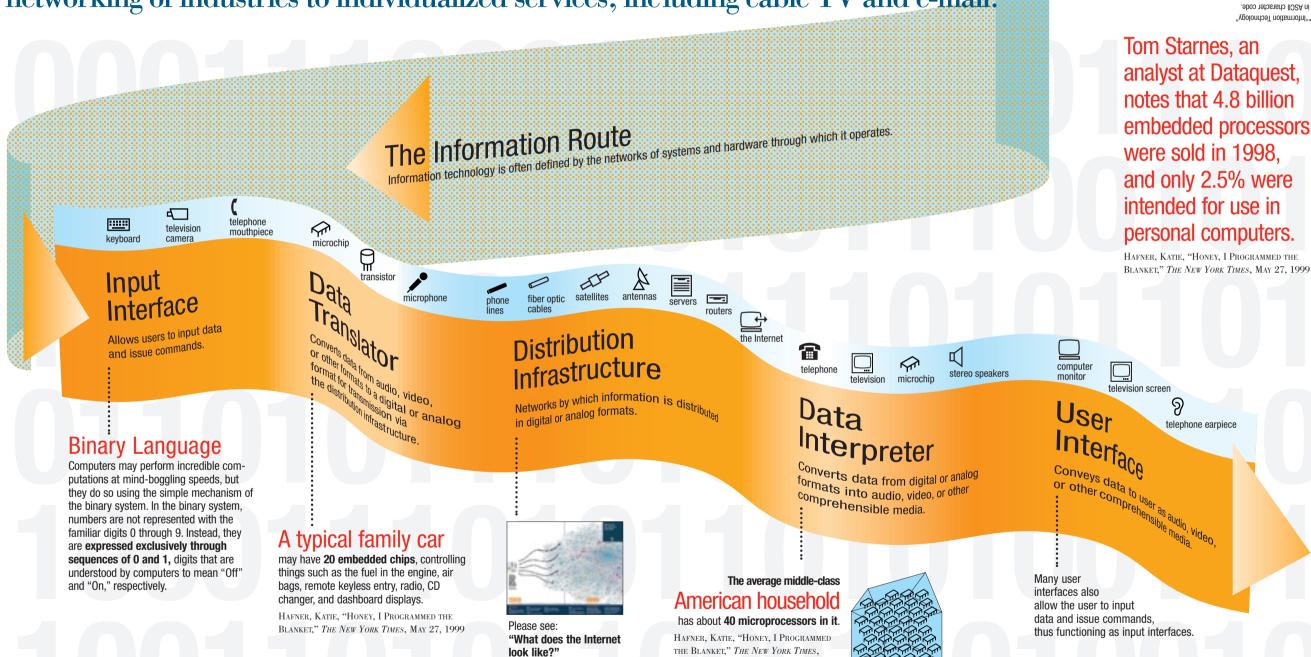
Hafner, Katie, "Honey, I Programmed the Blanket," The New York Times, May 27, 1999.

Note

Because technology evolves so quickly, our attempts to understand it are constantly challenged. Data and analyses, studies and even predictions, are often eclipsed before they reach publication. Therefore, our explanation of information technology is not a snapshot of a specific moment, but rather a perspective of what has happened and a glimpse of what might await.

T(INFORMATION TECHNOLOGY) is a term that is broadly applied to the

use of computer, electronics, and telecommunications equipment for processing and distributing information in digital form. This distribution ranges from worldwide networking of industries to individualized services, including cable TV and e-mail.



Glossary

ANALOG

relating to a system or device that represents data variation by a measurable physical quality

DIGITA

representing a varying physical quantity by means of signals that are interpreted as numbers (usually in the binary system)

FIBER OPTIC

the technology of transmitting information through thin, flexible, glass or plastic tubes (optical fibers) using modulated light waves

MICROCHIP

a tiny complex of electronic components and their connections that is contained in or on a small, flat piece of material (usually silicon)

MICROPROCESSO

the central processing unit, consisting of an integrated circuit and a single chip, that performs the basic operations in a microcomputer

OUTER

a computer-switching program that transfers incoming messages to outgoing pathways via the most efficient route possible

SERVE

May 27, 1999

the computer in a network that stores application programs and data files that are accessed by other computers in the network

TRANSISTOR

a small electronic device that is used to control the flow of electricity in electronic devices and is frequently incorporated into microchips Encarta World English Dictionary, St. Martin's Press, 1999.

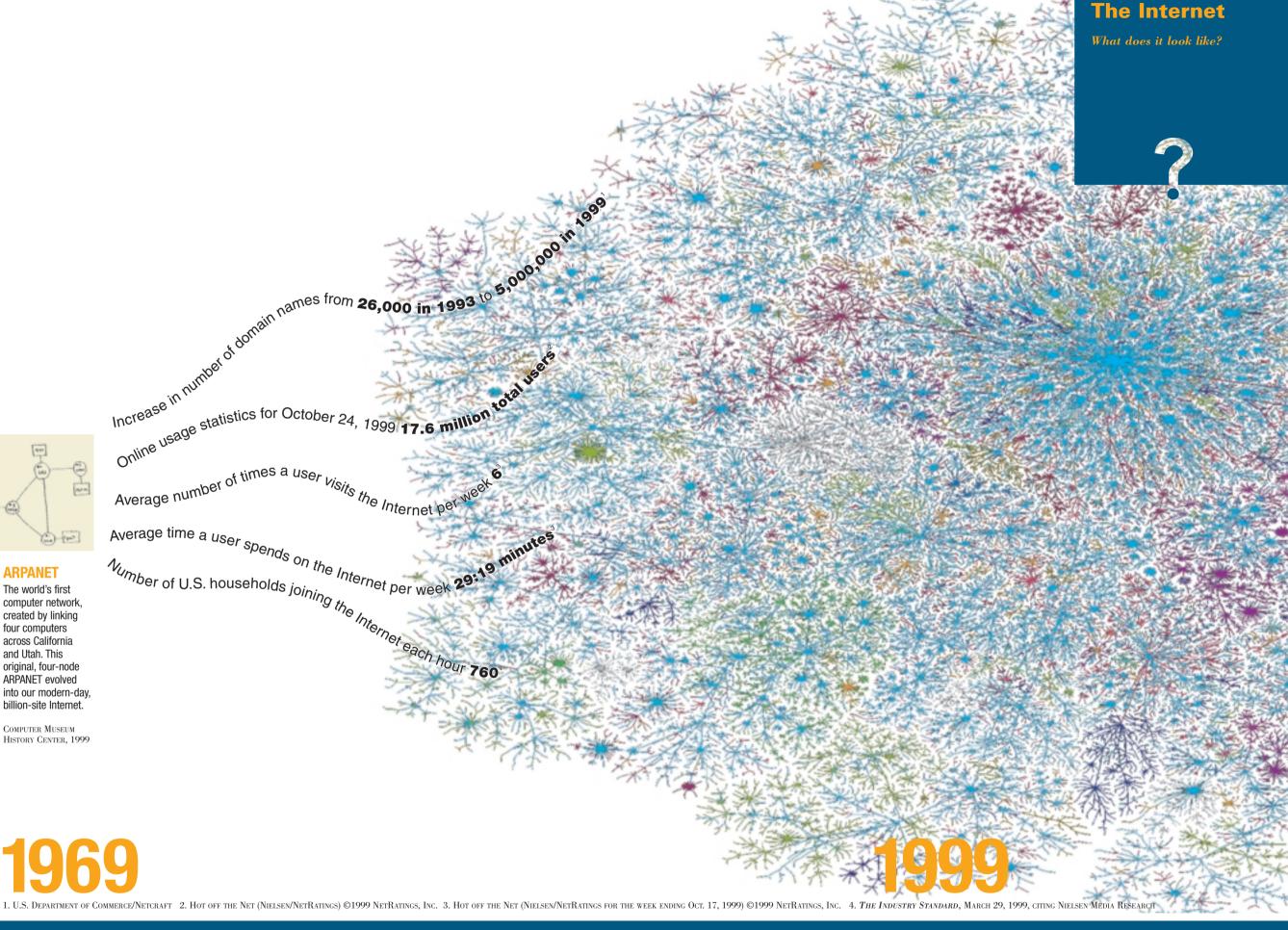
Merriam Webster's Collegiate Dictionary, Tenth Edition, Merriam-Webster, Inc., 1997.

Note

While "free" thought and an informed populace are the underpinnings of democracy, information itself is a valued commodity—as much so as a patented invention or copyrighted performance. Ironically, our own attempts to illustrate the value of IT were complicated by the fact that information about information can be proprietary and therefore costly.

Information

Technology



Glossary

abbreviation for the Advanced Research Projects Agency, a group established by the Department of Defense in 1957 in order to promote science and technology during the Cold War

The sequence of words, phrases, abbreviations, or characters that identifies a specific computer or network on the Internet and serves as its address

a network that links computer systems all over the world by satellite and telephone, connecting users with service networks such as e-mail and the World Wide Web

a system of two or more computers, terminals, or communications devices linked by wires, cables, or a telecommunications system in order to exchange

attached to or available through a central computer or computer network

abbreviation for Uniform Resource Leader; an address identifying the location of a file

WORLD WIDE WEB

a large set of linked documents and other files, located on computers connected through the Internet, that is used to access, manipulate, and download data and programs

Encarta World English Dictionary, St. Martin's Press, 1999.

Information:

About the Internet map (above)

This image shows the potential path of an e-mail message originating in the United States and traveling through each of the world's 95,800 registered networks. The lines branch at each network or switch along the way.

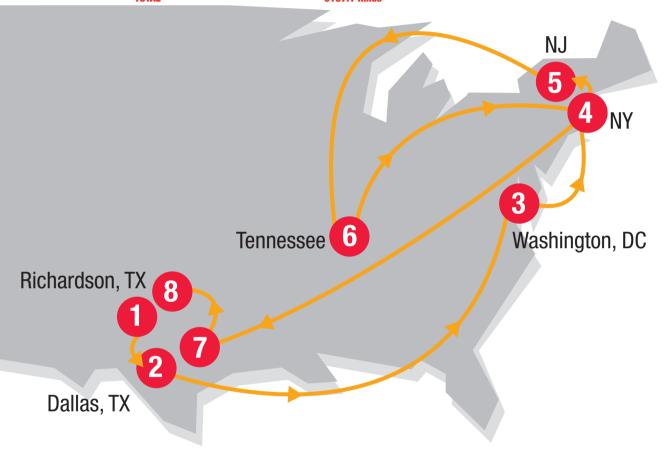
It was made by recording the shortest path taken by test messages sent on May 3, 1999, from a computer in Murray Hill, New Jersey, to each of the 95,800 registered networks, and then graphed using special software to plot each route.

©Lucent Technologies and TeleGeography Inc, 1999. www.peacockmaps.com

From browsing online...

5,187.1 miles ...

Richardson-Dallas	16.5 miles	
Dallas-Washington, D.C.	1548.6 miles	
Washington, D.CNew York	233.9 miles	
New York-New Jersey	24.8 miles	
New Jersey-Tennessee	893.8 miles	
Tennessee-New York	904.1 miles	
New York-Dallas	1548.6 miles	
Dallas-Richardson	16.5 miles	
TOTAL	5187.1 miles	



- Dialing from a home computer via modem to access the Internet
- Connecting with the ISP and navigating to a Website featuring an online bookstore; selecting a book
- Channeling through the network hub in Washington, D.C.
- To New York City, where the
- Searching for the title in a warehouse; being diverted to another city for additional searching
- Finding the book; being returned to the Website in New York City
- Relaying information through the ISP again
- Displaying results on the home

Glossary

an abbreviation for HyperText Markup

HYPERTEXT MARKUP LANGUAGE

the notations used to indicate formatting

abbreviation for Internet Service Provider

INTERNET SERVICE PROVIDER

a business that provides access to the Internet, usually for a monthly fee

an electronic device that converts comput-er information into telephone signals (and vice versa), allowing the computers to exchange information via telephone lines

a system of two or more computers, terminals, or communications devices linked by wires, cables, or a telecommunication system in order to exchange information

a computer that serves as a centralized routing mechanism for data conveyed through a system of computers, terminals, or communications devices

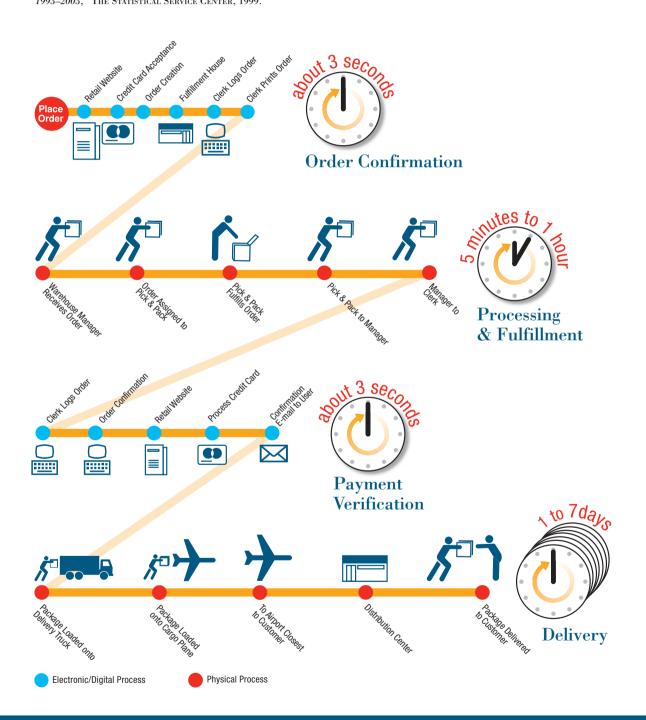
...to buying online

During 1998, sales of books online rose 300% to an estimated

"Book Industry Trends 1999: Covering the Years 1993-2003," THE STATISTICAL SERVICE CENTER, 1999

E-Commerce

How far and how fast?



a group of related Web pages

WEB PAGE

a computer file written in HTML that contains text, graphics files, and sound files and is accessible via the World

Encarta World English Dictionary St. Martin's Press, 1999.

O Government Electronic Commerce

www.ecommerce.gov/ Designed to introduce and explain the wide variety of policy initiatives in place to foster the spread of electronic commerce.

 Understanding the Digital Economy. www.digitaleconomy.gov/ Based on a conference held by the U.S.

Department of Commerce, the site reviews recent research on implications of the digital economy and examines the agenda for future research needs.

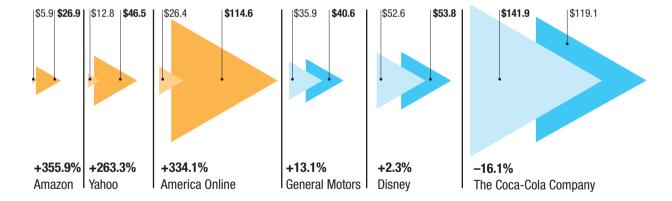
IMPACT OF E-COMMERCE BY INDUSTRY. 2000–2005

Estimates of online shares. Retail stock trading 60% Bill-paying 36% Software 33% Adult entertainment 33% Mail/e-mail (B-to-B) 25% Greeting cards 25% Books 20% Video tapes 20% Gambling 20% Automobiles 20% **Online** Mail/e-mail 20% **SALES & REVENUE** Newspaper/magazines 10% Insurance 10% Radio 10% Airline ticketing 8% Music 7% Internet telephony (B-to-B) 5% Internet telephony 5% **Television** 5% **Education** 5%

The market value for the Forbes 500 increased by 27% from 1997

to 1998. The typical company rose by 10% in value, though Internet companies such as Dell Computer and Amazon.com enjoyed much greater wealth creation, with increases of 164.1% and 1,030%, respectively.

FORBES, "MARKET VALUE," APRIL 19, 1999



MARKET VALUE: E-COMPANIES COMPARED TO TRADITIONAL COMPANIES

\$ Billions, from Sept. 1998 to Sept. 1999

10

© OECD ALL RIGHTS RESERVED

STANDARD AND POOR'S COMPUSTAT, 1999

Glossary

ELECTRONIC COMMERCE

business transactions that take place via the Internet

a network that links computer systems all over the world by satellite and telephone connecting users with service networks such as e-mail and the World Wide Web

a standard against which something can be measured or assessed

abbreviation for business-to-

BUSINESS-TO-BUSINESS

attached to or available through a central computer or computer network

E-commerce is transforming American business-both the way we do it and the means we use to measure it. The bulls and bears of the market now depend on the mouse.

> **Online Business-to-Business Sales** in \$ Billions & \$ Trillions

Online Advertising Revenue in \$ Billions

Online Retail Sales in \$ Billions

6.5

2003

E-Co

all the fuss?

2002

the science, technology, or system of communication by telephone

WEB MEDIA PROPERTY

a company that specializes in the development, formatting, and publishing of

GENERAL SOURCE: ENCARTA WORLD ENGLISH DICTIONAL St. Martin's Press, 1999

SPECIFIC SOURCE: INVESTOR RELATIONS, JUNE 1998

SABOTAGE

During the Gulf War, Dutch hackers stole information about **U.S. troop movements** from

U.S. Defense Department computers and tried to sell it to the Iragis, who thought it was a hoax and turned it down

WWW.CNN.COM/TECH/SPECIALS/HACKERS

Hacker Kevin Mitnick is allegedly responsible for intruding into the networks of Sun Microsystems, Motorola, Fujitsu, Novell, Colorado Supernet. Netcom, Nokia, and the Well.

Kevin also reputedly stole proprietary source codes for operating systems or cellular phones from half a dozen companies. Included in his escapades was the pilfering of the

Netcom customer credit card database, which contained information about almost 20,000 card accounts.

WWW.AVIARY-MAG.COM

The Federal Trade Commission won a federal injunction against an international porn ring that cloned 25 million Web pages and "hijacked" unsuspecting visitors to its smut sites. In another incident, a gang calling itself gH, or Global Hell, defaced the White House Website with a picture of flowered panties. www.zdnet.co.uk/news/1999/news

Using his personal computer and modem, a juvenile hacked into the NYNEX (now Bell Atlantic) telephone system that serviced the Worcester, Massachusetts, area. The hacker shut down telephone service to 600 customers in the local community.

The resulting disruption affected all local police and fire 911 services, as well as the ability of incoming aircraft to activate the runway lights at the Worcester airport. Telephone service was out at the airport tower for six hours.

NIPC CYBER THREAT ASSESSMENT, OCT 1999.

Computer Crime

What should we fear?

There are no "typical" computerrelated crimes and no "typical" motives for committing such crimes, but common

THE AMERICAN CRIMINAL LAW REVIEW, SUMMER 1999

COMPUTER VOYEURISM

HIGHLIGHTING WEAKNESSES IN COMPUTER SECURITY SYSTEMS

motives include: EXHIBITING TECHNICAL EXPERTISE

PUNISHMENT OR RETALIATION

ASSERTING A BELIEF IN OPEN ACCESS TO COMPUTER SYSTEMS

DIVERSITY OF THE CRIME:

This chart shows the relative costs of these computer crimes. It is based on a representive survey of over 520 U.S. corporations, government agencies, financial institutions, and universities, of which 163 could quantify their losses for 1999.

DOLLAR AMOUNT OF ANNUAL LOSSES BY TYPE

the use of a key to convert computer data or messages into something incomprehensible, such that it can only be converted by an authorized recipient holding a matching key

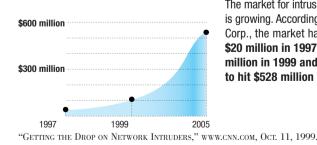
a piece of computer software intended to prevent unauthorized access to system software or data

to use computer expertise to gain entry and explore the computer system of another for the purpose of understanding how it works

HACKER

a person who uses computers to gain restricted information secretly and illicitly by circumventing the established security

THE GROWING INTRUSION-DETECTION MARKET



The market for intrusion-detection products is growing. According to International Data Corp., the market has grown from about \$20 million in 1997 to about \$100 million in 1999 and is projected to hit \$528 million by 2005.

SABOTAGE

WHO ARE THE HACKERS?

World-class

.1%

cybercriminals

There are approximately

Potential professional

hackers for hire

(corporate spies)

9.9%

Amateurs (cyberjoyriders)

IBM GLOBAL SECURITY ANALYSIS LAB, YORKTOWN HEIGHTS NY

Glossary

a system that automatically recognizes a

person by identifying distinguishing traits www.biometrics.org/html/introduction.html **DENIAL OF SERVICE**

illegal use of computer-related technology that

financial, telecommunications, other services

prevents another individual from accessing

\$20 million

\$10 million

or stealing data

1999 CSI/FBI Survey ©1999 Computer Security Institute, all rights reserved

SYSTEM PENETRATION

actively entering or passing through the established security protocols of a computer or network without the required authorization

a computer program that produces copies of itself and inserts them into other programs, usually damaging software or destroying

Encarta World English Dictionary, St. Martin's Press, 1999. Merriam Webster's Collegiate Dictionary, Tenth Edition

Computer Crime and Intellectual Property Section. Dept. of Justice. U.S. www.usdoj.gov/criminal/cybercrime/
The CCIPS is responsible for implementing the Justice Department's Computer Crime Initiative, a comprehensive program designed to address the growing global computer crime problem.

Americans are **getting in line to get online** —at home and at work, with friends and from school,

when shopping and while watching TV.

By gender, online Americans are			
Men	52%		
Women	4 8 %		

By age, online Americans are . . . Under 30 3 0 % 30-49 50% 15% 50-64

American college freshmen who use the Internet to do research or homework 83%

American college freshmen who e-mail 66%



There are new people on the Internet every second.4

a facility in a computer network (such as the Internet) in which participants

exchange comments or information in

Glossary

Although fewer **SCHIOTS** than young adults are currently online, it is the seniors who are spending more time online. Users

55 and older **Spend more** time online than their younger 18-24-year-old counterparts.5

of American college students have created their own Websites or home pages.6

a communication system for transmitting data from one computer to another, using a telephone connection and modems; a message sent via this system

the opening page on a Website; also, somebody's personal Website

the notations used to indicate formatting and programming instructions for the World Wide Web

an abbreviation for HyperText Markup

In fact, the Internet reached as many Americans in its first six years as the telephone did in its first four decades.

36% of online users say they go online for news at least once a week. The favorite news topics include

Weather	6	4	왕	Internationa	14	7	0/0
Technology	5	9	앙	Health	4	6	%
Entertainment			Science	4	3	%	
5 8 %				Politics	4	3	%
Business	5	8	용	Local News	4	2	%
Sports	4	7	%				

Percent of America's racial groups online:

Internet Users

Who's online?

White, Non-Hispanic	3 8 %
Black, Non-Hispanic	198
Native American Indian/Eskimo	3 0 %
Asian Pacific Islander	3 6 %
Hispanic	178





of online users believe that internet news is actually **more accurate** than traditional news sources. 10

a network that links computer systems all over the world by satellite and telephone,

a business that provides access to the Internet, usually for a monthly fee

attached to or available through a central computer or computer network

the ability of certain computer systems to process, update, and respond to data as soon as it is received

A Childing low-income White

family is times as likely to have Internet access as a child in a

comparable black family.11

to go on the Internet or watch television for recreation, frequently changing the site or channel

connecting users with service networks such as e-mail and the World Wide Web

abbreviation for Internet Service

Of American Internet users, the percent who go online . . .

3-5 DAYS A WEEK **EVERY DAY** 1-2 DAYS A WEEK 29% **30%** 22% LESS OFTEN / DON'T KNOW

Internet Users What are they doing?

	r of Ame to 12 on	 ids	
20 million			
15 million			
10 million			
5 million			

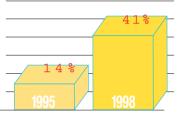
American single-parent households with Internet access 1 5 % American dual-parent households with Internet access 3 9 %

E-mail is being used for:	1995	1998
Work 12%	31%	
Personal 4 1 %	30%	
Both 4 7 %	38%	

By education level, online Americans are . . . College graduates 3 9 % 3 1 % Have some college High school graduate 25% Less than high sch 4 %

Online usage varies by region. The likelihood of an American being online depends on his or her residence in the . . .





Percent of all Americans who . . .

. . . own a computer

... use the Internet



Favorite online activities of kids, ages 7-14

Gather information

Creative activities





23% parents
worry what their kids might see on the
Internet 25%
American parents worry what their kids
might see on $\mathbb{T}_{\cdot^{17}}$







of the users who went online during 1998 **NEVE** attended collegetwice the number from the previous year.²²

However, **Urban** households in all parts of the country have higher **USage** rates than **rural** households of similar income, education, and racial identification.23

Glossary

67%

Play games

a group of related Web pages

a computer file written in HTML that contains text, graphics files, and sound files and is accessible via the World Wide

44% 56%

49% 57%

66%

69%

Encarta World English Dictionary St. Martin's Press, 1999.

1, 2, 8, 10, 12, 13, 17, 18, 19, 22. The Pew Research Center for the People and the Press, Jan. 1999.

3. The New York Times, Jan. 25, 1999.

4. www.internetindicators.com/facts.html

5. American Demographics, website 6/98.

6. www.channelseven.com/adinsight/market-insight/archive/1998/199809 7. W. Michael Cox, Federal Reserve Bank of

SHIFTING FROM...

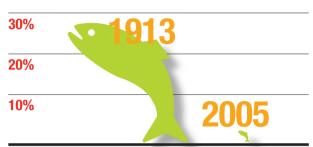
SHIFTING TO...

Employment

Who's on the next shift?

FARMING/FISHING/FORESTRY

The farming, fishing, and forestry industries employed 28% of the entire American workforce in 1913. By 2005, they will employ only 2.5%.



50% Signature 10 to 10 t

•

of all American workers will be employed in IT positions or within industries that intensively utilize information technology, products, and services."

U.S. DEPARTMENT OF COMMERCE, "THE EMERGING DIGITAL ECONOMY II," JUNE 1999

BUREAU OF LABOR STATISTICS

8,000,000 workers—one in sixteen working Americans—became displaced during the period of January 1995 to December 1997.

A little less than half (3,600,000)

with their employers for three or more years.

Bureau of Labor Statistics, 1998

U.S. UNION MEMBERSHIP AS PERCENTAGE OF LABOR FORCE



1984 1998 0%

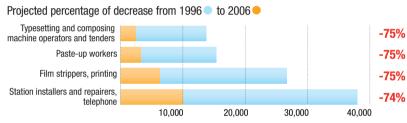
John Sweeney, president of the A.F.L.-C.I.O.

(American Federation of Labor and Congress of Industrial Organizations), notes that the fastest-growing industries—such as finance, child-care, retail trade, and airlines—added 26 million new jobs to the economy from 1984 through 1997, but produced very few new union members.

The A.F.L.-C.I.O. cites that only 1 out of every 20 of those new workers joined a union.

The New York Times, Oct. 13, 1999

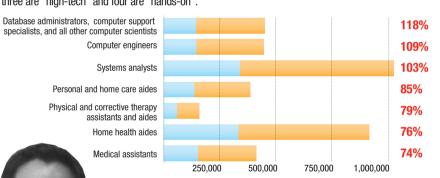
OCCUPATIONS WITH THE GREATEST DECLINE



Monthly Labor Review, Nov. 1997

FASTEST-GROWING OCCUPATIONS

Projected percentage of increase from 1996 ● to 2006 ●. Of the seven fastest-growing occupations, three are "high-tech" and four are "hands-on".



Monthly Labor Review, Nov. 1997

MEAN ANNUAL WAGES BY OCCUPATION 1997

Musicians \$36,190

Kindergarten Teachers \$34,150

Registered Nurses \$41,400

BUREAU OF LABOR STATISTICS

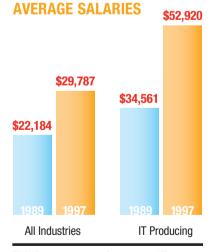
Computer Systems Managers \$68,600

Systems Analysts \$51,400

Computer Support Specialists \$39,000

U.S. DEPARTMENT OF COMMERCE,
"THE EMERGING DIGITAL ECONOMY II,"

JUNE 1999



U.S. DEPARTMENT OF COMMERCE, "THE EMERGING DIGITAL ECONOMY II," JUNE 1999

Glossary

CHIEF INFORMATION OFFICER (CIO) the highest-ranking IT professional

the highest-ranking IT professional within a company or corporation, responsible for the overall management of all technology-related decisions

DATABAS

a systematically arranged collection of computer data, structured so that it can be automatically retrieved or manipulated

DATABASE ADMINISTRATOR

person responsible for maintaining the structure and integrity of a database by coordinating changes, upgrades, maintenance, and testing¹

DISPLACED WORKERS

people who have lost or left their jobs because their employers closed or moved, lacked sufficient work, or abolished their position or shift²

IT PROFESSIONAL

a person who designs, produces, or utilizes information technology

IT PRODUCING

devoted to the design and/or creation of information technology

SYSTEM ANALYST

person who determines which functions and requirements are necessary for new or existing information systems or technology to perform specific tasks¹

SYSTEM ARCHITECT

person responsible for conceptualizing and designing the ways in which computer hardware, software, and peripherals interact in order to perform necessary functions

WEBMASTER

somebody who creates, organizes, or updates the information content of a Website General Source: Encarta World English Dictionary, St. Martin's Press, 1999

Specific Source:

¹Bureau of Labor Statistics

²Bureau of Labor Statistic



E-mail DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	36
Voice Mail અર્ટ અર્ટ અર્ટ અર્ટ અર્ટ અર્ટ અર્ટ અર્ટ	23

Inter-office Parallel	18

Fax 444444444	14
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Post-it™	@@@@@@@@@@@@	13
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Pager	
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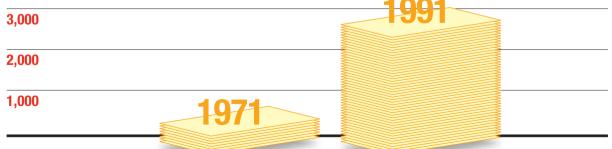
	4	4	4
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Express Mail ™	<u>+</u> + +	3

INCREASE IN THE NUMBER OF DAILY ADVERTISING MESSAGES, 1971 TO 1991

Americans were exposed to six times more advertising messages by the end of this 20-year period.

©AMERICAN DEMOGRAPHICS, SEPT. 1999. COURTESY OF INTERTEC PUBLISHING CORP., STAMFORD, CT. ALL RIGHTS RESERVED



SHENK, DAVID, "WHY YOU FEEL THE WAY YOU DO," INC. BOSTON, JAN. 1999.

Glossary

DIGITA

processing, operating on, storing, transmitting, representing, or displaying data in the form of numerical digits, as in a digital computer

EXPRESS MAILTN

a trademark for the overnight delivery service of the United States Postal Service

INFORMATION AC

a common name for the current period of human history, characterized by the widespread use of electronics to access information, particularly with respect to computers and the Internet

PAGER

a small electronic message-receiving device, often with a small screen, that beeps, flashes, or vibrates to let the user know that somebody is trying to contact him or her

Encarta World English Dictionary, St. Martin's Press, 1999.

Stress is a common phenomenon

our Information Age. It contributes to cardiovascular disease, depression, and gastro-intestinal disorders. The National Mental Health Association reports that 75% to 90% of all visits to physicians are stress-related.

NMHA, 1997.

Job stress is estimated to cost U.S. industry

\$200 billion to \$300

billion annually in absenteeism, diminished productivity, employee turnover, accidents, worker's compensation, and direct medical, legal, and insurance fees.

FISCHER, AARON, "IS YOUR CAREER KILLING YOU?" DATA COMMUNICATIONS, FEB. 1998.

Information Anxiety

How much is too much?

2

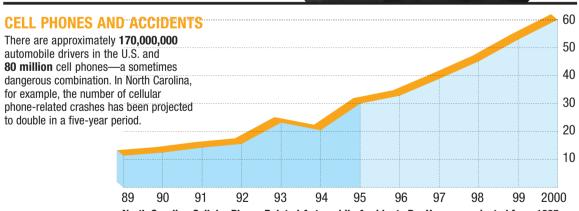
"information overload has replaced information scarcity as an important new emotional, social, and political problem."

SHENK, DAVID, "WHY YOU FEEL THE WAY YOU DO," INC. BOSTON, JAN. 199

The defining characteristics of Attention
Deficit Disorder (inattention, inability
to concentrate, hyperactive or impulsive
behavior) are increasingly prevalent in our
society. Although some researchers believe
that A.D.D. has a purely biochemical basis,
others—such as Dr. Theodore Gross—
believe that A.D.D. can be influenced by
environmental factors such as our

current "information explosion."

"Why You Feel the Way You Do"



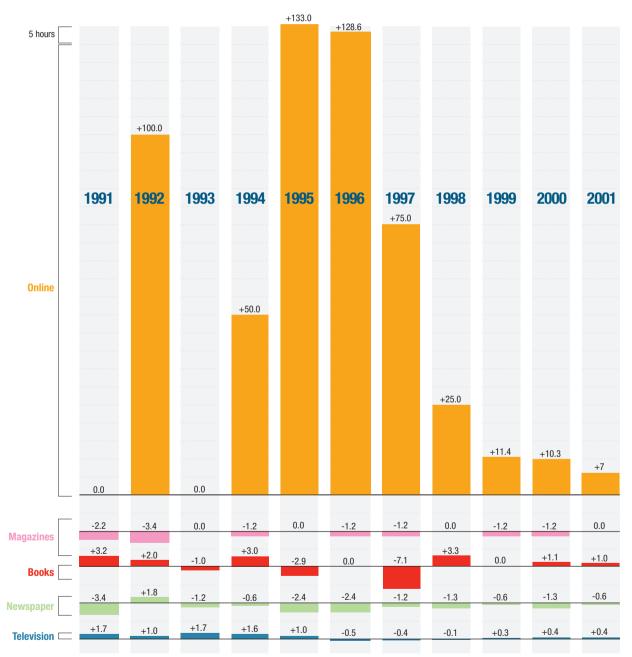
North Carolina Cellular Phone-Related Automobile Accidents Per Year, as projected from 1995 NHTSA, U.S. Department of Transportation, Nov. 1997.

AMERICANS WHO SAY THESE TECHNOLOGICAL INNOVATIONS AND INFORMATION TECHNOLOGY DEVICES HAVE MADE LIFE . . .

	Better	Worse	No
Difference			
Radio	96%	1 %	3 %
Computer	8 7 %	8 %	5 %
E-Mail	71%	9 %	20%
Internet	69%	18%	12%
Cell Phone	66%	22%	12%
Cable TV	62%	21%	17%

THE INSTITUTE FOR THE FUTURE WITH THE GALLUP ORGANIZATION FOR PITNEY BOWES, INC.

CHANGES IN HOURS PER PERSON PER YEAR USING CONSUMER MEDIA



 $U.S.\ Census\ Bureau,\ the\ Official\ Statistics^{ss}Statistical\ Abstract\ of\ the\ United\ States:\ 1998\ Sep.\ 25,\ 1998$

Glossary

CELL PHONE

wireless telephone that operates via cellular technology

CELLULA

in telecommunications, refers to the arrangement of radio communications

into small areas, or cells, each utilizing a separate transmitter

_ ----

a communication system for transmitting data from one computer to another, using a telephone connection and modems; a message sent via this system

PC

abbreviation for personal computer

PERSONAL COMPUTER

a computer with its own operating system and a wide selection of software, used by an individual

Encarta World English Dictionary, St. Martin's Press, 1999.

410 of Americans
0 believe our
greatest achievements of the
20th century have been in
science and technology,
followed by medical advances.

THE PEW RESEARCH CENTER.

"Technology Triumphs, Morality Falters" 1999

Information Overload

How do we feel about it?

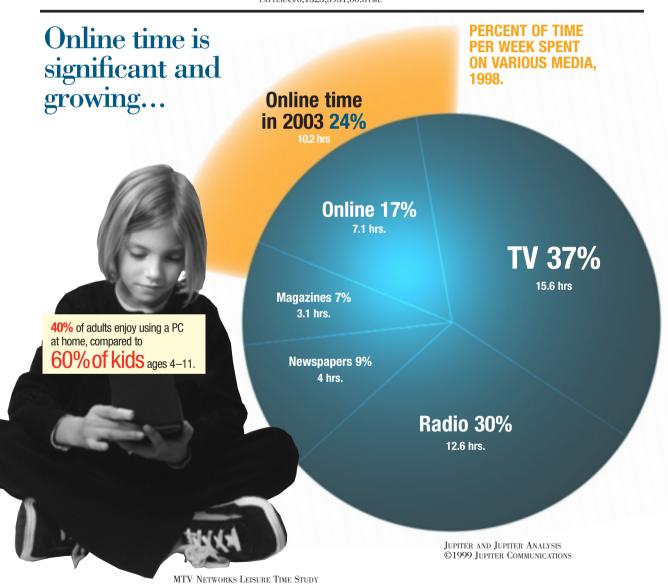
?

AS OF JULY 1999, HOME PC USE HAS SURPASSED

1,000,000,000 HOURS

PER WEEK, AND 53% OF THAT TIME IS BEING SPENT ONLINE

Internet.com/s Cyber Atlas, cyberatlas.internet.com/big-picture/traffic-patterns/0.1323.5931.00.html





Dried flower flag, circa 1986 created by Amy Hoffman Selfe

Nigel Holmes

The Big Seven

Who are the Big Seven? Who owns whom?

Media Players

Who's really in control?

Television

Who's watching TV? How are the networks doing?

Newspapers

How many newspapers are there? Will they survive the electronic age?

Magazines

Which magazines sell the most advertising? Which have the largest circulation?

Advertising

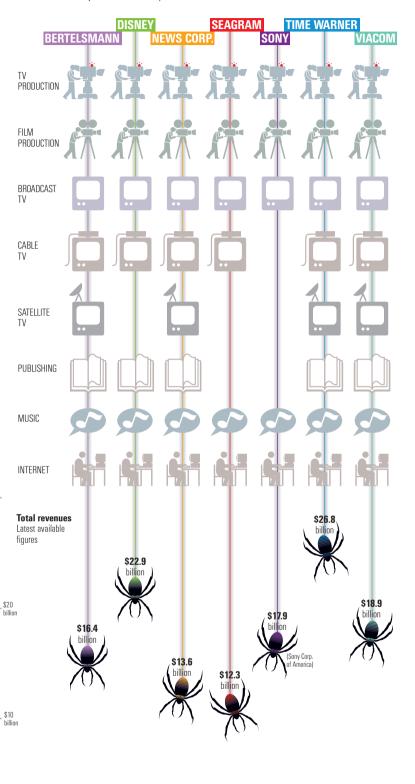
How much is spent on advertising? Who are the biggest spenders?

First things first: media organizations

The seven companies on these two pages generate most of what we see on TV or at the movies, and what we read.

And if it seems as though they are competing for our attention ...

The chart below shows that the Big Seven are competitors in almost all the major areas of content production.



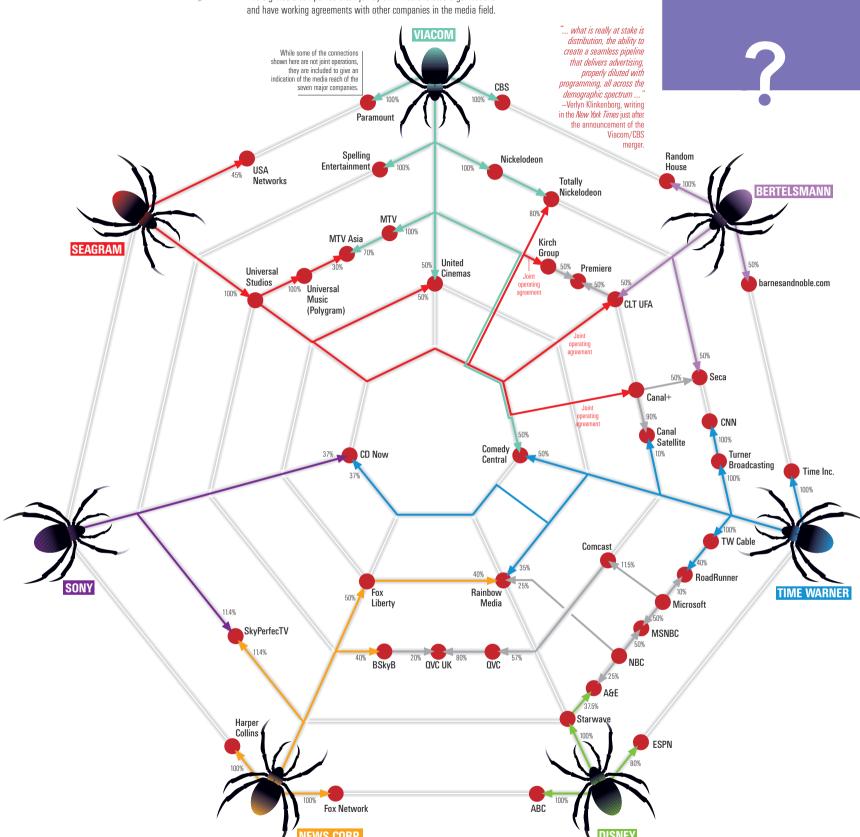
... they are also collaborating with each other.

The Big Seven

Who are the Big Seven?

Who owns whom?

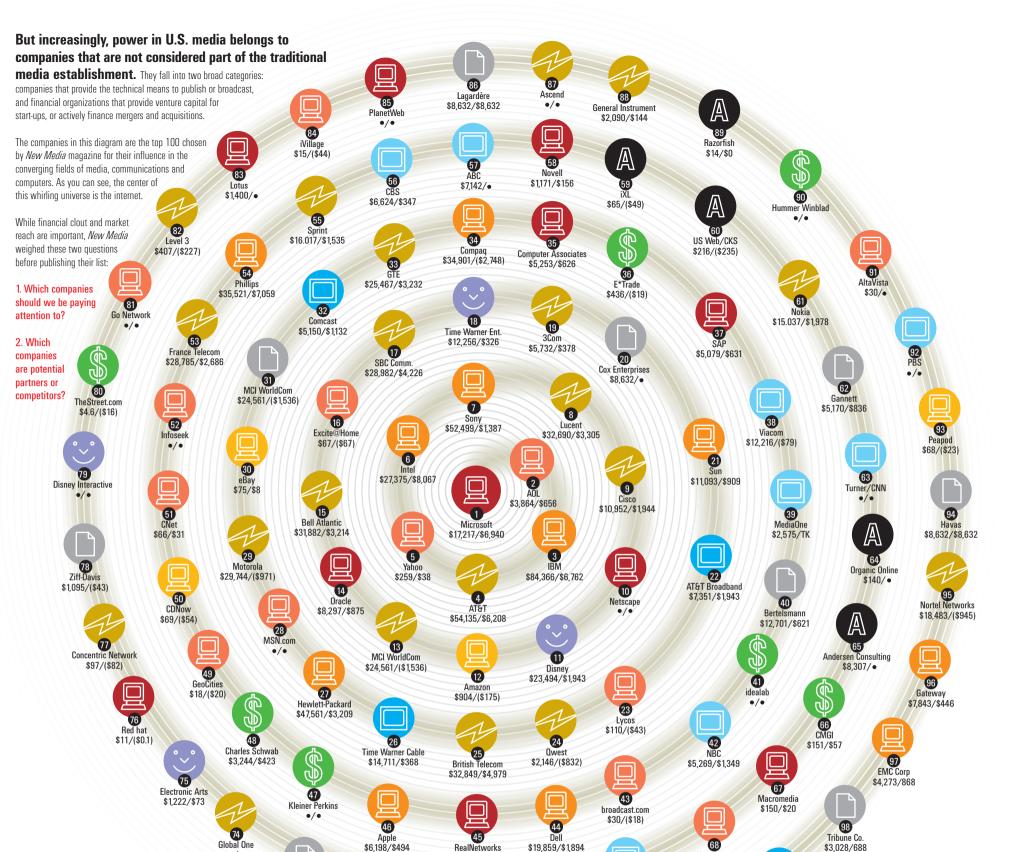
The big media companies often jointly own media-related organizations



Sources: Individual companies' Annual Reports; The Economist; The New York

The Federal Communications Commission has strict regulations that could force the newly formed Viacom-CBS media giant to sell some of its local stations. One of the F.C.C. rules is that any single company cannot have TV coverage of more than 35% of the country. The new Viacom would have about 44%.

In 1998, there were 2,393 country music radio stations (both AM and FM) in the U.S. Way behind in second place after country was adult contempory music with 1,562 stations, news and talk radio with 1,356 stations, and religion with 1,075 sta-



RealNetworks \$88/\$5

1

\$3.7/(\$15.6)

\$19,859/\$1,894

70

\$2.9/(\$6.2)

69

Oxygen Media

\$3,028/688

99

\$594/•

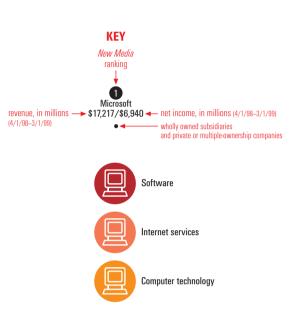
100

DreamWorks SKG \$1,000/•

Media Players

Who's really in control?







Communications Services & Technology











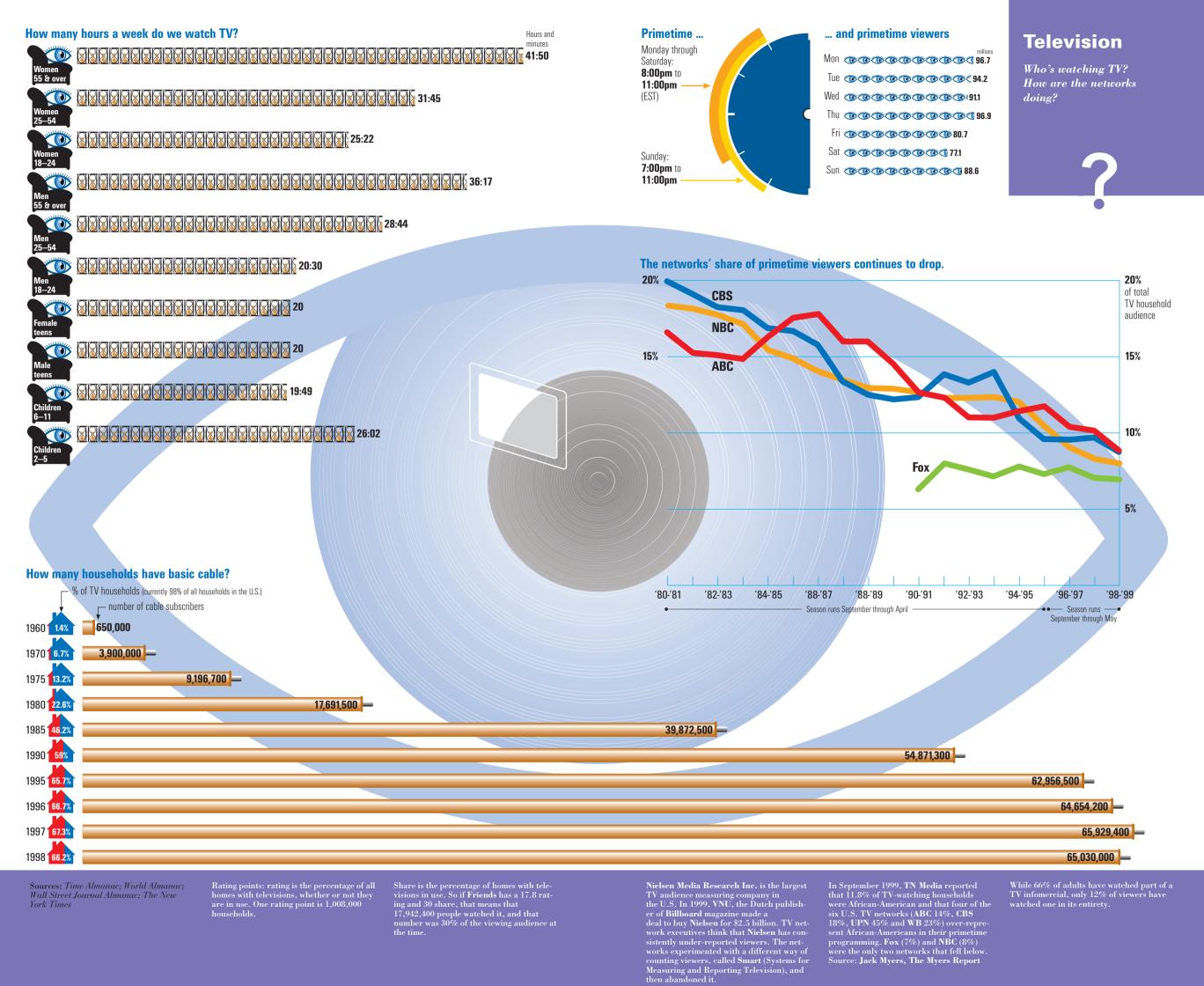
Agencies

73

\$3.046/\$1,421

72

\$41,940/\$2,640

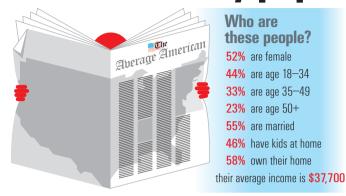


People overwhelmed by tsunami of Data front 九九九九九九九 approaching from Rhode Island

How many daily What's their total newspapers are there in the U.S? circulation? scale on this side scale on this side. 2,000 1,900 1900 1920 1940 1960 1980 1998



59% read a daily paper





The 10 Biggest papers

Average daily circulation, for six months ended 8/30/98

Wall Street Journal 1,740,450 USA Today 1,653,428

22222222 Los Angeles Times 1,067,540

202020202020 *New York Times* 1,066,658 4

20202020 Washington Post 759,122 4

New York Daily News 723,143

Chicago Tribune 673,508

20202 Long Island Newsday 572,444

Houston Chronicle 550,763

2020 Chicago Sun-Times 485,666

The largest paper Ynmiuri Shimhun The Wall Street Journal



O: How much newsprint do we

Context is Japan's circulation: 14,562,436 is the 19th largest paper in the world

One of the companies advising the Los Angeles Times on its redesign, light-heartedly proposed at a 1999 meeting that more attention should be paid to the smell of the paper. After passing around boxes of shredded newspaper, one participant thought that the LA Times smelled a little sour. The designers then proposed some alternative scents: laundry detergent, hand lotion, citrus, coffee and doughnuts. The coffee smell and doughnut smell were the winners. (Source: The New York Times) Sources: National Association of Newspapers; USA Today; World Almanac; Time Almanac; Editor & Publisher; American Forest and Paper Association; The Economist; the quote is from Paul Zwillenberg, who runs the online operations of Britain's Associated Newspapers

Freedom of the press? Freedom House annually surveys press freedom in the world. Their latest findings show that Germany, Canada and the U.S. come out as having the freest press (based on the country's laws, political and economic influences, and administrative decisions on the content of news media). At the other end of the scale are China and Indonesia. More than four out of ten people in the More than four out of ten people in the world live in countries where the press is

Newspapers "The trouble with newspapers is that they are a mile wide and an inch deep. Websites that work best are an inch wide and a mile deep. How many newspapers are there? Will they survive the electronic age? The challenge of the internet is forcing newspapers to reinvent themselves for the web, especially in the area of classified advertise More than 2.224 North (Worldwide, there are 3,744 USA Today is the top newspaper on the web, American daily newspapers have launched online ranked19th, far services 45% of online of the top CNN and ABC 100 U.S. newspapers newspaper readers visit the (by circulation) sites at least once have online a day products... Articles in ...but 82% of online newspaper newspapers and more than users read the print magazines 75% of daily online version with the same or continue to be the newspapers have greater frequency print circulations major source of under 50,000 web addresses More than Without print 75% of online classifieds, most newspapers papers will find it have classifieds hard to survive 43% of readers use newspaper web sites as their In 1998, primary source of one third of online classifieds In traditional print, classifieds for jobs in information technology fell 15%

quarters of 1997

&1998



The top 50 magazines in 1998, by revenue ...

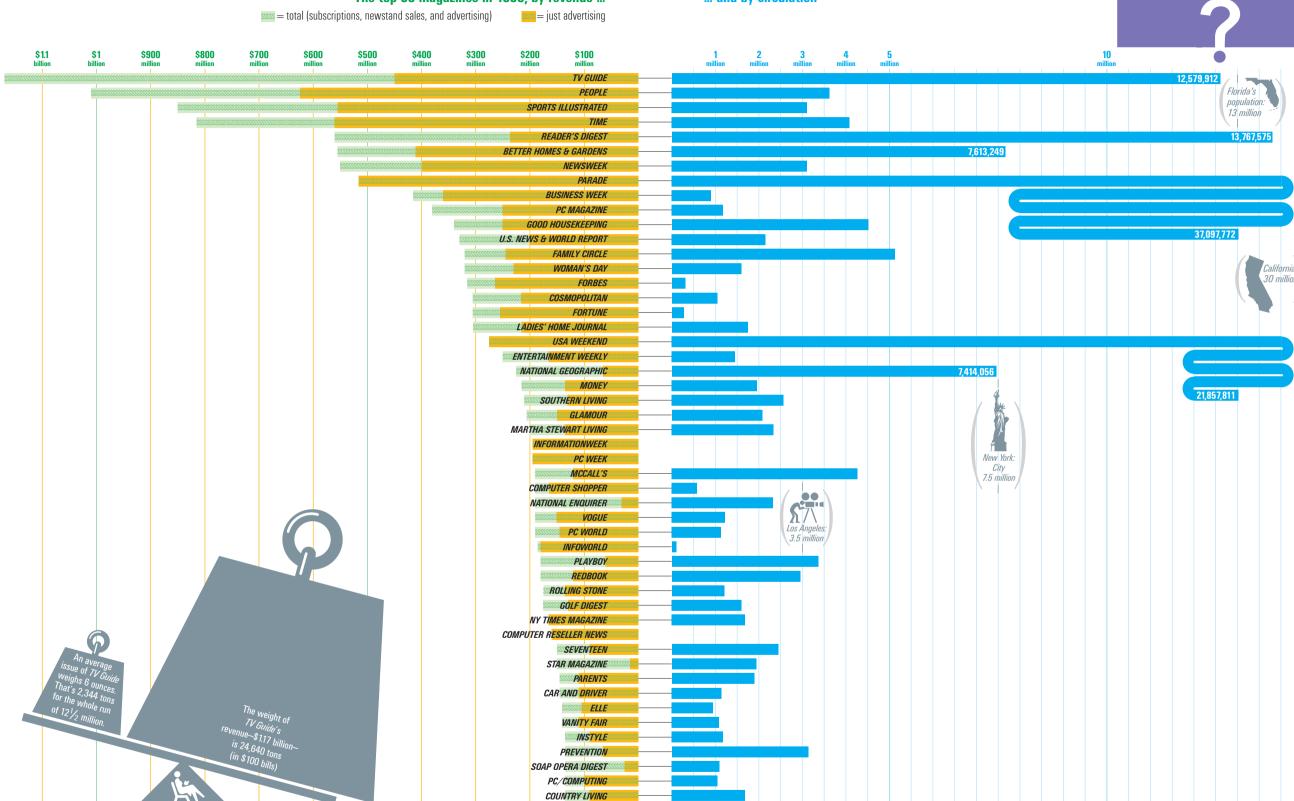


... and by circulation



Which magazines sell the most advertising? Which have the largest circulations?

Magazines

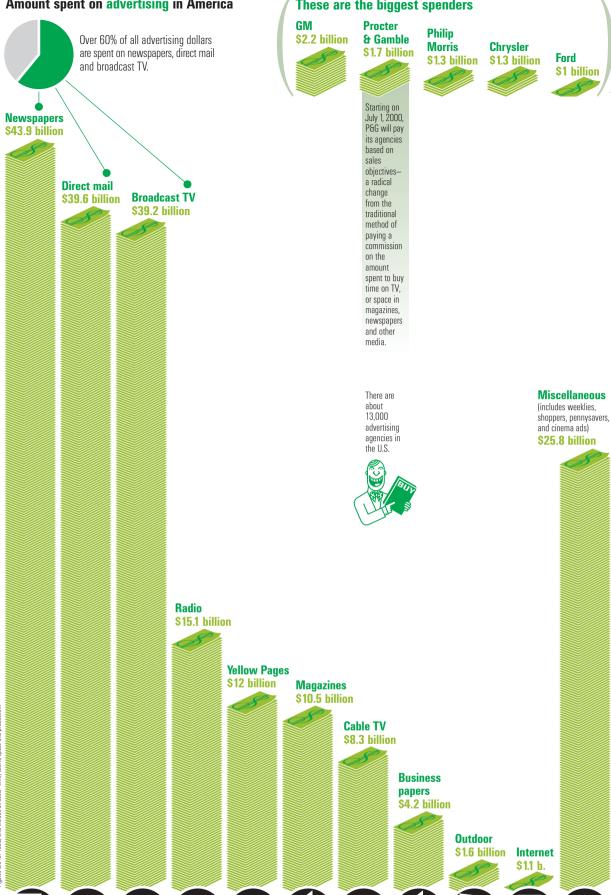


Sources: World Almanac; Time Almanac; Advertising Age; The Washington Post

How many readers are there? Some magazines publish their readership, as opposed to how many copies they sell (the circulation). In the celebrity gossip field, People magazine claims 35 million readers from a circulation of 3.7 million. So just over 9 people read each copy of People magazine. Entertainment Weekly claims 7.7 million readers, from a 1.5 million circulation, meaning that five people read each copy. US magazine claims 3.8 million readers, from a circulation of 1 million.

Note: Modern Maturity had a circulation of 20.5 million in 1998, but its total revenue was \$112 million making it number 58 in the Ad Age ranking.

Amount spent on advertising in America These are the biggest spenders



Sources: National Association of Newspapers; McCann-Erickson Inc.; World Almanac; The New York Times The number of advertisements/promotions (and minutes) on prime-time network programming in 1998: ABC 127 ads (47 minutes); CBS 128 ads (49 minutes); NBC 141 ads (49 minutes).

Currently, the networks average 15 minutes, 44 seconds of non-program material per hour. Grant Tinker remembers that it was 6 minutes to the hour when he was producing the Mary Tyler Moore Show.

TIBOR KALMAN

Tibor Kalman immigrated to New York in 1957. In 1971, he became interested in graphic design through a job doing window displays for the NYU Student Book Exchange. Leonard Riggio, who owned the store, later bought Barnes & Noble and made Tibor its first creative director. There he designed the store's first shopping bag, which is still used today.

One of his most memorable positions came in 1994 when he took a break from M&Co., a company he founded in 1980, to become the first editor-in-chief of Benetton's *Colors*, a magazine focused on sociocultural issues. He returned to New York and M&Co. in 1997. During these last years as he battled cancer he directed work on his monograph *Tibor Kalman: Perverse Optimist* and designed Tiborocity a retrospective which opened at the SFMOMA in July 1999.

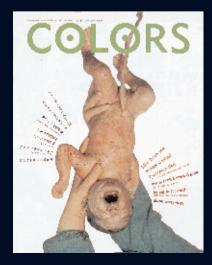
Tibor Kalman was an original member of the UNDERSTANDING team. This book honors his talent, his sharp edges, his passion and our friendship.

RSW



Spreads on the following pages are from these issues of **Colors Magazine**.





sion of racism isn't violence; it's the systematic denial of economic opportunities to people of color. The poorest 20 percent of the world's population gets only 0.2 percent of the money loaned by commercial banks. Without access to credit, the poor stay poor... and powerless.

Bride Bearron were statement common work and survey to the survey of the

World Bank and paymonics when the institute is 100 miletus in NOT stock to make a second or seco

Banque Mondiale year weer's MID-MAD BETWEEN BY THREE THREET THE RESIDENCE AND PREMIUM TO THE PERSON OF T The Boyana Line is been and surrounced the species of the origin of the off of the test P.M. (Acadé a species of the common 2 to the P.M. (Acadé a species of the common 2 to the P.M. (Acadé a species of the common 2 to the P.M. (Acadé a species of the common 2 to the P.M. (Acadé a species of the Carlo Alamana and the Carlo Alama and LLA count below hip contains 20 per a remed that which had beginned as the hadron per process on the state of the delivered of the state of the st

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STEEDS are recovered as the control of the control

Leaplantiches 20% de la pap define nondiale possédent \$2.7% de Pargent du mande.

Phillippines di By another the second s

racisme la plus répandue n'est

pas la violence, mais la margina-

lisation économique des gens

de couleur. Les plus pauvres

20 pour cent de la population

mondiale n'obtiennent que 0.2

pour cent de l'argent prêté par

les banques commerciales. Sans

facilités de crédit, les pauvres restent pannies... et sans pouvoir.

Speth Kerca was persistent out read a sent at real read a sent attract in the sel Kerca serporana, de Lancas Seng, senalir area deservador sea



skin, hair or eyes. Those features

just provide easy targets. Racism

is about money and power.

Orthorny, the stor

glasch confir is in proportion to its war define. Surfeette cente, la fail le despays est are not in male. simir population.

Bots Watta may be sent the method (1995) the bard following to be sent or the sent of the

Exhance covers a result of the control of the contr

Gramoen Bankewense Grameen Bank comp

Gramment Barrier Services

Gramment Barrier

Gramment Barrier Services

Gramment Barrier

Gra

- Children Profit

Les plus pauwes des 20% data papalatina montiele se partagent 1.4% de l'argent du mando.

VOICI où vivent les

COLORS, on a souligné les

différences physiques entre

les peuples. Mais soyons

honnêtes, le racisme n'a

rien à voir avec la peau, les

cheveux ou les yeux, qui sont

des cibles trop faciles. Le

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と今のファルリ、(本) 本 田 (本) かいけい いっちゅんけいせい みらえん (文学者) の最かがらので使ったを付けませた。 かい はは、 タイズの人で聞きて変なりと思い、ガタボタのが選ぶった

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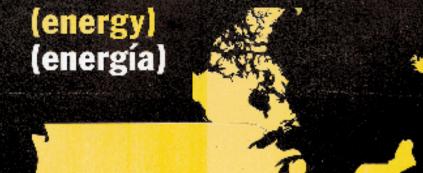
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TED CONFERENCES

TED Conferences was conceived in 1984 with an observation about the nature of late 20th Century communications: Three primary communications-driven businesses/professional areas in our society were merging, converging & evolving together in ways undreamed of just a few short years before. These three core disciplines all facilitated the development of new ways of seeing & learning. New ways of transforming information, conveying ideas & seeing new patterns. New ways of understanding our environment, our society & ourselves. **TED** stands for the triad of these subject areas (**Technology**, **Entertainment & Design**) that were reshaping the context of our world when these conferences began & which continue to do so today.

our fourteenth conference (the tenth in the numerical series), focused on a celebration of UNDERSTANDING—what we understand, how we understand, the choices of what is made understandable & what is made available. At the core were presentations by America's leading Information Architects showing us how they make data, ideas, statistics & demographics understandable in relation to some basic questions about this key moment in American life.

http://www.understandingusa.com

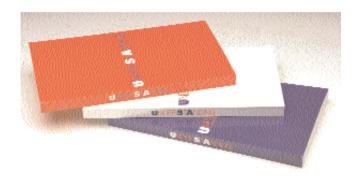
This brings me to a most important part of the creation of this book UNDERSTANDING. This is the launching in March 2000 of the web site http://www.understandingusa.com. This site will not only enable the downloading of any or all of the content, but in addition, the opportunity to use hotlinks to other web pages that have been vetted & described by the federal librarians (see the acknowledgements). This wonderful group of knowledge navigators will also bring many additional books & articles to our attention. America Online, Intel & Ask Jeeves are also lending their support to this effort.

News networks, politicians, as well as professional organizations & schools of journalism, communication & design that have common purposes with **UNDERSTANDING** might take this book as a wake up call to begin what they should have been doing all along.

AFTERWORD

There are a number of obvious journeys to take after this book. Many of these journeys, in the form of other books, can be described simply—understanding Asia, Europe, each U.S. state, the Americas or the World. Other avenues would have nothing to do with location, but with time—annual updates in print & continuous updates on the web.

Other possible projects include an **UNDERSTANDING JR.**, as well as the development of hundreds of public service spots for television & courses of study based on each & every spread in the book.



http://www.ted.com