

Steven R. Van Hook, PhD

Nonprofit Commons Seminar

January 26, 2024 / 9:00 AM PT SLT

‘Hope on the Horizon’

Abstract & Bio



- **Abstract:** As worldwide disasters and destruction may confound us in a sea of despair, a sea-wise scan of the horizon spots some islands of hope ahead. Along with the epochal shifts of today, we all also share common bonds that tie us to the unlimited possibilities in technologies, economics, education, and shared abundance. Let's look beyond today's disorienting headlines into the solutions already at hand -- and yet ahead in decades to come -- as experts in media, technology, academia, science, business, and society shed rays of hope.
- **Bio:** Dr. Steven R. Van Hook has taught communication and culture classes for universities in the USA and abroad for 25 years, developing one of the first hybrid virtual courses for UCSB in 2000. He has led in academic positions including faculty senator, ombudsman, curriculum development, accreditation review, and instructor mentoring. He is President of Educare Research, a nonprofit program serving international educators and students. He's been a newspaper columnist, radio reporter, TV news anchor, and science podcast host. He was a television producer and bureau chief in Moscow, USSR from 1989-91; and for three years directed public education media programs in Ukraine through the United States Agency for International Development (USAID). He has served as a trainer and officer for organizations including VISTA, Head Start, as a licensed Master Captain by the US Coast Guard, and a private pilot. He has a PhD specializing in transcultural learning, and is published in scholarly journals including UNESCO's Prospects, and by SAGE. He has presented on virtual world education to administrators and groups at UCLA, UCSB, VWBPE, VWEC, The Science Circle, and elsewhere. Research website: <http://wwmr.us>

Rules of Sea



Capt. Van Hook

US Coast Guard Licensed Master Captain (retired)
ASA Certified Sailing Instructor
Credentialed Chaplain

Island Weddings & Memorials



- *Keep one hand on the boat*
- *Keep one hand on yourself*
- *Keep your head in the crises*
- *Keep a weather-eye on the horizon*
- *Keep hope alive*

Brain's Negative Bias



Our Brain's Negative Bias

- Brain built more attentive and sensitive to unpleasant news, keeping us out of harm's way
- Negative bias exploited by news, politics, interpersonal relations
- Small positive acts to counter negative in life spheres: 'Magic' ratio of 5-to-1

From **Psychology Today**
by Hara Estroff Marano

Don't Be So Hard on Yourself

- Negative bias self-criticism harms self, interfering with productivity

Negative bias hacks:

1. Practice self-compassion
2. Meet your self-criticism with same kindness offered others
3. Reduce ratio to x and y:
Make immediate contrast between *feelings of self-criticism* and *letting it go*. Brain will choose the less painful.

From **New York Times**
by Charolette Lieberman

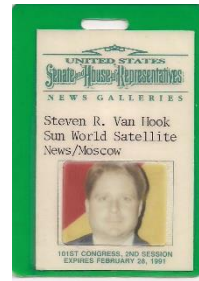
Article: The Right Way to Respond to Negative Feedback

Steve Van Hook

:: Media Work ::



TV Anchor
Circa 1987



Russia TV Bureau Chief
Circa 1990



Newspaper Writer
1980s –



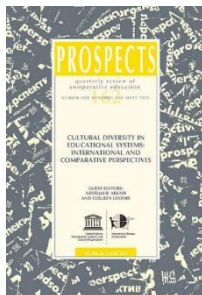
Radio Reporter
Circa 1985



Transcultural Themes & Images



- Babies & Children
- Pets & Animals
- Sports
- Love, Marriage, Relationship Conflicts
- Self-image
- The Birth-Life-Death Cycle
- Water



UNESCO Journal “Prospects”

Van Hook, S.R. (2012, June)

Hopes and hazards of transculturalism

[Article](#)

[Transcultural Research](#)

We Are (mostly) Good People

People Are More Generous Than You May Think *by David Brooks*

- In seven nations of study, 200 participants on average secretly spend free \$10,000 more on other than themselves (family, friends, strangers, charity)
- About 30% of people do behave selfishly
- Self-Fulfilling Prophecy: By telling people that they are innately selfish and surrounded by others who are innately selfish, we have encouraged one another to magnify the selfish side of our natures.
- We build inhumane systems in which material incentives blot out social and moral incentives. And we've made ourselves miserable along the way.
- A lot of our public thinkers have vastly underestimated the importance of the moral and social motivations woven into human nature.

The New York Times



[Article](#)

We (almost) All Cry Tears of Joy

- ***'Tears of Joy as an Emotional Expression of the Meaning of Life'***
- A study published in the journal *Frontiers in Psychology* in 2022 found that 92% of participants had cried tears of joy in the past year. The study also found that there are four main types of tears of joy: amusement, affection, beauty, and achievement.
- [Article](#)



ORIGINAL RESEARCH article

Front. Psychol., 08 March 2022

Sec. Cognitive Science

Volume 13 - 2022 |

<https://doi.org/10.3389/fpsyg.2022.792580>

'Americans' Dismal Views of the Nation's Politics'

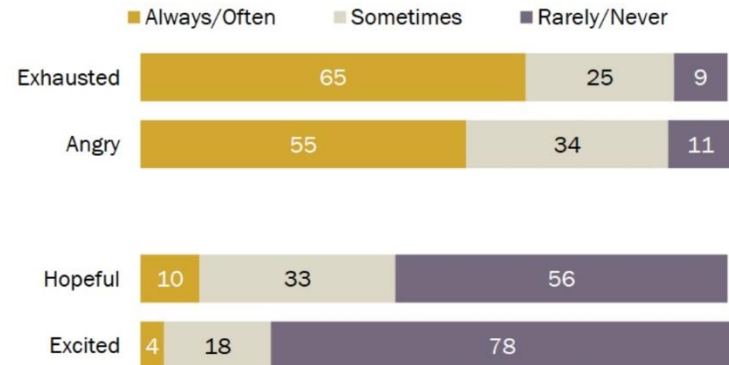
- **Just 4% of U.S. adults say the political system is working extremely or very well;** another 23% say it is working somewhat well. About six-in-ten (63%) express not too much or no confidence at all in the future of the U.S. political system.
- Majorities say the political process is dominated by special interests, flooded with campaign cash and mired in partisan warfare. Elected officials are widely viewed as self-serving and ineffective.
- **Positive views of many governmental and political institutions are at historic lows.** Just 16% of the public say they trust the federal government always or most of the time.



Pew Research Center

How Americans feel when they think about politics

% who ____ feel each of the following when thinking about politics these days



Note: No answer responses not shown.

Source: Survey of U.S. adults conducted July 10-16, 2023.
"Americans' Dismal Views of the Nation's Politics"

PEW RESEARCH CENTER

[Link](#)

Work Sucks Everywhere

‘Grim survey finds workers around the world have a toxic relationship with their jobs’

HP surveyed 15,000 employees in 12 countries and asked them about their relationship with work. Overall, the picture is grim. Across the globe, in every industry and every country surveyed, employees say they have an unhealthy relationship with work, one that impacts their physical or mental health negatively.

Few employees are flourishing: Only 27% of knowledge workers say they have a healthy relationship with work. India leads with 50% of employees saying they have a healthy relationship with work, while only 28% of employees say the same in the United States, and Japan lags far behind with only 5% of employees saying their work relationship is healthy.

What unhealthy looks like: 55% of employees say they struggle with self-worth and mental health, and report feeling like a failure. More than 60% say they struggle with their physical health—poor sleep, exercise, and eating habits.

This impacts the quality of work: 76% of people with an unhealthy relationship with their work consider leaving the company, 39% say they are disengaged, and a third are less productive.

Employees are willing to take a pay cut for happiness: 83% of employees said they’d be willing to earn less to be happier. Specifically, they’d give up 11% of their salary to work somewhere where employees are engaged and leadership is emotionally intelligent, and they’d give up 13% of their salary to work where or when they want.



FAST COMPANY

[Article](#)

Burnout For Most



‘Burnout: The New Pandemic’

- Expectations are higher than ever, while money, support staff and even basic rest and recuperation have not kept pace
- Burnout affects decision-making skills, memory, the ability to focus, and fine motor control
- A fix: “Structural focus on employees’ well-being, clear processes and workflows, and a commitment to organizational justice”

[Article](#)

‘People at Increased Risk of Burnout Due to More Demanding Workplace’

- A ‘perfect storm’ for work intensity: worker surveillance tech, unsustainable targets, staff shortages, low pay, excessive workloads
- 40% required to do more work or spend time out of contracted hours
- Women more likely to feel exhausted in over-represented areas of education, health care, social work

The Guardian

[Article](#)

‘State of the Global Workplace’

- Majority of world’s employees are ‘quiet quitting’
- Employee stress at record high
- More than half of us are job-seeking elsewhere
- Engagement matters more than where we work

GALLUP



[Report](#)

We're All Screwed

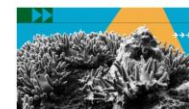
- Health and the climate are inextricably linked, and today the health of billions is endangered by the climate crisis.
- Climate change is undermining not just the health of our planet, but the health of people everywhere – through toxic air pollution, diminishing food security, higher risks of infectious disease outbreaks, extreme heat, drought, floods and more.
- Between 2030 and 2050, climate change is expected to cause approximately 250,000 additional deaths per year from malnutrition, malaria, diarrhea and heat stress, according to the [World Health Organization](#). And by 2030, the direct health costs caused by climate change are estimated to be between US\$2 billion and 4 billion a year.
- Climate change also exacerbates many social and environmental risk factors for [mental health](#). Exposure to extreme weather events, displacement, famine, malnutrition, anxiety and distress associated with climate change are all contributing to mental health issues.

United Nations Climate Action



Energy

Learn more about why the shift to renewables is our only hope for a brighter and safer world.



Ocean

Here are a few reasons we need to safeguard the ocean as our best ally for climate solutions.



Land

Learn how land plays a key role in the climate system as an essential carbon sink, regulating the planet's temperature.



Health

Find out how measures to tackle the climate crisis bring enormous gains in terms of public health.



Food

What we eat, and how that food is produced, affects our health but also the environment.



Biodiversity

Find out how protecting the world's biodiversity is essential for limiting carbon emissions and adapting to climate impacts.



Water

Water and climate change are inextricably linked. Learn more about how climate change affects the world's water.



Greenwashing

Learn about greenwashing, why it is an obstacle to tackling the climate crisis, and what you can do about it.

Channel Your Anger

The New York Times

‘Don’t Shut Down Your Anger. Channel It’

According to research published this week in the “Journal of Personality and Social Psychology,” anger is more helpful at motivating people to overcome obstacles and meet their goals than a neutral emotional state.

The researchers found that anger helped the students solve more puzzles. When they were asked to play a challenging computer game and it was rigged to be nearly impossible to win, this angered the students. But in those moments, they moved faster and their reaction time decreased. The other experiments also showed that anger could be beneficial.

“For a long time, there was this idea that being positive all the time was a life well lived, and that’s what we should strive for,” Dr. Lench said. “But there’s more and more evidence that it’s actually a life that’s balanced by a mix of emotions that seems to be more satisfying and positive long-term.”

Many of us have been taught to push away our so-called negative emotions and focus on the positive. But experts say that being relentlessly positive and leaning on happy platitudes, also known as “toxic positivity,” can harm us.

Venting can feel good, but it doesn’t generally produce solutions, Dr. Kross said. Try to get social support from people who are objective and can help reframe your circumstances.

[Article](#)



Righteous Anger



Righteous indignation, also called righteous anger, is anger that is primarily motivated by a perception of injustice or other profound moral lapse. It is distinguished from anger that is prompted by something more personal, like an insult.

Aristotle considered righteous indignation as a virtue

In some Christian doctrines, it is considered the only form of anger which is not sinful.

[Article](#)



‘Anger Has Benefits’

Across studies, anger compared to a neutral condition resulted in behavior that facilitated greater goal attainment on tasks that involved challenges.

[Article](#)

Sad Isn't All Bad

'It's Okay to Feel Sad'

- Everyone's situational sadness is *not* chronic clinical depression
- Sadness is a normal part of everyone's ups and downs
- We can learn to manage sadness
- Acknowledge your sadness and the cause
- Sadness can prompt choices for improvement

Better Health Channel



Inside Out

Joy / Sadness / Fear / Anger / Disgust
Pixar / 2015



*And it feels so good to hurt so bad
And suffer just enough to sing the blues*

Sad Songs Say So Much

Bernie Taupin / Elton John

Love Heals Us



‘The Surprising Health Benefits of Love’

- You don’t have to be in a romantic relationship to benefit from love
- Increases life expectancy
- Maintains healthy heart
- Lowers blood pressure
- Decreases anxiety
- Reduces stress levels
- Eases chronic pain
- Improves sleep
- Helps the gut
- Reduces depression

[Article](#)



‘The Incredible Benefits of Pets & Plants on Our Health’

- Lower blood pressure
- Reduced stress
- Lower chance of heart disease
- Better and faster recovery after hospital stay

[Article](#)

How to Fix Earth

‘How to Unscrew a Planet’

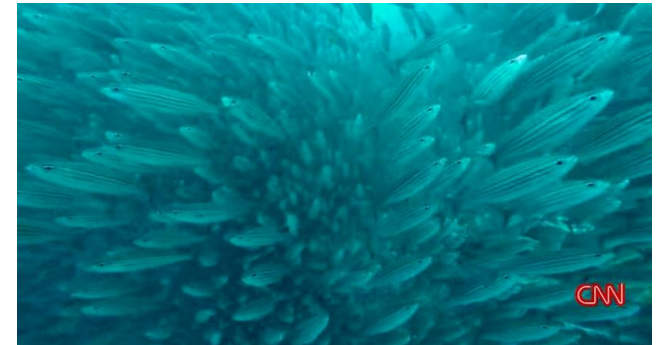
Bill Weir, CNN Chief Climate Correspondent

- 117-billion people who have ever lived have created tech miracles and screwed up natural law. Big Time.
- Salvation perhaps in removing carbon from in sea and sky; solar travel (aviation, boats, cars); climate intervention; global awareness of what works.
- Baleen whales and their waste in near extinction created starved ocean deserts. Trial of artificial whale poo made from volcanic ash, rich in nutrients (nitrates, phosphates, silicates, iron). In four days, phytoplankton; five days after that, it's full of fish!



[YouTube](#)

[Transcript](#)



A new climate change report offers something unique: hope

Electric vehicles and solar power are growing quickly and offering hope the world could still meet climate change goals. **Read in [NPR](#)**



Health for Body & Mind

‘Suddenly, It Looks Like We’re in a Golden Age for Medicine’

- ‘We may be on the cusp of an era of astonishing innovation — the limits of which aren’t even clear yet’
- Limitless horizon for Crispr-powered therapies and cures rewriting the code of life
- Vaccines for world’s most infectious diseases, cancer treatment, weight loss
- ‘You can’t imagine what we’ll see over the next 30 years — the pace of advancement is in an exponential phase’

The New York Times Magazine



[Article](#)



**Electronic Energy
Migration in
Microtubules**
[ACS Journal Article](#)

Researchers:

R. Penrose, Nobel Physicist
S. Hameroff, MD
J. Tuszynski, Physicist

‘Your Consciousness Can Connect With the Whole Universe, Scientists Say’

A recent follow-up (2023) experiment suggests consciousness is a quantum wave process facilitated by microtubules in nerve cells of the brain, that connects us with the rest of the universe. Like every quantum wave, it has properties such as superposition (the ability to be in multiple places at the same time) and entanglement (the ability for two very distant particles to join).



POPULAR
MECHANICS

[Article](#)

Global Trends the Next ~20 Years

‘A More Contested World into 2040’



- Need to adapt and bridge divisions, tensions, imbalances, fragmentation, disequilibrium
- Rapidly aging and contracting populations
- Newer populations well-informed and express demands
- Rise in democracies and new models of governance
- High quality, low-impact living
- Technological divide

The NIC's National Intelligence Officers founded 1979 — drawn from government, academia, and the private sector — are the Intelligence Community's senior experts on a range of regional and functional issues.

[link](#)



Global Trends Report

How the World Keeps Getting Better

*23 Charts &
Maps that
Show
the 'World is
Getting Much,
Much Better'*



[Article](#)

by Dylan Matthews / Vox.com

Extreme Poverty Has Fallen

Subsistence
living on less
than \$1.90
a day:

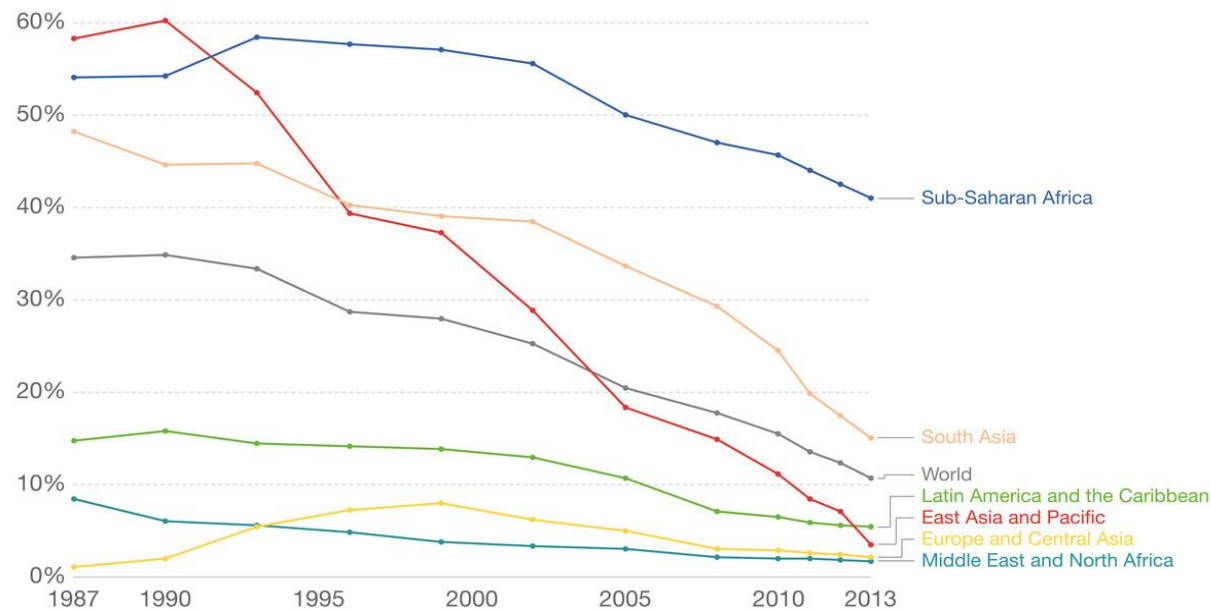
1987: 35%

2021: 9%

Share of the population living in extreme poverty, by world region

Extreme poverty is defined as living with per capita household consumption below 1.90 international dollars per day (in 2011 PPP prices). International dollars are adjusted for inflation and for price differences across countries.

Our World
in Data



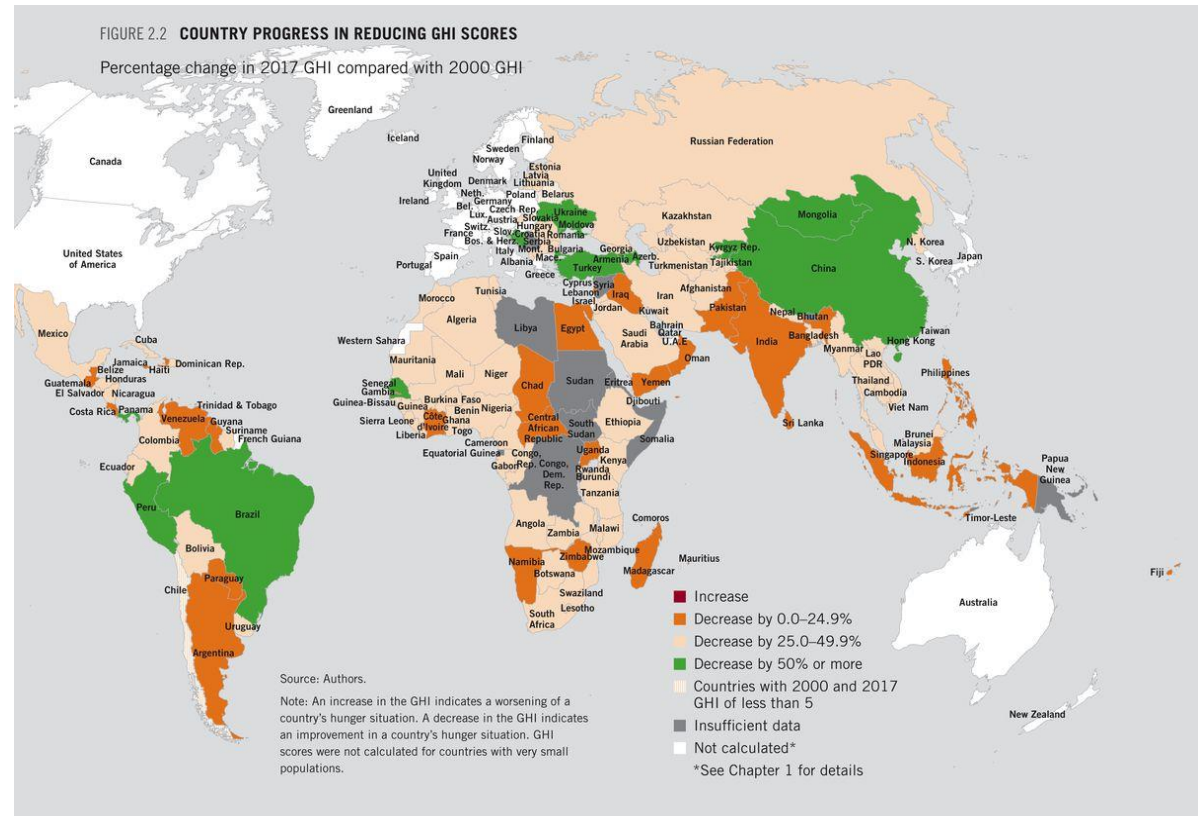
Source: Share of the population living in extreme poverty by world region - PovcalNet World Bank

Note: Consumption per capita is the preferred welfare indicator for the World Bank's analysis of global poverty. However, for about 25% of the countries, estimates correspond to income, rather than consumption.

OurWorldInData.org/extreme-poverty/ • CC BY-SA

Hunger Is Falling

Between 2000 and 2017, hunger has decreased by half or more in green countries

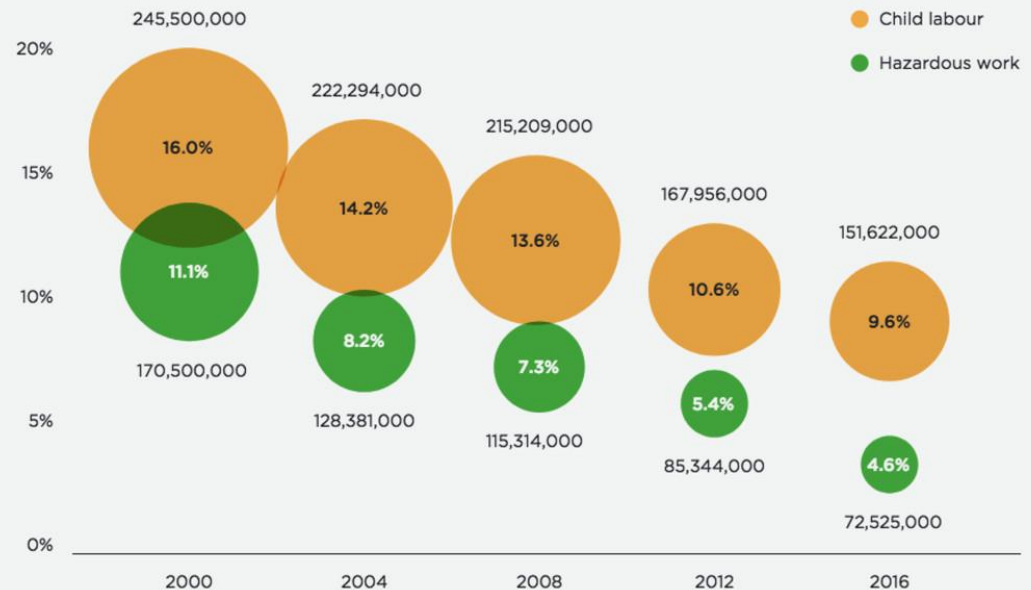


Child Labor on Decline

Reduction of
40% in child
labor at
hazardous
work

Children's involvement in child labour and hazardous work, 2000-16

Percentage and absolute number of children in child labour and hazardous work, 5-17 years age range, 2000 to 2016^(b)

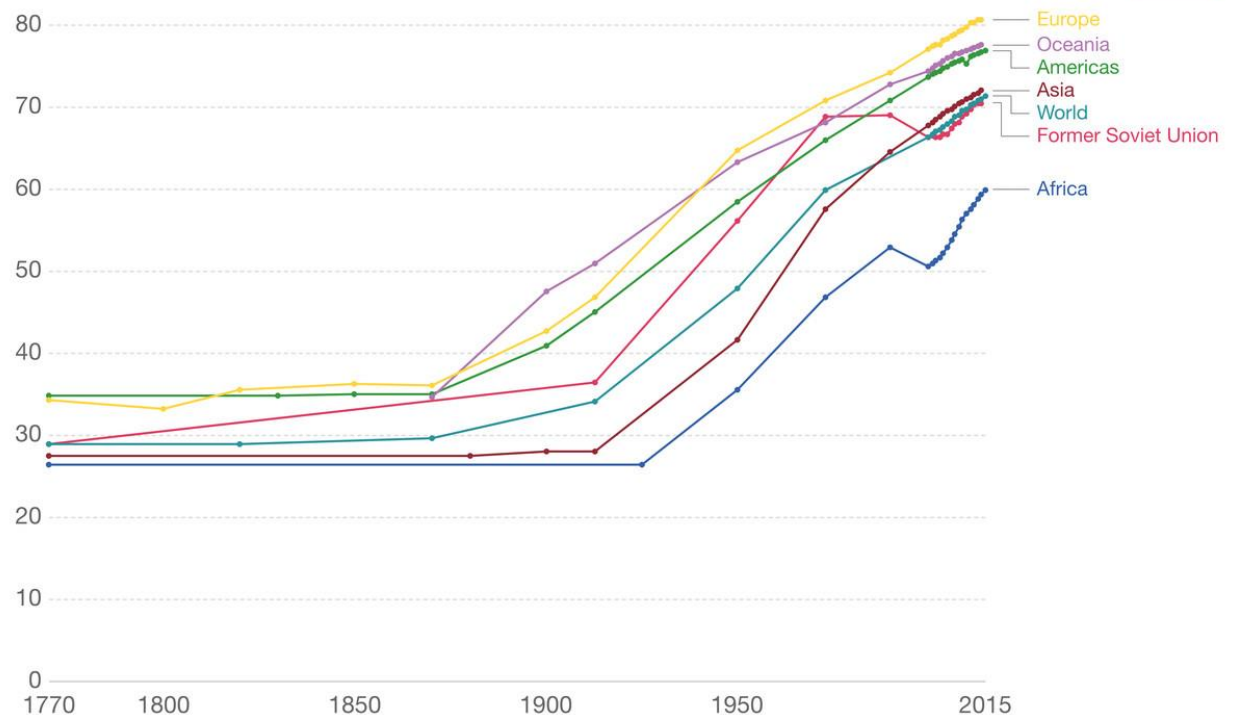


Note: (b) Bubbles are proportionate to the absolute number of children in child labour and hazardous work.

Life Expectancy is Rising

Global life expectancy increased by six years between 1990 and 2016.

Life expectancy globally and by world regions since 1770



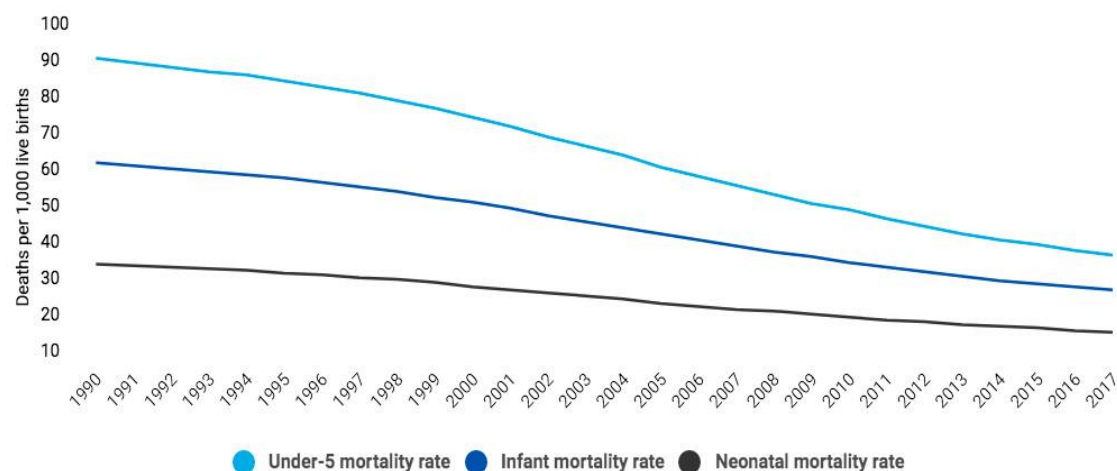
Source: Life expectancy – James Riley for data 1990 and earlier; WHO and World Bank for later data (by Max Roser)
OurWorldInData.org/life-expectancy/ • CC BY-SA

Child Mortality is Down

Child deaths
by age 5
have fallen
by half since
1990

The under-five mortality rate has fallen by more than half since 1990

Global under-five, infant and neonatal mortality rates, 1990-2017

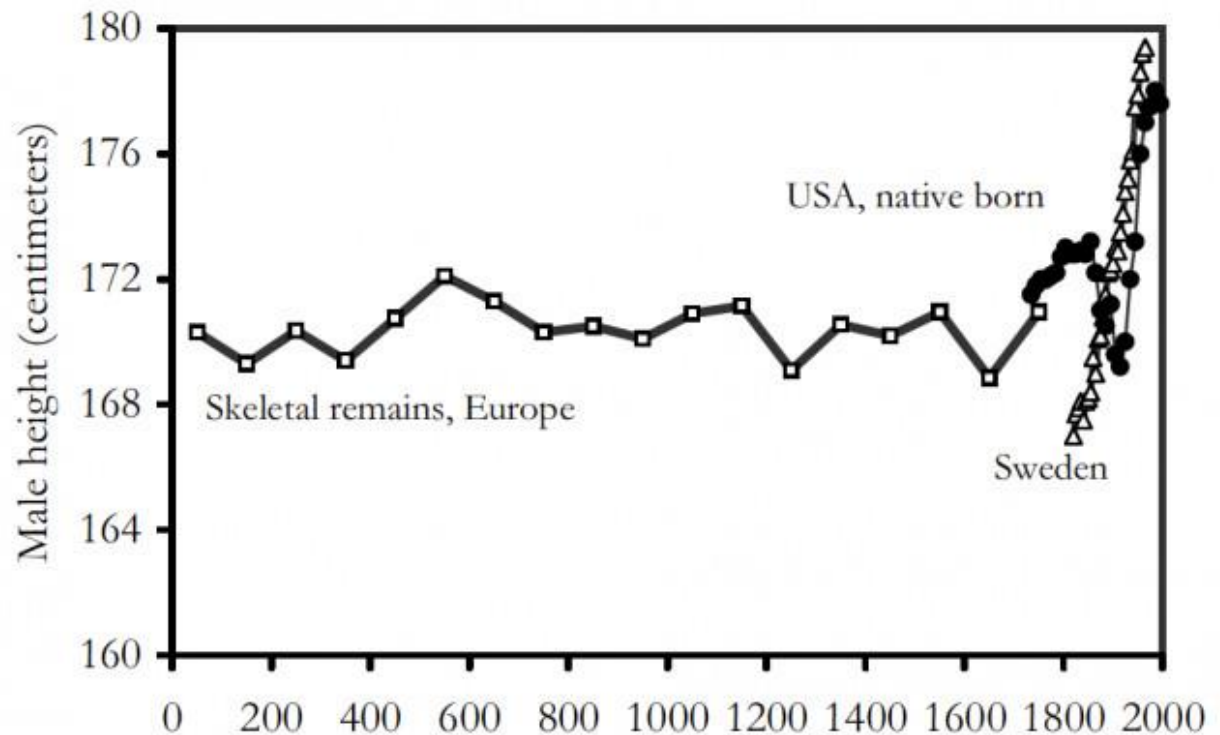


[Download data](#)

Source: United Nations Inter-agency Group for Child Mortality Estimation (UN IGME) 2018

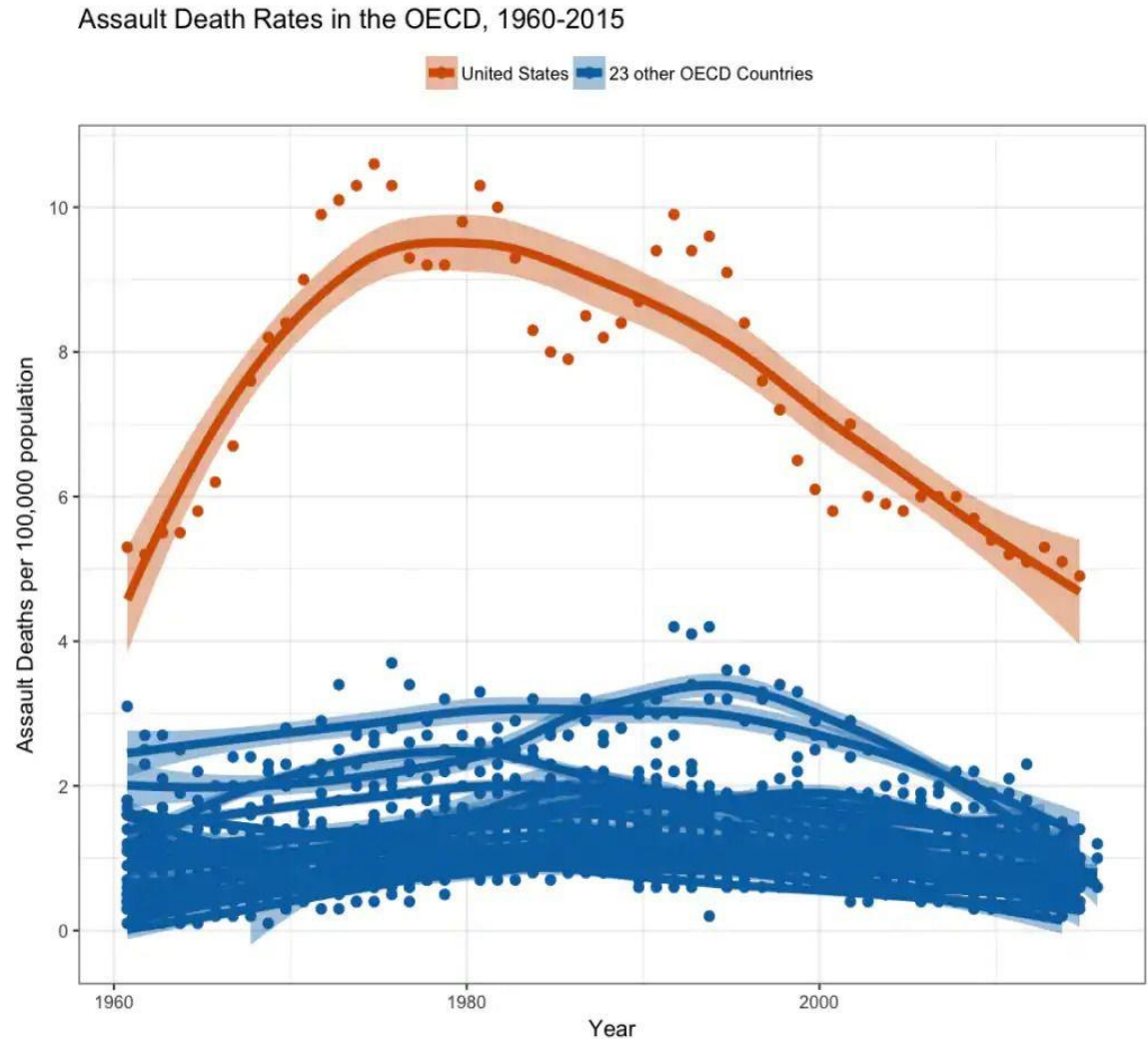
People are Getting Taller

Better nutrition and living standards have contributed to human height shooting up since the industrial revolution



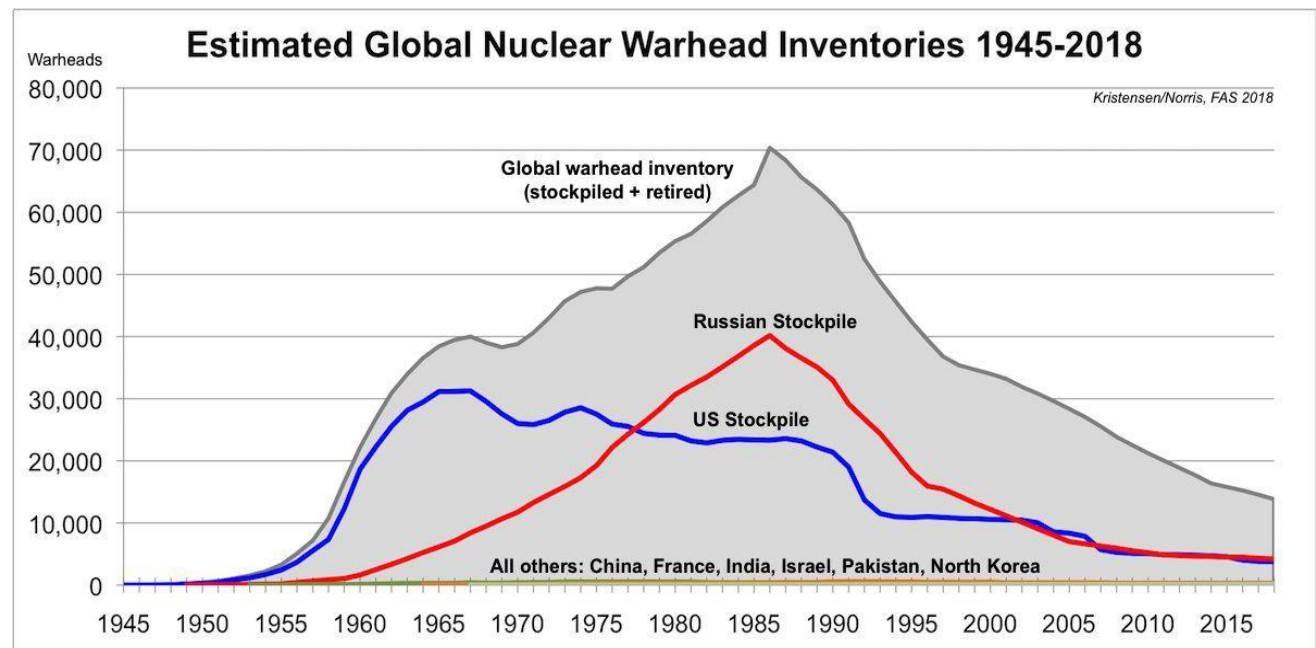
Homicide Rates Have Fallen

Sharp
decline in
homicides
per
100,000
from
1980 - 2015



Global Nuclear Weapons Declining

Stockpiles peaked in 1986 at 70,300 warheads; to sharp drop towards 2018



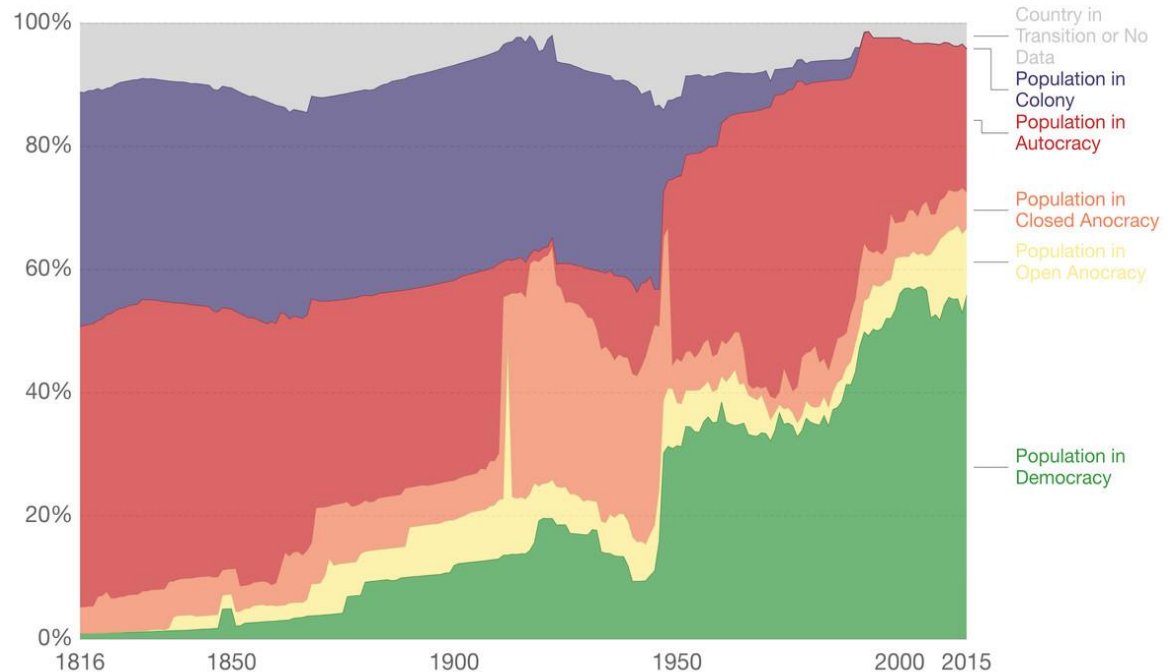
More People Live in Democracies

Percentage
of
democratic
countries
has climbed
to record
highs since
1950

Number of world citizens living under different political regimes

The Polity IV score captures the type of political regime for each country on a range from -10 (full autocracy) to +10 (full democracy). Regimes that fall into the middle of this spectrum are called anocracies.

Our World
in Data



Source: World Population by Political Regime they live in (OWID (2016))
OurWorldInData.org/a-history-of-global-living-conditions-in-5-charts/ • CC BY-SA

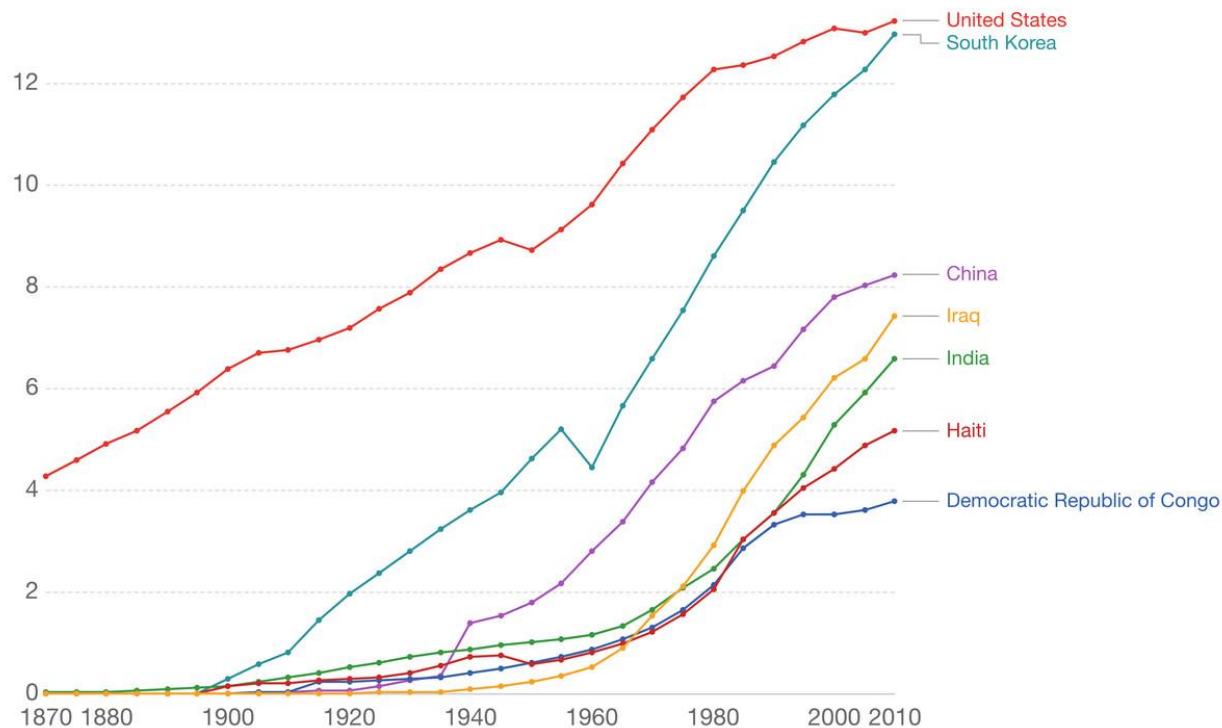
More People Go to School for Longer

Education rates rise swiftly in many developing nations

Mean years of schooling

Average number of years of total schooling across all education levels, for the population aged 15-64.

Our World
in Data



Source: Lee and Lee (2016)

OurWorldInData.org/global-rise-of-education • CC BY-SA

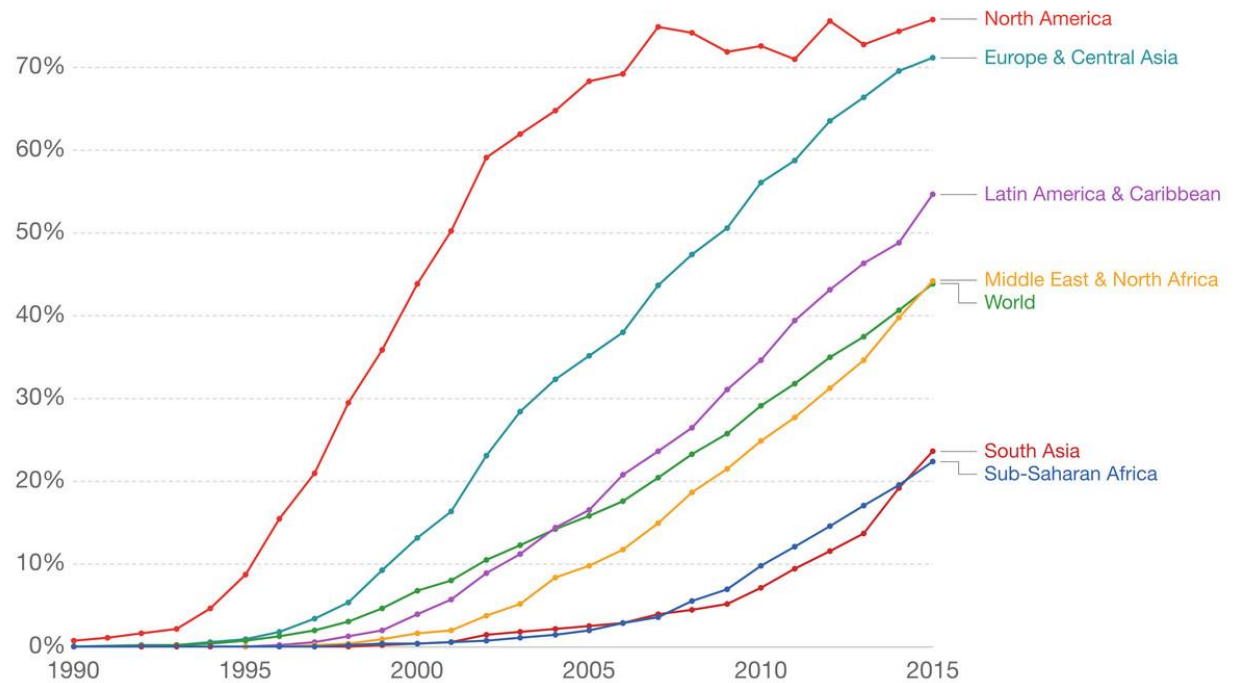
Access to the Internet is Increasing

Internet
access
rises
rapidly in
developed
and
developing
nations

Share of individuals using the internet

Share of individuals using the internet, measured as the percentage of the population. Internet users are individuals who have used the Internet (from any location) in the last 3 months. The Internet can be used via a computer, mobile phone, personal digital assistant, games machine, digital TV etc.

Our World
in Data

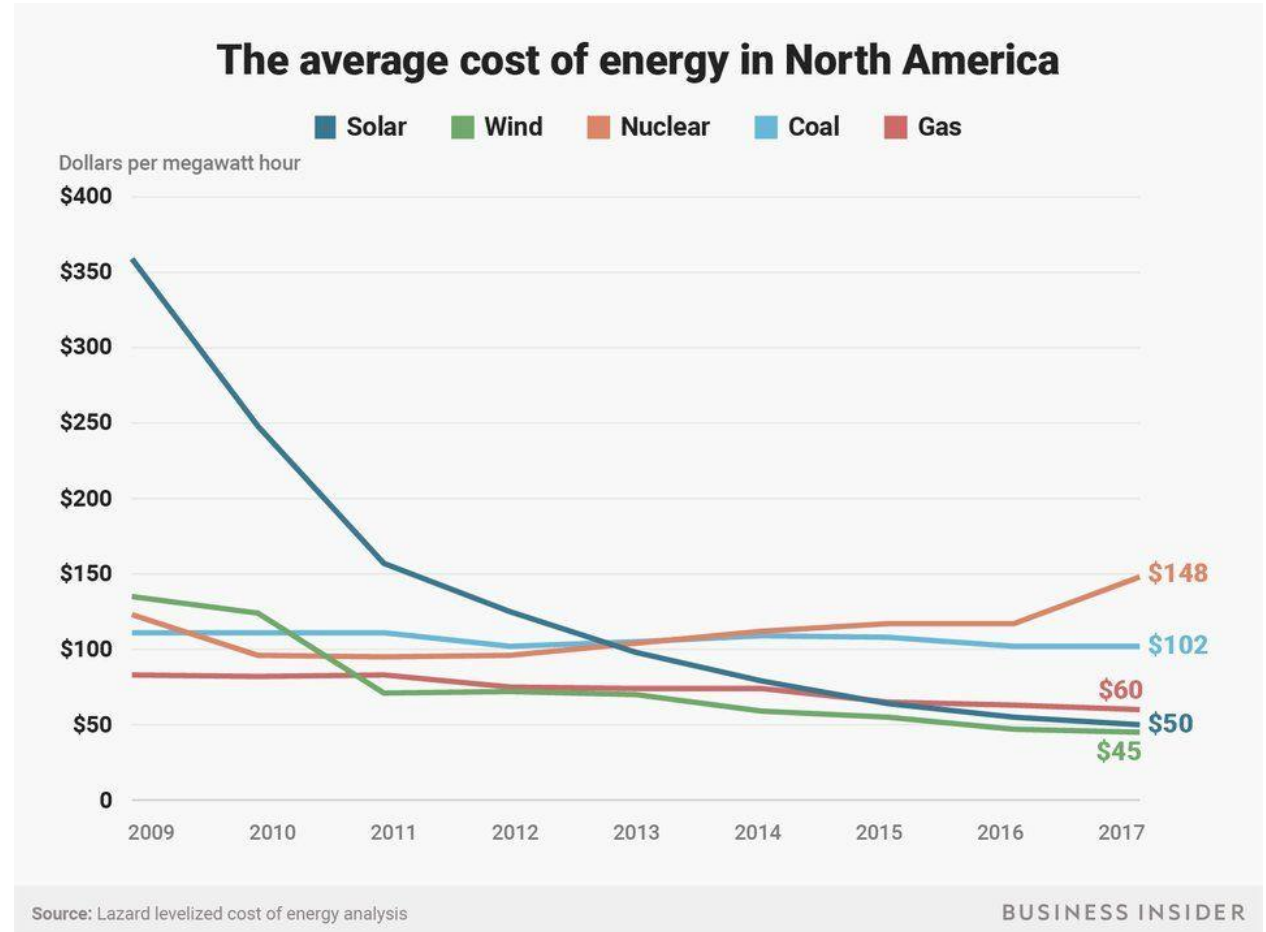


Source: World Bank – WDI

OurWorldInData.org/technology-adoption/ • CC BY-SA

Solar Energy is Getting Cheaper

Solar and
wind
power
now
cheaper
per
megawatt
hour than
gas or oil



A New 'Useless Class'

The
Guardian

“

By 2050 a new class of people might emerge - the useless class.

People who are not just unemployed, but unemployable

”

“Economically redundant people might spend increasing amounts of time within 3D virtual reality worlds, which would provide them with far more excitement and emotional engagement than the ‘real world’ outside.”



[Article](#)

Our New Purpose



‘Instead of taking our jobs, what if AI just lets us give our lives more purpose?’

Fast Company

Emerging technology offers the real potential for humans to achieve a post-professional era where we are not defined by our jobs, but a new purpose to enhance the human condition and the world.

The focus today should be what we can do now to make sure the path is set towards an optimistic future.’

‘In a future where machines could replace our need to contribute to the labor market, there is potential for us not to be defined by our jobs, but by a newer purpose to enhance humanity and the planet.

The more “productive” we become in a shorter period of time, the more time we can dedicate to purpose-driven endeavors that prioritize planet and people over profit.’

BY CORMAC Ó CONAIRE

‘They Know Social Change is Coming’

‘... a shift in worldview from the autonomous individual of hyper-capitalism and social Darwinism to a recognition of both the natural and social worlds as orchestras of interdependence, of survival as an essentially collaborative and cooperative business.’

‘Disciplines from neuropsychology to economics have shifted their sense of who we are, what works, and what matters.’



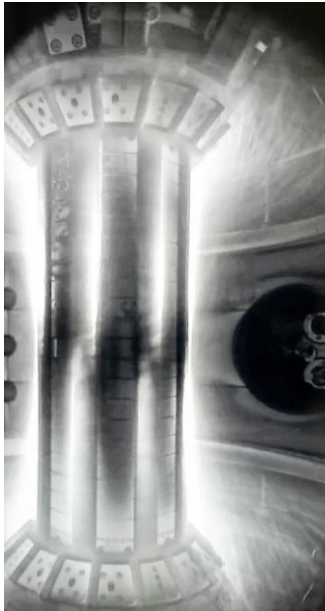
Rebecca Solnit

**The
Guardian**

A ‘love ethic’ includes ‘a global vision wherein we see our lives and our fate as intimately connected to those of everyone else on the planet’
- bell hooks

[Article](#)

Cheap Abundant Power



Nuclear Fusion
Edges Toward
the Mainstream

*‘You'd be surprised
how much energy is
in a beam of light.’”*
– Prot in K-Pax



The Manatee Energy Storage Center able to deliver 900 MWh of energy – enough to power 329,000 homes for two hours.



A solar panel
in space
could beam
energy
anywhere on
Earth



Wireless 5G Power Grid

Cell phone providers could start beaming out electricity to power all kinds of small electronics, from delivery drones to tracking tags for pallets.



‘Insanely cheap solar energy ... It’s a fundamentally different world’
The Guardian

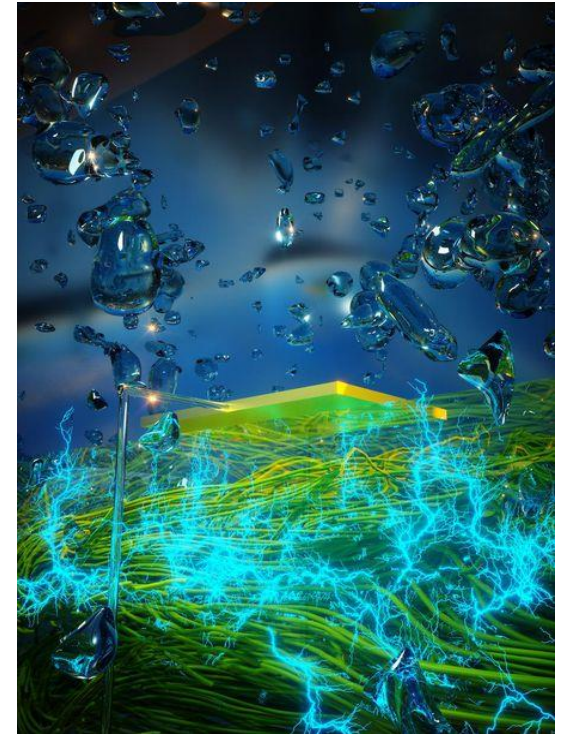
‘Electricity Out of Thin Air’

Scientists in Amherst, MA are developing a new technology that will use the moisture from the air to create a charge.



The current Air-gen device can power small devices. Photos courtesy: UMass Amherst / Yao and Lovley labs.

Article



Graphic image of a thin film of protein nanowires generating electricity from atmospheric humidity.

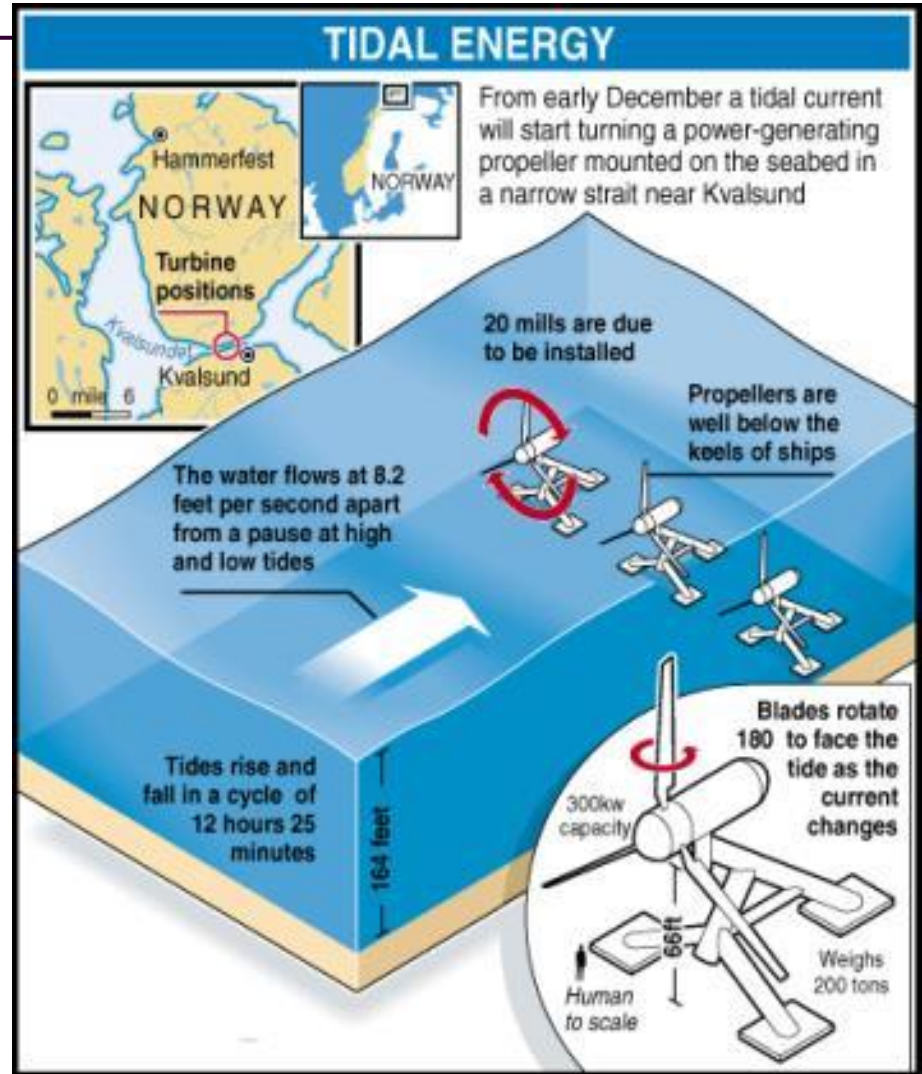
Tidal Energy: Power from the Sea

In a novel use of clean energy, the world's most northerly town will soon be the first to get electricity from a sub-sea power station run on tidal currents tugged by the moon.

Gigantic forces in the oceans -- waves, currents and tides -- have often proved too costly or awkward to harness, compared to wind or solar power in global efforts to cut reliance on nuclear power or on fossil fuels blamed for global warming.

This Reuters graphic shows how giant underwater propellers will use currents to create electrical power.

(Reuters Graphic 11/4/02)



Wind Energy Takes Flight

The global wind energy industry is expected to enjoy continued strong growth in coming years with total installed capacity seen to be ever increasing.

- *Reuters*



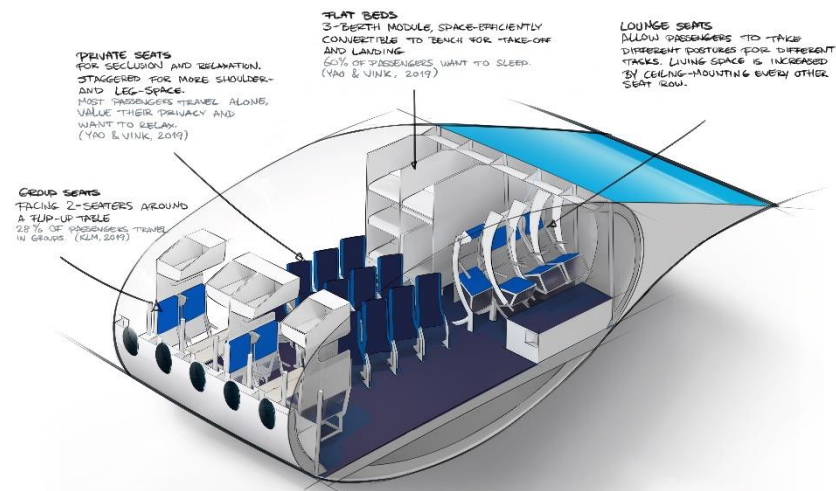
Giant wind turbines dot the sky at dawn near Honrrubia, Spain



An offshore wind turbine off the coast of Fukushima, Japan

Flying V Plane Planned for 2040

- A blended wing body aircraft, with no distinct wing and a body structure like more conventional aircraft, reducing drag and fuel, powered by electric fans



- *Arstechnica*

Air Cars & Taxis



‘The new electric aircraft use one-fifth the energy of conventional helicopters. Unlike helicopters, they will be largely inaudible from the ground and have multiple rotors and backup systems, making them much safer.’

[Article](#)

The New York Times



‘Flying cars will be a reality by 2030, says Hyundai. Urban air mobility could free up congestion and help with emissions in cities.’

[Article](#)

The Guardian

Solar Floating Home



WaterNet 100: *Ecological floating habitat*

- * 1,000 square feet
- * 12 meters in diameter – 4 meters tall
- * Roof topped with 60-square-meter photovoltaic array generating 4kWp
- * Suitable for home, office, exhibition space, shop, café ...
- * Nearly 100% recyclable



[Article](#)

Printed Homes

- Printed on site using local clay
- Zero waste product
- WASP 3D printers create homes 21'x10'
- Several homes build at once using multiple crane printers





Prefab self-sustaining floating city by AT Design Office.

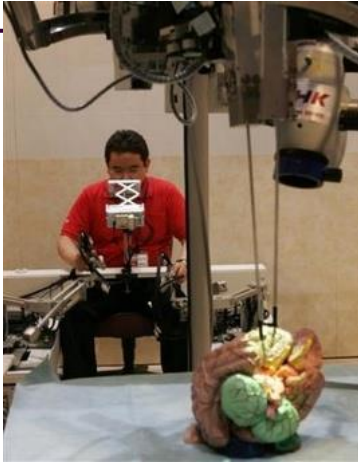
As the world's most populous nation, China has serious concerns about overcrowding in its cities. Chinese construction firm CCCC commissioned AT Design Office to create an attractive floating city solution that took the form of a sprawling buoyant landmass made from prefabricated hexagonal modules. The self-sufficient island is designed to be zero-carbon, energy efficient, and would include vertical farms and fish hatcheries to produce its own food.



Harvest City by Tangram 3DS and E. Kevin Schopfer

When Haiti was hit by the devastating 2010 earthquake, architect E. Kevin Schopfer and Tangram 3DS developed an innovative floating city design to bolster the country's recovery. The collection of artificial islands, called Harvest City, envisioned a new Haiti made up of tethered floating modules. The center of the floating city would be dedicated to urban functions like office space, education, and light industry, while the outer areas comprised agricultural lands.

Surgical Robots

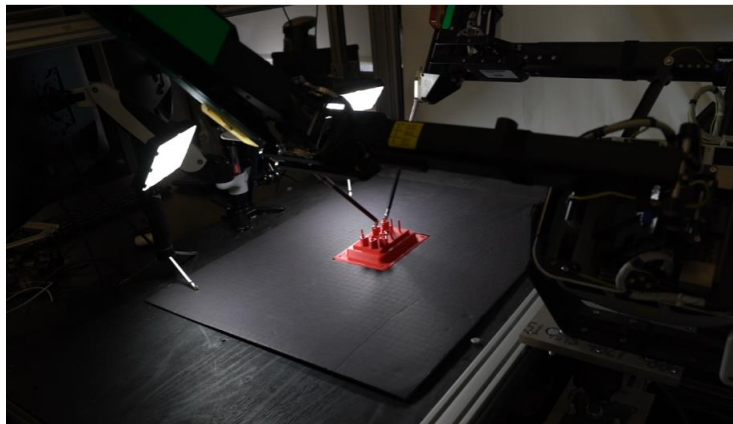


A researcher at Tokyo University operates a surgical robot with microsurgical hands that can operate effectively in a deep surgical field.



‘Despite the lack of evidence that robotics is better than true open surgery ... the shift to robotics has already occurred.’

Article



‘Doctors could perform surgery across distances far greater than the width of the operating room — from miles or more away, perhaps, helping wounded soldiers on distant battlefields ... operating on people on the moon.’

Robot Performs First-Ever Surgery Inside Human Eye

“Even highly skilled surgeons can cut too deeply and cause small amounts of hemorrhaging and scarring, potentially leading to other forms of visual impairment ... The pulsing of blood through the surgeon’s hands is enough to affect the accuracy of the cut.”

-- NBC News



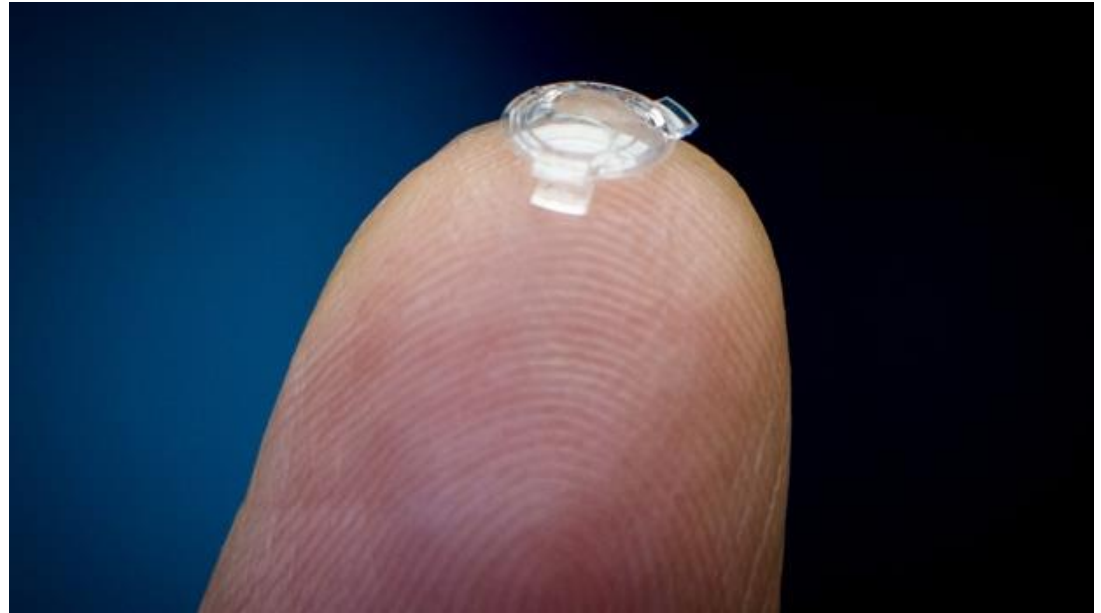
The technique is being called "a vision of eye surgery in the future."

Article



Bionic 60/20 Eye Implants

- Bionic implant can be injected into eye, correcting vision and allowing user to see 60' clearly from 20'
- Remedies cataracts



Ocumetics' Bionic Lens

[Article](#)



- Bionic implant potential Wi-Fi and Bluetooth interactivity

Kurzweil's Singularity

- A couple decades from now, a superior intelligence will dominate and life in an altered form that we can't comprehend in our current, limited state.
- Human beings and machines will so effortlessly and elegantly merge that poor health, the ravages of old age and even death itself will all be things of the past.
- A great leap will occur when industries like medicine and energy start moving at the same exponential pace as I.T.
- Rapid bursts of innovation and may pave a path to a 700-year lifetime.
- By the 2030s, most people will be able to achieve mental immortality by similarly backing up their brains, Mr. Kurzweil predicts.



“Merely Human? That’s so Yesterday” / New York Times

Brain Content Avatars

- “By 2045, mass production of lifelike, low-cost avatars that can be uploaded with the contents of a human brain, complete with all the particulars of consciousness and personality.”

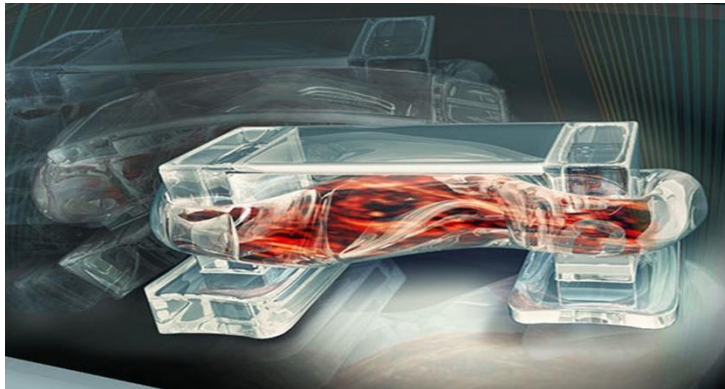
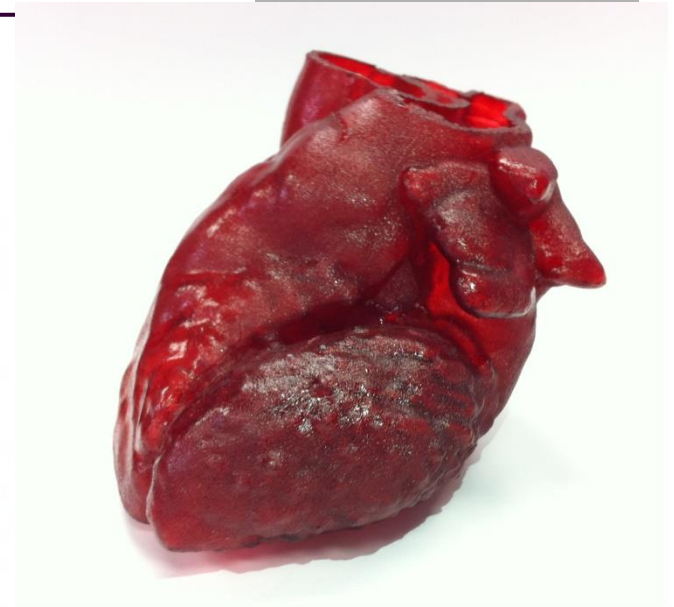
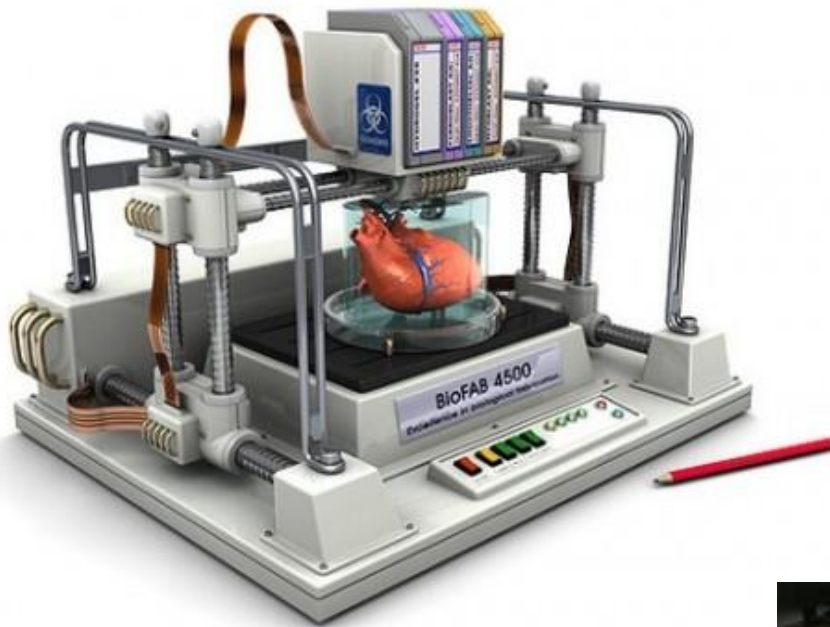
~ *New York Times*



Robotic model of head will use 36 motors to reproduce facial expressions and voice.

[Article](#)

3D Printed organs, flesh, faces ...



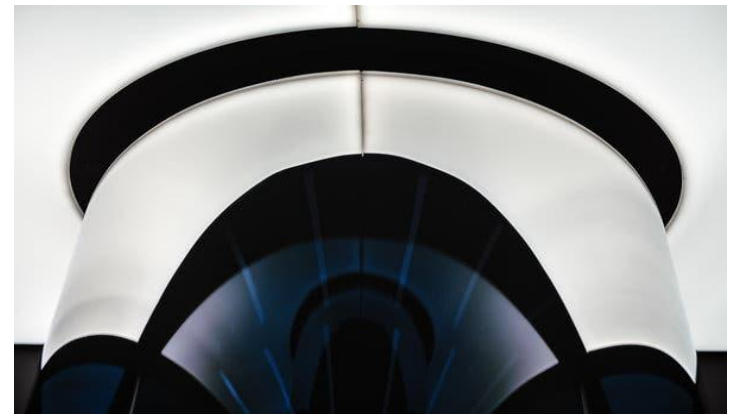
Quantum Computing Is Coming

- With transmons and entanglement, scientists strive to put subatomic weirdness to work on the human scale
- In three minutes it performed a highly technical and specialized computation that would have taken a regular computer 10,000 years

-NY Times



Article



LifeStraw



- At any given moment, about half of the world's poor are suffering from waterborne diseases, of which over 6,000 – mainly children – die each day by consuming unsafe drinking water.
- LifeStraw® offers relief from the waterborne diseases such as Typhoid, Cholera, Dysentery and Diarrhea. A personal mobile water purification tool, designed to turn surface water into drinking water.
- Price: ~\$3.00 each. From Denmark.

Designs That Help the World's Poor



- A 20-gallon rolling drum for transporting water.

Homes in a Bottle



- *Matthew Naples and Peter Zummo designed bottles that, once empty, snap together for housing in developing countries.*



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