

**Best Inventions 2022**

Here are TIME's list of the best inventions of 2022.

[time.com](https://www.time.com)



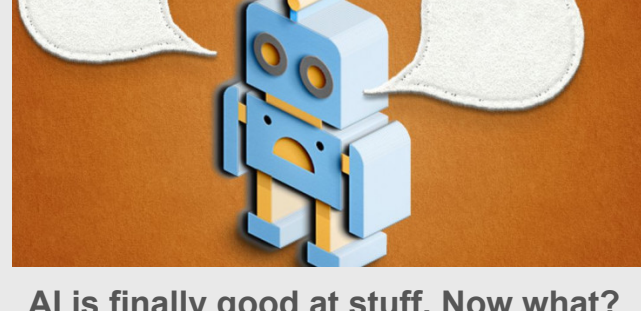
**ARTIFICIAL INTELLIGENCE**



**The New Chat Bots Could Change the World. Can You Trust Them?**

Siri, Google Search, online marketing and your child's homework will never be the same. Then there's the misinformation problem. Send any friend a story As a subscriber, you have 10 gift articles to give each month. Anyone can read what you share.

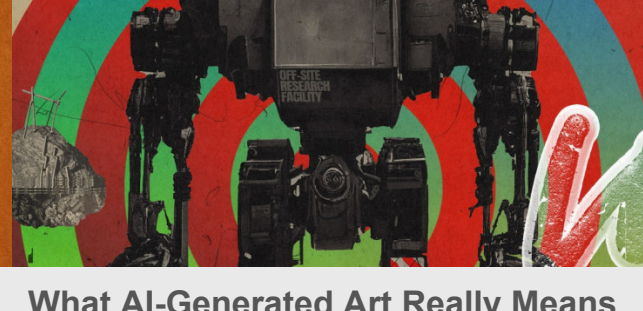
[nytimes.com](https://www.nytimes.com)



**AI is finally good at stuff. Now what?**

Uncovering and explaining how our digital world is changing - and changing us. A few weeks ago, Wharton professor Ethan Mollick told his MBA students to play around with GPT, an artificial intelligence model, and see if the technology could write an essay based on one of the topics discussed in his...

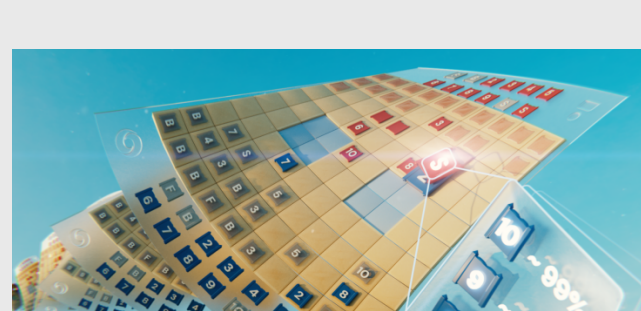
[vox.com](https://www.vox.com)



**What AI-Generated Art Really Means for Human Creativity**

Artificial intelligence can now make better art than most humans. Soon, these engines of wow will transform how we design just about everything. Picture Lee Unkrich, one of Pixar's most distinguished animators, as a seventh grader. He's staring at an image of a train locomotive on the screen of his...

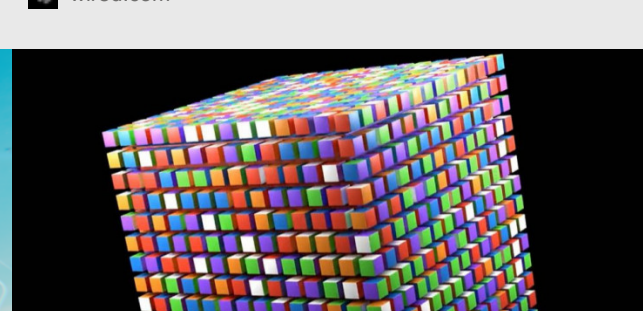
[wired.com](https://www.wired.com)



**Mastering Strategy, the classic game of imperfect information**

Game-playing artificial intelligence (AI) systems have advanced to a new frontier. Stratego, the classic board game that's more complex than chess and Go, and craftier than poker, has now been mastered. Published in Science, we present DeepNash, an AI agent that learned the game from scratch to a...

[deepmind.com](https://www.deepmind.com)



**AI Reveals New Possibilities in Matrix Multiplication**

Mathematicians love a good puzzle. Even something as abstract as multiplying matrices (two-dimensional tables of numbers) can feel like a game when you try to find the most efficient way to do it. It's a little like trying to solve a Rubik's Cube in as few moves as possible - challenging, but...

[quantamagazine.org](https://www.quantamagazine.org)



**LIFE SCIENCES**



**The Era of One-Shot, Multimillion-Dollar Genetic Cures Is Here**

Gene therapies promise long-term relief from intractable diseases-if insurers agree to pony up. Some of Steven Pipe's hemophilia patients consider themselves cured. In a trial Pipe led from 2018 to 2021, they received a one-time gene therapy meant to override a DNA mutation that causes spontaneous...

[wired.com](https://www.wired.com)



**CRISPR vs breast, colon, lung cancer: First human trial goes well**

For the first time, researchers have used CRISPR technology to substitute genes in patients' immune cells to treat cancer. Participants included 16 patients with different solid cancers including breast, colon, and lung cancers. Researchers isolated and cloned T-cell receptors from the patient's...

[medicalnewstoday.com](https://www.medicalnewstoday.com)



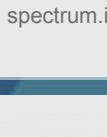
**INFRASTRUCTURE**



**The State of the Transistor in 3 Charts**

Samuel K. Moore Samuel K. Moore is the senior editor at IEEE Spectrum in charge of semiconductors coverage. An IEEE member, he has a bachelor's degree in biomedical engineering from Brown University and a master's degree in journalism from New York University. David Schneider David Schneider is a...

[spectrum.ieee.org](https://www.spectrum.ieee.org)



**ENERGY**



**U.S. to announce fusion energy 'breakthrough'**

The Department of Energy plans to announce Tuesday that scientists have been able for the first time to produce a fusion reaction that creates a net energy gain - a major milestone in the decades-long, multibillion dollar quest to develop a technology that provides unlimited, cheap, clean power.

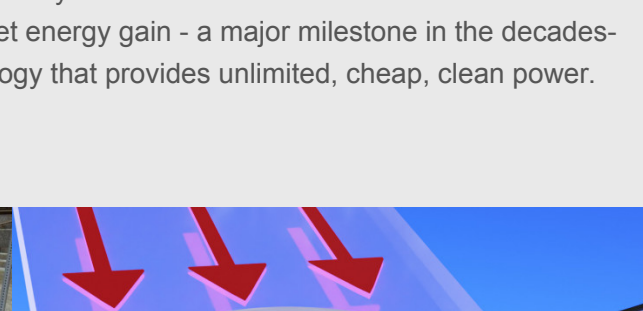
[washingtonpost.com](https://www.washingtonpost.com)



**The EV Transition Explained: Battery Challenges**

Robert N. Charette Robert N. Charette is a Contributing Editor to IEEE Spectrum and an acknowledged international authority on information technology and systems risk management. A self-described "risk ecologist," he is interested in the intersections of business, political, technological, and...

[spectrum.ieee.org](https://www.spectrum.ieee.org)



**Engineers solve a mystery on the path to smaller, lighter batteries**

A new discovery could finally usher the development of solid-state lithium batteries, which would be more lightweight, compact, and safe than current lithium batteries. The growth of metallic filaments called dendrites within the solid electrolyte has been a longstanding obstacle, but the new study...

[news.mit.edu](https://www.news.mit.edu)



**CYBERSECURITY**



**Mathematical theorem used to crack US government encryption algorithm**

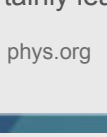
In the digital era and moving towards quantum computing, protecting data against hack attacks is one of our biggest challenges-and one that experts, governments, and industries worldwide work hard to address. While this is an effort to build a more connected and safe future, it can certainly learn...

[phys.org](https://www.phys.org)

**What's next in cybersecurity**

Skip to Content "When it comes to really cutting off ransomware from the source, I think we took a step back." This story is a part of MIT Technology Review's What's Next series, where we look across industries, trends, and technologies to let you know what to expect in the coming year.

[technologyreview.com](https://www.technologyreview.com)



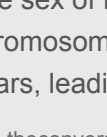
**IN THE LAB**



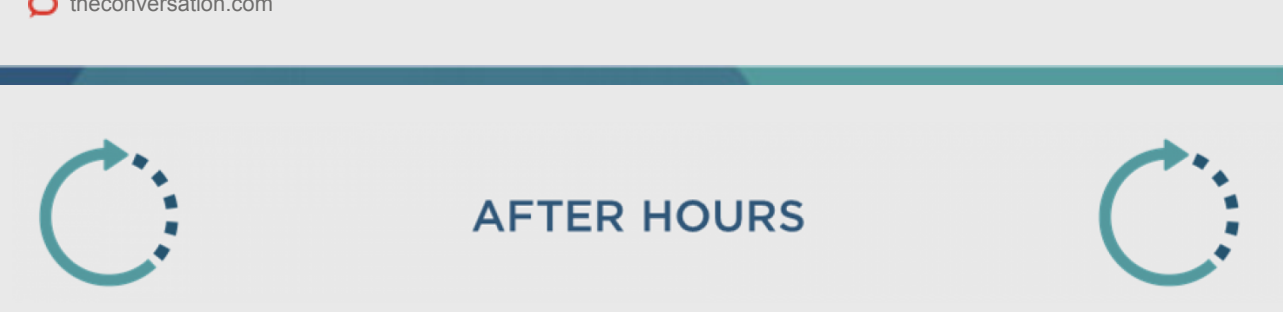
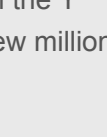
**Men are slowly losing their Y chromosome, but a new sex gene discovery in spiny rats brings hope for humanity**

The sex of human and other mammal babies is decided by a male-determining gene on the Y chromosome. But the human Y chromosome is degenerating and may disappear in a few million years, leading to our extinction unless we evolve a new sex gene.

[theconversation.com](https://www.theconversation.com)



**AFTER HOURS**



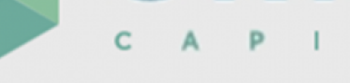
**The World Cup of Microsoft Excel**

A few weeks ago, you very likely missed what were very likely the most thrilling moments in the history of Microsoft Excel. Allow me to set the scene: The semifinal of the Excel World Championship was streaming live on YouTube and ESPN3.

[theatlantic.com](https://www.theatlantic.com)



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