



2021, in 6 minutes

[youtube.com](#)



100 Best Inventions of 2021

Groundbreaking innovations that are making the world better, smarter and a little more fun

[time.com](#)



ARTIFICIAL INTELLIGENCE



2021's Top Stories About AI

Spoiler: A lot of them talked about what's wrong with machine learning today

[spectrum.ieee.org/cdn...](#)



Using AI to bring children's drawings to life

Does your child love to draw? Ever wished that characters in their drawings could "come to life" and move around the page?

[ai.facebook.com](#)



ROBOTICS



Where Four-Legged Robot Dogs Are Finding Work

A number of four-legged robot dogs made by companies like Boston Dynamics, Anybots and Ghost Robotics have been deployed in the workforce already...

[youtube.com](#)



Teaching robots how to manipulate unseen objects

[youtube.com](#)



LIFE SCIENCES



Breakthrough of the Year: AI brings protein structures to all

Bounty of new structures will forever change biology and medicine

[youtube.com](#)



2021's Breakthroughs in Neuroscience and Other Biology

A paradigm shift in how we think about the functions of the human brain.

[youtube.com](#)



TECHNOLOGICAL INFRASTRUCTURE



The feats of engineering that dazzled us in 2021

From fossil fuel-free steel to sustainable shrimp farming to affordable "breathing" batteries, this year's engineering endeavors are full of tools for a better world.

[popsci.com](#)



AUTONOMOUS TRANSPORTATION



How driverless cars will change our world

Self-driving vehicles are steadily becoming a reality despite the many hurdles still to be overcome – and they could change our world in some unexpected ways.

[bbc.com](#)



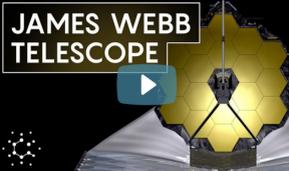
AEROSPACE



The most high-flying aerospace innovations of 2021

The Best of What's New: A drone that can refuel F/A-18 fighter jets, an AI system for planning more efficient flights, and much more.

[popsci.com](#)



How NASA's Webb Telescope Will Transform Our Place in the Universe

NASA's James Webb Space Telescope is the most powerful telescope in the history of humanity, and one of the most ambitious engineering projects.

[youtube.com](#)



IN THE LAB



2021's Biggest Breakthroughs in Math and Computer Science

It was a big year. Researchers found a way to idealize deep neural networks using kernel machines—an important step toward opening these black boxes.

[youtube.com](#)



Can quantum mechanics explain consciousness?

Quantum mechanics + consciousness: There is nothing better than mixing two great mysteries to produce an even bigger one.

[bigthink.com](#)



AFTER HOURS



Inventing the Atari 2600

The Atari Video Computer System gave game programmers room to be creative

[spectrum.ieee.org](#)



What Is the Most Important Scientific Development of the Last 50 Years?

"That would surely be the discovery and proof of global warming."

[gizmodo.com](#)



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