



Relentless Adaptation:

**4 Technologies
Changing
the Future
(& Lessons to
Survive)**

**@ambermac
#locongress**

Smartphone Revolution



IoT Revolution

**AVERAGE HOUSEHOLD WITH TWO TEENAGE CHILDREN
WILL OWN ONLY 50 INTERNET CONNECTED DEVICES
BY 2022**

ORGANIZATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

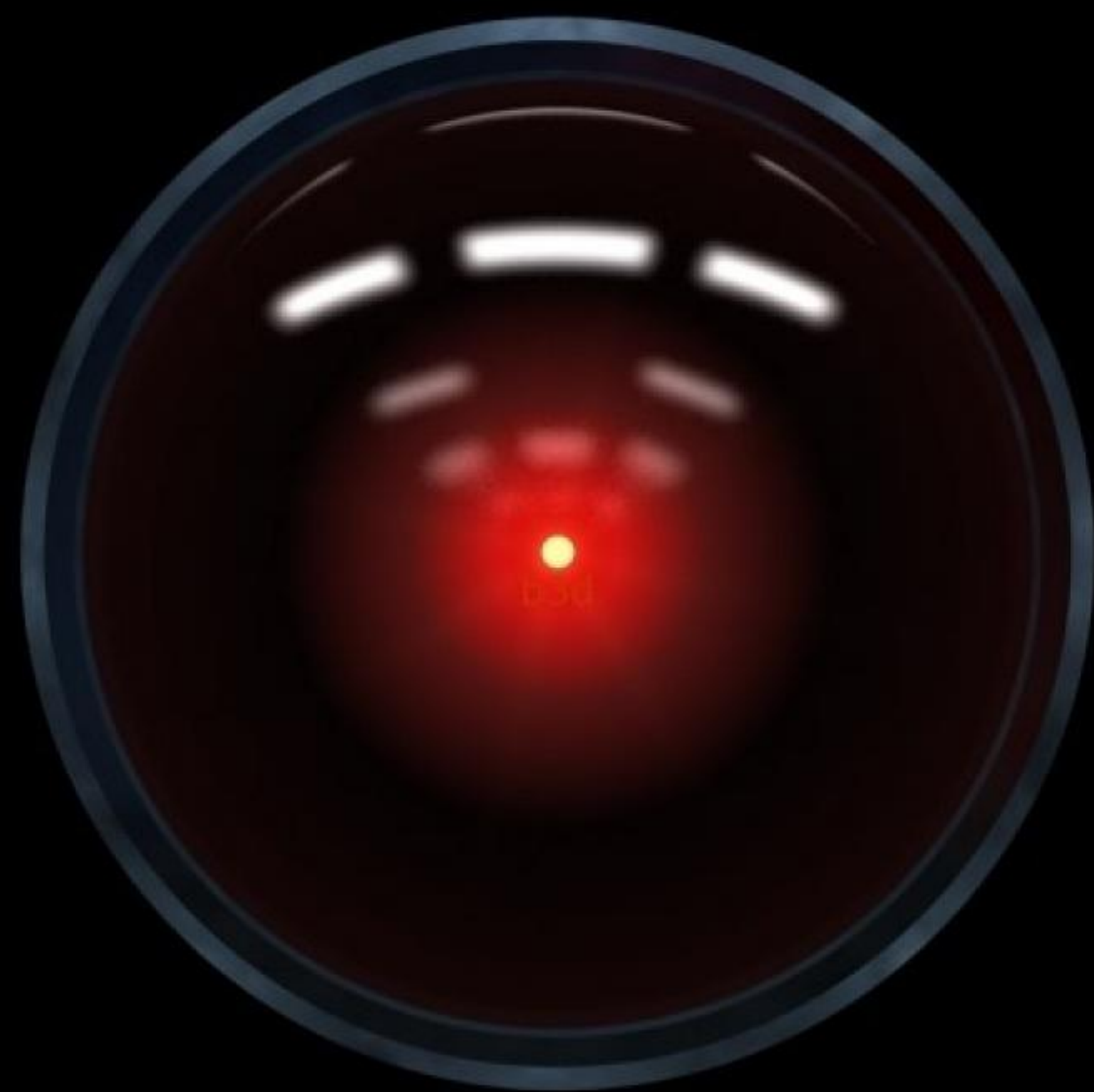
AI Revolution

**\$36.8
BILLION
IN 2025**

FROM \$643.7 MILLION IN 2016

“No matter what
you call it -
machine learning,
deep learning, or
cognitive
computing - AI is
the biggest
opportunity in
business since
mobile.”
- Fast Company







Elon Musk on Superintelligent Robots: We'll Be Lucky If They Enslave Us as Pets



LAST WEEK TONIGHT

WITH JOHN OLIVER



1857 - World's first passenger elevator

1900 - The automatic elevator was invented, but it took more than 50 years before the public became comfortable and automatic elevators became ubiquitous.

- NPR



Change has never happened this fast before, and it will never be this slow again. - Graeme Wood



4 Technologies Changing the Future (& Lessons to Survive)



I. Voice Tech: Communication

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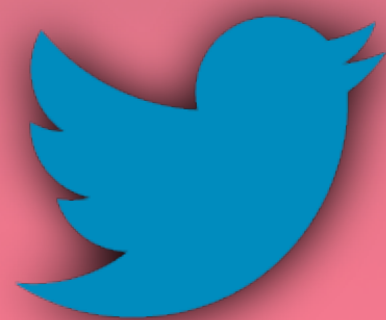
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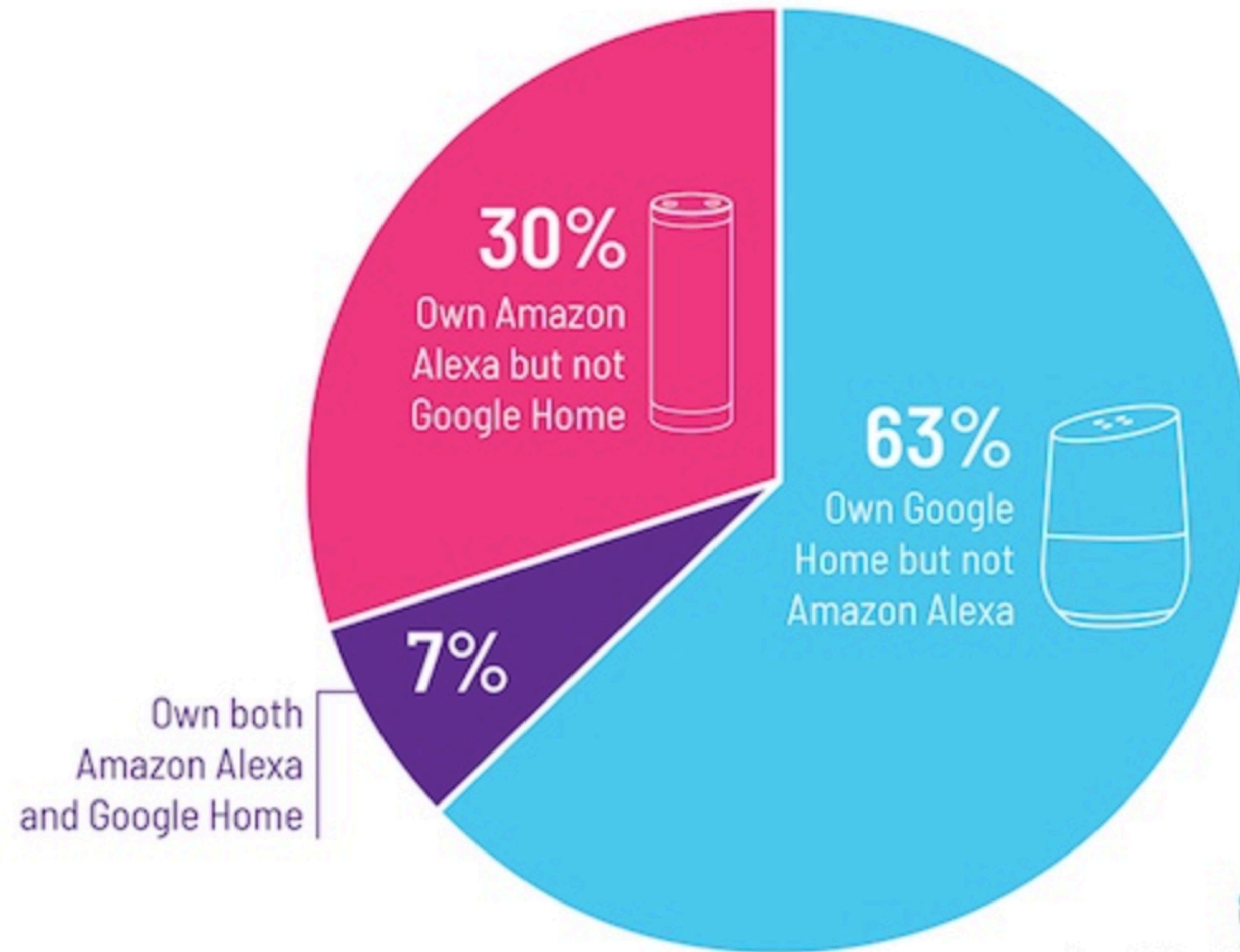
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50% of all searches will be voice searches by 2020

- COMSCORE

Smart Speaker Ownership in Canada



Source: Edison Research / Triton Digital 2018

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Las Vegas City Skills with Amazon Alexa

Las Vegas has 9 skillsets,
including information about:

Parks

Elections

Community Calendar

Status of Building Permits

“We really wanted to find new ways to reach the population, reach people who may not have a computer but use Amazon and can afford a \$50 Dot, the small Alexa device

-Michael Sherwood, Las Vegas' IT Director

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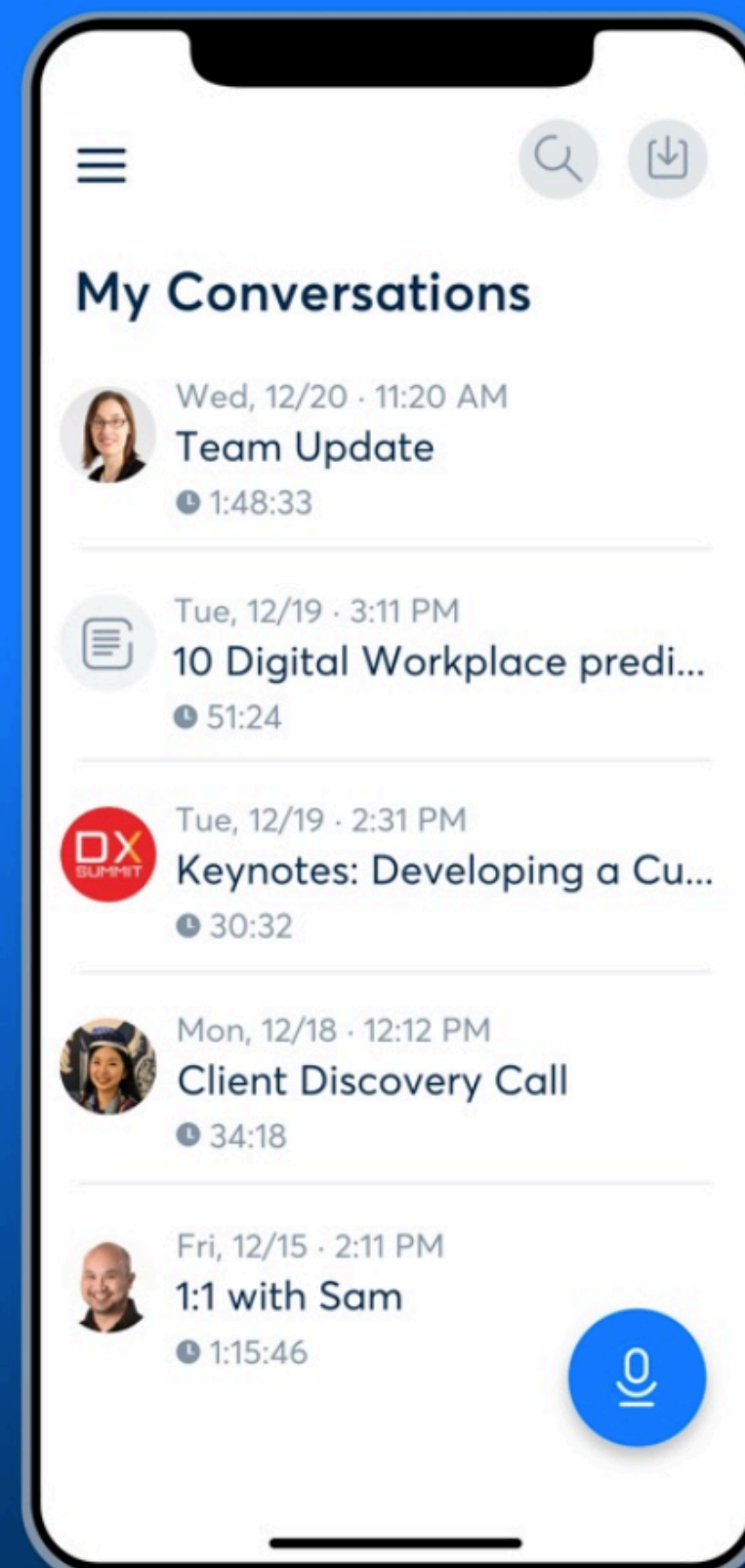
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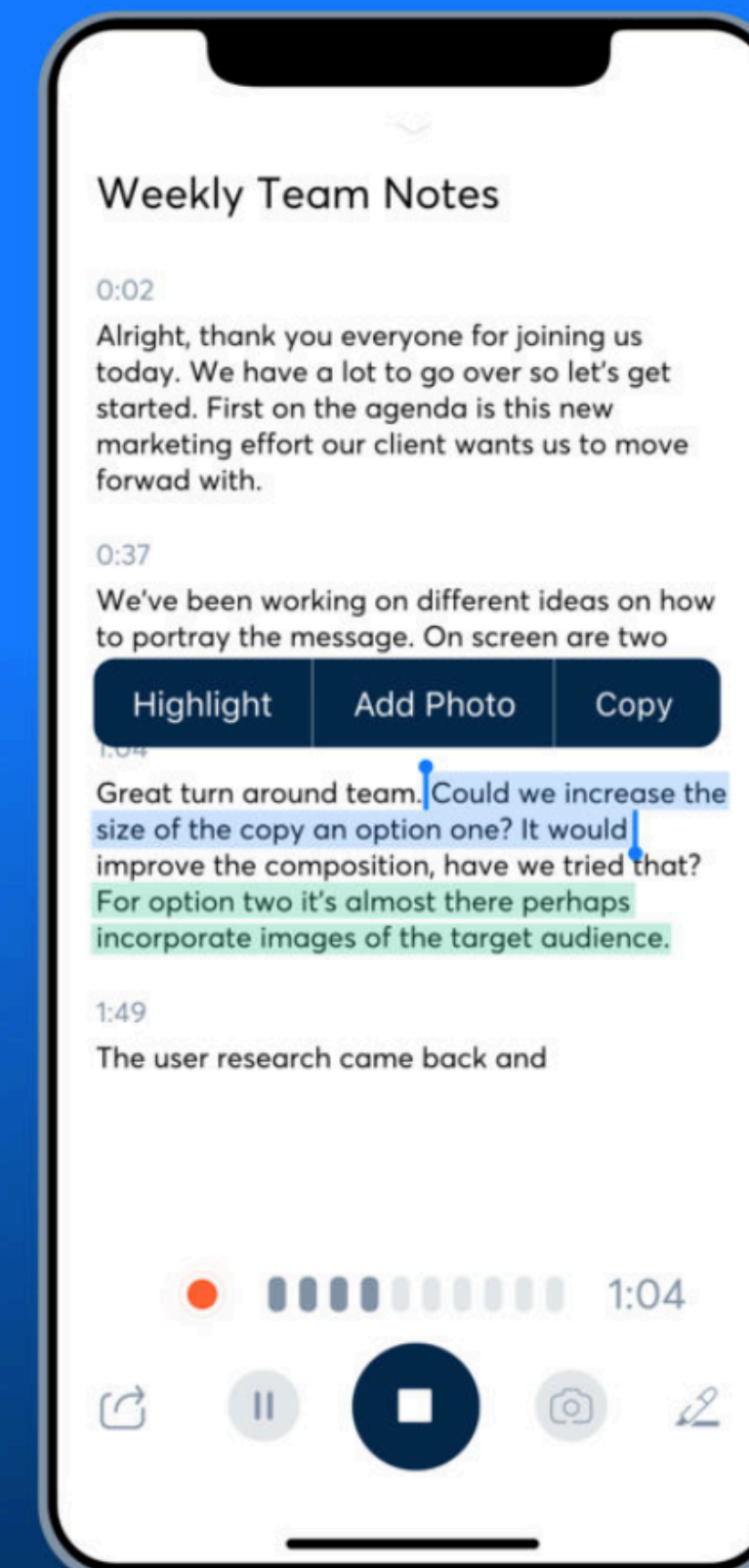
Remember, search,
and share your voice
conversations



Otter is where your
conversations live



Record and review
notes in real time



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I. Plan for voice revolution



2. Autonomous Vehicles: Transportation

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How will driverless transportation affect our future?

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Canadian Parking Association
Farming Industry (shortage of 123,000 workers by 2030)
Work & School Hours / Accessibility
Food Delivery (Ford testing on Miami streets today, ready by 2021)

Tesla's Autopilot could save millions of lives. How many people will it kill first?



**The complicated
ethics of Elon Musk's
grand experiment**

**“Don’t let the
perfect be the
enemy of the
good.” - Voltaire**

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**Volvo Cars Goes for Blockchain Tech
to Avoid Unethical Cobalt - Nov, 2019**





2. Find courage to lead

3. Synthetic Content: Information

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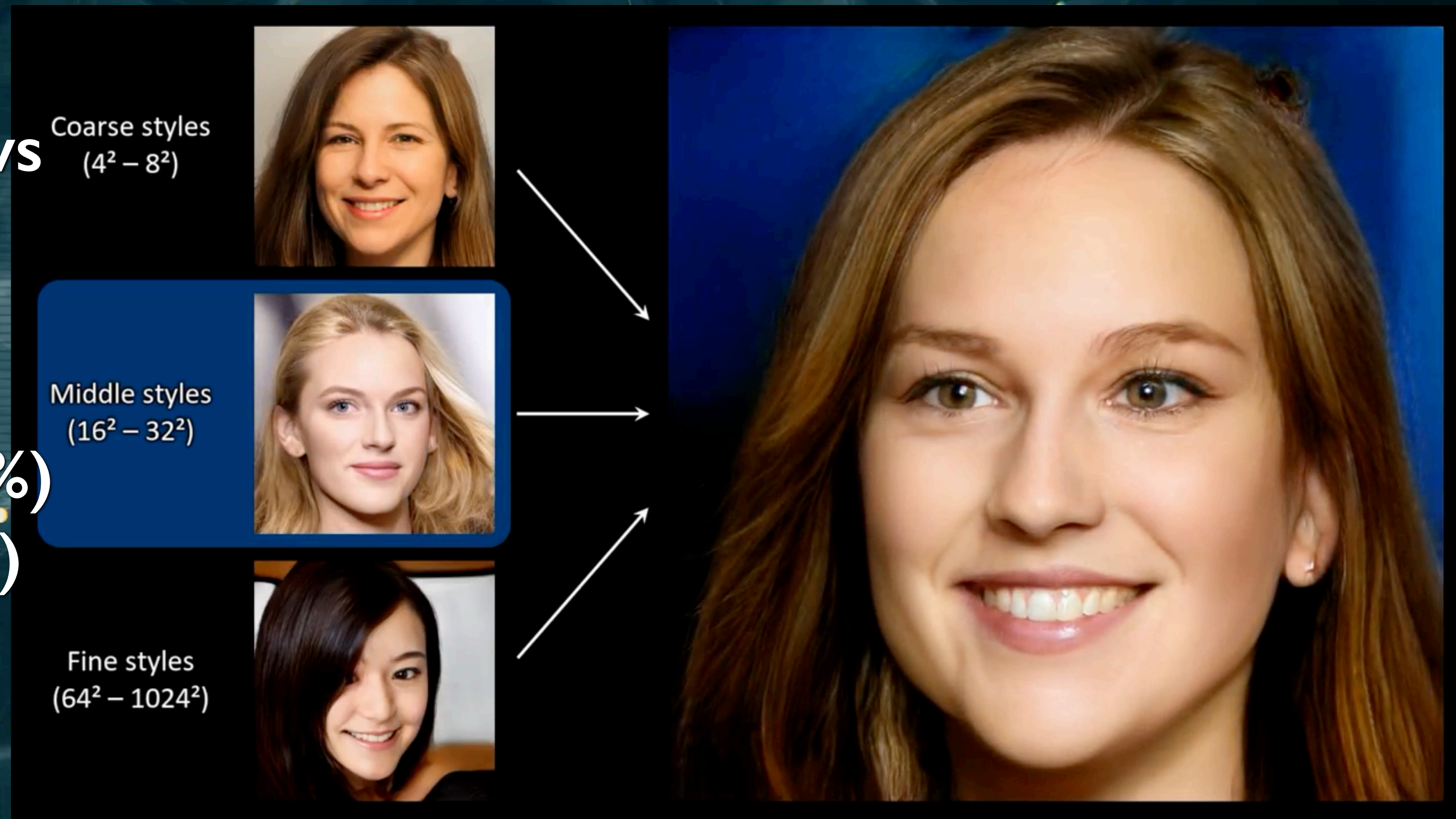
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Two primary
sources of news
for young
people ages
18-32:
Instagram (29%)
YouTube (22%)

-Jack Myers
Knowledge
2018



These faces are not real

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Old & new tech, including AI face-swapping tool FakeApp



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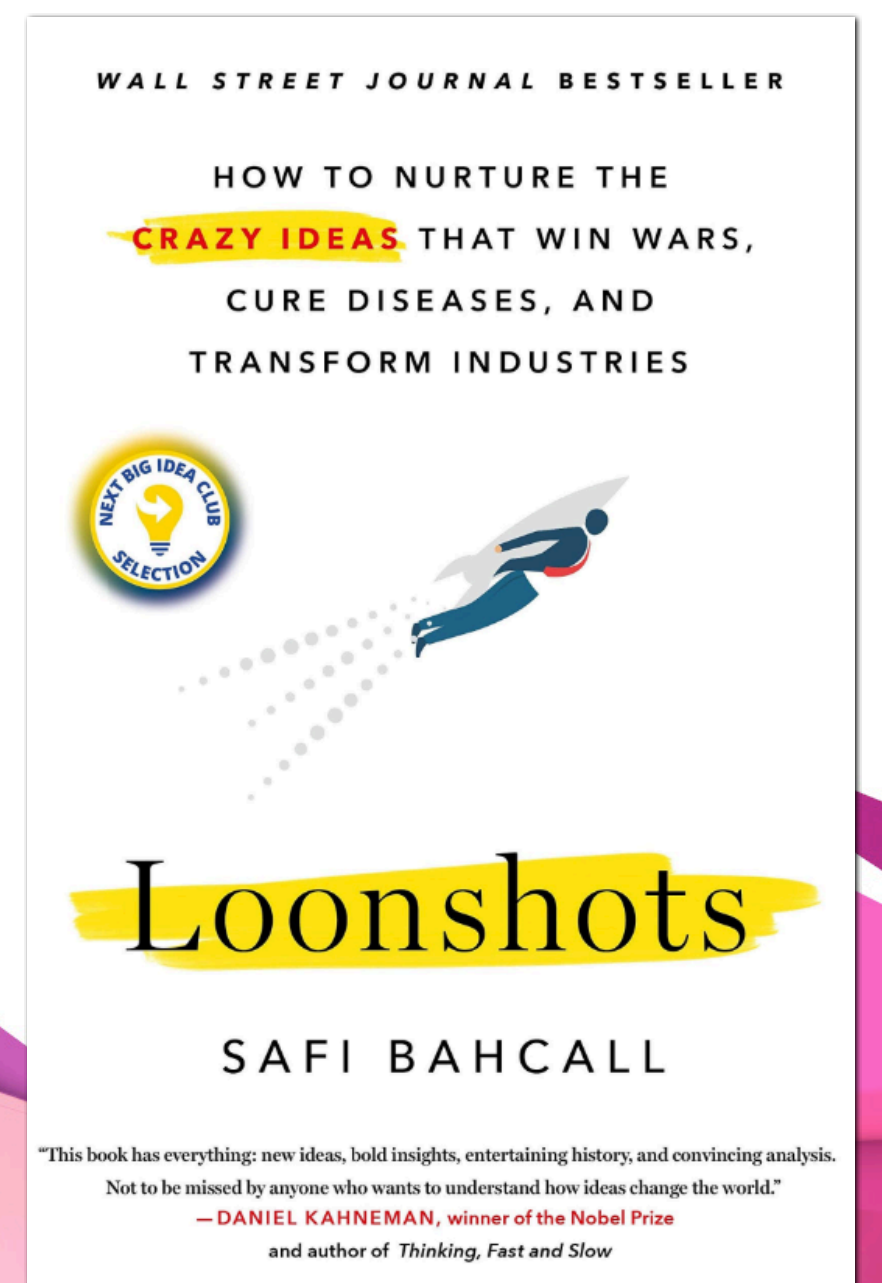
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3. Stay open to crazy ideas





4. Workplace Automation: Education

Businesses that successfully apply AI could increase profitability by an average of 38 percent by 2035
-Accenture

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Nearly 50% of
jobs are at risk
of changing in
the coming
decades.
-Bloomberg

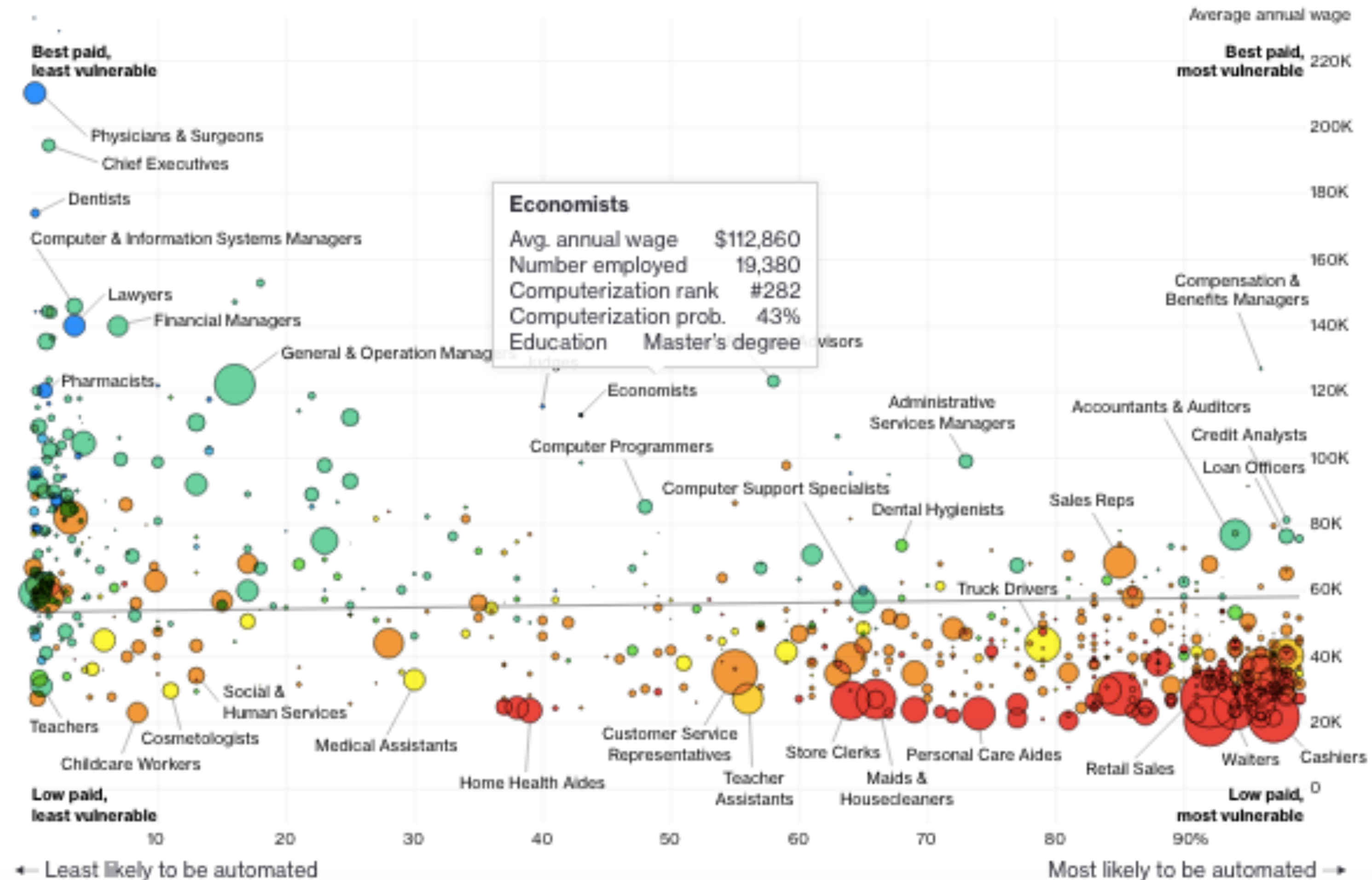
A College Degree Lowers Job Automation Risk

■ Doctoral or Professional Degree ■ Master's ■ Bachelor's ■ Associate's ■ Postsecondary Nondegree Award
■ Some College ■ High School Diploma or Equivalent ■ No Formal Education Credential

Search by occupation:

Computer Programmers

○ 100 K ○ 1M ○ 3M ○ 5M



DATA: FREY & OSBORNE, BUREAU OF LABOR STATISTICS

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2022 Skills Outlook

Growing

- 1 Analytical thinking and innovation
- 2 Active learning and learning strategies
- 3 Creativity, originality and initiative
- 4 Technology design and programming
- 5 Critical thinking and analysis
- 6 Complex problem-solving
- 7 Leadership and social influence
- 8 Emotional intelligence
- 9 Reasoning, problem-solving and ideation
- 10 Systems analysis and evaluation

Declining

- 1 Manual dexterity, endurance and precision
- 2 Memory, verbal, auditory and spatial abilities
- 3 Management of financial, material resources
- 4 Technology installation and maintenance
- 5 Reading, writing, math and active listening
- 6 Management of personnel
- 7 Quality control and safety awareness
- 8 Coordination and time management
- 9 Visual, auditory and speech abilities
- 10 Technology use, monitoring and control



COMMITTED TO
IMPROVING THE STATE
OF THE WORLD

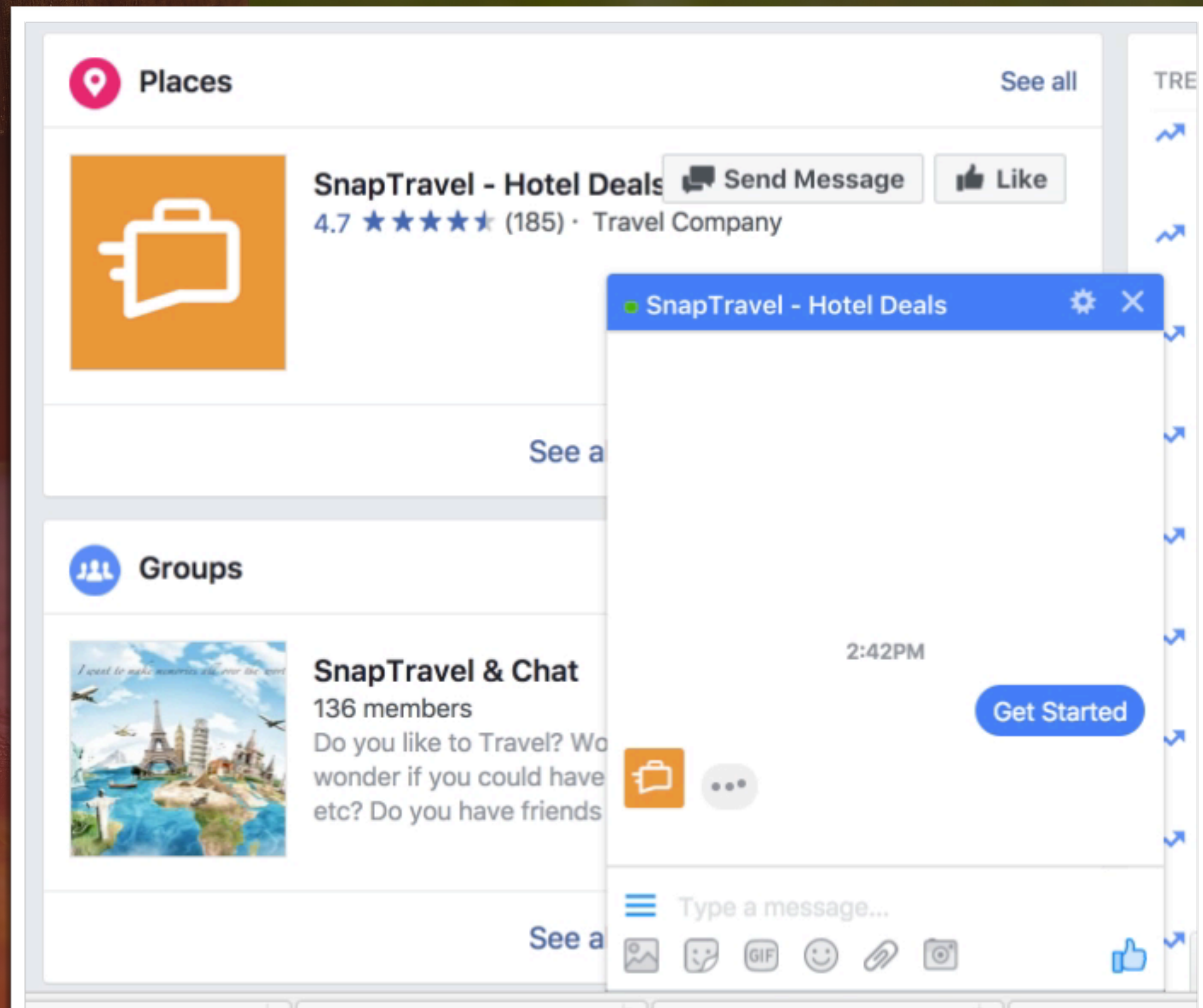
Customer Service

AI bots will power 85% of all customer service interaction by 2020.

-Forbes

Chatbots will save banks \$7.3B by 2023

-Juniper Research



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HR - HireVue

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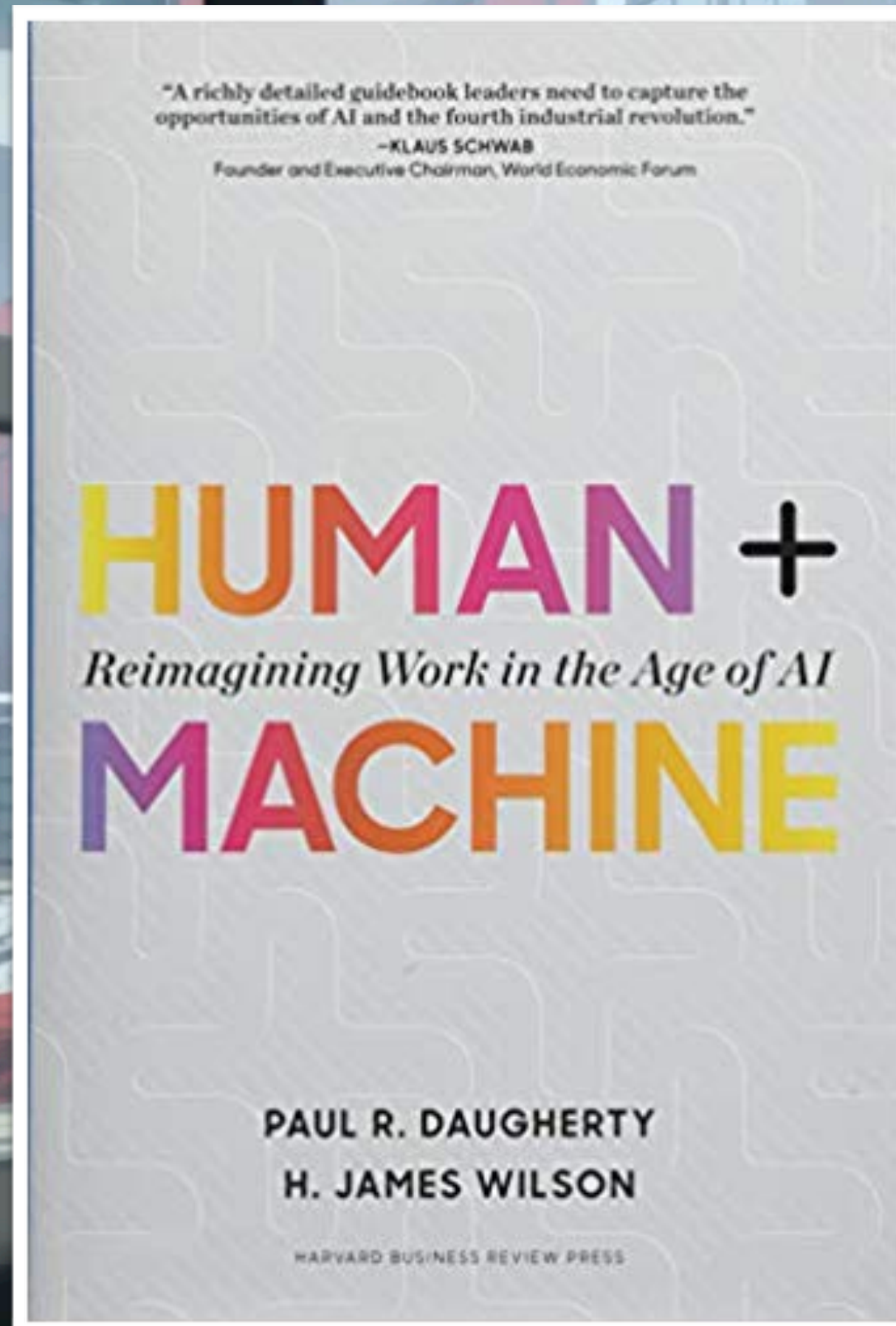
HireVue uses video
analysis to screen



Marketing Opportunities - Lumen5

The screenshot displays the Lumen5 web application interface. At the top, a navigation bar includes the LUMEN5 logo, a progress bar with steps 'Choose Article', 'Build Story', 'Add Media', and 'Publish Video', and buttons for 'SAVE' and 'CONTINUE'. Below the navigation bar, there are tabs for 'MEDIA', 'MUSIC', and 'BRANDING'. The 'MEDIA' tab is active, showing a search bar with the text 'smart phone' and a 'Filter' dropdown. Below the search bar, a grid of video thumbnails is displayed, each labeled 'VID'. To the right of the media library, the video editor is shown. It features a preview window displaying a video with text overlays. The text overlays include: 'Video marketing has been unanimously chosen as one of the rising stars in marketing corridors,', 'thanks to social integration and investments by Internet giants.', and 'It is gaining a vital place in the marketing plans of all major companies'. To the right of the preview window, there are controls for 'Preview', 'Text', 'Text position', 'Highlight', and 'Black bar on'. The video length is indicated as 'Length 00:25'.





Books:
Human +
Machine

Podcasts:
The AI Effect

You Retweeted



Vala Afshar ✓
@ValaAfshar

The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn.

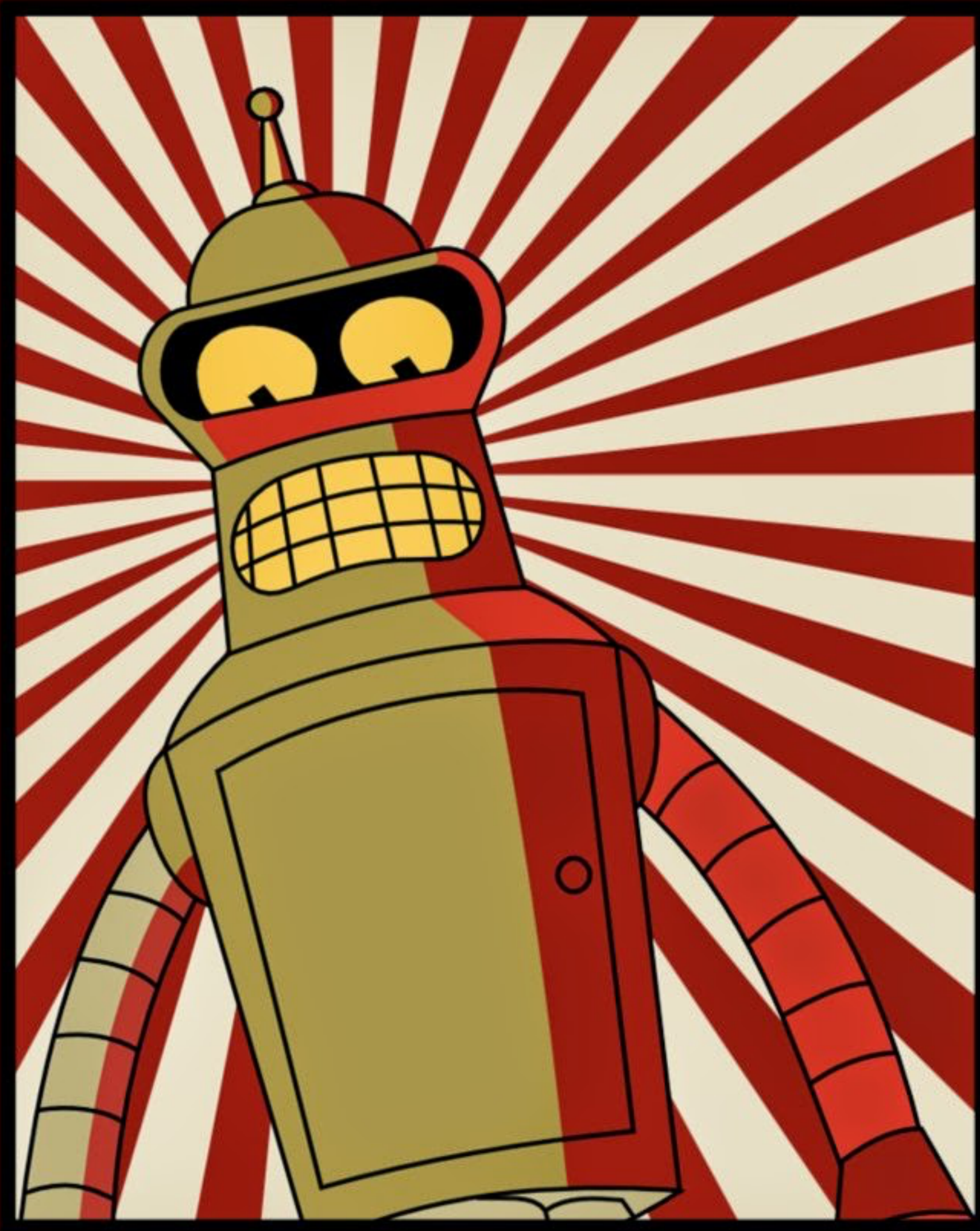
—Alvin Toffler [#DF19](#) 🌩





4. Rethink the future of learning

ALL HAIL



OUR NEW ROBOT-OVERLORDS

ARE YOU READY?



Plan for voice revolution

Find courage to lead

Stay open to crazy ideas

Rethink the future of learning

The Future

"If everything seems under control, you're just not going fast enough." - Mario Andretti, world champion racing driver



St. Peter's Square



The background is a complex, abstract composition of numerous overlapping, semi-transparent triangles and thin lines. The colors are vibrant and varied, including shades of red, orange, yellow, green, teal, and blue, set against a dark, almost black, background. The overall effect is a dynamic, low-poly aesthetic that resembles a digital or network structure.

THANK YOU!