



<https://gemini.google/students/>



HELLO!



AI in marketing?

Shivang Bhargava • 2nd
 AI Engineer @Yatra | Building and Teaching AI Agents | n8n | LangGrap...
 21h • 🌐

10 GitHub repos that can teach you everything about AI Agents (SAVE IT NOW)

1. Hands-On Large Language Models ...more

README Contributing License

GenAI Agent Implementations

Below is a comprehensive overview of our GenAI agent implementations, organized by category and functionality. Each implementation is designed to showcase different aspects of AI agent development, from conversational agents to complex multi-agent systems.

#	Category	Agent Name	Framework	Key Features
1	Beginner	Simple Conversational Agent	LangChain/PydanticAI	Context-aware history management
2	Beginner	Simple Question Answering	LangChain	Query understanding
3	Beginner	Simple Data Analysis	LangChain/PydanticAI	Dataset integration, language processing
4	Framework	Introduction to LangGraph	LangGraph	Modular AI management
5	Framework	Model Context Protocol (MCP)	MCP	AI-external integration
6	Educational	ATLAS: Academic Task System	LangGraph	Multi-agent planning, reasoning
7	Educational	Scientific Paper Agent	LangGraph	Literature analysis
8	Educational	Chiron - Feynman Learning	LangGraph	Adaptive learning system
9	Business	Customer Support Agent	LangGraph	Query categorization, sentiment analysis
10	Business	Essay Grading Agent	LangGraph	Automated grading criteria
11	Business	Travel Planning Agent	LangGraph	Personalized recommendations

Runway
 165,514 followers
 3d • 🌐

With Gen-4.5 you can explore worlds that represent very specific points of view and aesthetic characteristics. The model allows you to precisely generate the look, feel and atmosphere of the world you want to create and the stories you want to tell.



Sander R. te Raaij commented on this

Marieke Snoep • 2nd
 Chief Consumer Market KPN - Lid Raad van B...
 20h • 🌐

🌟 Onze eerste AI-kerstcommercial is live! 🌟

Dit jaar verrassen we Nederland met een magische kerstcommercial.

Show translation





Paul Duxbury • 1st

AI & Marketing Capability Consultant and ...

[View my services](#)

5d •

Well, we did it! The Marketing Shed podcast is out. As [Warren](#) says in his post, we've known each other for a couple of years and hit it off... more



Warren Fiveash • 2nd

Head of Marketing @ Teenage Cancer Trust | ...

5d •

A couple of years ago, I got chatting to very nice chap called [Paul Duxbury](#) at the [Festival of Marketing](#). Today, we're launching a... more



Arnoud Versluis, MMS and 8 ... 1 comment





AI in education?

Fontys University of Applied Sciences

40.000 students

4500 staff

24 institutes going 18



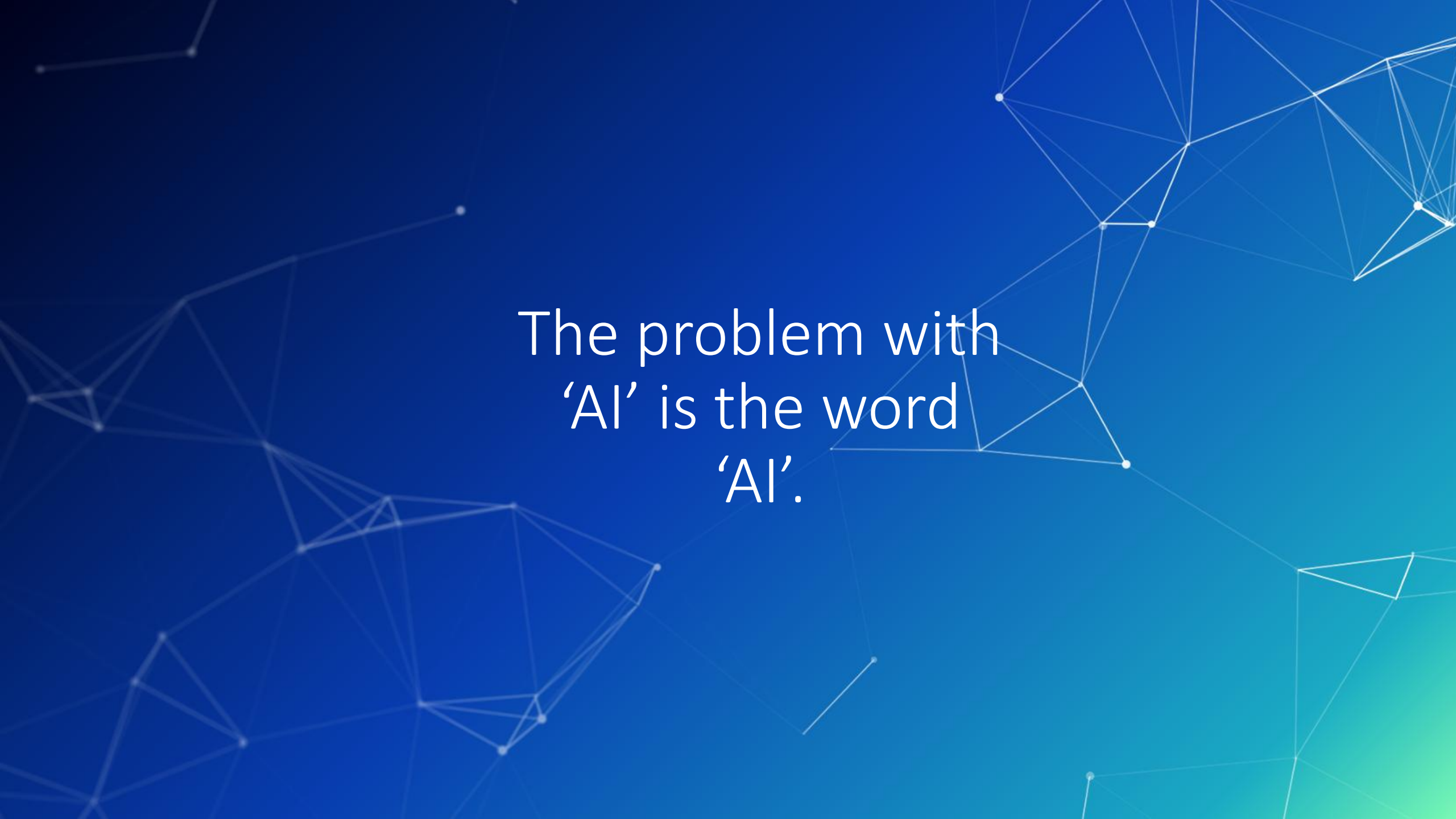
> FOR SOCIETY

The background is a dark blue gradient that transitions to a lighter teal at the bottom right. It features a complex network of white lines and dots, resembling a molecular structure or a data network. The lines connect various points, creating a web-like pattern that is more dense in some areas and sparser in others. The overall aesthetic is clean, modern, and technological.

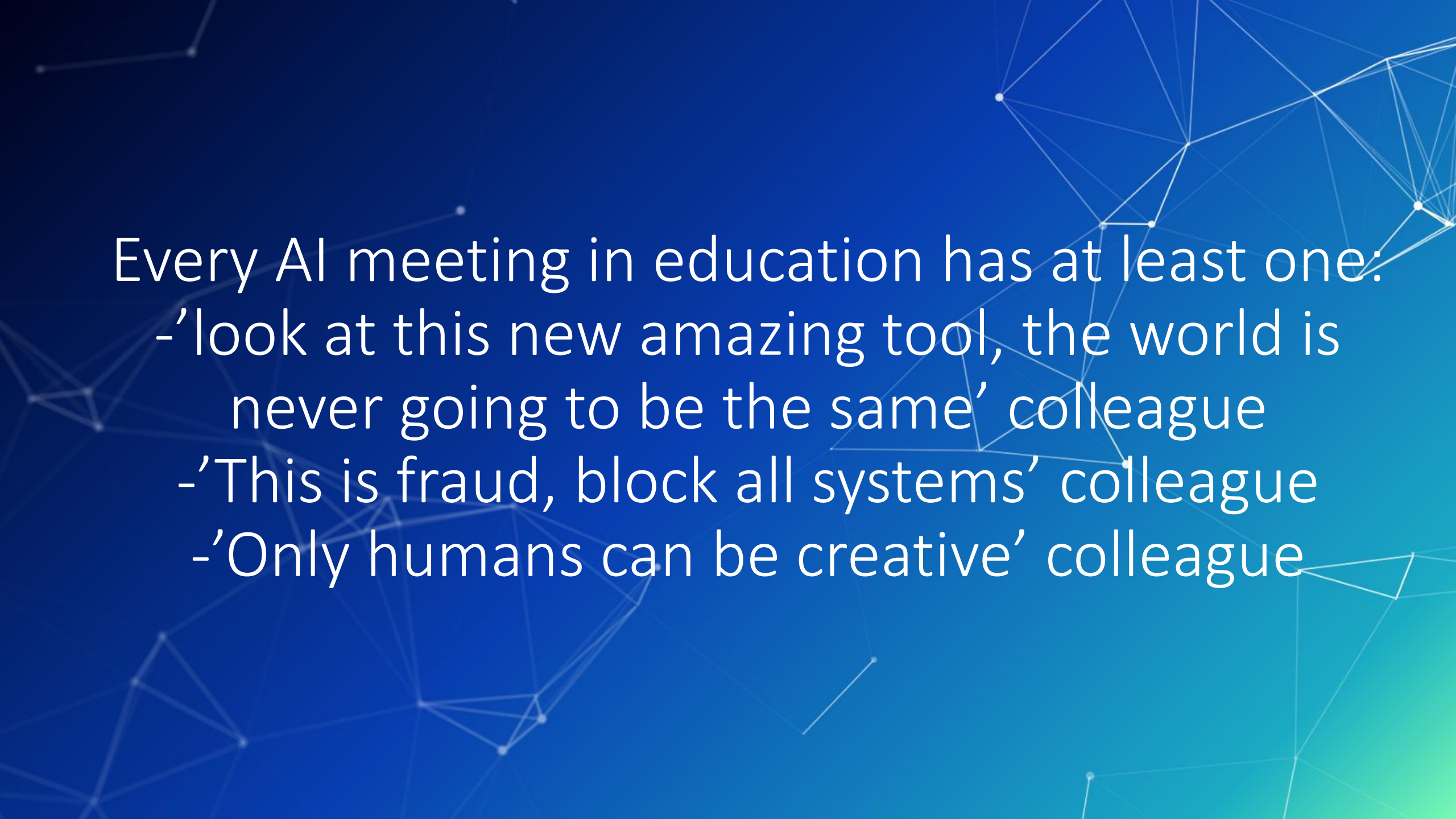
Innovation in
education?

The background is a blue gradient, transitioning from a darker blue on the left to a lighter, teal-like blue on the right. Overlaid on this background is a complex network of thin white lines connecting small white dots, creating a web-like or molecular structure. The text "A few insights" is centered in a white, sans-serif font.

A few insights

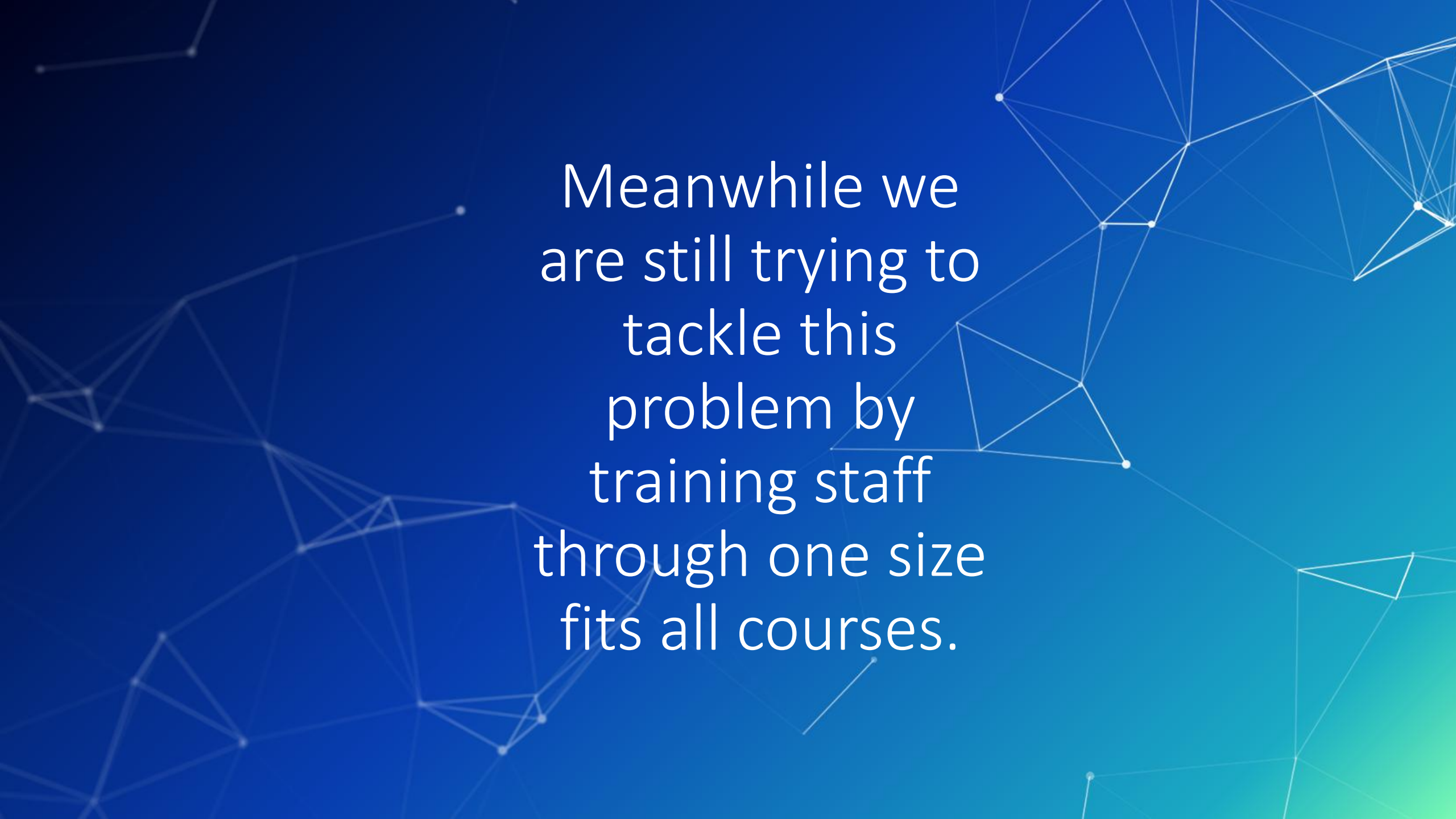


The problem with
'AI' is the word
'AI'.



Every AI meeting in education has at least one:

- 'look at this new amazing tool, the world is never going to be the same' colleague
- 'This is fraud, block all systems' colleague
- 'Only humans can be creative' colleague



Meanwhile we
are still trying to
tackle this
problem by
training staff
through one size
fits all courses.





How the hell do
we create an
innovation
agenda that
makes sense and
actually gives
direction?




I WILL NOT





The Next Web / Internet



“The more you know
about the past, the
better prepared you
are for the future.”

-Theodore Roosevelt



San Francisco from Rincon Hill, 1851; c1910

Martin Behrman

gelatin silver print; 5.5 x 36 in.

PAN US GEOG - California, no. 235 (E size) P&P



View from the top of Lookout Mountain, Tenn., February, 1864 George Barnard

albumen silver print; 10.5 x 42 in. PH - Barnard, G., no. 86 (F size) P&P



26

AMMO

79%

HEALTH

2 3 4
5 6 7

ARMS



104%

ARMOR

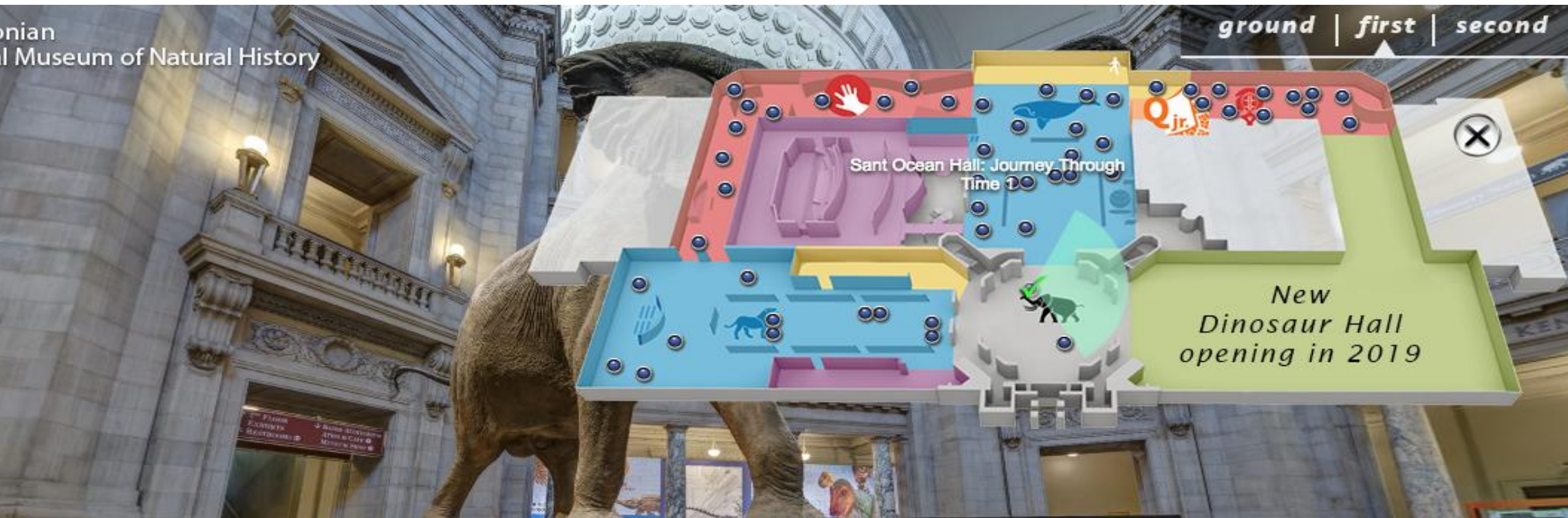
BULLSEYE	34	/	200
SHELL	26	/	50
ROCKET	0	/	50
CELL	0	/	300





Smithsonian
National Museum of Natural History

ground | first | second



Rotunda: North

Elephants in Danger: Your Choices Make a Diff



Online Web Virtual Tours





http://www. |



Connecting



PC to Mobile





1983 - Motorola DynaTAC 8000X

The world's first Mobile Phone

GET SIMON. THE WORLD'S FIRST PERSONAL CELLULAR COMMUNICATOR.



PHONE
Introducing Simon. Yes, it's a light-weight personal cellular phone. But it does so much more.

ADDRESS BOOK
One less book to lug around. Simon keeps names, addresses and phone numbers at your fingertips.

APPOINTMENT CALENDAR
Simon keeps your hectic schedule manageable with a convenient electronic calendar.

SKETCH PAD
Let your creativity loose. Or just organize your thoughts with Simon's writing/drawing option.

E-MAIL
Simon keeps you in touch with the information superhighway with an efficient wireless E-mail feature.

FAX
Simon is the first cellular phone with a built-in fax. Now send or receive a fax... wherever you are.

PAGER
Simon also has a built-in cellular numeric pager. If they need you, they can reach you.

CALCULATOR
It all adds up with Simon's easy-to-use calculator feature. Why carry extra equipment around?

\$599
**PRICED TO FIT
YOUR POCKET.**



The first credited smartphone
Image.
Source: IBM

1992: The First Smartphone

IBM Simon

Features -
touch screen, calendar,
calculator, world clock, on-
screen keyboard, and an
address book and even
predictive text,



Palm - the discontinued line of [personal digital assistants](#) (PDAs) and mobile phones developed by California-based [Palm, Inc](#) (originally called Palm Computing, Inc.)

Palm devices are often remembered as "the first wildly popular handheld computers," responsible for ushering in the [smartphone](#) era.

The first Palm device, the [PalmPilot 1000](#), was released in 1996



The App Store opened on **July 10, 2008**, with an initial 500 applications available. The number of apps peaked at around 2.2 million in 2017, but declined slightly over the next few years as Apple began a process to remove old or 32-bit apps.



Wikipedia

<https://en.wikipedia.org> › wiki › App_Store_(Apple) ⋮

[App Store \(Apple\) - Wikipedia](#)

Google Play was launched on **March 6, 2012**, bringing together Android Market, Google Music, Google Movies, and the Google eBookstore under one brand, marking a shift in Google's digital distribution strategy. Following their rebranding, Google has expanded the geographical support for each of the services.



Wikipedia

<https://en.wikipedia.org> › wiki › Google_Play ⋮

[Google Play - Wikipedia](#)





WIRED

<https://www.wired.com> > Gear > apple

Apple Registers Trademark for 'There's an App for That'

11 Oct 2010 — The trademark covers usage of the phrase in relation to retail store services featuring computer software and services.







Facebook Acquisition of Oculus VR

On July 21, 2014, Facebook officially acquired Oculus VR, the virtual reality

DECEMBER 3, 2014

Apple is working on VR gaming & user interfaces for future products, Oculus and Leap experts wanted

Jordan Kahn - Dec. 3rd 2014 10:52 am PT [@JordanKahn](#)

Apple eyes virtual reality goggle game with patent filing

Proposed headset sounds a lot like something Facebook just bought..

Apple is launching an iOS 'ARKit' for augmented reality apps

by [Adi Robertson](#) | [@thedextriarchy](#) | Jun 5, 2017, 2:40pm EDT



Augmented Reality

Google's new dev kit is bringing augmented reality to Android

NEWS

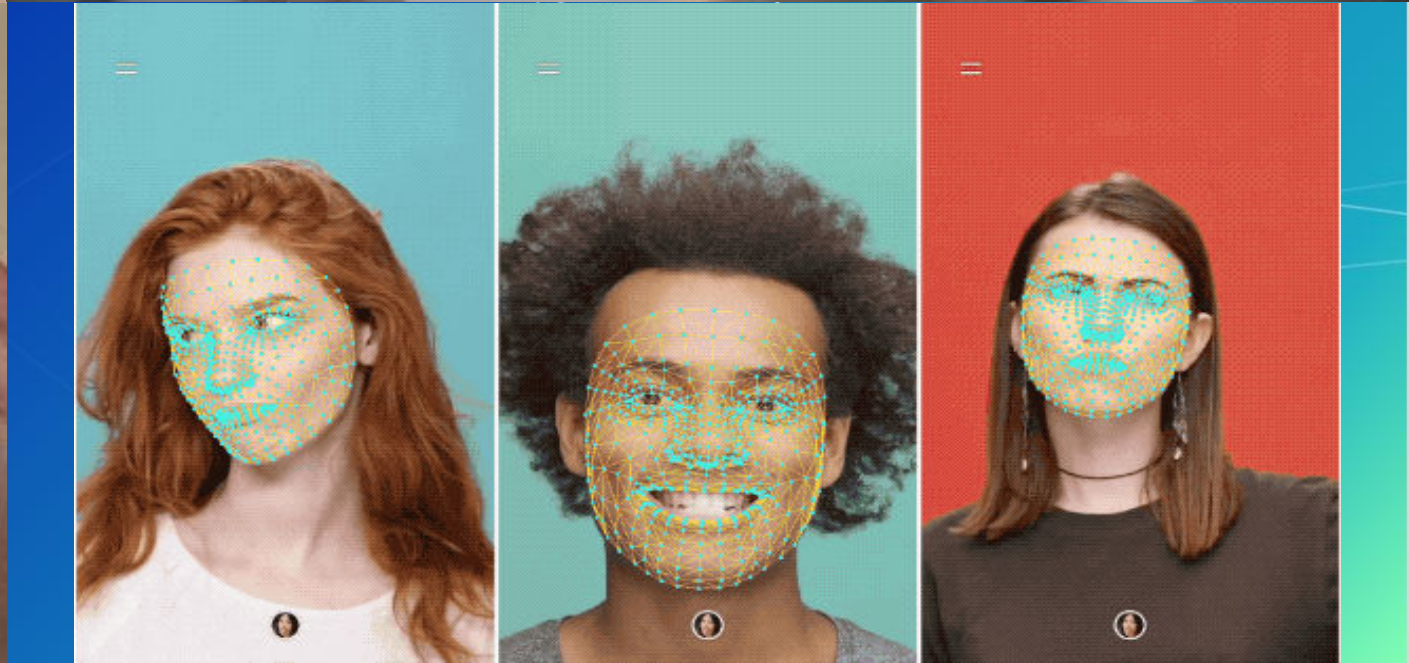
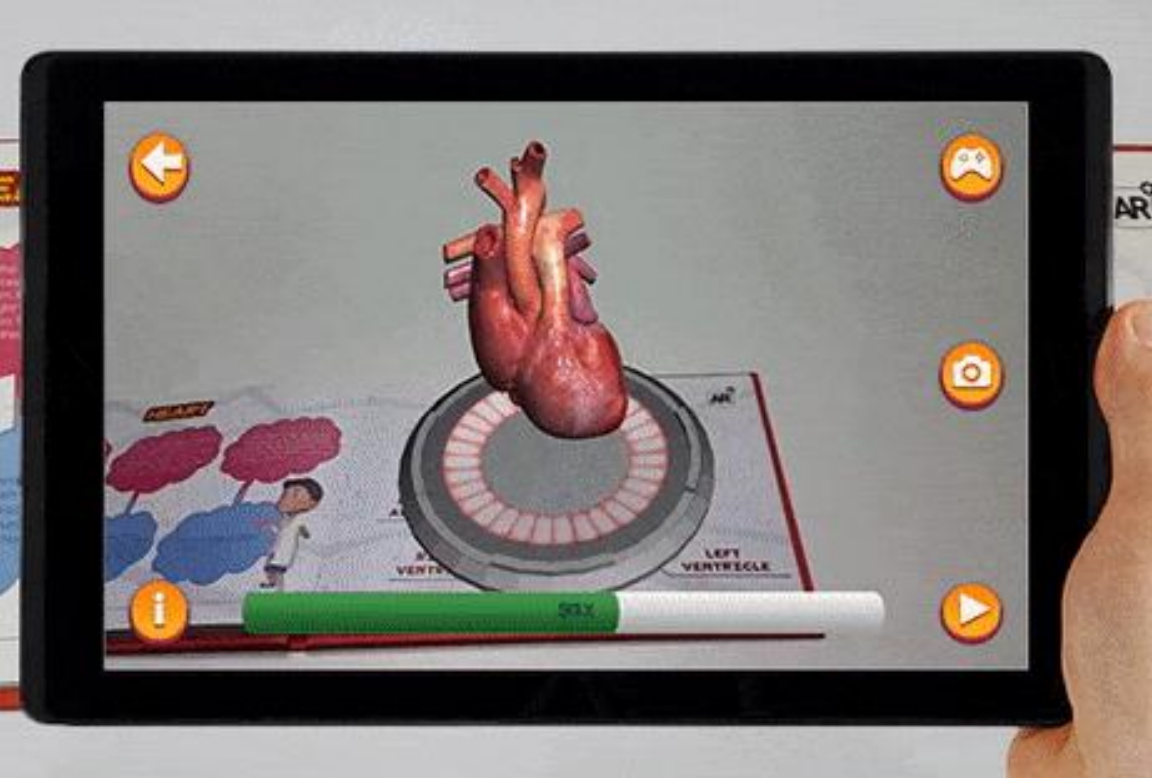
Facebook Introduces AR Platform at F8

BY TOMMY PALLADINO © 04/19/2017 5:27 AM

Connecting



Mobile to XR (?)



[#3D TECHNOLOGY](#) | [#GOOGLE](#) | [#AUGMENTED REALITY](#)

Keep your kids entertained while stuck at home with Google's augmented reality animals

MARCH 31, 2020

By [GERMAINE WONG](#) | [GEEK CULTURE](#)



Case Study: Google

Forbes

EDITORS' PICK | 13,758 views | May 9, 2020, 11:00am EDT

Google 3D Animals: Exactly Which Animals Are Featured And How To Master Them

Immersive technologies have the potential to solve everyday challenges

Scroll to explore





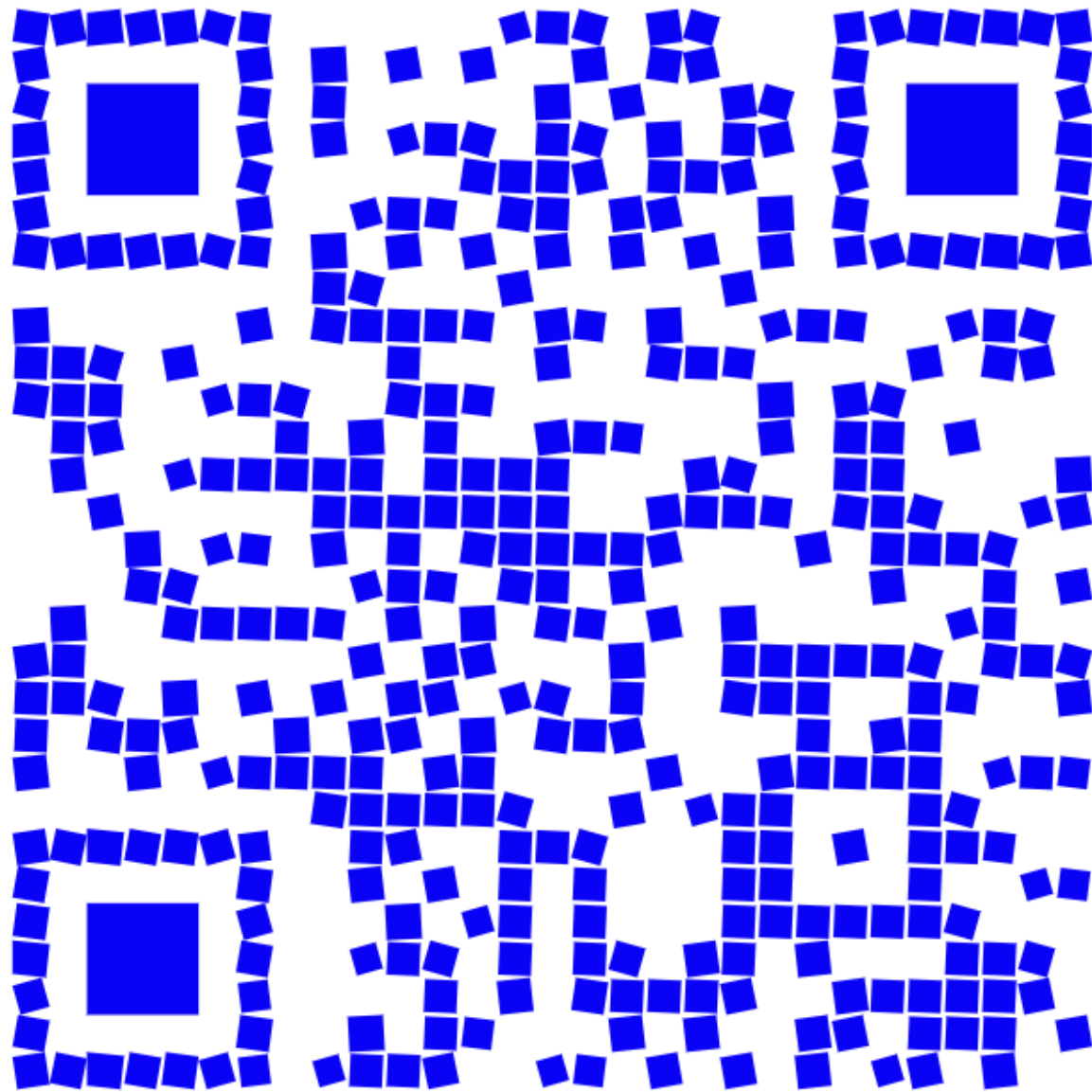
Augmented Reality

[Overview](#)[ARKit](#)[RealityKit](#)[RoomPlan](#)[Creation Tools](#)[Quick Look](#)[Resources](#)

Dive into the world of augmented reality.



Build unparalleled augmented reality experiences for hundreds of millions of users on iOS and iPadOS, the biggest AR platforms in the world. With powerful frameworks like ARKit and RealityKit, and creative tools like Reality Composer and Reality Converter, it's never been easier to bring your ideas to life in AR.



Hands – On!

From Mobile AR to Wearable AR



Generate







Viture Pro XR Glasses
Best Video Smart Glasses

[Jump To Details](#) ↓ **\$459.00** at Viture



Rokid Max
Widest Field of View

[Jump To Details](#) ↓ **\$399.00** at Amazon



Ray-Ban Meta Smart Glasses
Best Social Media Camera Glasses

[Jump To Details](#) ↓ **\$279.99** at Amazon
~~\$329.00~~ **Save \$49.01**



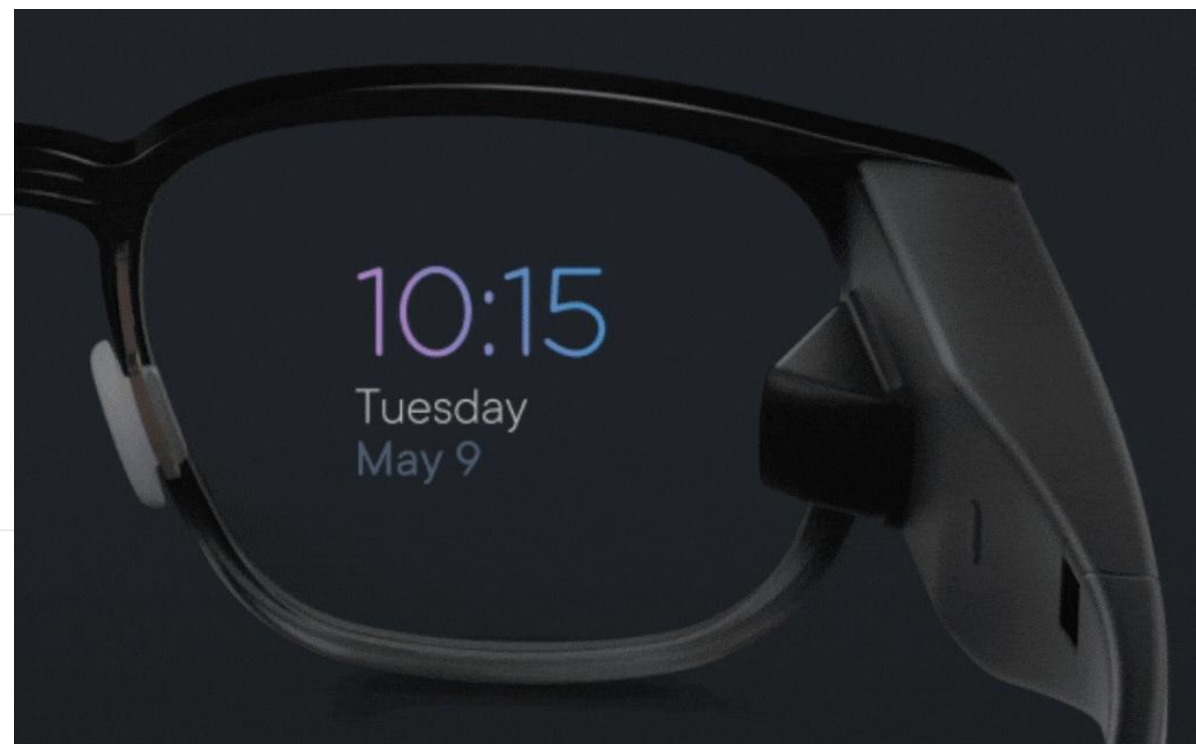
XReal Air 2
Best Stealthy AR Glasses

[Jump To Details](#) ↓ **\$399.00** at Amazon



Amazon Echo Frames (3rd Gen)
Best Audio Glasses for Alexa Users

[Jump To Details](#) ↓ **\$249.99** at Amazon
~~\$269.99~~ **Save \$20.00**



Meta Orion hands-on: if this is a prototype the finished product is going to be incredible

The live demo raised eyebrows for its build, image quality, eye and gesture tracking, and smart Meta AI integration.

1 month ago



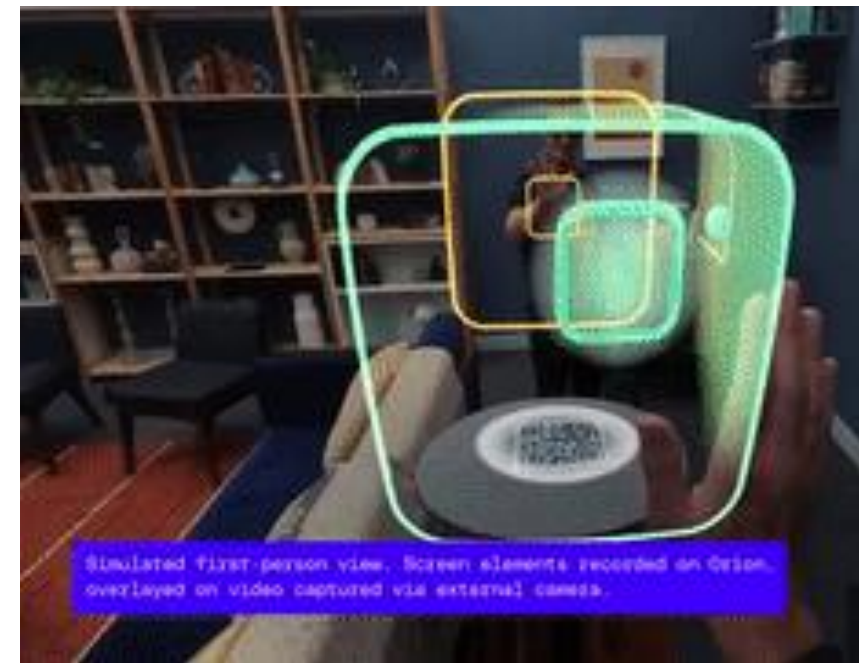
Meta Orion hands-on: if this is a prototype the finished product is going to be incredible

Features

By Lance Ulanoff published 11 October 2024

Living up to the the AR hype







Viture Pro XR Glasses
Best Video Smart Glasses

[Jump To Details](#) ↓ **\$459.00** at Viture



Rokid Max
Widest Field of View

[Jump To Details](#) ↓ **\$399.00** at Amazon



Ray-Ban Meta Smart Glasses
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XReal Air 2
Best Stealthy AR Glasses

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Amazon Echo Frames (3rd Gen)
Best Audio Glasses for Alexa Users

[Jump To Details](#) ↓ **\$249.99** at Amazon
~~\$269.99~~ **Save \$20.00**



*Not to be confused with
'Smart Glasses'*

REVIEWS

The Ray-Ban Meta smart glasses actually make the future look cool

While Meta hasn't reinvented the category, it's nailed the execution. But culturally, is the timing right for smart glasses?



Ray-Ban

<https://www.ray-ban.com>

Meta smart glasses | Ray-Ban® USA

Discover **Ray-Ban® Meta**, a new collection of smart glasses. Explore all the features, including camera, audio, and performance.

[Discover Ray-Ban](#) · [Ray-Ban® Official site ASEAN](#) · [META SKYLER Sunglasses in...](#)

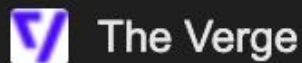


Meta

<https://about.fb.com>

[Introducing the New Ray-Ban | Meta Smart Glasses](#)

27 Sept 2023 — **Ray-Ban Meta** smart glasses let you snap a photo or video clip from your unique point of view — allowing you to not only relive the moment, but ...



College students used Meta's smart glasses to dox people in real time

Two Harvard students have created a demo of how the Ray-Ban Meta smart glasses, LLMs, and public databases can be used to instantly doxx...

2 Oct 2024



How 2 Students Used The Meta Ray-Bans To Access Personal Information

An investigation by two Harvard students went viral Friday as they demonstrated how they used Meta's Ray-Ban smart glasses to access the personal information...

4 Oct 2024





 Sign In



Meta confirms it may train its AI on any image you ask Ray-Ban Meta AI to analyze

Maxwell Zeff — 1:58 PM PDT · October 2, 2024



MAR 25, 2014 @ 05:43 PM

77,392 VIEWS

The Little Black Book of Billionaire Secrets

Facebook Buys Oculus, Virtual Reality Gaming Startup, For \$2 Billion



VIRTUAL REALITY

The Weirdest Thing at Google I/O Was This Cardboard Virtual Reality Box

Jared Newman

Jun 26, 2014



MashableAsia ▾

VIDEO

ENTERTAINMENT

CULTURE

TECH

SCIENCE

BUSINESS

SOCIAL GOOD

MORE ▾

Google Cardboard Was the Ultimate WTF Moment of Google I/O

Google's Cardboard turns your Android device into a VR headset

103

COMMENTS

by [Josh Lowensohn](#) · [@Josh](#) · Jun 25, 2014, 2:55p

f SHARE

🐦 TWEET

in LINKEDIN

📌 PIN



The First Wave (1980's – 90's)



NASA 1989



VPL 1990's



Virtuality 1990's

VR Second Wave (2010 -)

- **Palmer Luckey**

- HMD hacker
- Mixed Reality Lab (MxR) intern



- **Oculus Rift (2011 -)**

- 2012 - \$2.4 million kickstarter
- 2014 - \$2B acquisition FaceBook
- \$350 USD, 110° FOV





 **oculus**



 **VIVE**







 **Pico**



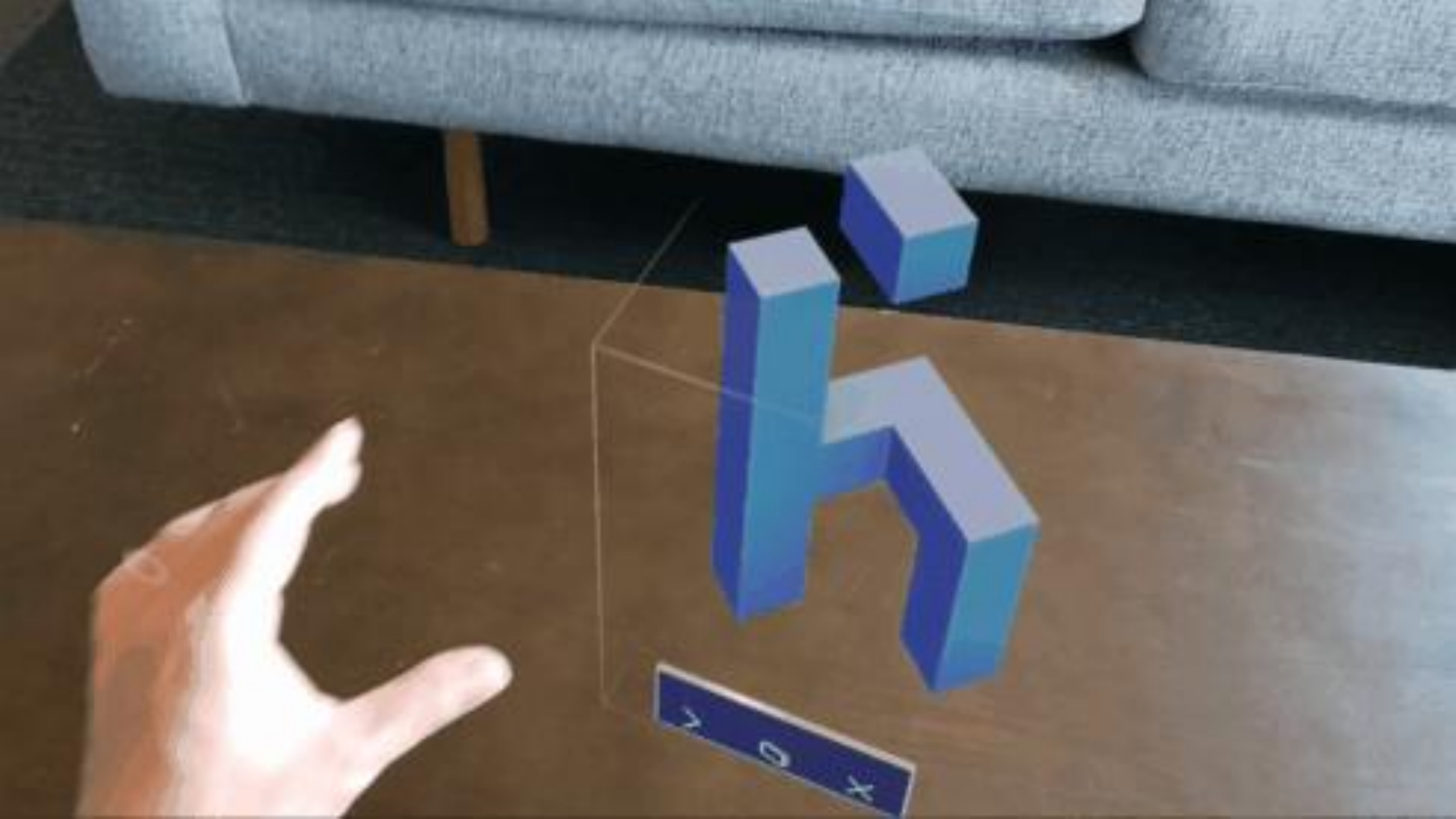






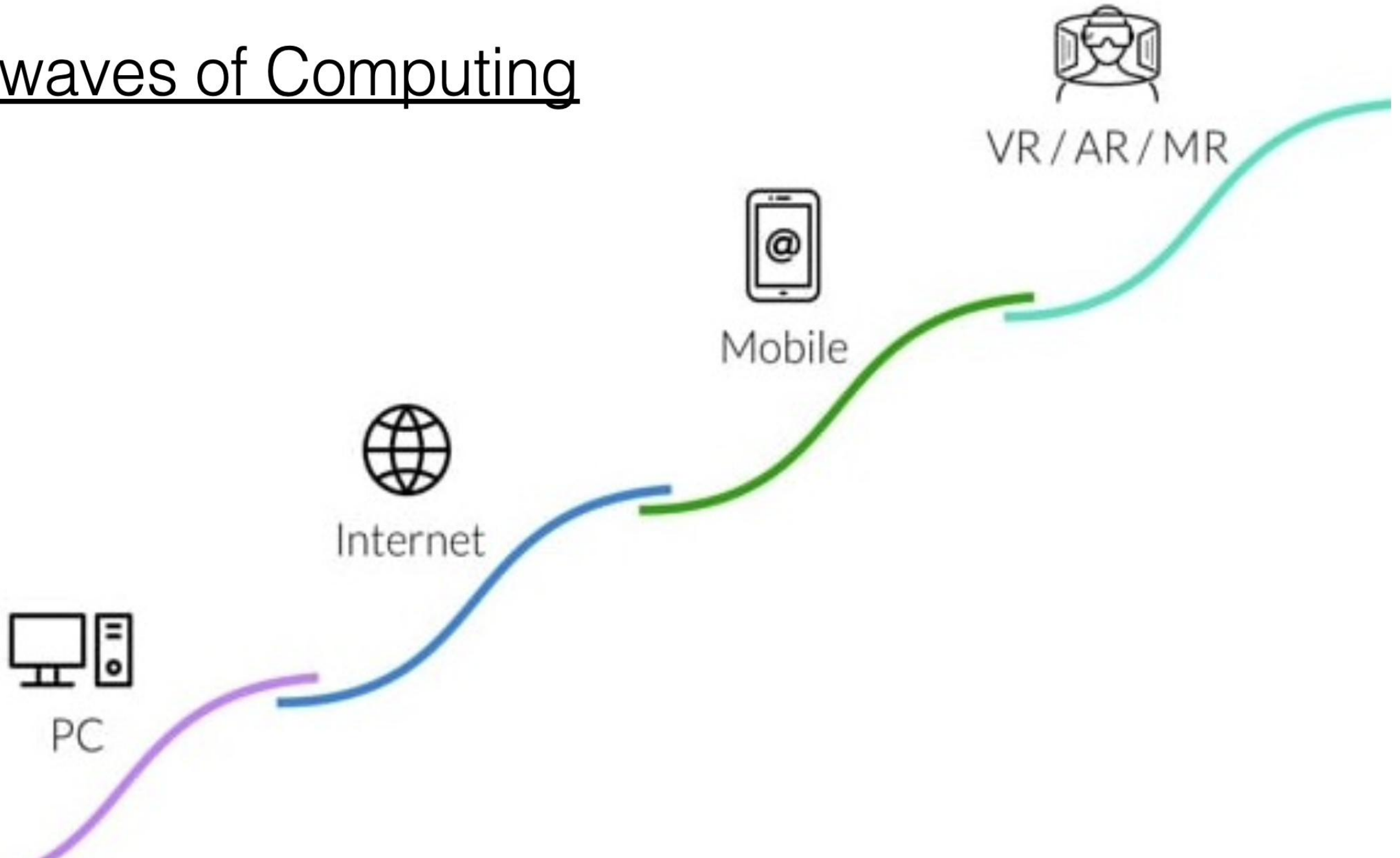
Give it a try!







4 waves of Computing





The World Economic Forum

Have we passed the peak of the smartphone era?

The smartphone boom has died down a bit, as market saturation and a lack of real innovation have led to declining sales for the past few years.

18 Aug 2021



✦ AI Overview

Yes, the smartphone era has likely passed its peak: [🔗](#)

Declining shipments

In 2016, smartphone shipments reached a peak of 1.47 billion units, but in 2022 they dropped to 1.17 billion, a 20% decline. [🔗](#)

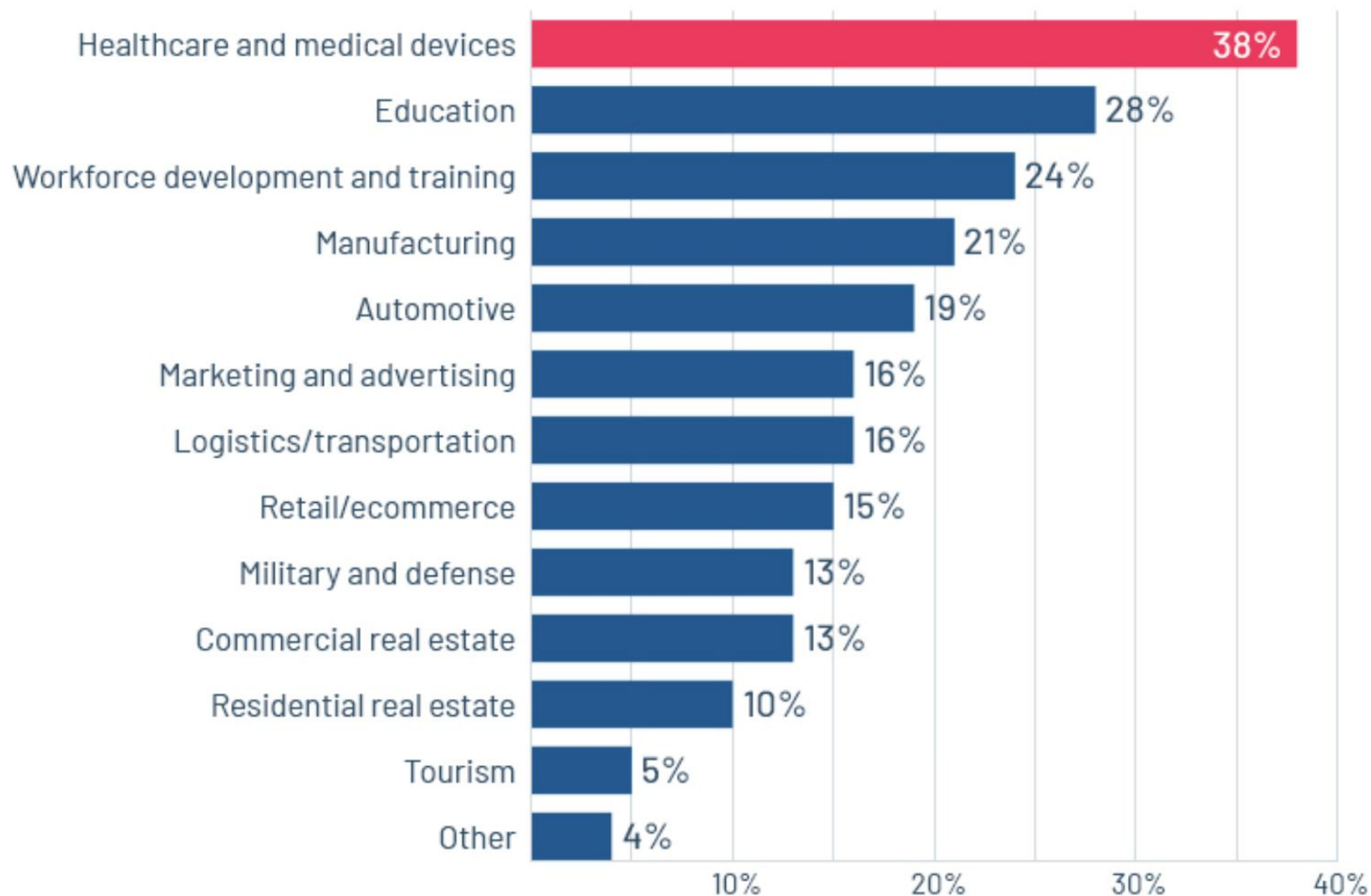
Market saturation

The smartphone market has become saturated, and a lack of innovation has led to declining sales. [🔗](#)

Maturing market

The smartphone market is maturing, with average selling prices and market value remaining higher than before the pandemic. [🔗](#)

Industries Expected to Face the Most Disruption by Immersive Technologies Besides Gaming and Entertainment



Apple is almost ready to sell the Vision Pro outside the US



The Vision Pro could be available in some international regions shortly after Apple's WWDC event next month. Photo by Amelia Holowaty Krales / The Verge

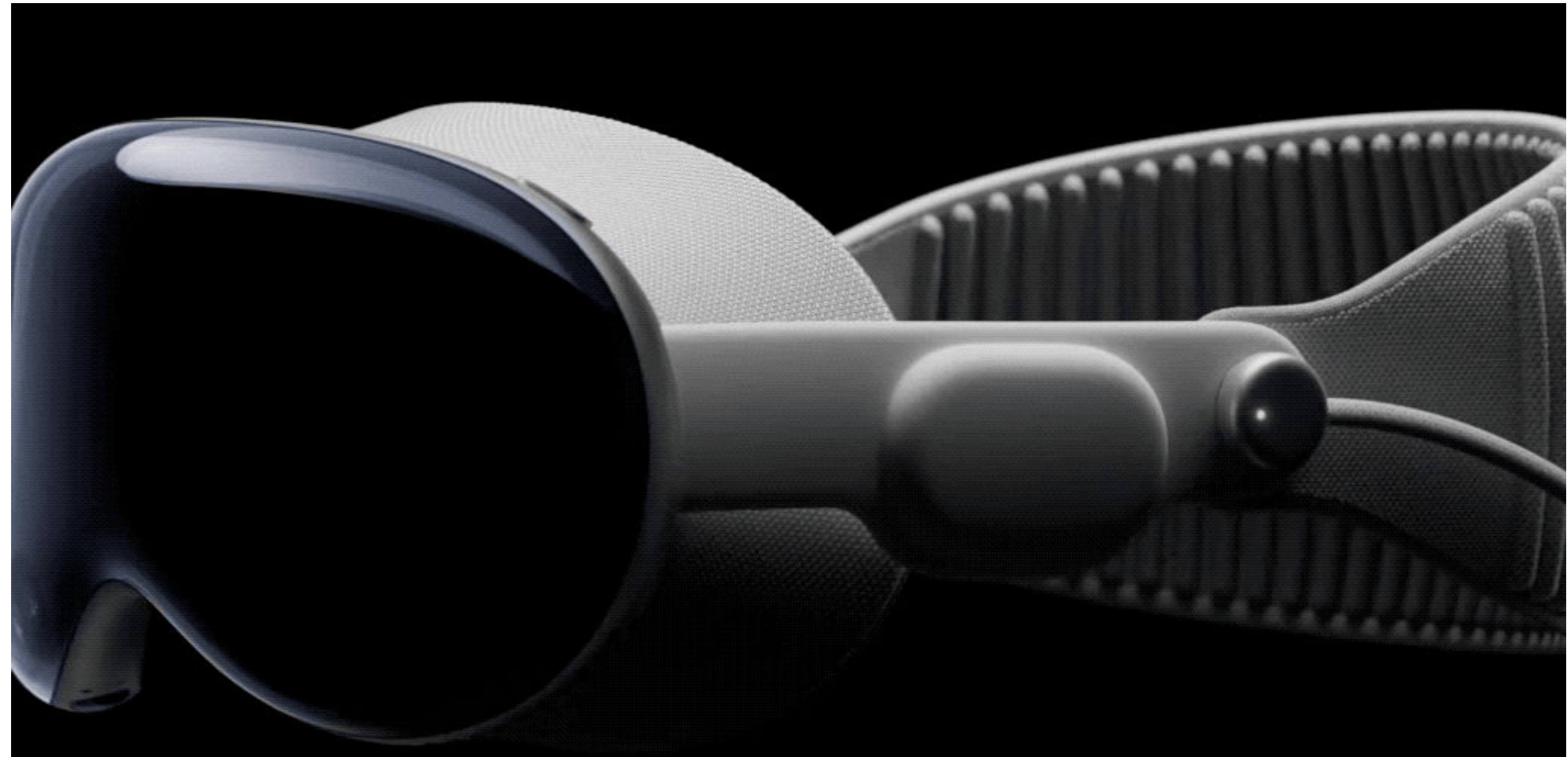
/ The company is reportedly training staffers from countries like China, Japan, and Germany on how to demo the device to customers.

By [Jess Weatherbed](#), a news writer focused on creative industries, computing, and internet culture. Jess started her career at TechRadar, covering news and hardware reviews.

May 14, 2024, 1:45 AM GMT+8

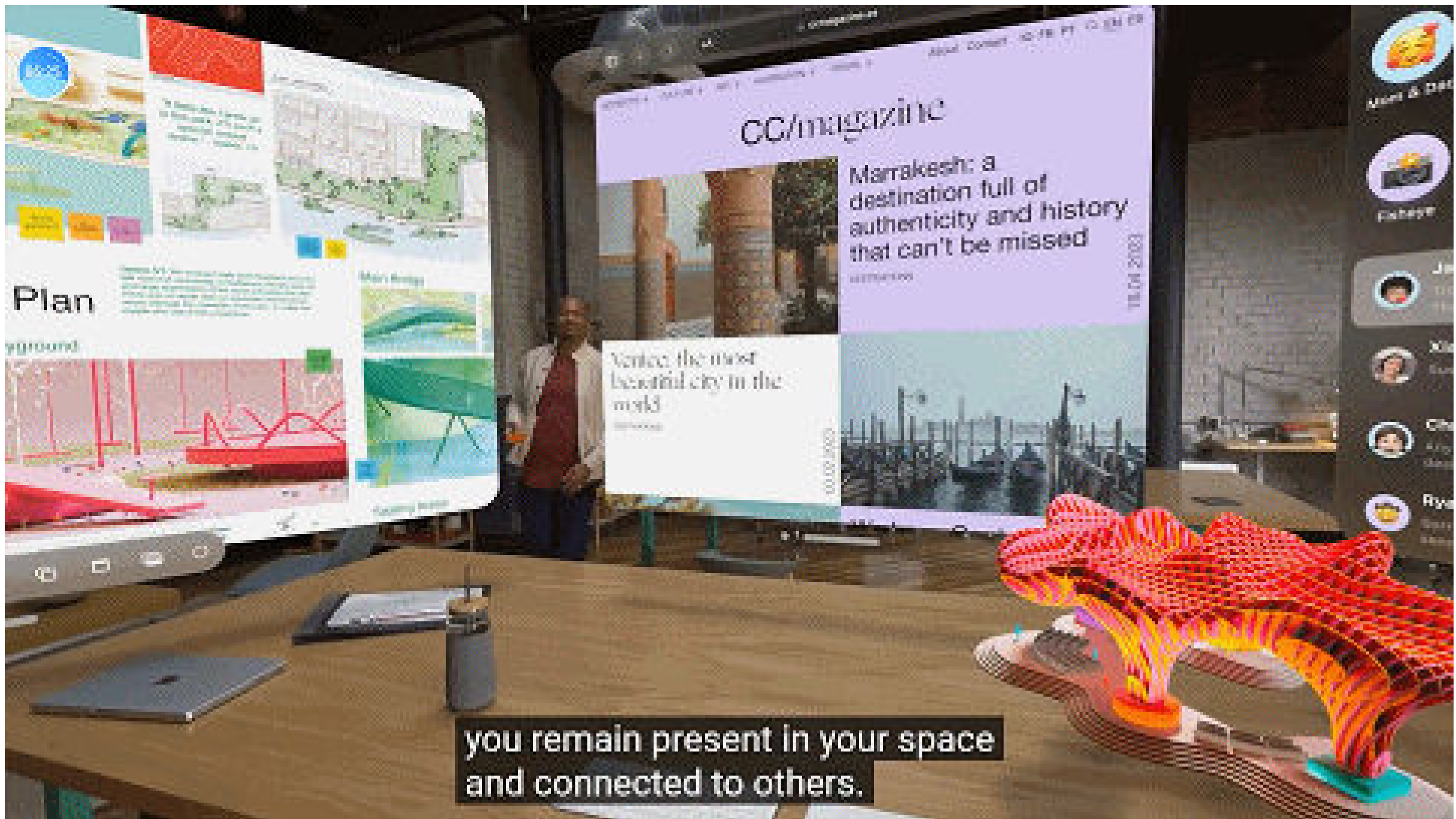


[7 Comments \(7 New\)](#)



Apple released the Vision Pro to redefine computing with spatial computing, which blends digital content with the physical world. Apple's goal was to create a new computing platform that would transform the way people work, connect, and enjoy entertainment.





you remain present in your space and connected to others.

Step into the shoes of your favorite character, game after game

Buy Quest 3S



Explore Quest

[+ APPLE](#) [+ NEWS](#) [+ TECH](#)

Apple's Vision Pro headset will turn you into a digital avatar when FaceTiming



Image: Apple

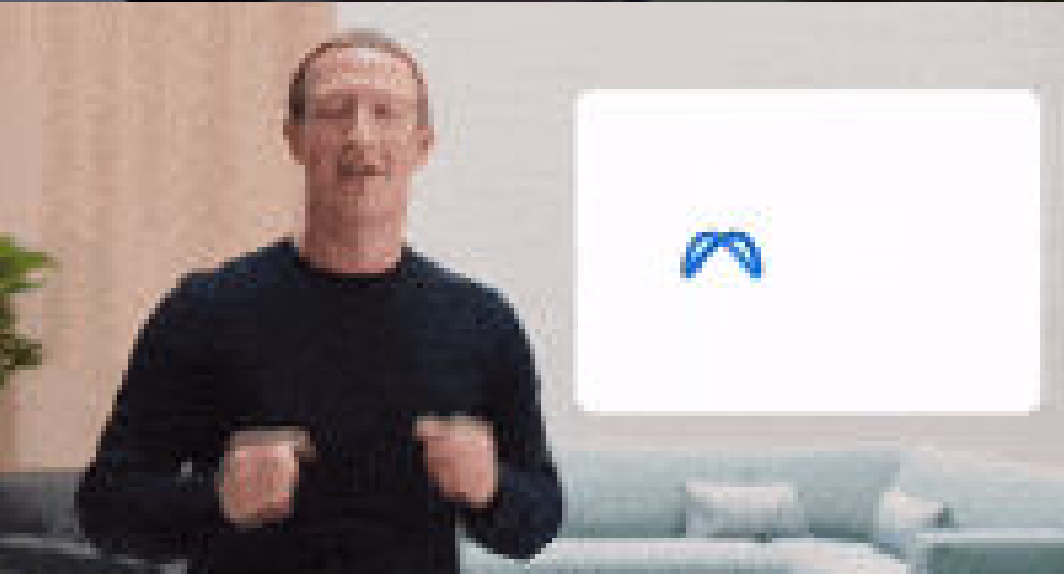
/ The Vision Pro headset will use a 'neural network' to scan your face and create a hyperrealistic avatar.

by [+ Emma Roth](#)

Jun 6, 2023, 6:16 AM GMT+8



4 [Comments \(All New\)](#)



Facebook changes company name to Meta

PUBLISHED THU, OCT 28 2021•2:18 PM EDT | UPDATED FRI, OCT 29 2021•8:56 AM EDT

Metaverse

From Wikipedia, the free encyclopedia

In [futurism](#) and [science fiction](#), the **metaverse** is a hypothetical iteration of the [Internet](#) as a single, universal and immersive [virtual world](#) that is facilitated by the use of [virtual reality](#) (VR) and [augmented reality](#) (AR) headsets.^{[1][2]} In colloquial use, a metaverse is a network of 3D [virtual worlds](#) focused on social connection.^{[2][3][4]}

Facebook almost missed the mobile revolution. It can't afford to miss the next big thing.

The social network you love — or hate — needs a radical reboot.

By **Kurt Wagner** | Apr 29, 2019, 6:00am EDT



dowjones.com

<https://www.dowjones.com> › resources › blog › facebo... ⋮

Facebook Bets that Fortune Favors the Virtual with Metaverse

24 Feb 2022 — Headlines erupted across the media landscape earlier this month after

Facebook parent Meta Platforms, Inc. lost more than \$230 billion in ...



Financial Times

<https://www.ft.com> › ... › Social Media › Technology ⋮

Facebook bets on virtual reality 'metaverse'

29 Jul 2021 — “One of the reasons why we're investing so much in augmented and virtual reality

is **mobile phones** kind of came around at the same time as ...

Is the Metaverse Really the Next Big Thing?

An 80-minute video rolling out his company's vision of “the metaverse,” which Mr. Zuckerberg believes is the next paradigm shift in computing.

9 Dec 2021

South Korea is betting on the metaverse — and it could provide a blueprint for others

The shape that the metaverse will take is still unknown, but South Korea is betting on the fledgling industry as the next big thing.

30 May 2022

Satya Nadella & the Metaverse: Microsoft CEO on ‘Next Wave of Internet’

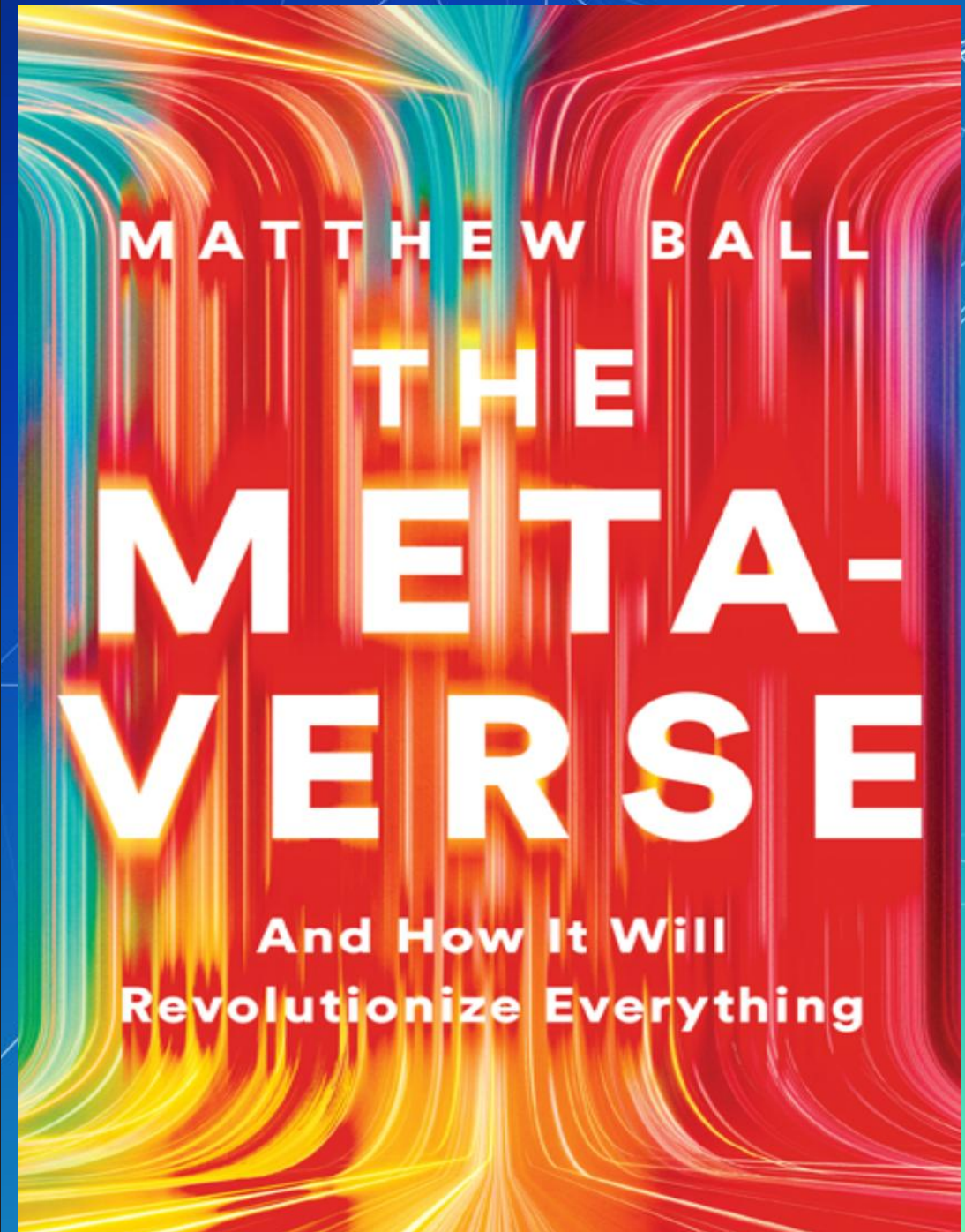
Microsoft CEO, Satya Nadella, shares his perspectives on how the Metaverse will “digitize people, places, and things.”

1 Feb 2022

What is the ‘metaverse’? Facebook says it’s the future of the Internet.

The 2018 sci-fi film “Ready Player One” offers a glimpse of what many technology companies prophesy is the Internet's next big thing.

30 Aug 2021



The metaverse is a 3D elevation of the online world, which spans augmented reality – unseen virtual simulations in the world around us – as well as much of consumer leisure and socialising. 22 hours ago

<https://www.theguardian.com> › [technology](#) › [jul](#) › [exit-the...](#) ⋮

Exit the internet, enter the metaverse – your online future is in 3D



Join us

Sign in

EMERGING TECHNOLOGIES

Spatial computing: Why the future of the internet is 3D

May 10, 2024

<https://www.weforum.org/stories/2024/05/spatial-computing-future-internet-3d-metaverse-radio-davos/>

Lego, Disney and a big bang: Fortnite is quickly becoming the world's first metaverse.

After a string of failed attempts, the metaverse may finally get off the ground thanks to the hit video game.

3 Mar 2024



Travis Scott's first Fortnite concert was surreal and spectacular



Sicko mode

By [Andrew Webster](#) | Apr 23, 2020, 8:17pm EDT


Travis Scott's record-breaking virtual concert in *Fortnite* reportedly earned significantly more than his average in-person show.

The nine-minute digital concert, which was held in April, grossed the rapper roughly \$20million including merchandise sales, according to a new *Forbes* report. In comparison, Scott's four-month-long, 56-stop Astroworld tour from 2018 to 2019 **garnered approximately \$53.5million**, or roughly just under \$1million per show.

Present/Future

 bermudaisbae 
Starbucks



...  lilmiquela 
Los Angeles, California



 imma.gram
江ノ島海岸



The Rise of Virtual Influencers

WEAR CLOTHES THAT DON'T EXIST

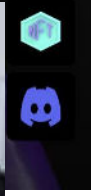
XR COUTURE

ABOUT US ▾ SHOP NOW HOW TO WEAR NFT.XRC

USD ▾   

WEAR CLOTHES THAT DONT' EXIST

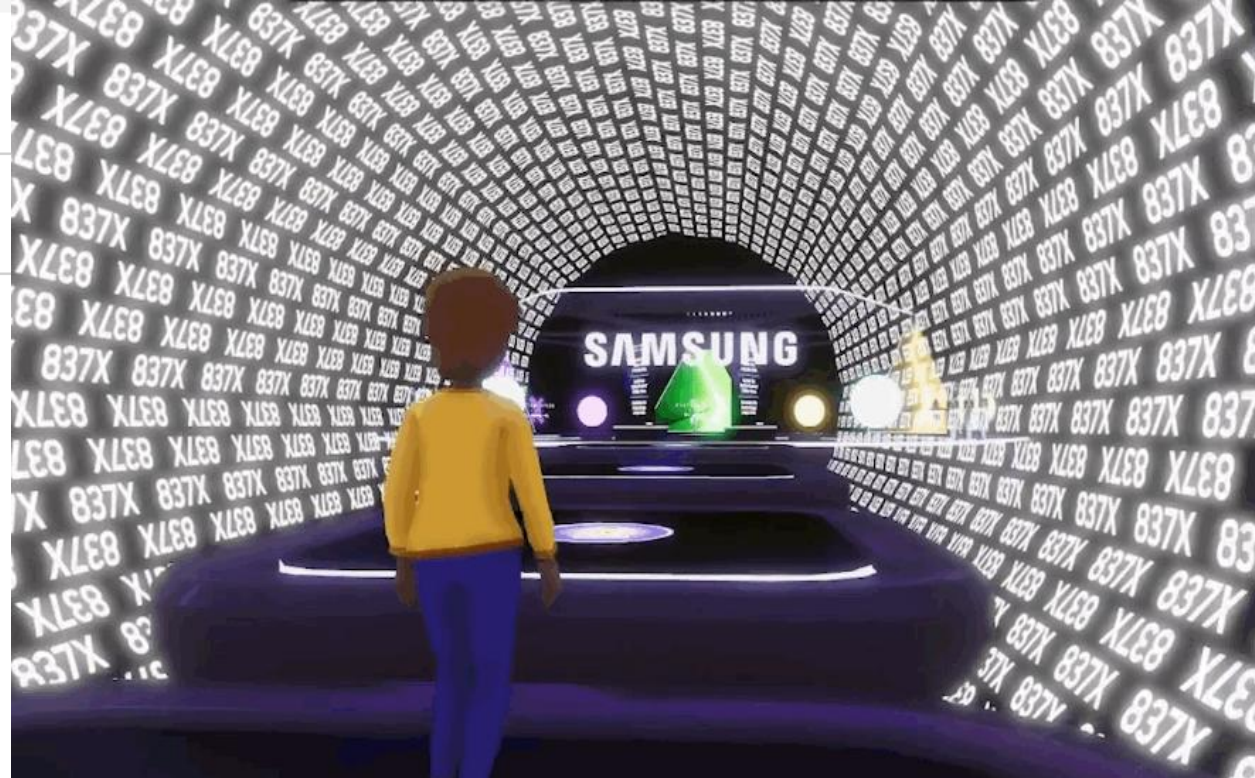
SHOP NOW



November 25, 2021 · 12:40 AM GMT+8
Last Updated 7 months ago

Disrupted

Virtual real estate plot sells for record \$2.4 million



 The New York Times

Opinion | What Are You Paying for When You Buy a GIF for \$25,000? (Published 2021)

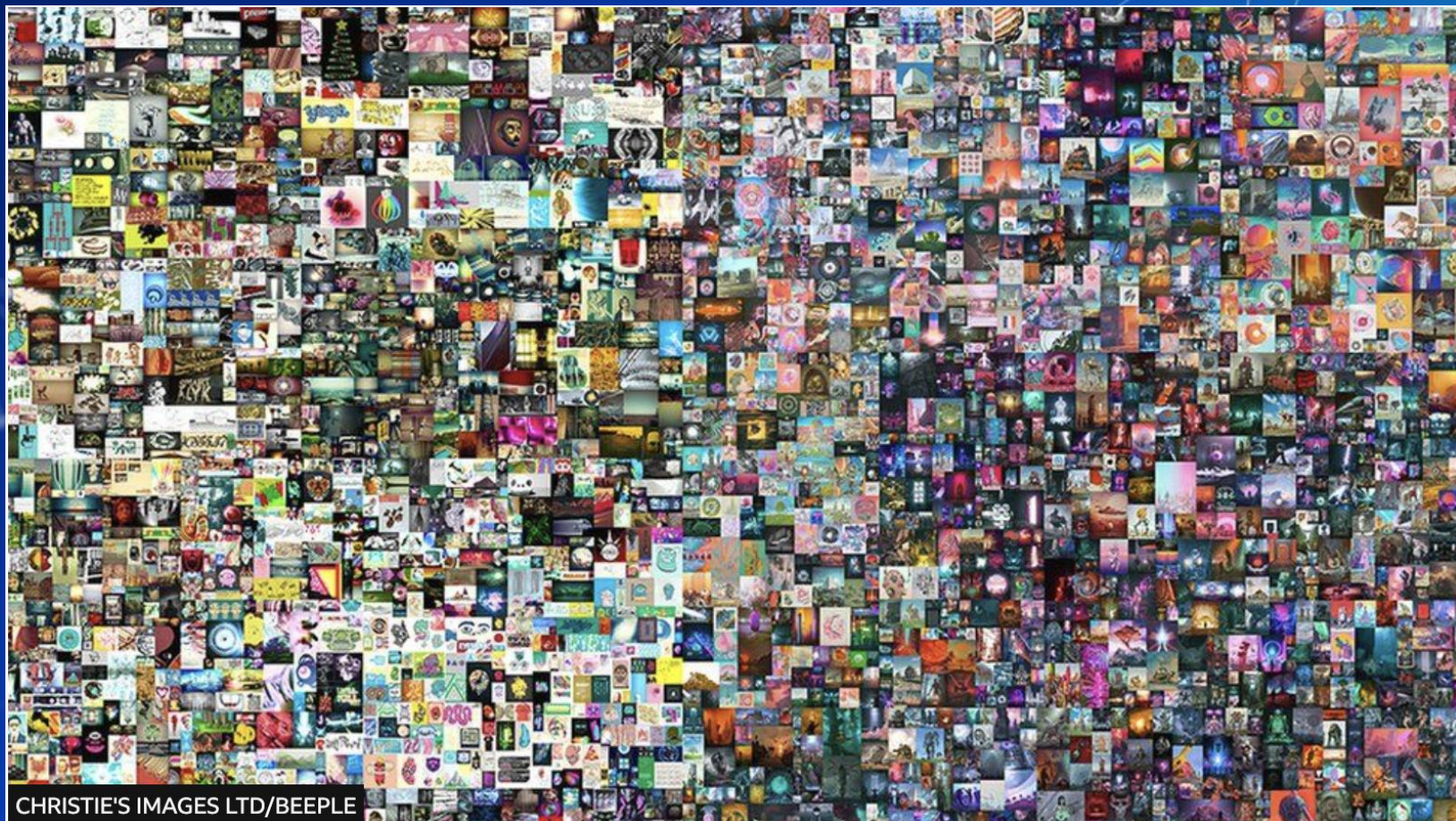
The transaction is an example of a thrilling new path for ownership in a digital world that allows creators to sell things directly with no intermediaries, or...

24 Mar 2021

<https://www.nytimes.com> › Arts › Art & Design

JPG File Sells for \$69 Million, as 'NFT Mania' Gathers Pace

25 Mar 2021 — After a flurry of more than 180 bids in the final hour, a JPG file made by Mike Winkelmann, the digital artist known as **Beeple**, was sold on ...



CHRISTIE'S IMAGES LTD/BEEPLE

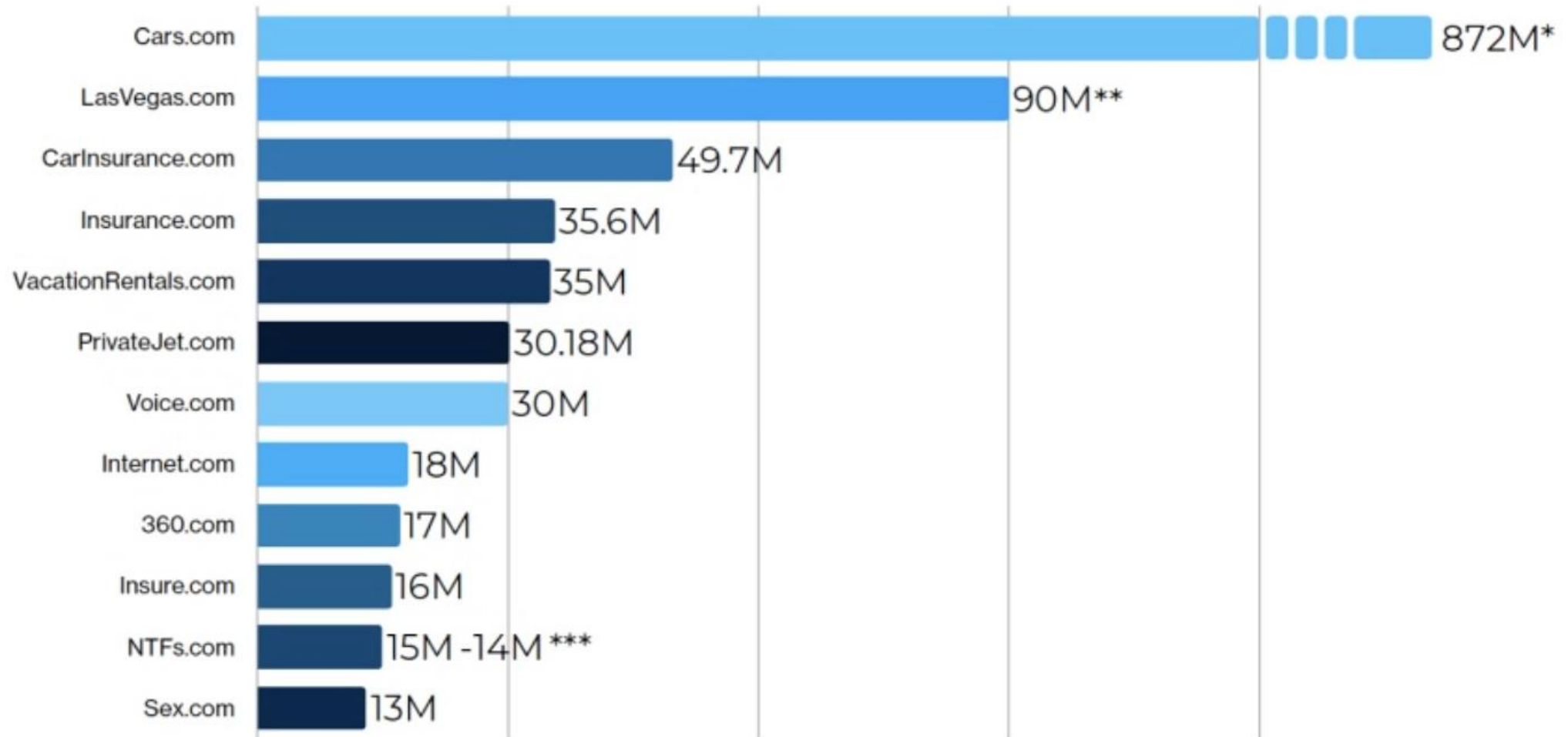


**What
has
changed?!**

**What
hasn't?!**

What much is internet.com?

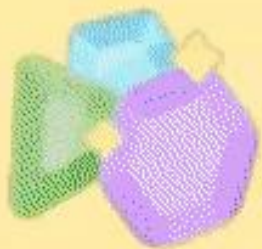
10 Of The Most Expensive Domain Names Ever Sold



waiting for your turn



STORE



Gem pass



Coin x2



EXP x2





What if...

*You could actually
own parts of the internet?*



What is Web3 and how could it change the internet?

Mar 2, 2023

Recent interest in metaverse development is influenced by [Web3](#), a concept for a decentralized iteration of the internet, in which users can (somehow) retain ownership of their data. Its blockchain-based infrastructure would usher in the era of the “token economy”, say experts.



Web1

Static info publications,
subscriptions, and
linking via URLs



Web2

Social exchanges
among users on social
media platforms



Web3

Decentralized data
transactions between
digital wallets on
blockchains

Web 1.0

Web 2.0

Sign in with Google



Sign in with Facebook



Sign in with Twitter



web3

connect wallet

INFORMATION ECONOMY



PLATFORM ECONOMY



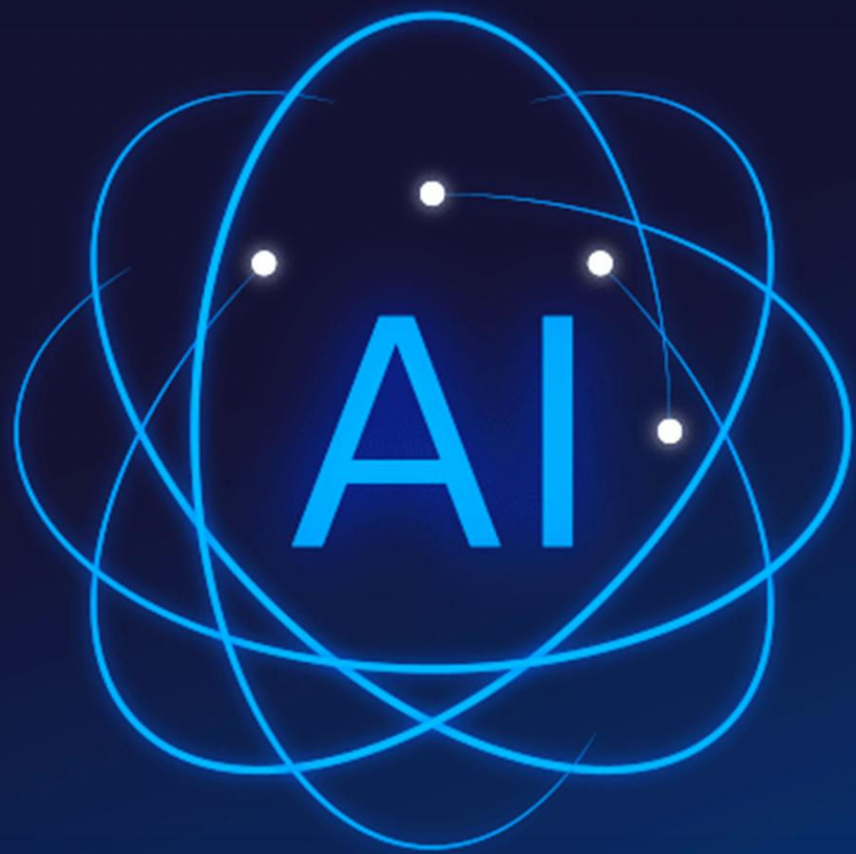
TOKEN ECONOMY



web1: read

web2: read / write

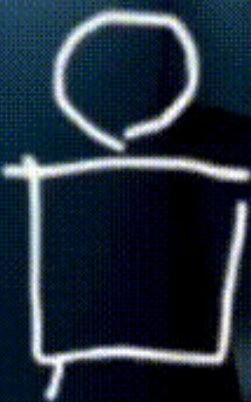
web3: read / write / own



Generate →



Blockade
Labs



39.1K views

0:00 / 0:56








 The Guardian

A moment's silence, please, for the death of Mark Zuckerberg's metaverse

Meta sank tens of billions into its CEO's virtual reality dream, but what will he do next?

13 May 2023

 Business Insider

RIP Metaverse, we hardly knew ye

The Metaverse, the once-buzzy technology that promised to allow users to hang out awkwardly in a disorientating video-game-like world, has died after being...

8 May 2023

 Campaign

Is the metaverse dead or is it just under construction?

Weren't we all supposed to be donning goggles and meeting up in virtual cocktail bars in an augmented reality parallel world by now?

10 Jul 2023

Timeline

- **Web 1.0:** 1991 to 2004

- **Web 2.0:** 2004 to present

- **Web 3.0:** Currently being argued on **Twitter** **X**

EMERGING TECHNOLOGIES

Web3: The hype and how it can transform the internet

Feb 1, 2022

- The dominance of big tech over internet use and its control over personal data has led calls for the net's decentralization.
- The third iteration of the internet – Web3 – will be defined by open-source technology, utilizing blockchain technology to be trustless and permissionless.
- Web3 is still in its infancy and there are still large questions to address.

Metaverse

Web3



3D Internet

Decentralised
Internet



What is the Next Internet?!