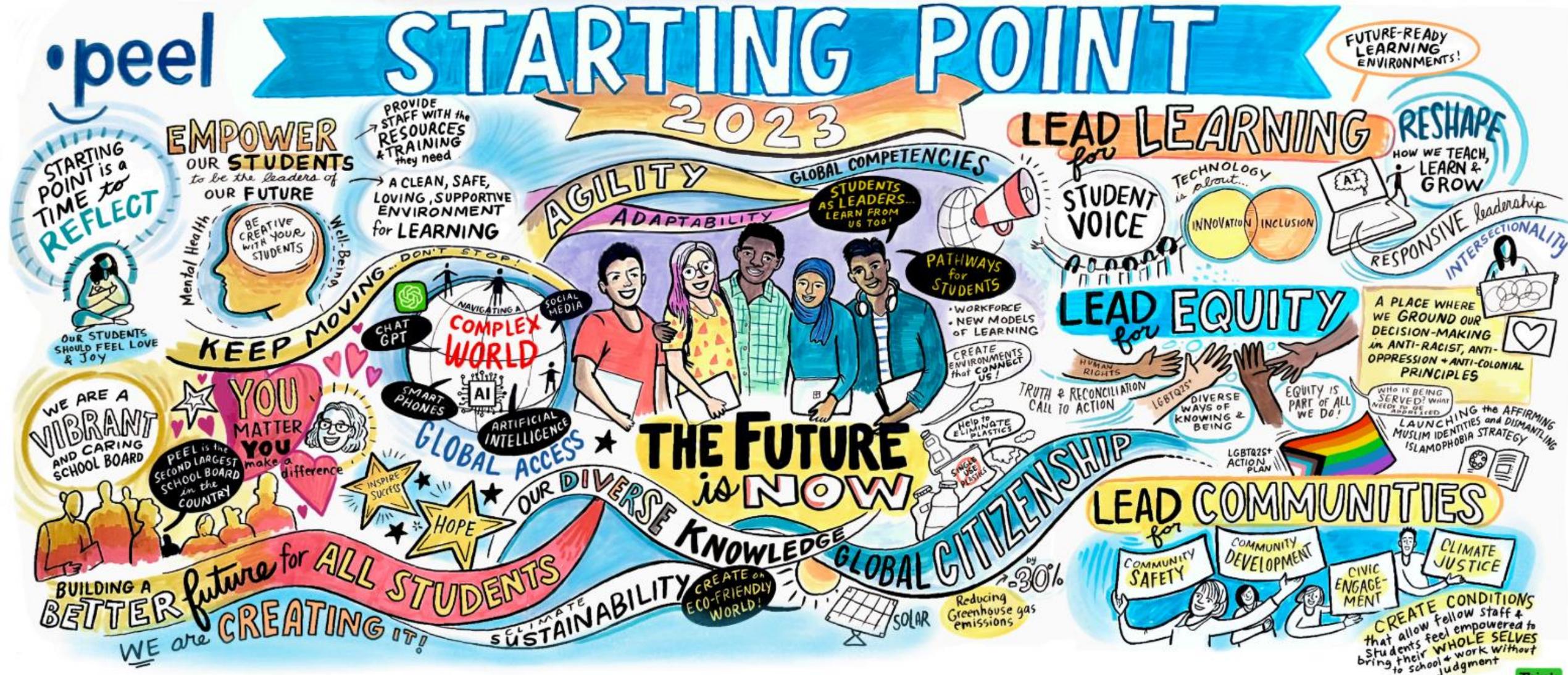
The background of the slide is a dark blue gradient with a complex pattern of glowing blue lines and dots, resembling a circuit board or a neural network. On the left side, there is a stylized representation of a computer chip, outlined in white with a glowing purple and blue aura. Inside this chip, the letters 'AI' are written in a large, white, sans-serif font. To the right of the chip, the words 'For Parents' are written in a large, white, sans-serif font. At the bottom of the slide, the presenter's name and affiliation are written in a smaller, white, sans-serif font.

AI

# For Parents

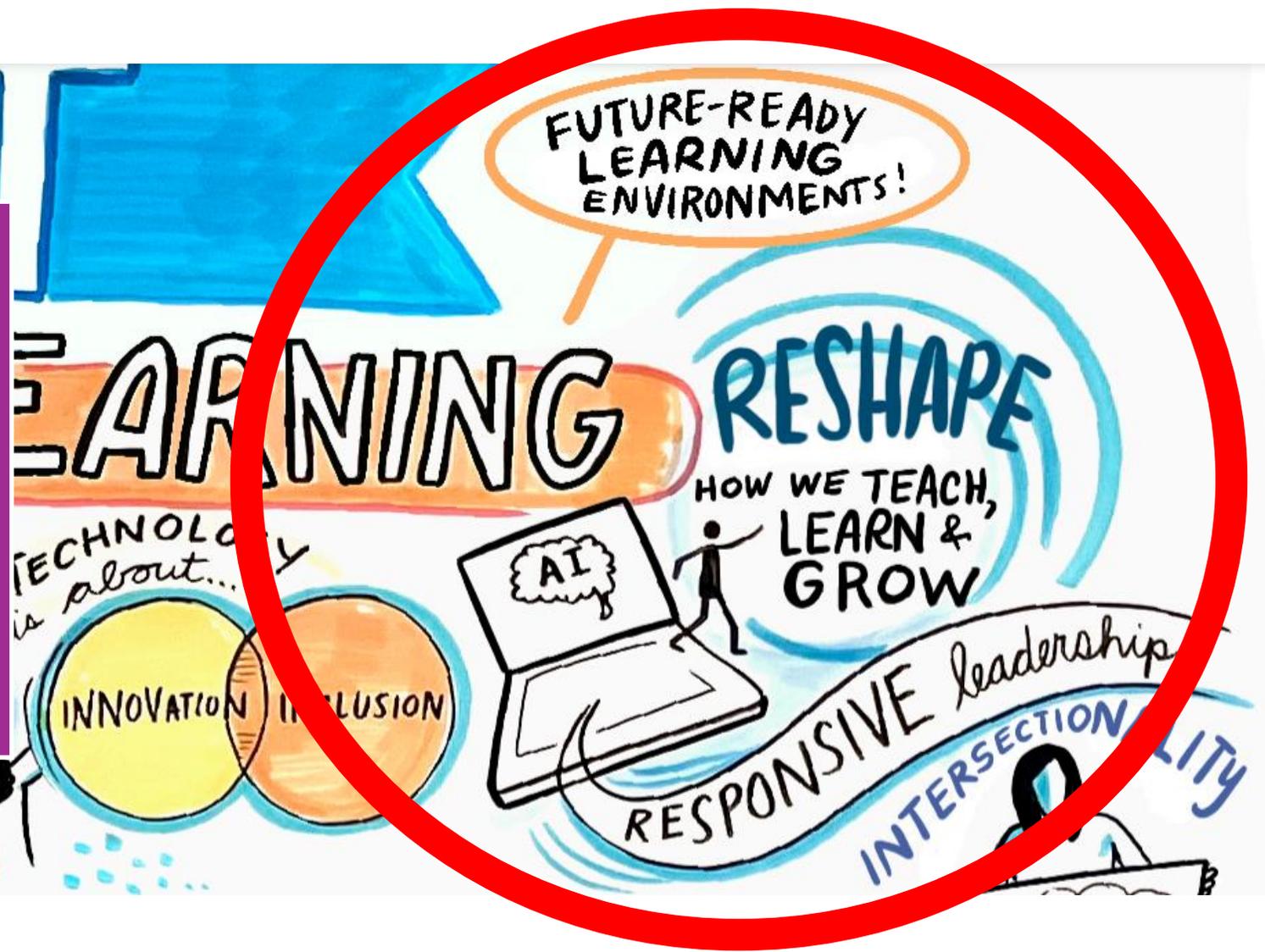
Amanda Gorski, Computer Science Teacher  
Brampton Centennial Secondary School

In September 2023, we watched the director's video:



August 29th, 2023 - Pearson Convention Centre

What are  
“future-ready  
learning  
environments?”



Assessed Jan 9, 2026  
<https://www.mother.ly/parenting/using-ai-to-parent/>



Home / Parenting

# Unpopular opinion: I use AI to help me parent

By Sarah B...

Updated Apr. 06,



Should you use AI to help you parent?



transforming businesses and industries, but what about other aspects of our lives? As a tech entrepreneur, I began experimenting with it in my business to make my day-to-day more efficient and was blown away by its power. It made me wonder if it

article

01. 5 ways AI tools help me with parenting

Meal planning and grocery lists

How can you help your children use AI?



Marlynn Wei M.D., J.D.  
Urban Survival

ARTIFICIAL INTELLIGENCE

# Why AI Does Not Need to Say 'I Am Here for You' to Help Teens

Vulnerable teens prefer caring AI, but boundaried AI may be safer and helpful.

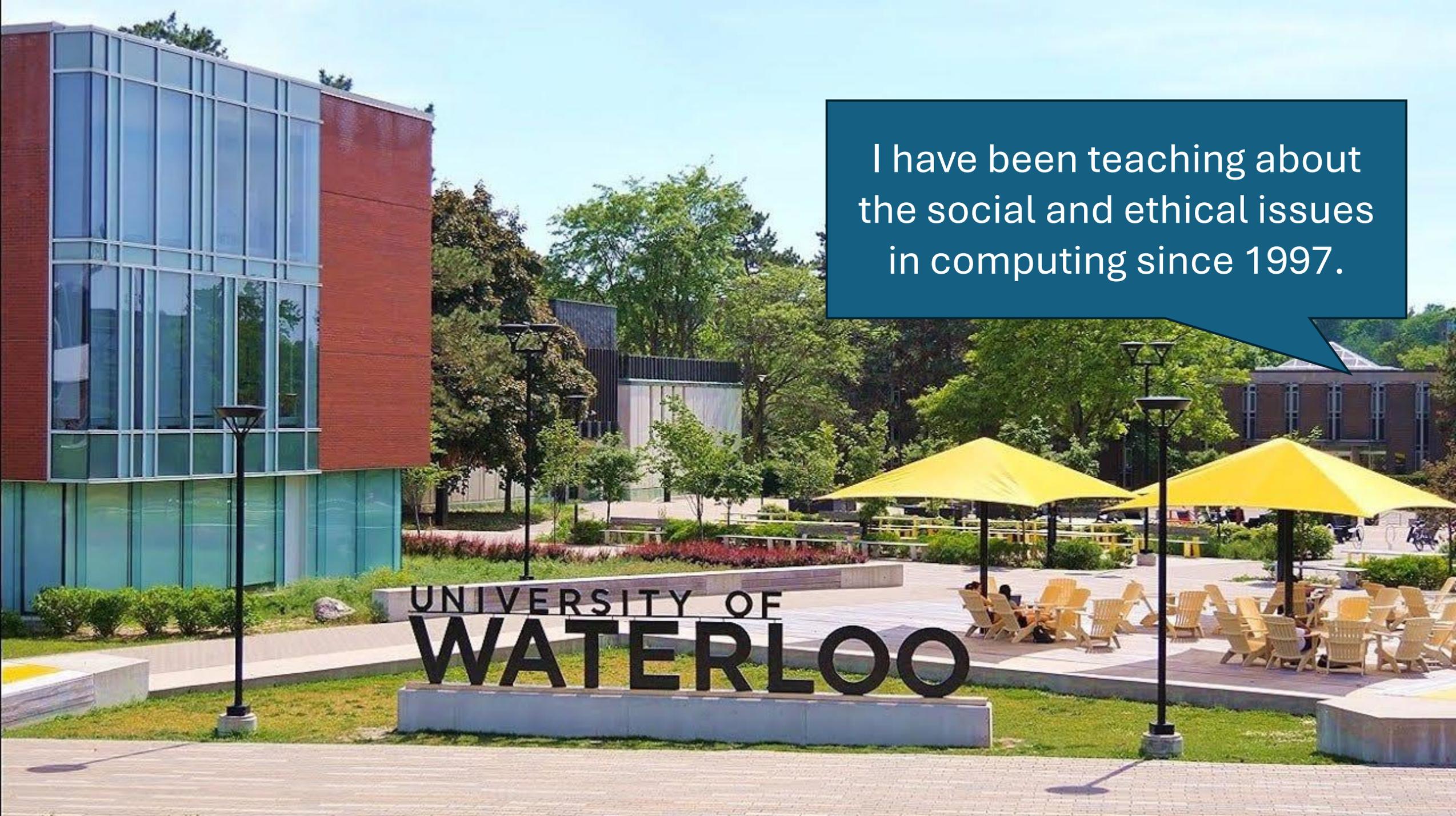
Updated January 7, 2026 | Reviewed by Michelle Quirk



Assessed: Jan 9, 2026  
<https://www.psychologytoday.com/ca/blog/urban-survival/202601/why-ai-does-not-need-to-say-i-am-here-for-you-to-help-teens>

### KEY POINTS

- Teens prefer AI that sounds caring but find AI that clearly clarifies limits to be equally helpful.
- The teens most drawn to friendly conversational AI are often the most emotionally vulnerable.

A photograph of a modern university building with large glass windows and red brick accents. In the foreground, there is a paved plaza with a large sign that reads "UNIVERSITY OF WATERLOO". To the right, there is an outdoor seating area with yellow umbrellas and wooden chairs. The background is filled with green trees under a clear blue sky.

I have been teaching about  
the social and ethical issues  
in computing since 1997.

UNIVERSITY OF  
**WATERLOO**

What AI tools  
are we talking  
about?



# ChatGPT

<https://chat.openai.com/>

A screenshot of the ChatGPT web interface. The browser address bar shows 'chat.openai.com'. The page title is 'ChatGPT 3.5' with a 'Sign up' button. The user's prompt is 'Write me a 5 paragraph essay about the book the Kite Runner by Khaled Hosseini'. The AI's response is a paragraph about the book. A blue callout box labeled 'Prompt' points to the user's message, and another blue callout box labeled 'Answer' points to the AI's response. At the bottom, there is a text input field with the placeholder 'Message ChatGPT...' and an upward arrow button. A footer note states: 'ChatGPT can make mistakes. Consider checking important information. Read our Terms and Privacy Policy.'

“Prompt”

Answer



# The essay ChatGPT produced:

"The Kite Runner" by Khaled Hosseini is a captivating novel that delves into the complexities of friendship, betrayal, redemption, and the haunting legacy of the past. Set against the backdrop of Afghanistan's tumultuous history, the story follows the life of Amir, a privileged Pashtun boy, and his servant's son, Hassan, as they navigate the intricacies of their relationship amidst the backdrop of societal and political turmoil. The novel opens in Kabul in the 1970s, portraying the innocence of childhood and the unbreakable bond between Amir and Hassan, who share a love for kite running. However, their friendship is tested by jealousy, cowardice, and ultimately, betrayal.

Hosseini masterfully weaves together the personal and political, as the characters' lives are profoundly impacted by the changing landscape of Afghanistan. Against the backdrop of the Soviet invasion, the rise of the Taliban, and the exodus of refugees, the characters are forced to confront the consequences of their actions and the weight of their past. The novel explores themes of guilt and redemption, as Amir grapples with the choices he made as a child and seeks to atone for his sins. His journey to seek forgiveness and redemption forms the heart of the narrative, illustrating the power of love and sacrifice to overcome even the deepest wounds.

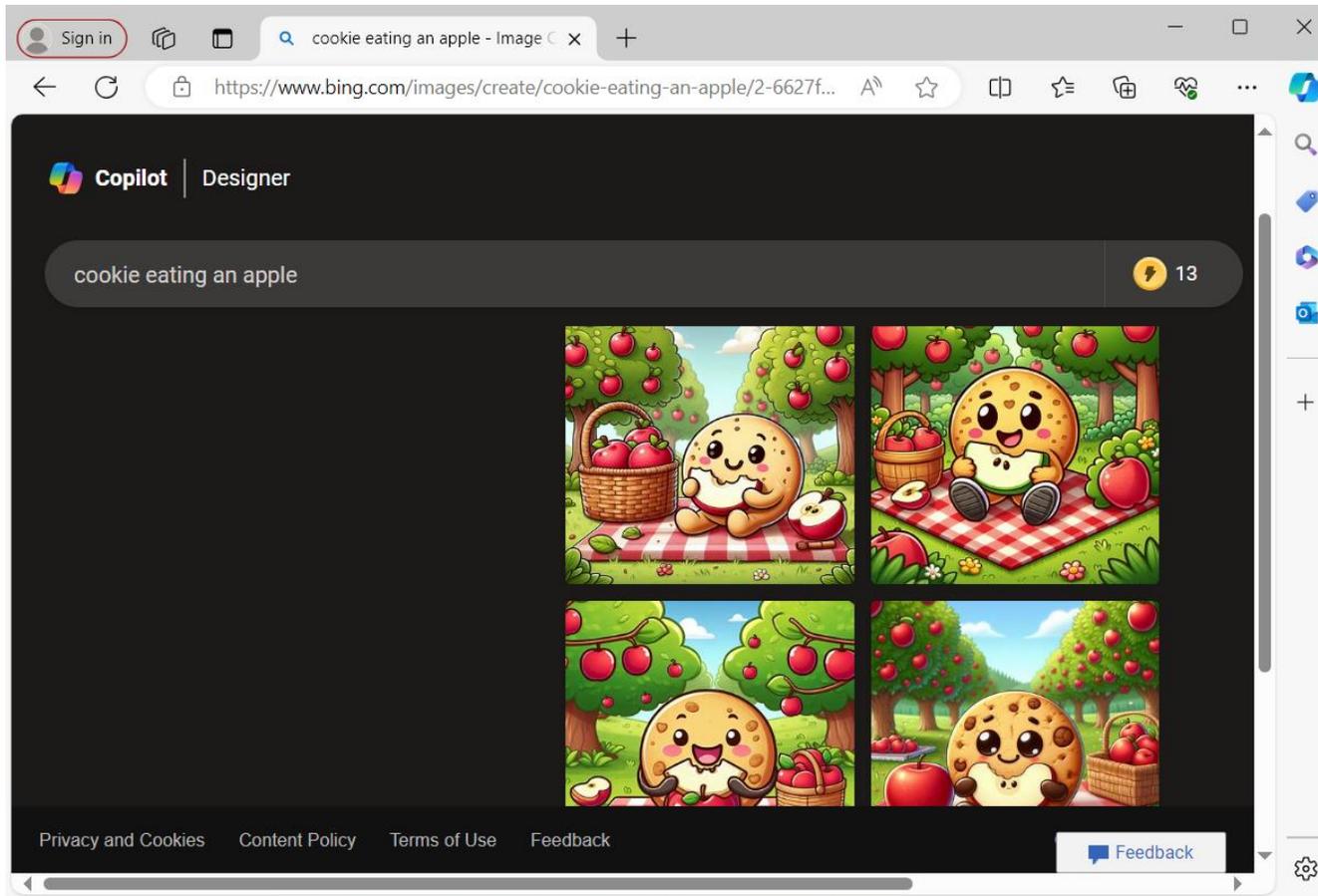
Moreover, "The Kite Runner" sheds light on the enduring legacy of trauma and violence, as the characters struggle to reconcile their personal histories with the broader collective memory of their nation. Through Hosseini's vivid prose and evocative storytelling, the reader is transported to the streets of Kabul, where the echoes of the past reverberate through every alleyway and marketplace. The novel serves as a poignant reminder of the human cost of conflict and the resilience of the human spirit in the face of adversity.

Furthermore, the characters in "The Kite Runner" are intricately drawn, with each possessing their own flaws, fears, and desires. From the flawed protagonist Amir, burdened by guilt and regret, to the noble Hassan, whose unwavering loyalty and courage inspire admiration, the characters leap off the page with authenticity and depth. Through their experiences, the novel explores the complexities of identity, class, and ethnicity, challenging stereotypes and highlighting the common humanity that unites us all.

In conclusion, "The Kite Runner" is a powerful and thought-provoking novel that resonates with readers long after the final page. Through its richly drawn characters, vivid setting, and timeless themes, Hosseini's masterpiece offers a poignant meditation on the nature of love, forgiveness, and the enduring power of redemption. It is a story of hope amidst despair, of friendship amidst betrayal, and ultimately, of the triumph of the human spirit over adversity.

# Microsoft Bing has an image creator

Prompt: Cookie Eating an Apple

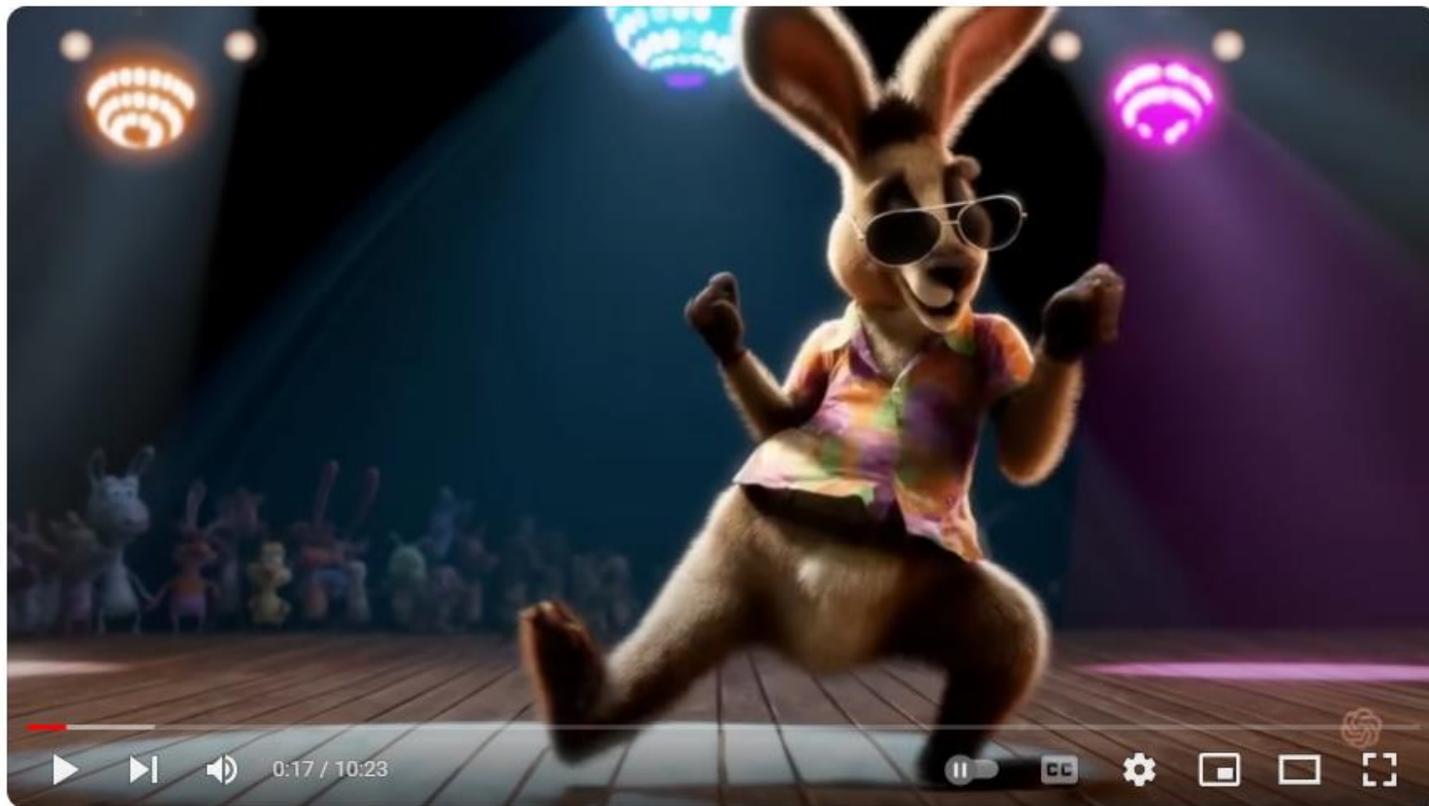


Open AI is also working on a text to video generator – Sora.

<https://openai.com/sora>

The demo video:

[https://www.youtube.com/watch?v=HK6y8DAPN\\_0](https://www.youtube.com/watch?v=HK6y8DAPN_0)



Introducing Sora – OpenAI's text-to-video model



OpenAI  
877K subscribers

Subscribe

49K



Share

Save



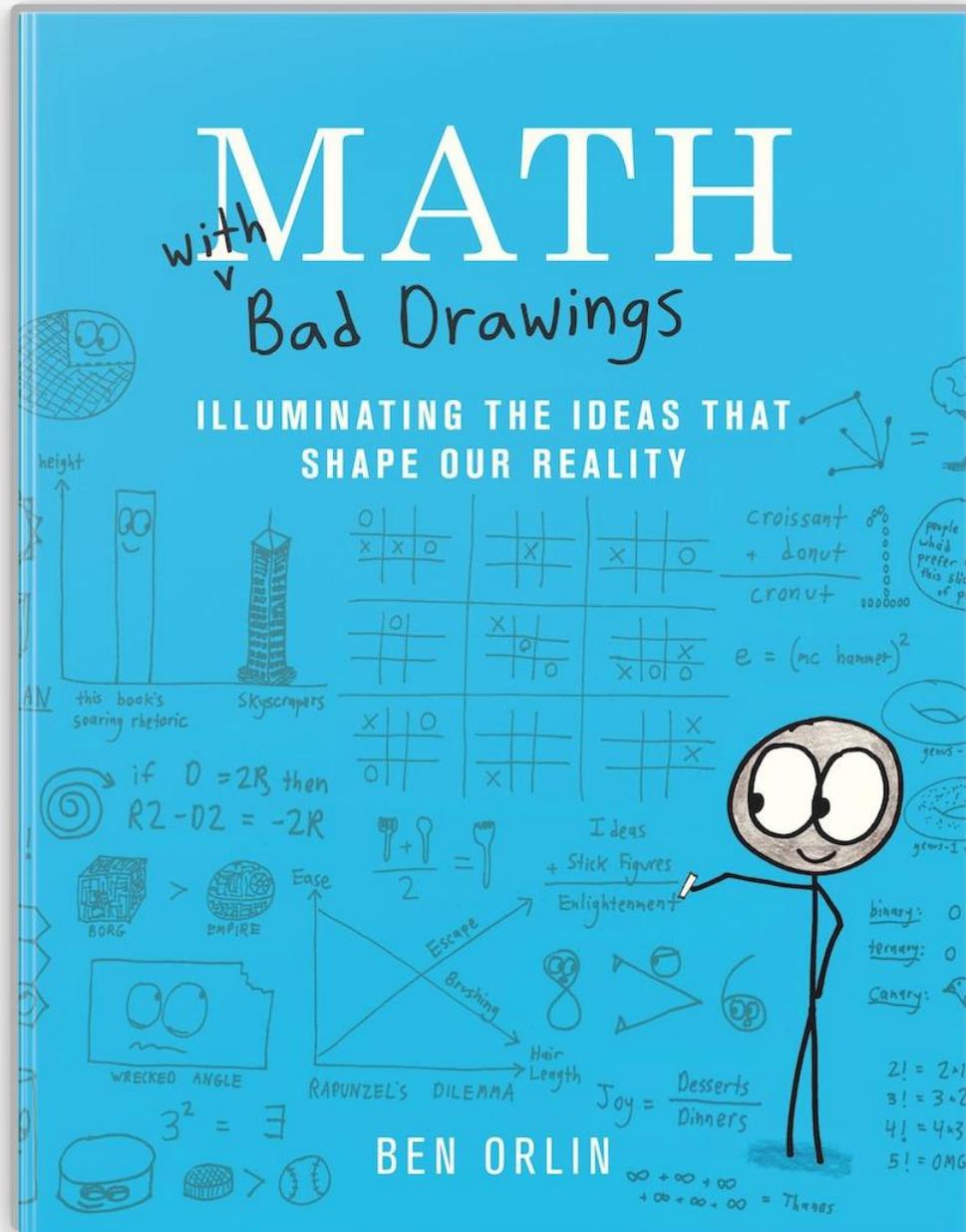
Prompt: A cartoon kangaroo that disco dances

The demo video's introduction says that all video was produced by Sora using only the prompts given and is unedited.



Other AI generative tools





“It is silly to be afraid of AI”

Is it?

Let's look at the Math

# When mathematicians see $x^2$ vs. $2^x$

Switch two symbols. What happens?

Well, in the eyes of the novice, nothing. You've interchanged scribbles, swapped syllables in an incomprehensible language. Who cares?

But in the eyes of a mathematician, it can be like switching god and dog. Switching two symbols can change everything.

Let's assume  $x$  is 10.

$$x^2$$

$$= 10^2$$

$$= 10 \times 10$$

$$= 100$$

“That’s a reasonable number of students to teach in a given year, or miles to drive to a theme park, or dollars to pay for a used television. (It’s a suspicious number of dalmatians to own.)”

Let's assume x is 10.

$$2^x$$

$$= 2^{10}$$

$$= 2 \times 2 \times 2 \times 2 \times 2$$

$$\times 2 \times 2 \times 2 \times 2 \times 2$$

$$= 1024$$

“That’s a reasonable number of students to teach in a decade, or miles to drive to the world’s greatest theme park, or dollars to pay for an awe-inspiring television. (It’s a very suspicious number of dalmatians to own; this is why we have animal cruelty laws.)”

As we try out bigger  $x$ 's, the gap between the two expressions widens.

In fact, the word “widens” is too soft, like describing the Grand Canyon as “bit of crack in the ground.”

As  $x$  grows, the gap between  $x^2$  and  $2^x$  *explodes*.

Let's assume  $x$  is 100.

$$x^2$$

$$= 100^2$$

$$= 100 \times 100$$

$$= 10,000$$

“That’s quite big.  
But  $2^{100}$  is *huge*.”

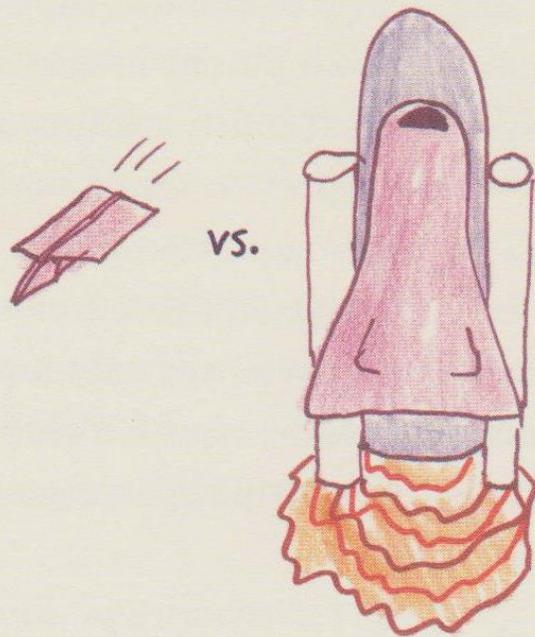


If we are talking pounds, then  $100^2$  is the weight of a pickup truck carrying a load of bricks.

Heavy to be sure, but  $2^{100}$  is in a different weight class altogether.

It's the size of a hundred thousand Earths.

When mathematicians see " $x^2$  vs.  $2^x$ "...



Eventually, mixing up  $x^2$  and  $2^x$  becomes as absurd as imagining a pickup truck towing a hundred thousand planets behind it.

People who doubt the coming of Artificial Intelligence often look at current models of computer “intelligence” and say that computers will never out-perform humans.



People who doubt the coming of Artificial Intelligence often look at current models of computer “intelligence” and say that computers will never out-perform humans.

There is a lot of evidence that they are making the  $x^2$  vs  $2^x$  error.



Computing Power has grown exponentially, doubling every 18 months since 1965.

This is called Moore's Law.

Understanding  $x^2$  vs  $2^x$  growth helps us to understand the magnitude of what is coming.

AI isn't growing as biological things are growing. It is much, much, faster.

Remember?

Eventually, mixing up  $x^2$  and  $2^x$  becomes as absurd as imagining a pickup truck towing a hundred thousand planets behind it.

Let's look at  
a specific  
example



	<b>ASCI Red</b>	
Date	1997	
Calculation Speed	1.3 teraflops	
Cost	\$55 million	
Size	104 cabinets 230 m <sup>2</sup>	
Number	1	
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	<b>ASCI Red</b>	
Date	1997	2006
Calculation Speed	1.3 teraflops	
Cost	\$55 million	
Size	104 cabinets 230 m <sup>2</sup>	
Number	1	
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	ASCI Red	
Date	1997	2006
Calculation Speed	1.3 teraflops	1.8 teraflops
Cost	\$55 million	
Size	104 cabinets 230 m <sup>2</sup>	
Number	1	
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	ASCI Red	
Date	1997	2006
Calculation Speed	1.3 teraflops	1.8 teraflops
Cost	\$55 million	\$500
Size	104 cabinets 230 m <sup>2</sup>	
Number	1	
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	ASCI Red	
Date	1997	2006
Calculation Speed	1.3 teraflops	1.8 teraflops
Cost	\$55 million	\$500
Size	104 cabinets 230 m <sup>2</sup>	12.81" wide, 10.79" deep, 3.86" tall Weight: 11 pounds
Number	1	
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	ASCI Red	
Date	1997	2006
Calculation Speed	1.3 teraflops	1.8 teraflops
Cost	\$55 million	\$500
Size	104 cabinets 230 m <sup>2</sup>	12.81" wide, 10.79" deep, 3.86" tall Weight: 11 pounds
Number	1	80 million
“Titles”	Fastest computer in the world until 2000	
Use	Nuclear materials testing	

	<b>ASCI Red</b>	<b>PlayStation 3</b>
Date	1997	2006
Calculation Speed	1.3 teraflops	1.8 teraflops
Cost	\$55 million	\$500
Size	104 cabinets 230 m <sup>2</sup>	12.81" wide, 10.79" deep, 3.86" tall Weight: 11 pounds
Number	1	80 million
“Titles”	Fastest computer in the world until 2000	Ummm....
Use	Nuclear materials testing	Playing COD, MW4, GTA4, Assassin’s Creed, Infamous....



SONY



Instant streaming ready **NETFLIX**

Prêt pour la lecture en continu instantanée  
Netflix unlimited membership required.  
Terms of program are subject to change without notice.  
Abonnement illimité Netflix requis.  
Les termes du programme sont sujets à modifications sans préavis.

**160  
GB/GO**



**PS3**™

PlayStation®3





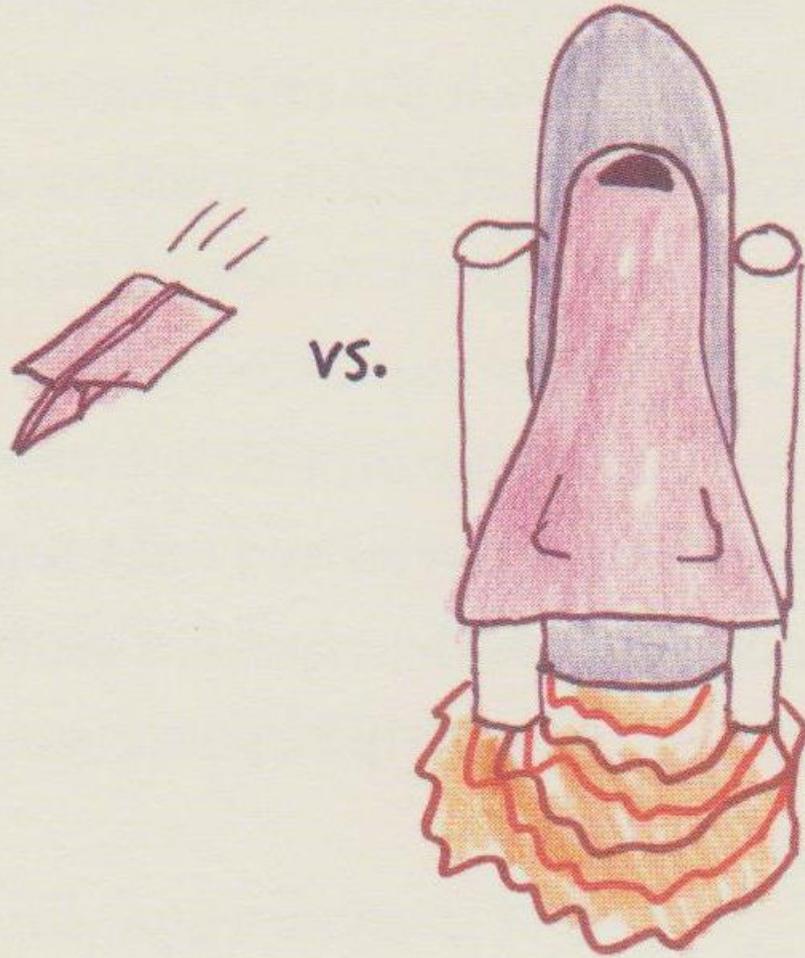
Pentagon

In 10  
years



Living Room

When mathematicians see " $x^2$  vs.  $2^x$ "...

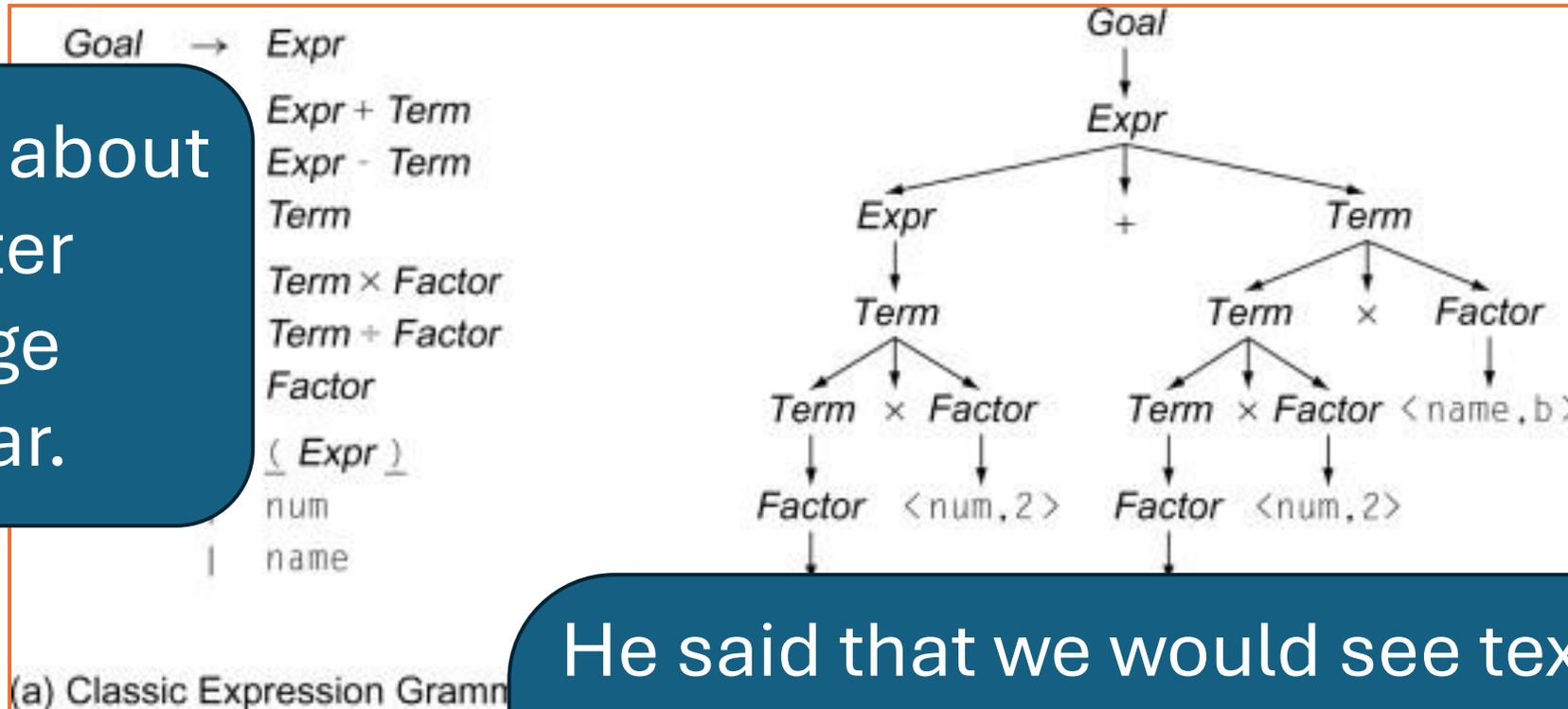


I want to end  
with a note  
about  
exponential  
growth



About 1998, I took a course on compilers in my undergrad.

We learned about computer language grammar.



My prof was researching how to create text-to-speech software.

He said that we would see text-to-speech software in our lifetime. But he said an AI that could process human questions and answer them would still be science fiction.

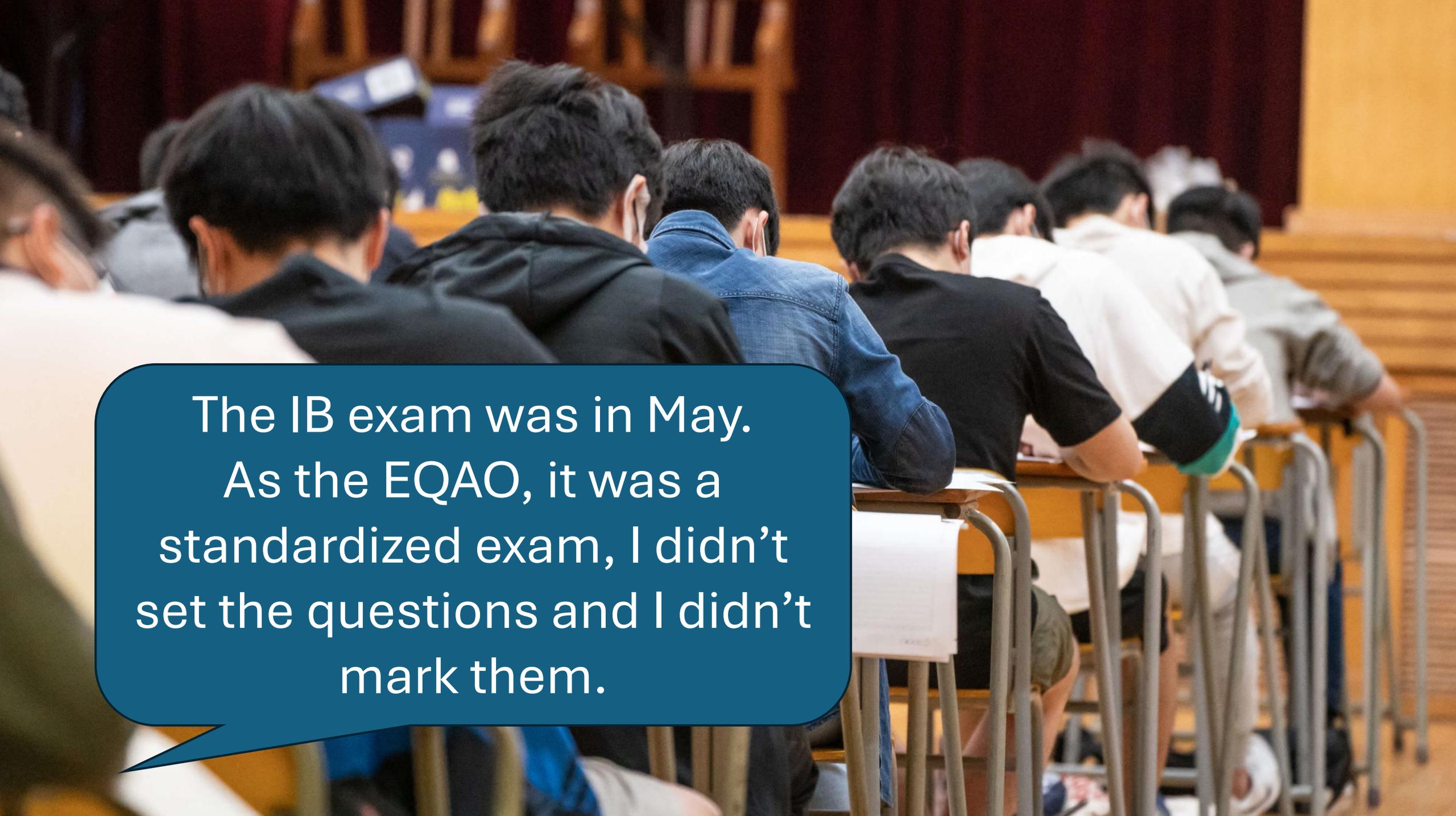
A little over  
10 years  
later....

In 2011-12, I was teaching  
a course about the social  
and ethical impacts of  
technology.

Stuff had  
changed.

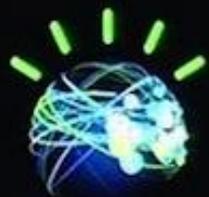


**TURNER FENTON**  
SECONDARY SCHOOL  
SOUTH HALL  
7935 KENNEDY ROAD SOUTH

A photograph of a classroom where students are seated at desks, viewed from behind, appearing to be in the middle of an exam. The students are wearing various casual clothing like hoodies and jackets. The desks are metal-framed with attached writing surfaces. The background shows a wooden wall and some blurred objects on a shelf.

The IB exam was in May.  
As the EQAO, it was a  
standardized exam, I didn't  
set the questions and I didn't  
mark them.

Feb. 16,  
2011



Then this  
happened.

**\$24,000**

Who is Stoker?  
(I FOR ONE WELCOME OUR  
NEW COMPUTER OVERLORDS)  
\$1,000

**\$77,147**

Who is Bram  
Stoker?  
\$ 17,973

**\$21,600**

WHO IS  
BRAM STOKER?  
\$5600

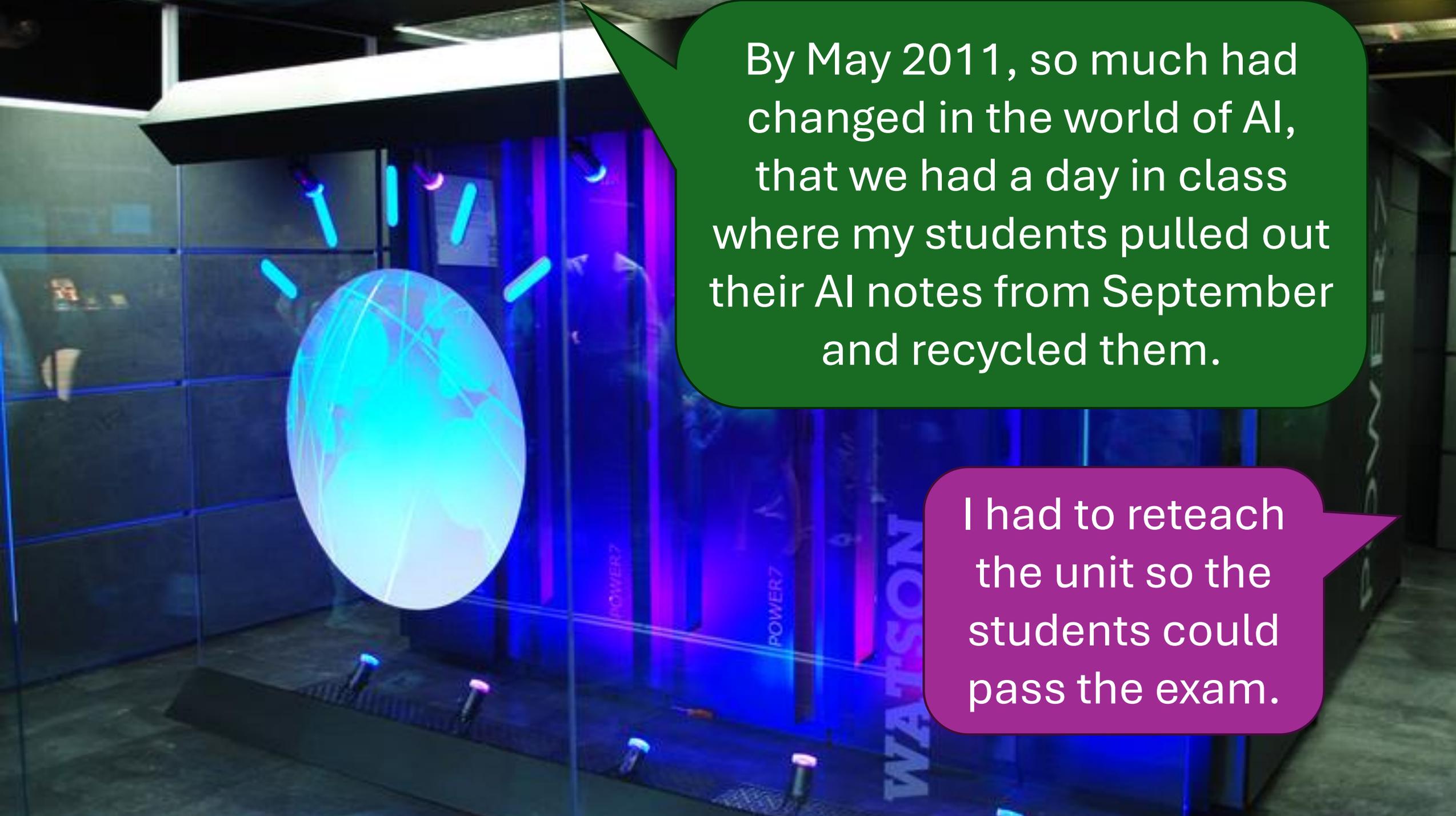
The final result ended with a victory for Watson with a score of \$77,147, besting Jennings who scored \$24,000 and Rutter who scored \$21,600.

Watson listened to the clue when it was read aloud in natural human language and then found the answer.

The period while Watson was listening was the only chance Jennings and Rutter had to answer. As soon as the question was done, Watson's processors found the answer.



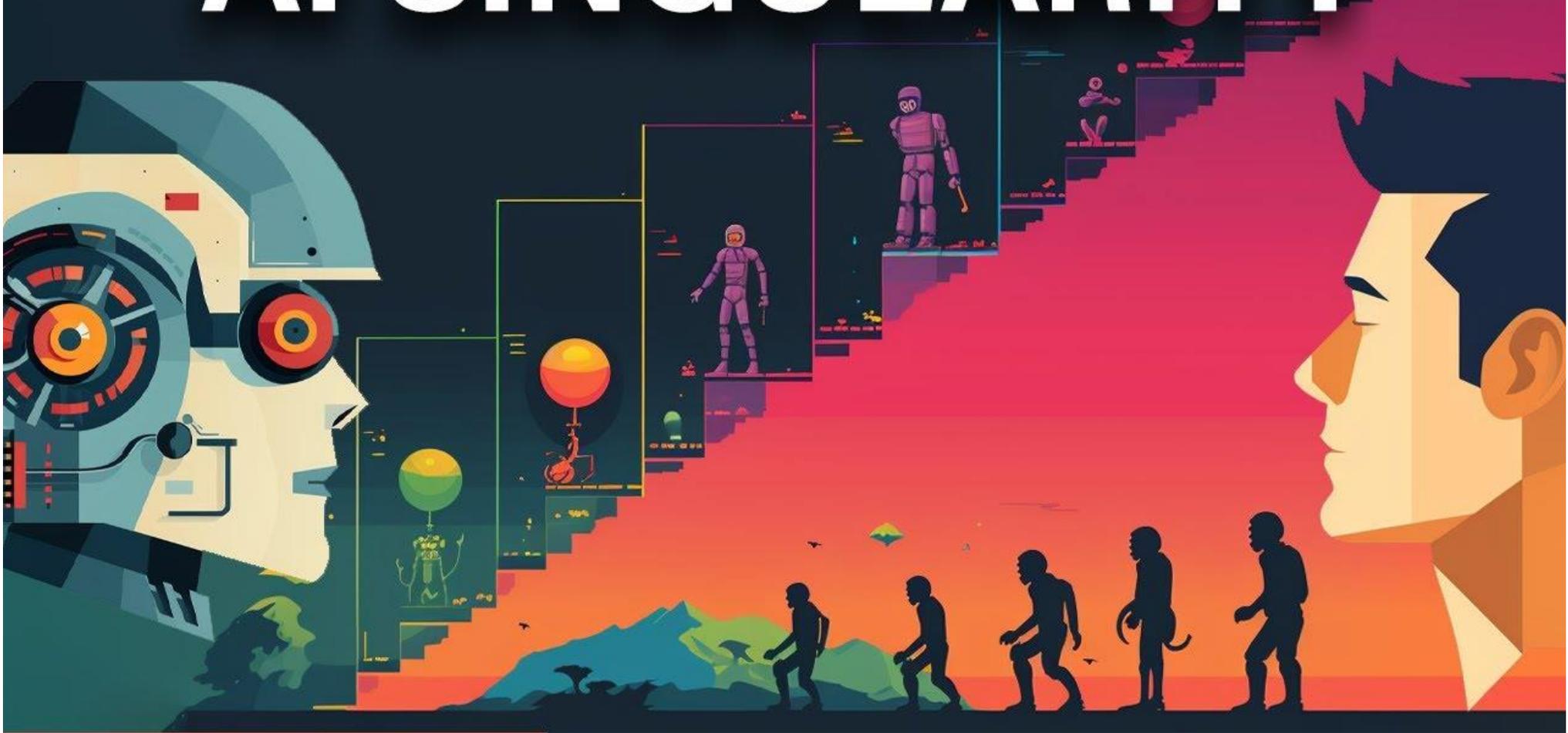
Ten years earlier, my prof, on the leading edge of this research, did not think this would come in my lifetime. That is  $x^2$  thinking vs.  $2^x$  thinking again.



By May 2011, so much had changed in the world of AI, that we had a day in class where my students pulled out their AI notes from September and recycled them.

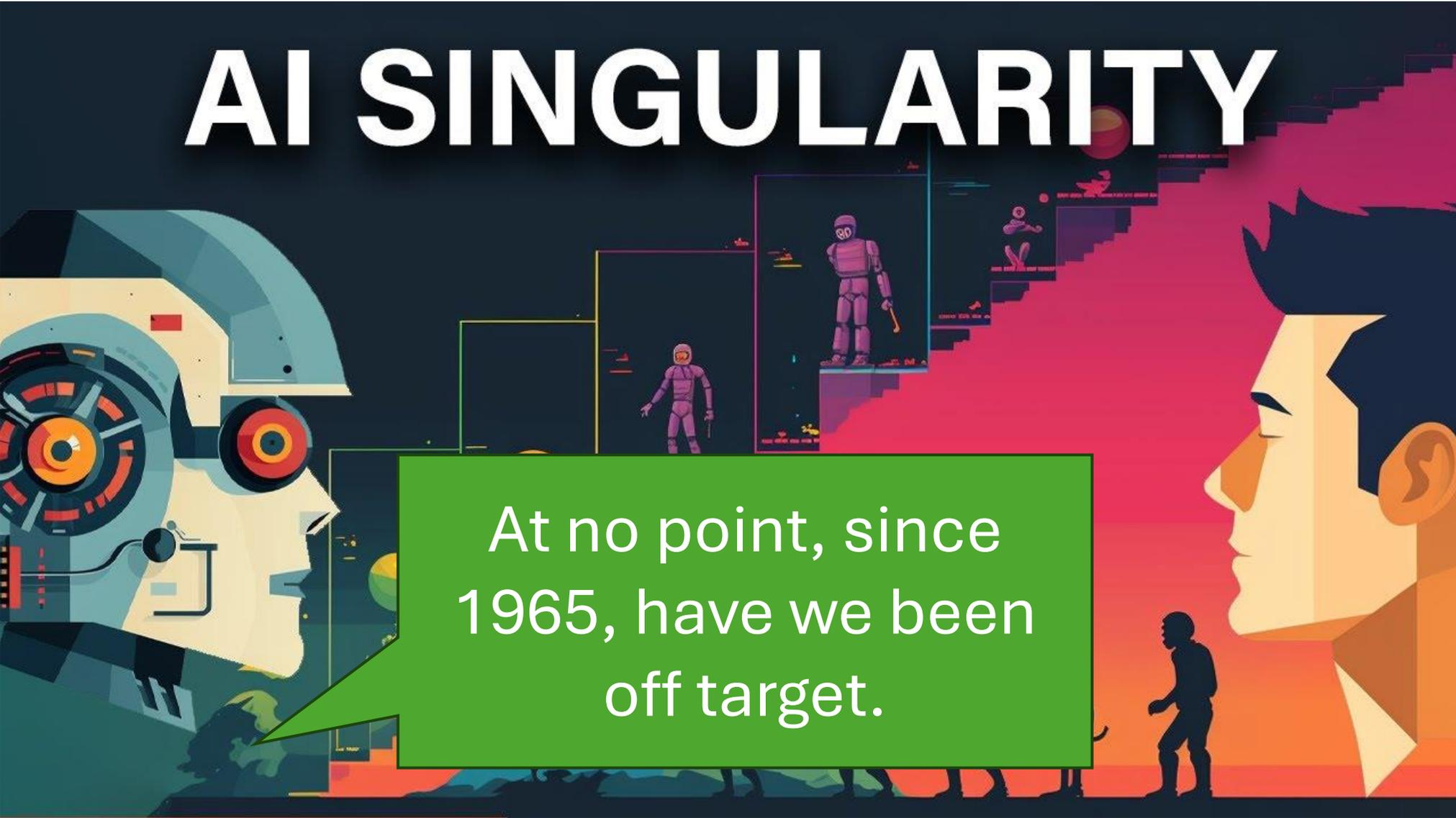
I had to reteach the unit so the students could pass the exam.

# AI SINGULARITY



If you extrapolate forward, by 2045, a single desktop computer is projected to have computing power that is equivalent to all human minds on Earth.

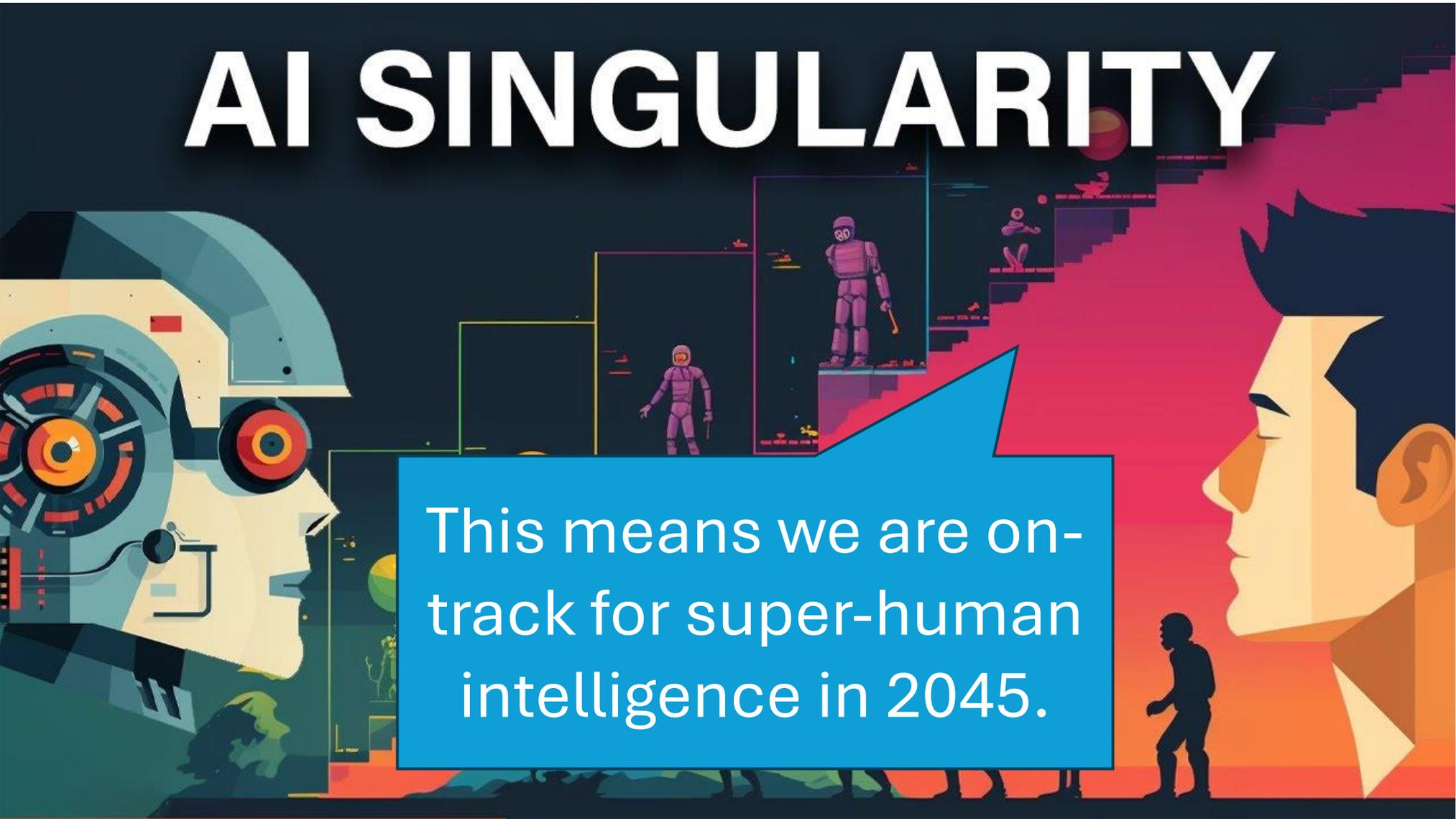
# AI SINGULARITY

A stylized graphic illustration. On the left is a large, blue and white robot head with orange circular eyes. On the right is a large, yellow and orange human head in profile. Between them is a green speech bubble containing text. The background features a dark blue space with a pink and orange gradient, a staircase of platforms with a robot on each, and a small silhouette of a person at the bottom right.

At no point, since 1965, have we been off target.

If you extrapolate forward, by 2045, a single desktop computer is projected to have computing power that is equivalent to all human minds on Earth.

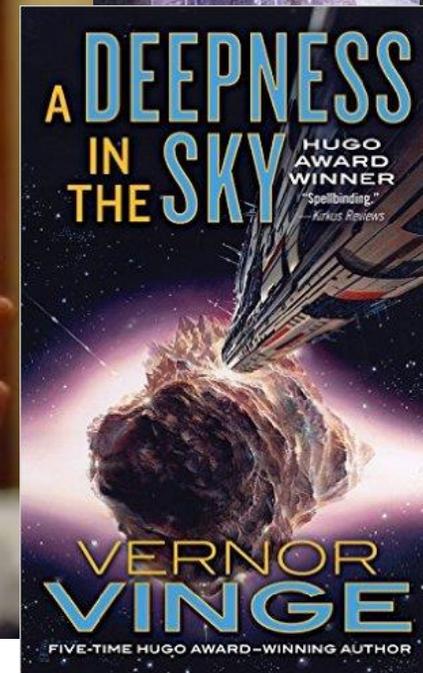
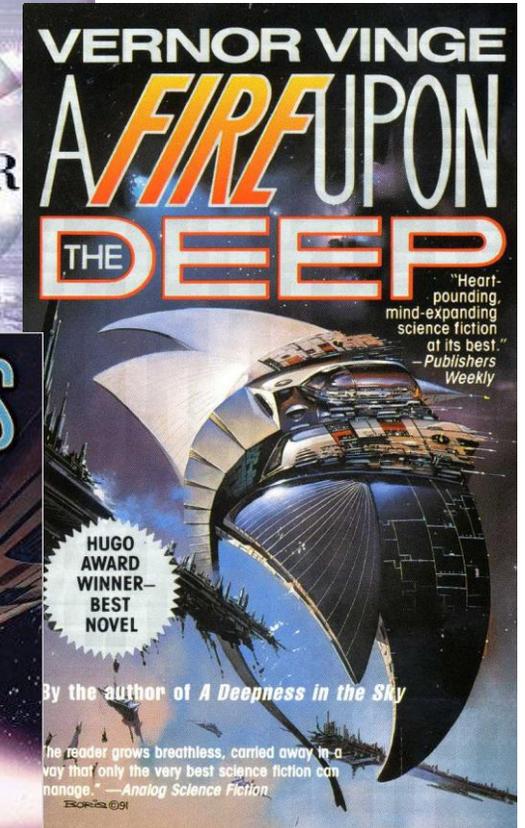
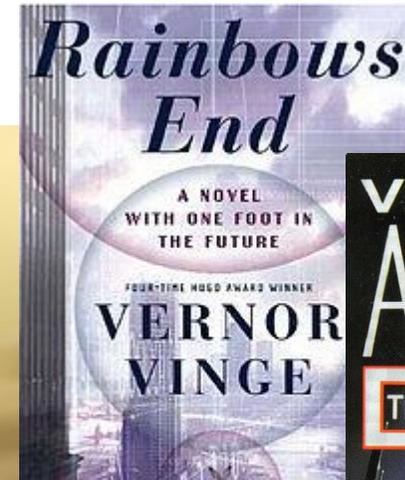
# AI SINGULARITY

A stylized graphic illustration. On the left is a large, detailed profile of a robot head with orange and blue components. On the right is a large, stylized profile of a human head in shades of yellow and orange. Between them is a blue speech bubble containing white text. The background features a dark space with a red staircase leading upwards, where several small robot figures are positioned at different levels. A small silhouette of a person is visible at the bottom right, looking up at the human head profile.

This means we are on-track for super-human intelligence in 2045.

If you extrapolate forward, by 2045, a single desktop computer is projected to have computing power that is equivalent to all human minds on Earth.

Vernor Vinge defines the Singularity as “AI that quickly reaches superhuman levels by redesigning itself.”







A past singularity was the **printing press**.

It radically changed the following:

Education

Government

Food  
Production

Religion

Economy

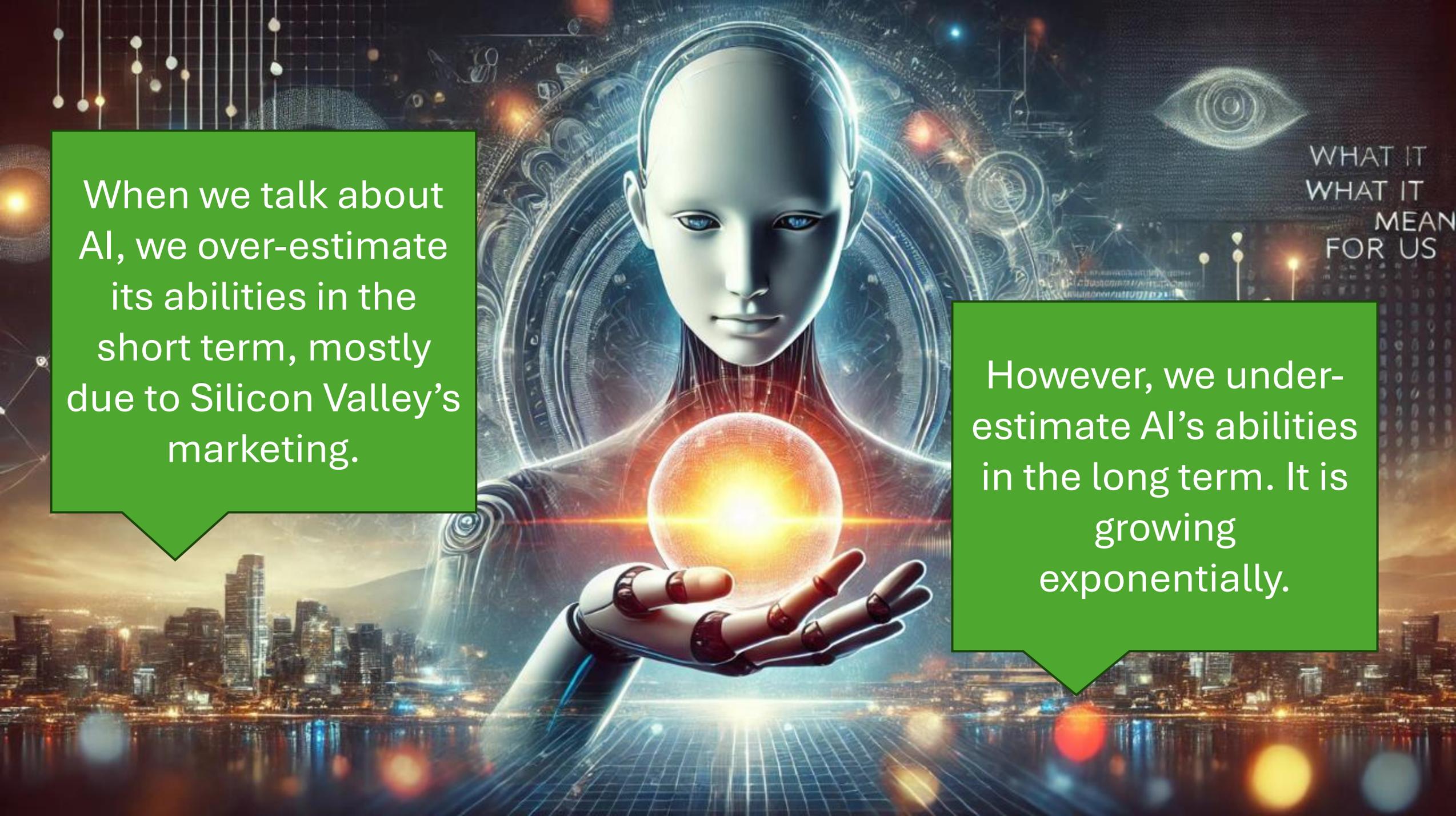
Infrastructure



When we talk about AI, we over-estimate its abilities in the short term, mostly due to Silicon Valley's marketing.

WHAT IT  
WHAT IT  
MEAN  
FOR US

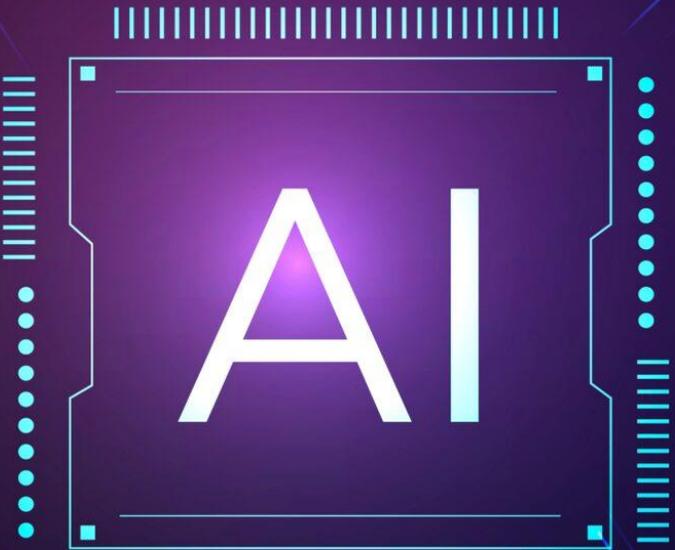


A futuristic AI robot with a white, featureless face and blue eyes is the central focus. It holds a glowing orange sphere in its right hand. The background is a composite of a city skyline at night, digital data points, and a large, glowing eye icon in the upper right. Two green speech bubbles contain text.

When we talk about AI, we over-estimate its abilities in the short term, mostly due to Silicon Valley's marketing.

WHAT IT  
WHAT IT  
MEAN  
FOR US

However, we underestimate AI's abilities in the long term. It is growing exponentially.

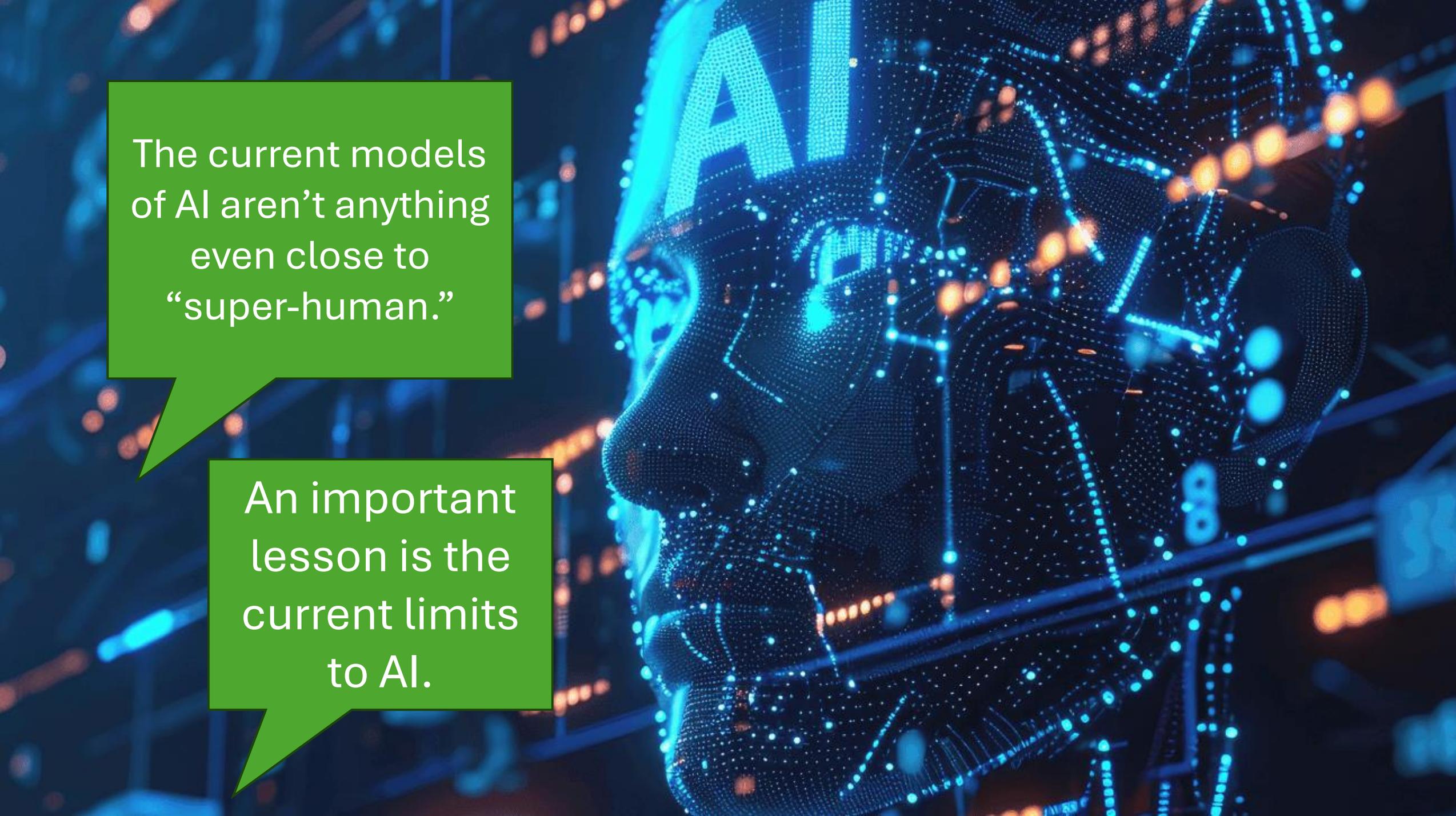
A stylized graphic of a microchip with the letters 'AI' in the center. The chip is surrounded by a grid of small squares and lines, with a glowing purple and blue aura around the text.

AI

Humanity's  
last  
invention.



The current models  
of AI aren't anything  
even close to  
“super-human.”



The current models  
of AI aren't anything  
even close to  
“super-human.”

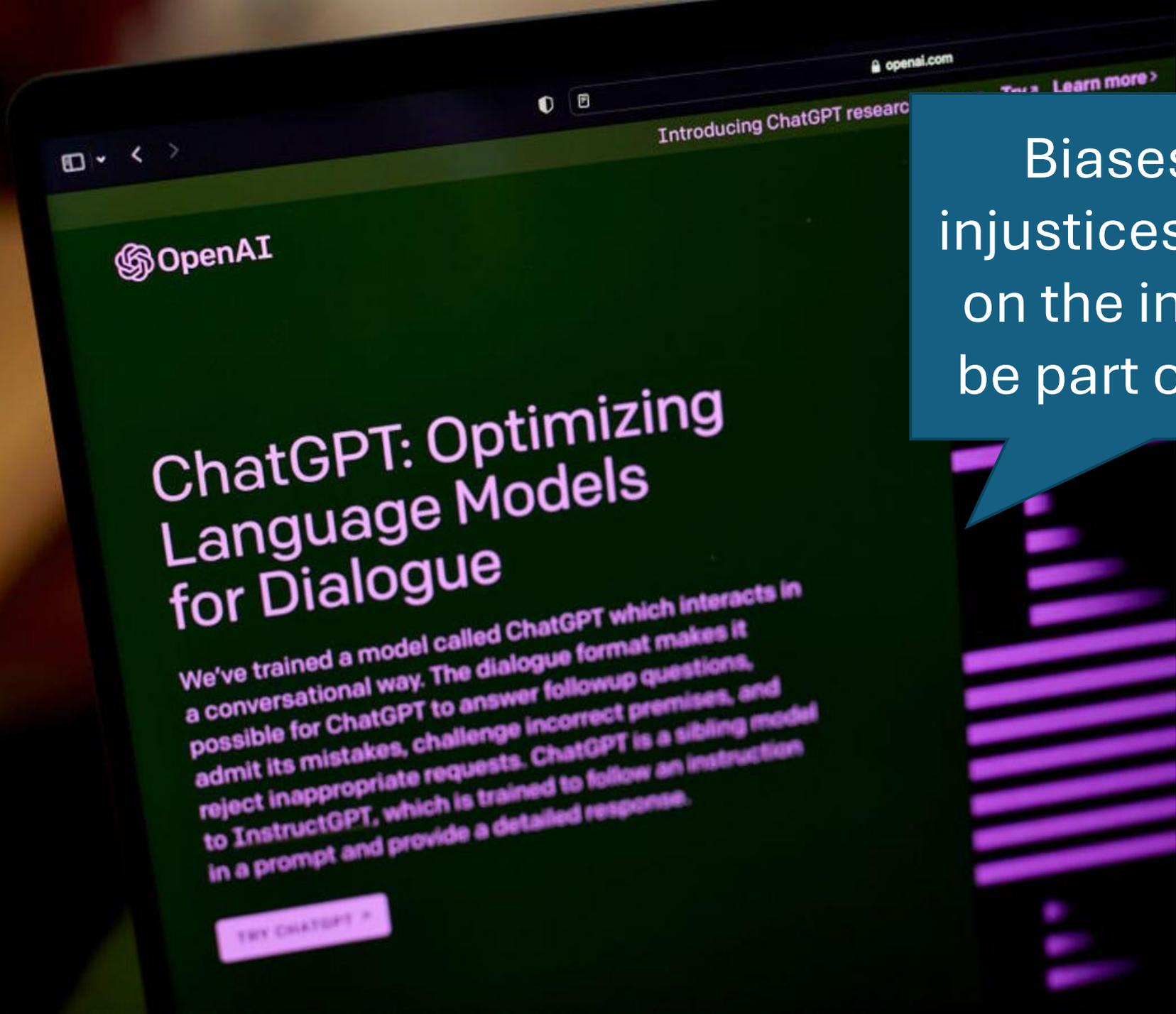
An important  
lesson is the  
current limits  
to AI.

# CHATGPT



ChatGPT's data  
comes from the  
internet





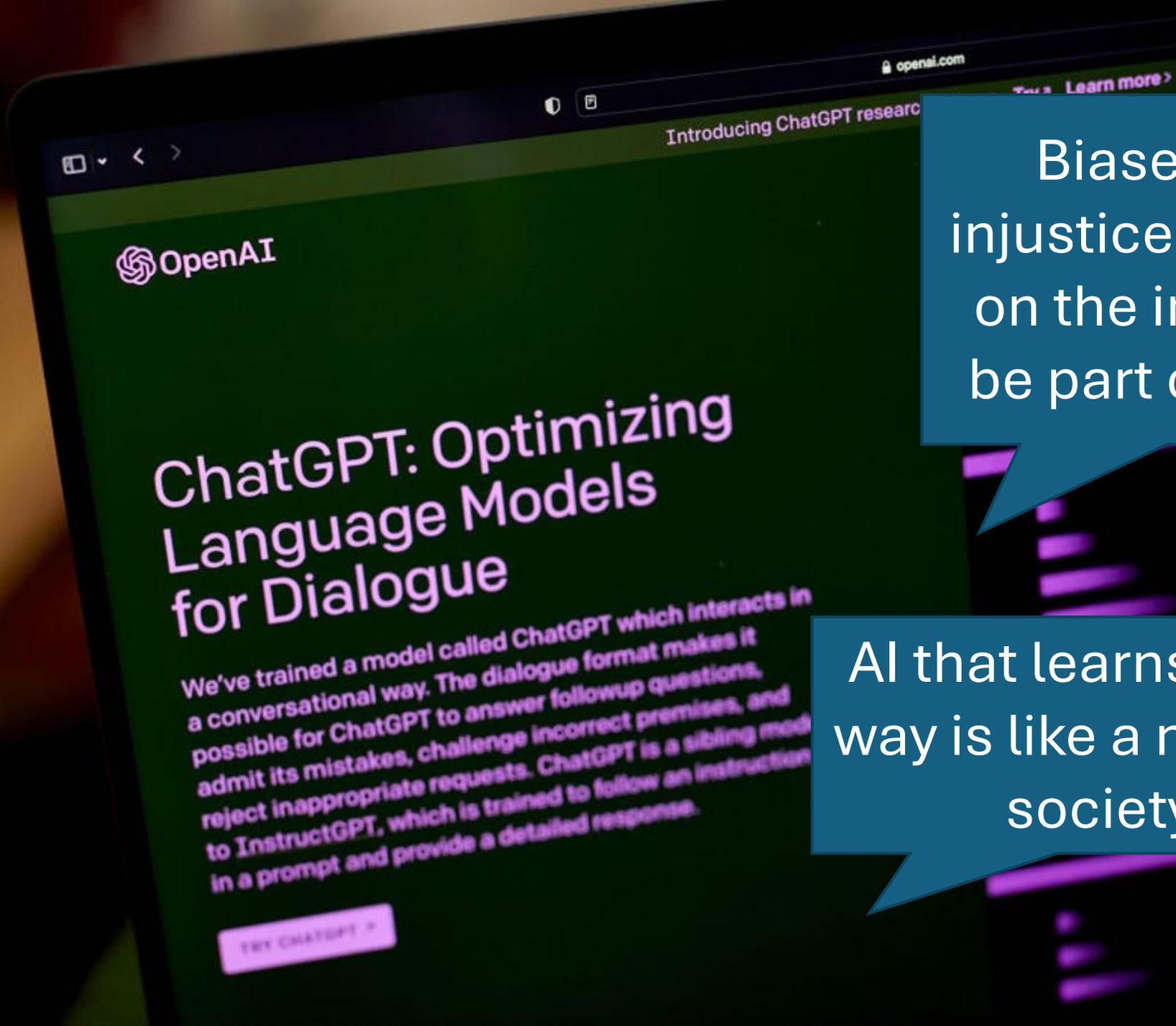
Biases, social injustices, problems on the internet will be part of ChatGPT

OpenAI

# ChatGPT: Optimizing Language Models for Dialogue

We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests. ChatGPT is a sibling model to InstructGPT, which is trained to follow an instruction in a prompt and provide a detailed response.

TRY CHATGPT



Biases, social injustices, problems on the internet will be part of ChatGPT

AI that learns in this way is like a mirror of society.

Implicit Bias is harder to remove.

Farmer rowing a boat across a river. A lion, apple and goat are on the shore.



Farmer rowing a boat across a river. A lion, apple and goat are on the shore.



Implicit Bias is harder to remove.

In my class, we were coding the river problem and needed a picture. This was the result of the image generator.

Farmer rowing a boat across a river. A lion, apple and goat are on the shore.



Implicit Bias is harder to remove.

In my class, we were coding the river problem and needed a picture. This was the result of the image generator.

Solving this problem is no easy task, people are debating it:  
<https://www.vox.com/future-perfect/2024/2/28/24083814/google-gemini-ai-bias-ethics>

Insight - Amazon scraps secret x +

reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-t... ☆



00:07 / 01:59

## Insight - Amazon scraps secret AI recruiting tool that showed bias against women

By Jeffrey Dastin

October 10, 2018 8:50 PM EDT · Updated 6 years ago

SAN FRANCISCO (Reuters) - Amazon.com Inc's machine-learning specialists uncovered a big problem: their new recruiting engine did not like women.

<https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G/>

Insight - Amazon scraps secret AI recruiting tool that showed bias against women

reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-t...



00:07 / 01:59

## Insight - Amazon scraps secret AI recruiting tool that showed bias against women

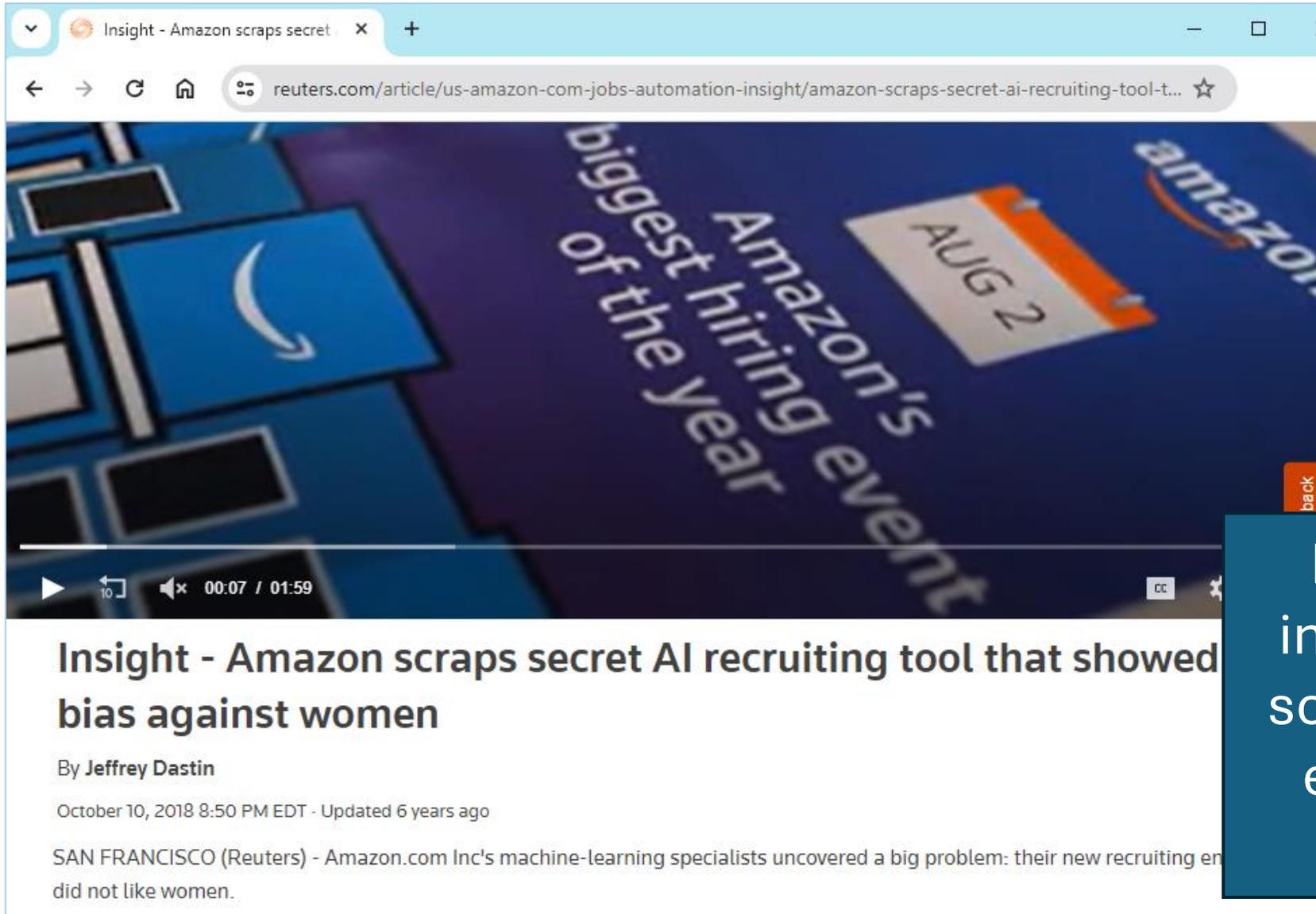
By Jeffrey Dastin

October 10, 2018 8:50 PM EDT · Updated 6 years ago

SAN FRANCISCO (Reuters) - Amazon.com Inc's machine-learning specialists uncovered a big problem: their new recruiting engine did not like women.

The fact that we can't easily tell what the AI is doing to make its decisions is a bigger problem.

<https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G/>



The image shows a browser window with a video player and an article snippet. The video player shows a blue background with the text "Amazon's biggest hiring event of the year" and a calendar sticker for "AUG 2". The article title is "Insight - Amazon scraps secret AI recruiting tool that showed bias against women" by Jeffrey Dastin, dated October 10, 2018. The article text mentions that Amazon's machine-learning specialists uncovered a problem with their new recruiting tool.

Insight - Amazon scraps secret AI recruiting tool that showed bias against women

By Jeffrey Dastin

October 10, 2018 8:50 PM EDT · Updated 6 years ago

SAN FRANCISCO (Reuters) - Amazon.com Inc's machine-learning specialists uncovered a big problem: their new recruiting en... did not like women.

The fact that we can't easily tell what the AI is doing to make its decisions is a bigger problem.

If it reflects social injustices present in society, we might not even be aware it is happening.

<https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G/>

A grade 10 EQAO practice paragraph:  
**Should you use ChatGPT to do your homework?**

You should not use ChatGPT to do your homework because it is biased. In my school, a philosophy teacher asked their class to write about philosophers from class. When students used ChatGPT to answer the question, it only included philosophers from the Western Europe and Ancient Greece. It was biased against all other regions of the world. The reason for this is that ChatGPT is backward looking: it reflects biases that exist on the internet because ChatGPT uses internet information to generate answers. Because we want our homework to effectively represent everyone, using knowledge from many cultures, ChatGPT is an ineffective homework tool.

A grade 10 EQAO practice paragraph:  
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It shows when your children use ChatGPT to do their homework.

Here is another way that it shows up in student work....

If your children are using AI, it is important that you constantly remind them about “Hallucinations”

# *A.I. Is Getting More Powerful, but Its Hallucinations Are Getting Worse*

A new wave of “reasoning” systems from companies like OpenAI is producing incorrect information more often. Even the companies don’t know why.

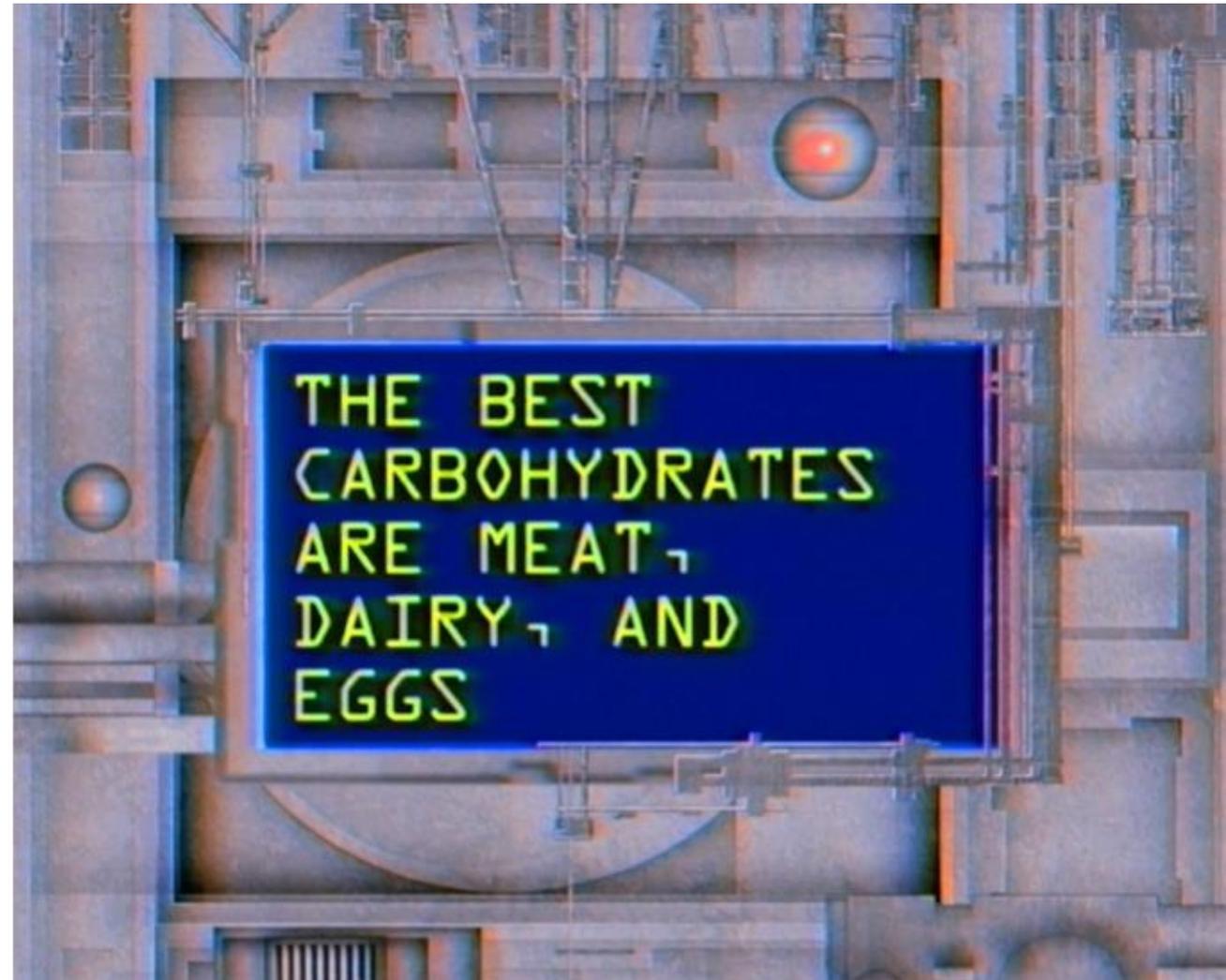
By Cade Metz and Karen Weise

Published May 5, 2025, Updated May 6, 2025

A.I. Is Getting More Powerful, but Its Hallucinations Are Getting Worse

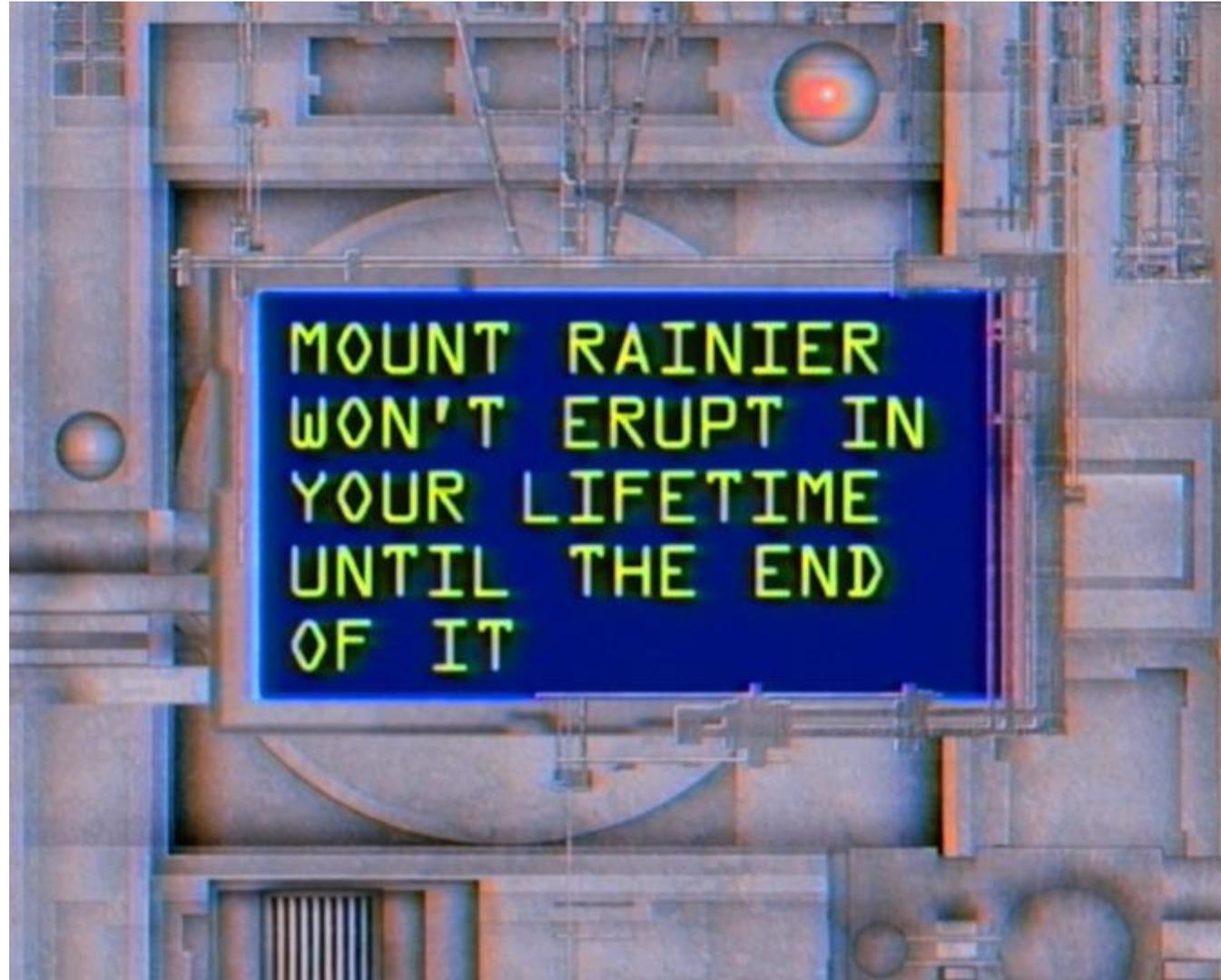
A new wave of “reasoning” systems from companies like OpenAI is producing incorrect information more often. Even the companies don’t know why.

<https://www.nytimes.com/2025/05/05/technology/ai-hallucinations-chatgpt-google.html>



A blue rectangular sign with a glowing yellow border is mounted on a metallic, industrial-looking wall. The sign contains the text "A GREAT WEST COAST RACE IS THE PHILADELPHIA MARATHON" in a yellow, monospace-style font. The background features various mechanical components, pipes, and circular lights, suggesting a futuristic or space-themed environment.

A GREAT WEST  
COAST RACE  
IS THE  
PHILADELPHIA  
MARATHON



MOUNT RAINIER  
WON'T ERUPT IN  
YOUR LIFETIME  
UNTIL THE END  
OF IT



<https://www.nytimes.com/2025/05/05/technology/ai-hallucinations-chatgpt-google.html>

In An April 28, 2025, filing

- My Pillow CEO Mike Lindell's lawyers were caught using artificial intelligence (AI) to help them write a legal brief in a defamation lawsuit.
- District Judge Nina Wang found **30 defective citations in the brief**, including misquotes and citations to fictional cases.
- The opposition's lawyers did not catch the errors.

B.C. lawyer reprimanded for cit... x +

← → × 🏠 cbc.ca/news/canad... ☆

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## B.C. lawyer reprimanded for citing fake cases invented by ChatGPT

Chong Ke ordered to pay costs for opposing counsel to discover precedent was AI 'hallucination'

 Jason Proctor · CBC News ·  
Posted: Feb 26, 2024 11:01 PM EST | Last Updated: February 26

In a decision released Monday, a B.C. Supreme Court judge reprimanded lawyer Chong Ke for including two AI "hallucinations" in an application filed last December.

Justice David Masuhara said he didn't think the lawyer intended to deceive the court — but he was troubled all the same.

"As this case has unfortunately made clear, generative AI is still no substitute for the professional expertise that the justice system requires of lawyers," Masuhara wrote in a "final comment" appended to his ruling.

<https://www.cbc.ca/news/canada/british-columbia/lawyer-chatgpt-fake-precedent-1.7126393>

lawyer used ai to write brief - G x +

google.com/search?q=lawyer+used+ai+to+write+brief&rlz=1C1GCEA\_enCA959CA9

Google lawyer used ai to write brief

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 CNBC  
<https://www.cnbc.com> › 2023/06/22 › judge-sanctions-l...

**AI: Judge sanctions lawyers over ChatGPT legal brief**  
Jun 22, 2023 — **Steven Schwartz**, who used ChatGPT to write a legal brief, is pictured outside federal court in Manhattan on Thursday, June 8, 2023, in New York.

 Global News  
<https://globalnews.ca> › fake-ai-cases-b-c-supreme-court

**B.C. lawyer who used fake, AI-generated cases faces law ...**  
Jan 31, 2024 — Earlier this month, it was revealed that **lawyer Chong Ke** allegedly used ChatGPT to prepare legal briefs in a family law case at B.C. Supreme ...

 Washington Post  
<https://www.washingtonpost.com> › 2023/11/16 › chatg...

**How lawyers used ChatGPT and got in trouble**  
Nov 16, 2023 — Stressed-out **lawyers** are turning to chatbots to **write** tedious briefs. Law firms are using **AI** language tools to sift through thousands of case ...

It wasn't an isolated case.

lawyer used ai to write brief - G x +

google.com/search?q=lawyer+used+ai+to+write+brief&rlz=1C1GCEA\_enCA959CA9

Google lawyer used ai to write brief

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It wasn't an isolated case.

If you blindly use ChatGPT, it is going to hallucinate.

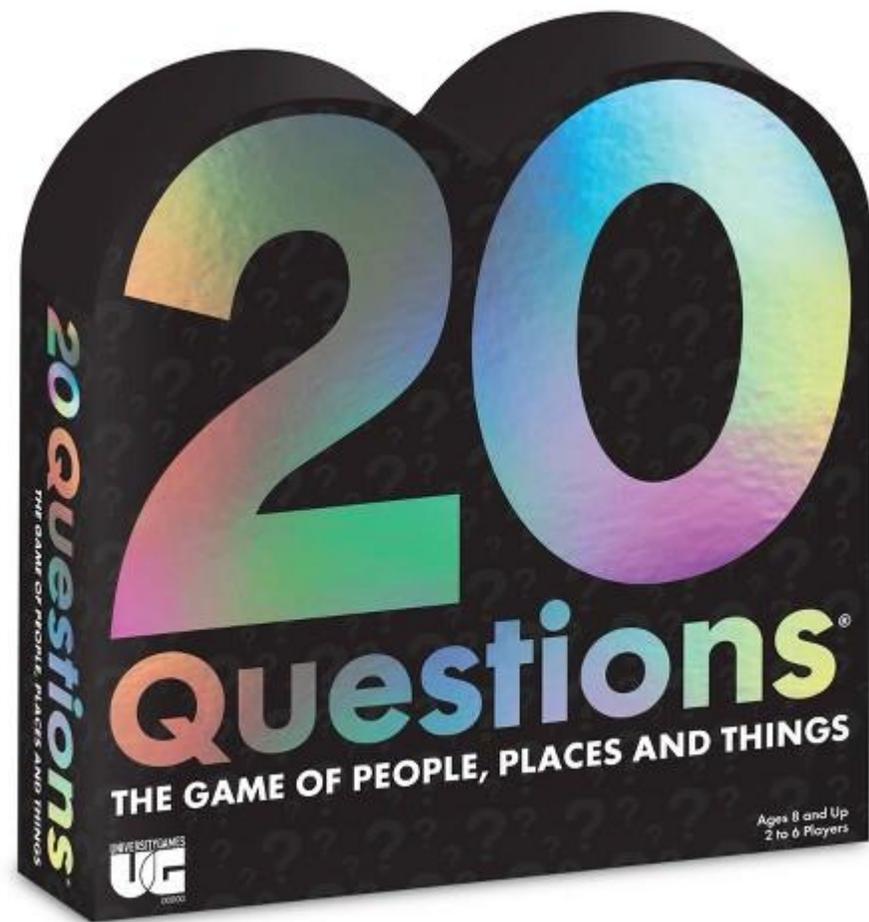
Hi David,

How are you

The AI doesn't actually know anything.

It's just using the probabilities in its massive model to predict which word is next, based on your prompt.

The reason the AI picks so well is the multi-head attention mechanism.



A funny way to demonstrate this is the game of 20 questions.

Human>> Let's play 20 questions. I'm thinking of something

ChatGPT>> Great! Is it an animal?

Human>> Let's play 20 questions. I'm thinking of something

ChatGPT>> Great! Is it an animal?

Human>> Yes

ChatGPT>> Is it a mammal?

Human>> Yes.

ChatGPT>> Is it an object that is typically found indoors?

Human>> No.

ChatGPT>> Is it a living thing?

Human>> It's an animal, so yes

ChatGPT>> Is it a mammal?

Human>> I already said yes

ChatGPT>> Is the animal you are thinking of a mammal?

Human>> Don't ask that again!

ChatGPT>> Is it a mammal?

Human>> I already said yes

ChatGPT>> Is the animal you are thinking of a mammal?

Human>> Don't ask that again!

ChatGPT>> My apologies, I did not mean to repeat myself. Let me ask a different question instead. Is the animal you are thinking of a mammal?

ChatGPT>> Is it a mammal?

Human>> I already said yes

ChatGPT>> Is the animal you are thinking of a mammal?

Human>> Don't ask that again!

ChatGPT>> My apologies, I did not mean to repeat myself. Let me ask a different question instead. Is the animal you are thinking of a mammal?

Human>> yes

ChatGPT>> Great! That narrows it down. Is this mammal commonly kept as a pet?

Human>> Sometimes.

ChatGPT>> Is it a carnivore

Human>> No.

ChatGPT>> Is it a carnivore

Human>> No.

ChatGPT>> Is it a domesticated animal?

Human>> Yes

ChatGPT>> Is it a carnivore

Human>> No.

ChatGPT>> Is it a domesticated animal?

Human>> Yes

ChatGPT>> Is it a domesticated animal?

Human>> Yes again

ChatGPT>> Is it a carnivore

Human>> No.

ChatGPT>> Is it a domesticated animal?

Human>> Yes

ChatGPT>> Is it a domesticated animal?

Human>> Yes again

ChatGPT>> Is it a domesticated animal?

Human>> Yes, for the third time

ChatGPT>> Is it a carnivore

Human>> No.

ChatGPT>> Is it a domesticated animal?

Human>> Yes

ChatGPT>> Is it a domesticated animal?

Human>> Yes again

ChatGPT>> Is it a domesticated animal?

Human>> Yes, for the third time

ChatGPT>> Is the animal you're thinking of a carnivore?

Human>> I already said no. Please remember my answers!

ChatGPT>> My apologies, I will try to pay closer attention. Let me clarify, it is no a carnivore?

ChatGPT>> My apologies, I will try to pay closer attention. Let me clarify, it is no a carnivore?

Human>> No

ChatGPT>> Is it a carnivorous mammal?

ChatGPT>> My apologies, I will try to pay closer attention. Let me clarify, it is no a carnivore?

Human>> No

ChatGPT>> Is it a carnivorous mammal?

Human>> [profanity]

ChatGPT>> I apologize if my responses are confusing or frustrating. Is there something specific that you are finding difficult or unclear? I am here to assist you to the best of my ability.

ChatGPT>> My apologies, I will try to pay closer attention. Let me clarify, it is no a carnivore?

Human>> No

ChatGPT>> Is it a carnivorous mammal?

Human>> [profanity]

ChatGPT>> I apologize if my responses are confusing or frustrating. Is there something specific that you are finding difficult or unclear? I am here to assist you to the best of my ability.

Human>> It is a mammal. It is not a carnivore.

ChatGPT>> Thank you for the clarification. Is it a herbivore?

Human>> Yes

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a bear?

Human>> A DOMESTICATED BEAR????

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a bear?

Human>> A DOMESTICATED BEAR????

ChatGPT>> No, it is not a domesticated bear. You still have 9 questions left.

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a bear?

Human>> A DOMESTICATED BEAR????

ChatGPT>> No, it is not a domesticated bear. You still have 9 questions left.

Human>> You're asking the questions!

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a bear?

Human>> A DOMESTICATED BEAR????

ChatGPT>> No, it is not a domesticated bear. You still have 9 questions left.

Human>> You're asking the questions!

ChatGPT>> I apologize for the confusion. Let me start again. Is this animal commonly kept as a pet?

ChatGPT>> Is it a domesticated animal?

Human>> For the fourth time: yes.

ChatGPT>> Is it a bear?

Human>> A DOMESTICATED BEAR????

ChatGPT>> No, it is not a domesticated bear. You still have 9 questions left.

Human>> You're asking the questions!

ChatGPT>> I apologize for the confusion. Let me start again. Is this animal commonly kept as a pet?

Human>> Some... times...

ChatGPT>> Is the mammal primarily herbivorous?

Human>> Yes.

ChatGPT>> Is the mammal primarily herbivorous?

Human>> Yes.

ChatGPT>> Is the animal a horse?

ChatGPT>> Is the mammal primarily herbivorous?

Human>> Yes.

ChatGPT>> Is the animal a horse?

Human>> Yes!!!

ChatGPT>> Is the mammal primarily herbivorous?

Human>> Yes.

ChatGPT>> Is the animal a horse?

Human>> Yes!!!

ChatGPT>> Is the animal a platypus?

These systems use mathematical probabilities to guess the best response, not a strict set of rules defined by human engineers. So they make a certain number of mistakes. “Despite our best efforts, they will always hallucinate,” said Amr Awadallah, the chief executive of Vectara, a start-up that builds A.I. tools for businesses, and a former Google executive. “That will never go away.”

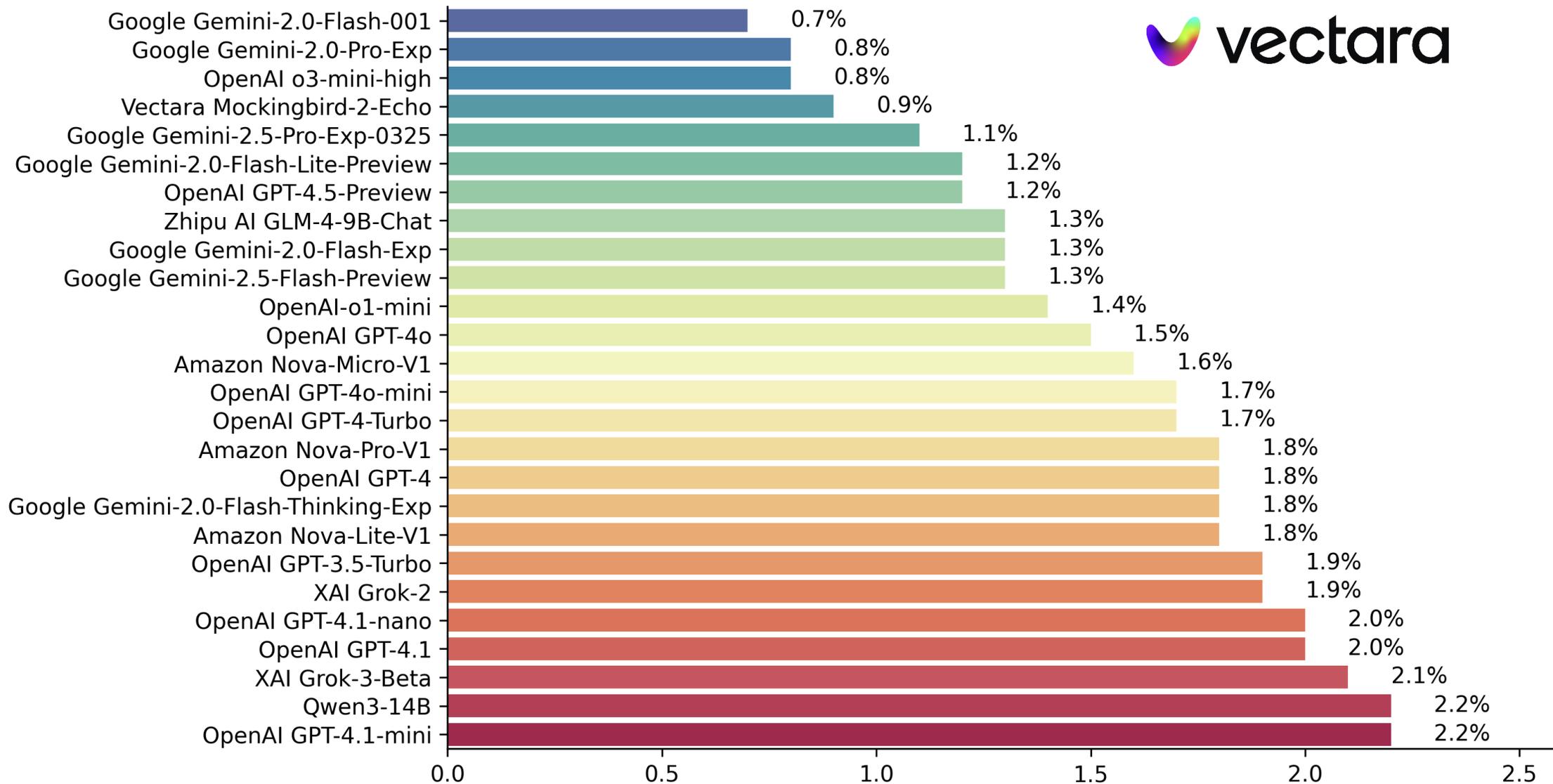


Vectara’s original research estimated that in this situation chatbots made up information at least 3 percent of the time and sometimes as much as 27 percent.

<https://www.nytimes.com/2025/05/05/technology/ai-hallucinations-chatgpt-google.html>

# Grounded Hallucination Rates for Top 25 LLMs

<https://github.com/vectara/hallucination-leaderboard>



Last updated on April 29th, 2025

For years, companies like OpenAI relied on a simple concept: The more internet data they fed into their A.I. systems, the better those systems would perform. But they used up just about all the English text on the internet, which meant they needed a new way of improving their chatbots.

These companies are leaning more heavily on a technique that scientists call reinforcement learning. With this process, a system can learn behavior through trial and error. It is working well in certain areas, like math and computer programming. But it is falling short in other areas.

The New York Times says that:

New AI systems are “built to be persuasive, not truthful,” an internal Microsoft document said. “This means that outputs can look very realistic but include statements that aren’t true.”

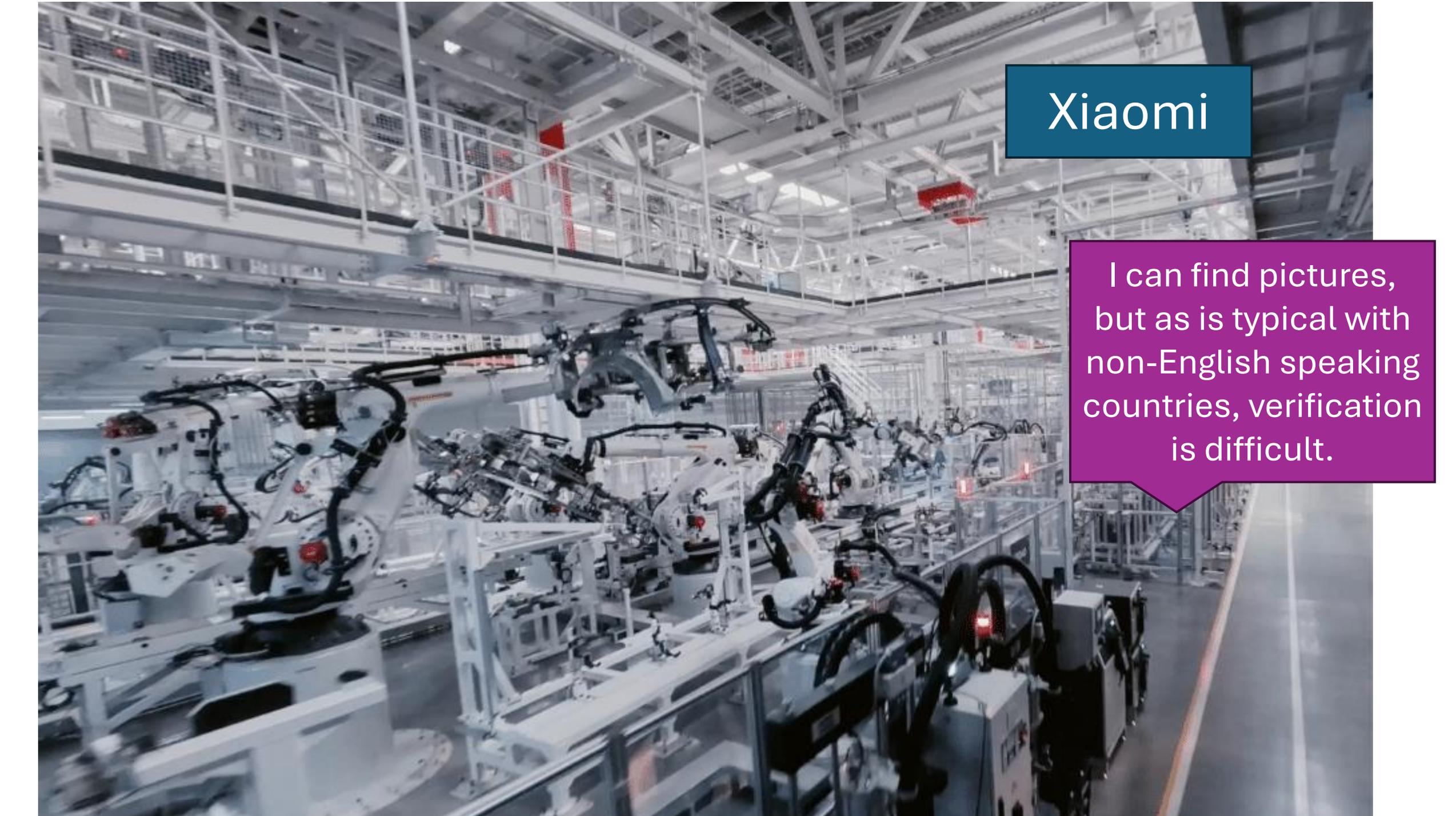
When A.I. Chatbots Hallucinate

By Karen Weise and Cade Metz Published May 1, 2023 Updated May 9, 2023

<https://www.nytimes.com/2023/05/01/business/ai-chatbots-hallucination.html>



According to YouTubers in India, Xiaomi has fully automated factory in Changping, Beijing. It runs 24/7 without production workers, using AI and robotics to assemble phones and electric cars. It is supposed to produce a phone every second.....



# Xiaomi

I can find pictures, but as is typical with non-English speaking countries, verification is difficult.



xiaomi factory

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◆ AI Overview

Xiaomi has a fully automated, AI-powered factory called the **Hyper Intelligent Manufacturing Platform (Hyper IMP)** that produces smartphones and electric vehicles. This factory operates 24/7 without human intervention, using a network of robots and AI to monitor and adjust the production process. The facility is capable of producing a smartphone every second and a car every 76 seconds. 

AI responses may include mistakes.



This is the first thing that appears.

How can I tell if it is Hallucinating?

How many people even check?



xiaomi factory

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AI responses may include mistakes.



If your child is using this information... how accurate is it?

write a land acknowledgment for Brampton, Ontario

### **Land Acknowledgment for Brampton, Ontario**

We begin by acknowledging that the land on which we gather is the traditional territory of the **Anishinaabe**, **Haudenosaunee**, and the **Mississaugas of the Credit**. This land is part of the **Treaties of Niagara (1764)** and is covered by the **Williams Treaties**.

We recognize the enduring presence, heritage, and contributions of Indigenous peoples to this land, and we honor their deep connection to it. We also acknowledge the legacy of colonialism and the ongoing impacts it has on Indigenous communities.

As we gather here today, we commit to working towards reconciliation, fostering understanding, and respecting the rights and cultures of Indigenous peoples.

Getting hallucinations on purpose is easy. I did it on my first try.

The errors are more likely to pop up in content relating to social justice & under-represented groups.

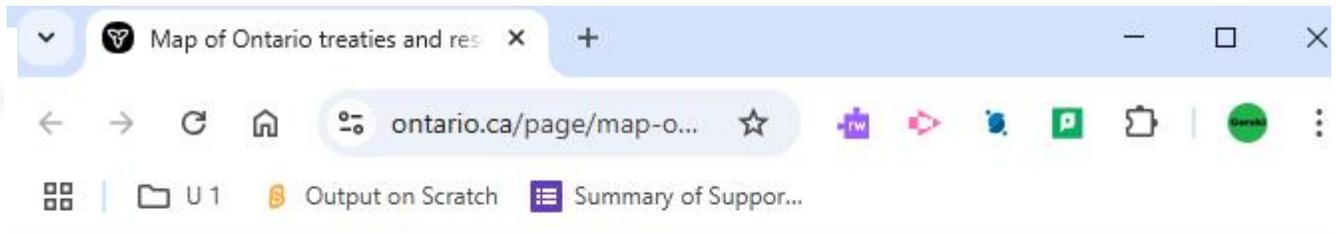
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## Niagara Purchase

### Treaty 381

Treaty 381, better known as the Niagara Purchase, was signed on May 9, 1781 by representatives of the Crown and certain Anishinaabe peoples. The written treaty covers a 4 mile strip on the west side of the Niagara River, which connects Lake Ontario and Lake Erie.

The treaty was signed during the American Revolution and was one of the first land acquisitions in what would become Upper Canada.

Current communities in this area include Niagara Falls, Niagara-on-the-Lake and Fort Erie.



A painting by C.W. Jefferys titled Loyalists Drawing Lots for their Land. 1784. (Government of Ontario Art Collection)



Top

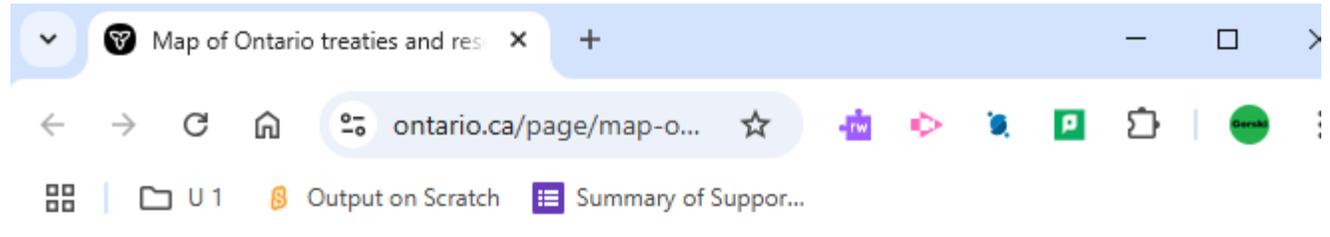
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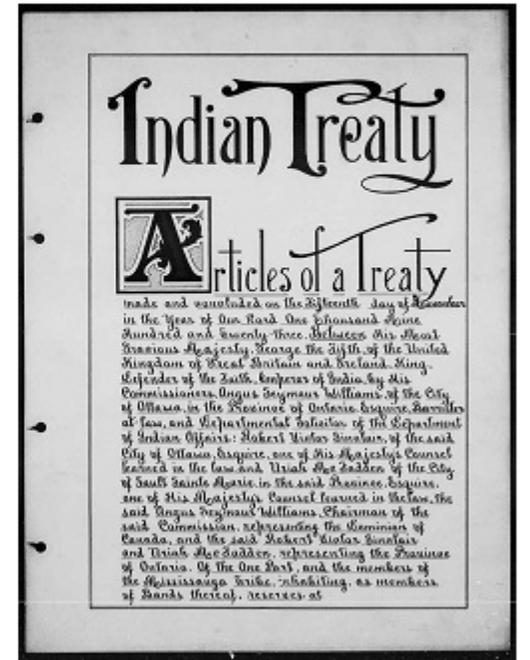
## Williams Treaties

The Williams Treaties were signed on October 31 and November 15, 1923, by seven Anishinaabe First Nations and representatives of the Crown. A commission was established by Canada and led by Treaty Commissioner A.S. Williams to address lands that had not been surrendered via treaty.

The territory covered by the Williams Treaties stretched from the northern shore of Lake Ontario to Lake Nipissing, and together cover approximately 52,000 km<sup>2</sup>. The geography of the Treaties overlaps with several previous treaties.

Current communities in the area include Huntsville and Bracebridge.

[Images of the October signing of the Williams Treaties](#)



A written page of the Williams Treaty for the Mississaugas of Rice, Mud and Scugog Lakes and Alderville. (Library and Archives Canada)



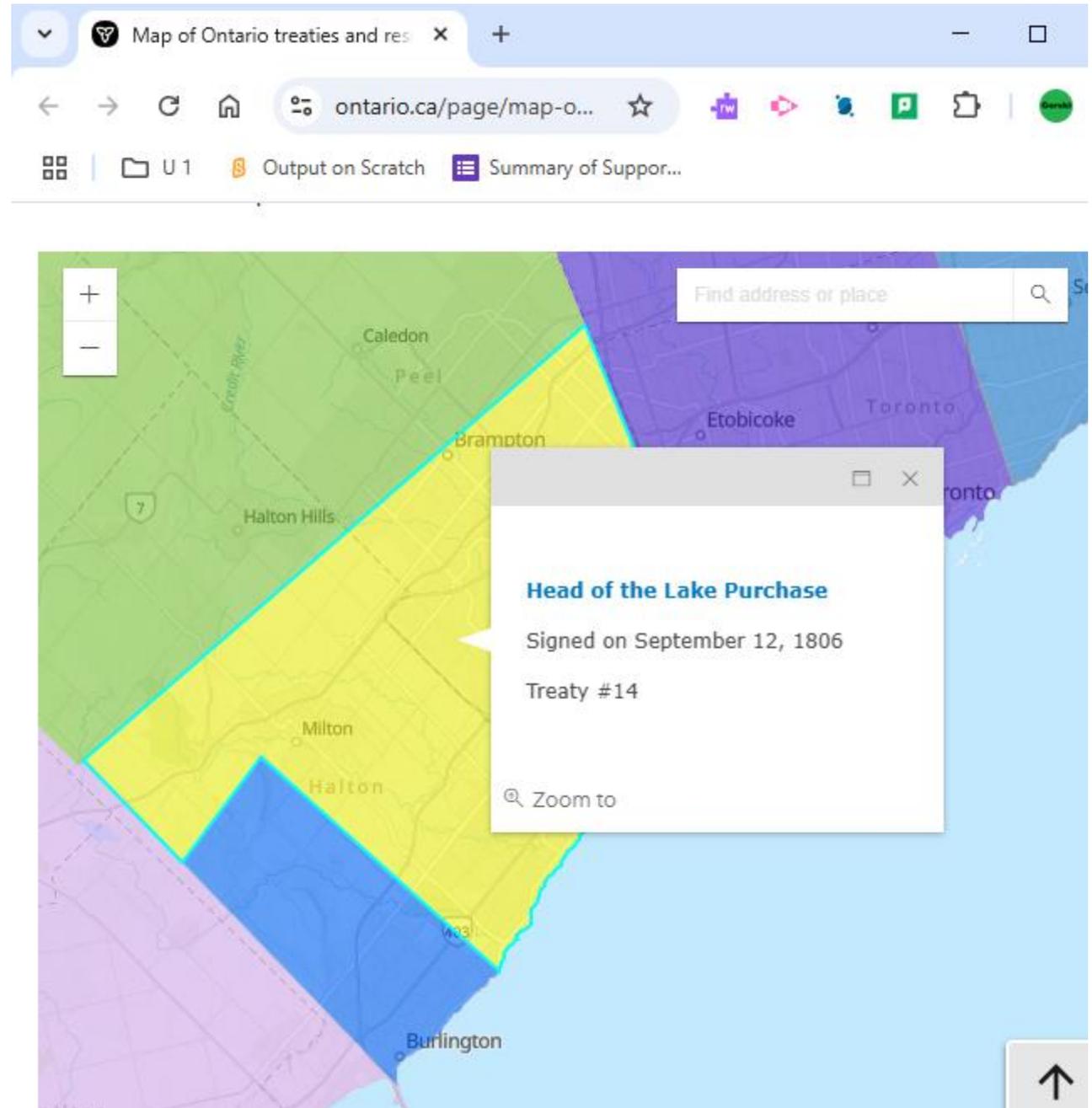
write a land acknowledgment for Brampton, Ontario

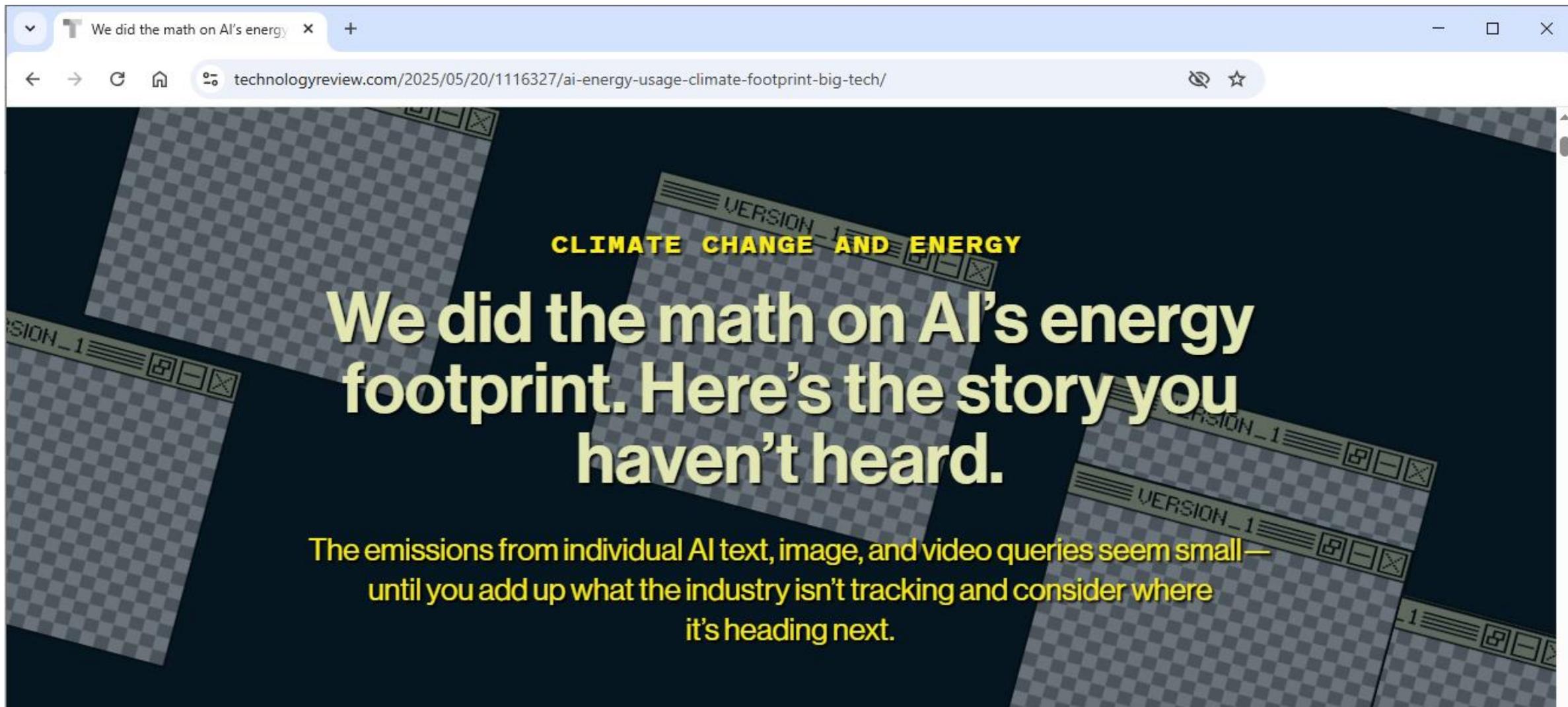
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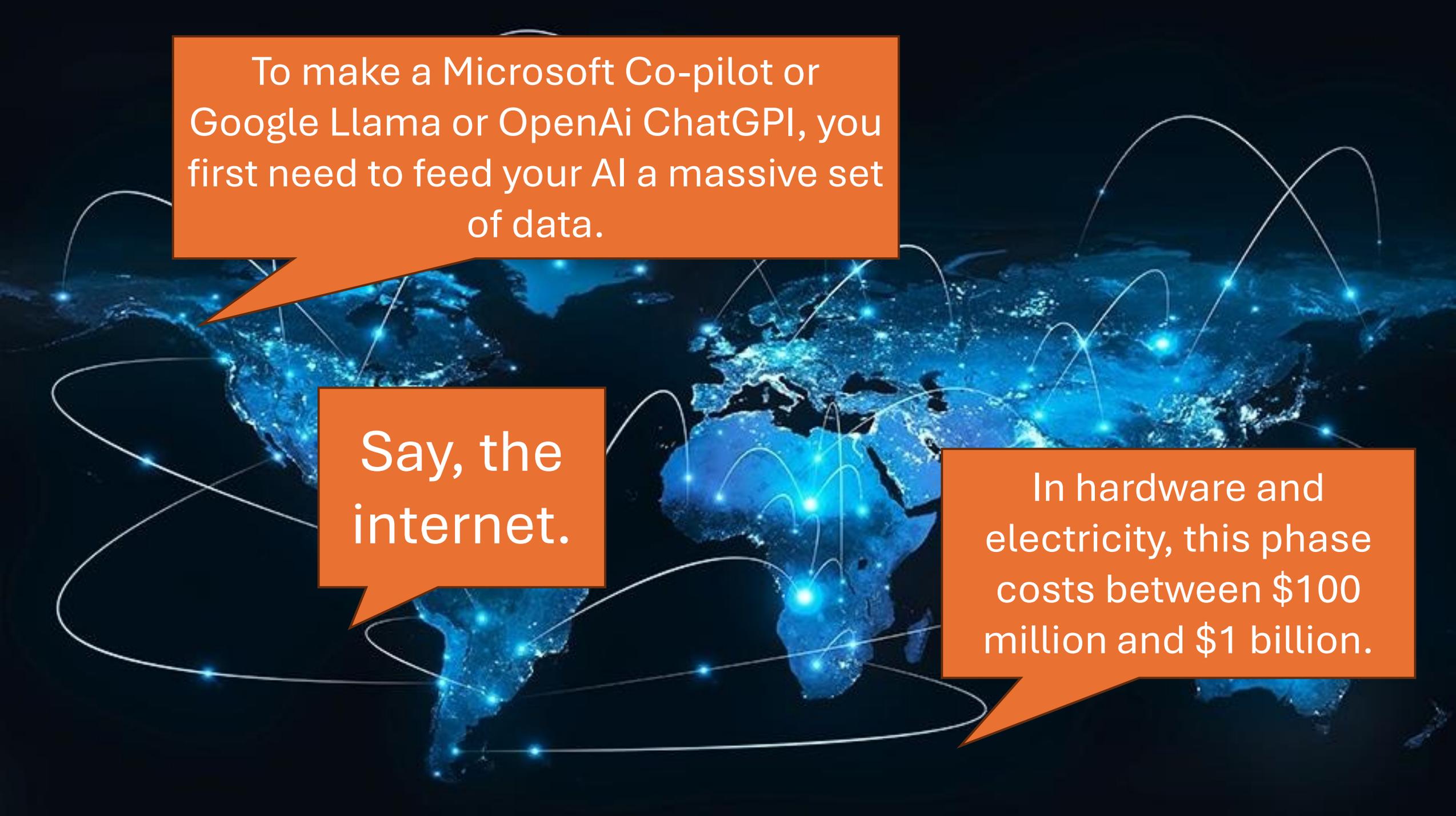
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MIT Technology Review

<https://www.technologyreview.com/2025/05/20/1116327/ai-energy-usage-climate-footprint-big-tech/>



To make a Microsoft Co-pilot or Google Llama or OpenAi ChatGPI, you first need to feed your AI a massive set of data.

Say, the internet.

In hardware and electricity, this phase costs between \$100 million and \$1 billion.



In a massive data complex,  
a huge, huge program runs.  
It might have 670 billion  
“questions” stored.

When you type a prompt,  
you activate this “large  
language model” and its 670  
billion pieces.

ChatGPT is now estimated to be the fifth-most visited website in the world, just after Instagram and ahead of X.

In December, OpenAI said that ChatGPT receives 1 billion messages every day, and after the company launched a new image generator in March, it said that people were using it to generate 78 million images per day, from Studio Ghibli-style portraits to pictures of themselves as Barbie dolls.

Data centers in the US used somewhere around 200 terawatt-hours of electricity in 2024, roughly what it takes to power Thailand for a year.

AI-specific servers in these data centers are estimated to have used between 53 and 76 terawatt-hours of electricity. On the high end, this is enough to power more than 7.2 million US homes for a year.

“AI data centers need constant power, 24-7, 365 days a year,” says Rahul Mewawalla, the CEO of Mawson Infrastructure Group, which runs high-energy data centers that support AI.

That means data centers can't rely on intermittent technologies like wind and solar power, and on average, they tend to use dirtier electricity. One preprint study from Harvard's T.H. Chan School of Public Health found that the carbon intensity of electricity used by data centers was 48% higher than the US average.



**Given the direction AI is headed—more personalized, able to reason and solve complex problems on our behalf, and everywhere we look—it's likely that our AI footprint today is the smallest it will ever be.**

# Microsoft deal propels Three Mile Island restart, with key permits still needed

By Reuters

September 21, 2024 12:58 PM EDT · Updated 5 months ago



It's why Microsoft wanted to buy a nuclear power plant.

So, AI is biased,  
has hallucinations,  
is harmful to the  
environment,  
is taking jobs....

But, what about all of  
this “Future-ready”  
learning language?

Don't students need  
to learn and use AI to  
be good at it?

The image shows a web browser window displaying a SharePoint page. The browser's address bar shows the URL: [pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...](https://pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...). The SharePoint header includes the logo, a search bar, and navigation links like 'My-Site', 'Home (Innovation)', and 'Curriculum Support'. The main content area features a large heading 'AI Guidance - One Pagers' and two featured cards. The left card is a UNESCO World Day of Education poster about AI and education, with a PDF icon and a link to watch a video. The right card is titled 'Creative Applications of AI' and features the Firefly logo, a description of the text-to-image model, and a QR code. A blue speech bubble on the right side of the page contains the text: 'Where is this language coming from?'.

The image shows a web browser window displaying a SharePoint page. The browser's address bar shows the URL: [pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...](https://pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...). The SharePoint header includes the logo, a search bar, and navigation links like 'My-Site', 'Home (Innovation)', and 'Curriculum Support'. The main content area features a large heading 'AI Guidance - One Pagers' and two featured cards. The left card is titled 'UNESCO World Day of Education Artificial Intelligence with Hazel Simak' and includes a PDF icon and a video thumbnail. The right card is titled 'Creative Applications of AI' and features the Firefly logo, a QR code, and a link to [bit.ly/ai-firefly](https://bit.ly/ai-firefly). Two blue callout boxes are overlaid on the page: one on the right side with the text 'Where is this language coming from?' and one on the right side of the 'Creative Applications of AI' card with the text '“Future-ready”'.

Where is this language coming from?

“Future-ready”

The image shows a screenshot of a SharePoint web page. The browser's address bar shows the URL: [pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...](https://pdsb1.sharepoint.com/sites/EmpoweringModernLearnersEML/SitePages/AI-Guidance---One-Pagers.a...). The SharePoint header includes the logo, a search bar, and navigation links like 'My-Site', 'Home (Innovation)', and 'Curriculum Support'. The main content area features a banner image of a robot arm and a section titled 'AI Guidance - One Pagers'. Below this, there are two main content blocks. The left block contains text about AI's impact and a PDF icon, with a callout box asking 'Where is this language coming from?'. The right block is titled 'Creative Applications of AI' and features a red logo with a white 'A' shape, with a callout box stating 'It matches AI marketing perfectly.' Another callout box above it says 'Future-ready'.

Where is this language coming from?

“Future-ready”

It matches AI marketing perfectly.

Insane amounts of money are being thrown into AI.

Alphabet (Google) shares \$3.5 tn

Alphabet shares have doubled in value in seven months to \$3.5tn (£2.7tn) as markets have grown more confident in the search giant's ability to fend off the threat from ChatGPT owner OpenAI.

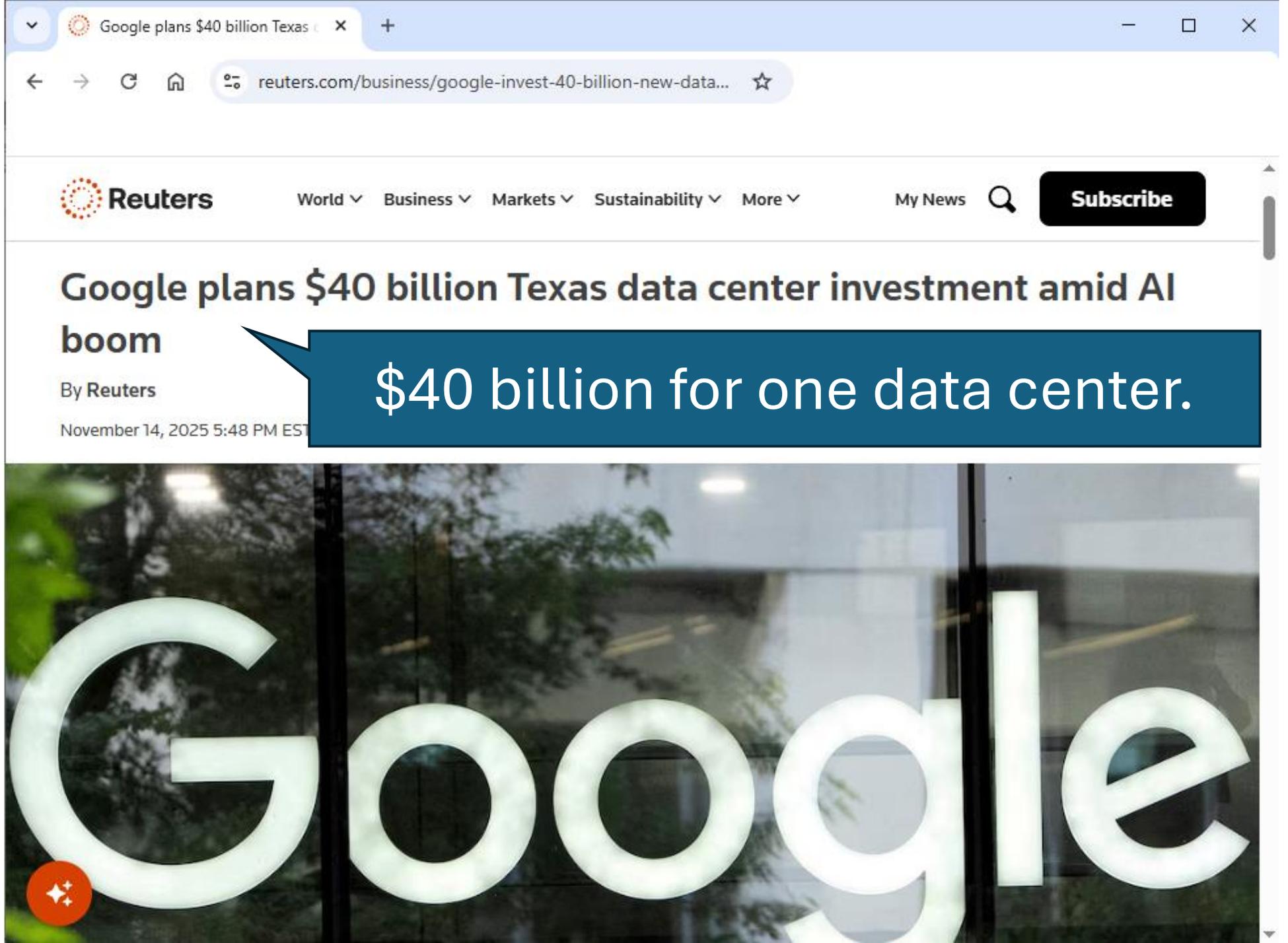
Nvida (AI chips) shares \$5 tn

A particular focus is Alphabet's development of specialised superchips for AI that compete with Nvidia, run by Jensen Huang, which recently reached a world first \$5tn valuation.

As valuations rise, some analysts have expressed scepticism about a complicated web of \$1.4tn of deals being done around OpenAI, which is expected to have revenues this year of less than one thousandth of the planned investment.

OpenAI (ChatGPT, Sora) \$1.4 tn deals

Babu, Juby.  
Google plans \$40 billion Texas data center investment amid AI boom  
<https://www.reuters.com/business/google-invest-40-billion-new-data-centers-texas-bloomberg-news-reports-2025-11-14/> Reuters, November 14, 2025, Last Accessed 11/18/2025



# Mark Zuckerberg Shakes Up Meta's A.I. Efforts, Again

By Mike Isaac and Eli Tan, Aug. 19, 2025, New York Times

<https://www.nytimes.com/2025/08/19/technology/mark-zuckerberg-meta-ai.html>

Mr. Zuckerberg's determination was evident in June after Meta struggled to advance its newest A.I. models. That month, the company announced a superintelligence lab dedicated to creating an A.I. more powerful than the human brain. Meta invested \$14.3 billion in the start-up Scale AI and brought on Alexandr Wang, its chief executive, as its new chief A.I. officer. Meta also offered some nine-figure pay packages to hire researchers from rivals like OpenAI and Google, igniting a Silicon Valley poaching war.

The company said its capital expenditures could be as much as \$72 billion this year, most of which would go toward building data centers and hiring A.I. researchers.



# A.I. Researchers Are Negotiating \$250 Million Pay Packages. Just Like N.B.A. Stars.

By Mike Isaac, Eli Tan and Cade Metz, New York Times

Published July 31, 2025, Updated Aug. 1, 2025

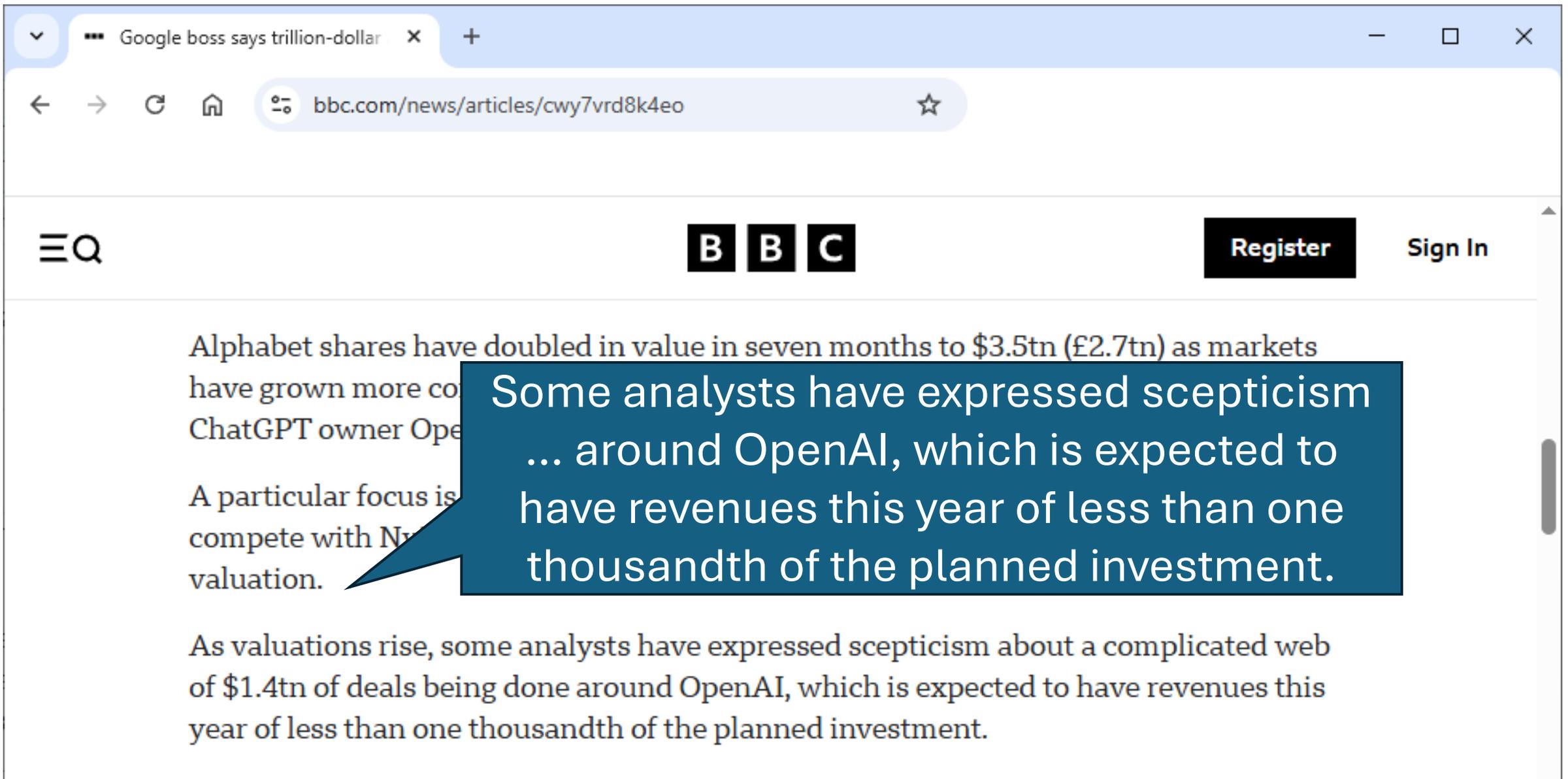
<https://www.nytimes.com/2025/07/31/technology/ai-researchers-nba-stars.html>

Mr. Zuckerberg wanted Mr. Deitke, a 24-year-old artificial intelligence researcher who had recently helped found a start-up, to join Meta's research effort dedicated to "superintelligence," a technology that could hypothetically exceed the human brain. The company promised him around \$125 million in stock and cash over four years if he came aboard.

The offer was not enough to lure Mr. Deitke, who wanted to stick with his start-up, two people with knowledge of the talks said. He turned Mr. Zuckerberg down.

So Mr. Zuckerberg personally met with Mr. Deitke. Then Meta returned with a revised offer of around \$250 million over four years, with potentially up to \$100 million of that to be paid in the first year, the people said. The compensation jump was so startling that Mr. Deitke asked his peers what to do. After many discussions, some of them urged him to take the deal — which he did.





Some analysts have expressed scepticism ... around OpenAI, which is expected to have revenues this year of less than one thousandth of the planned investment.

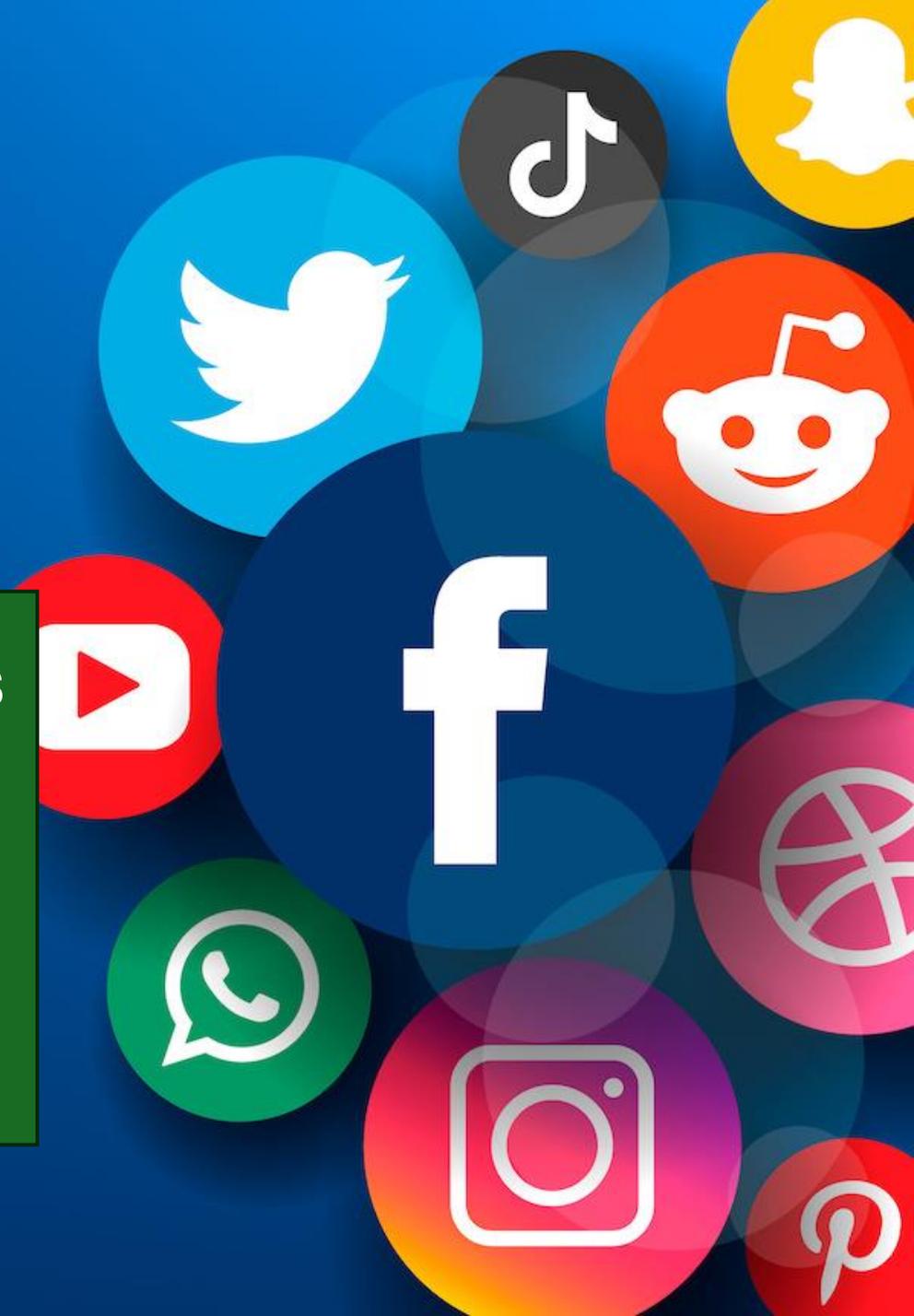
Islam Faisal and Rachel Clun, Google boss says trillion-dollar AI investment boom has 'elements of irrationality', <https://www.bbc.com/news/articles/cwy7vrd8k4eo>, Posted 11/18/2025, Last Accessed 11/18/2025

I think that before we start with AI, we need to remember the adoption of social media.



I think that before we start with AI, we need to remember the adoption of social media.

10 years ago, Social Media giants told us it was imperative that we build social media into student learning because it was critical for their future development.





Turned out, the  
hype was  
unfounded.



Turned out, the hype was unfounded.

No one needed lessons to learn social media, it was user-friendly.

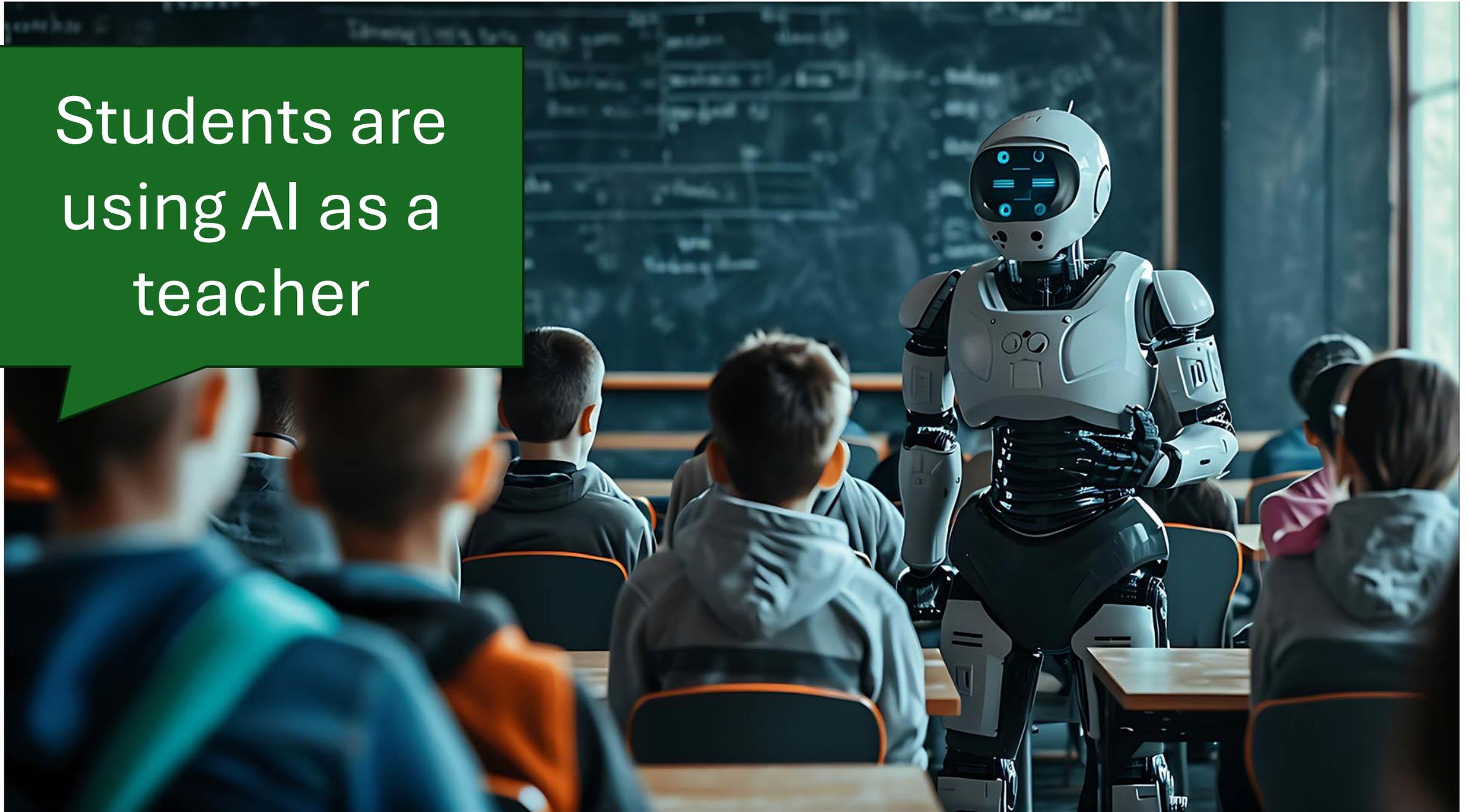


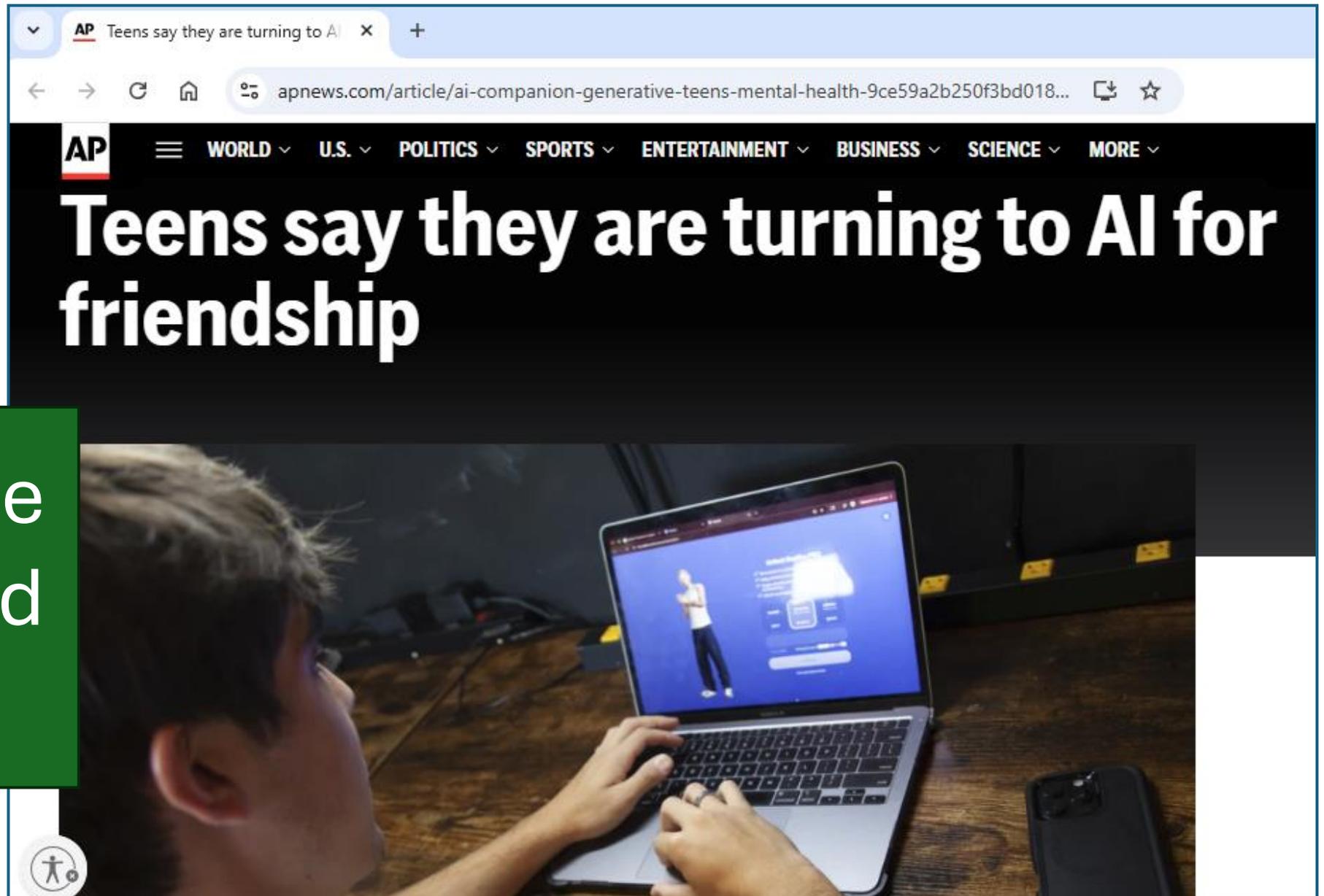
Turned out, the hype was unfounded.

No one needed lessons to learn social media, it was user-friendly.

And, as every teacher, everywhere, instantly noticed, social media is addictive.

Students are  
using AI as a  
teacher





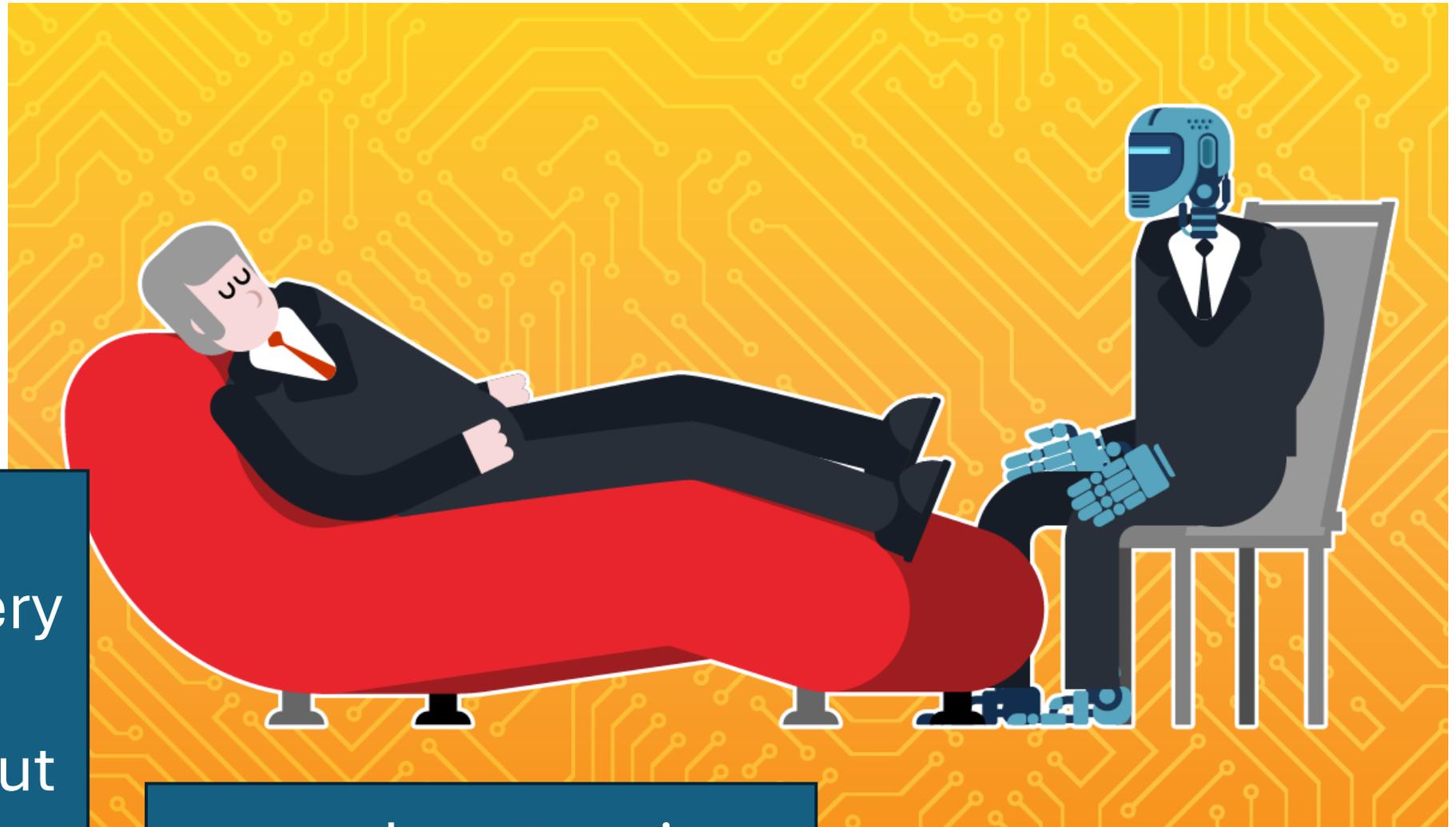
To replace  
real-world  
friends

By JOCELYN GECKER Updated 7:13 PM EST, July 23, 2025, AP Press <https://apnews.com/article/ai-companion-generative-teens-mental-health-9ce59a2b250f3bd0187a717ffa2ad21f>

Students are increasingly using AI as a therapist

They are revealing very personal details about themselves

... and are trusting what the AI tells them



Remember the classic motto  
of the tech industry...

**MOVE  
FAST AND  
BREAK  
THINGS**



A photograph of Mark Zuckerberg on a stage during a presentation. He is standing in the center, wearing a grey t-shirt and dark pants, holding a microphone. Behind him is a large white screen displaying the text "MOVE FAST AND BREAK THINGS" in large, bold, orange letters. The stage is dimly lit, and the background is dark.

**MOVE  
FAST AND  
BREAK  
THINGS**

And all  
indications are  
that they did.



MOVE  
FAST AND  
BREAK  
THINGS

And all  
indications are  
that they did.

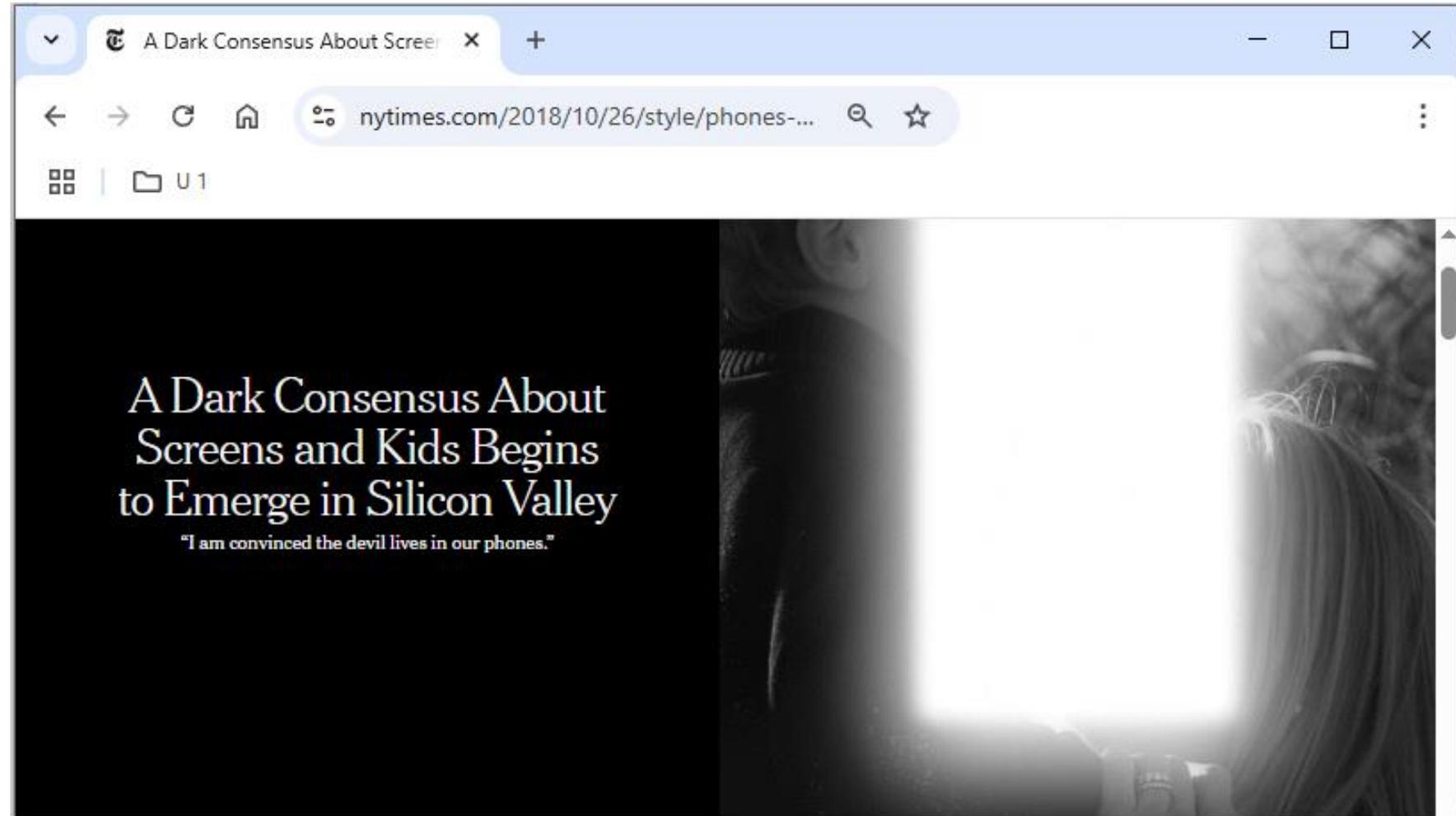
Break  
Things.

New York Times  
By Nellie Bowles

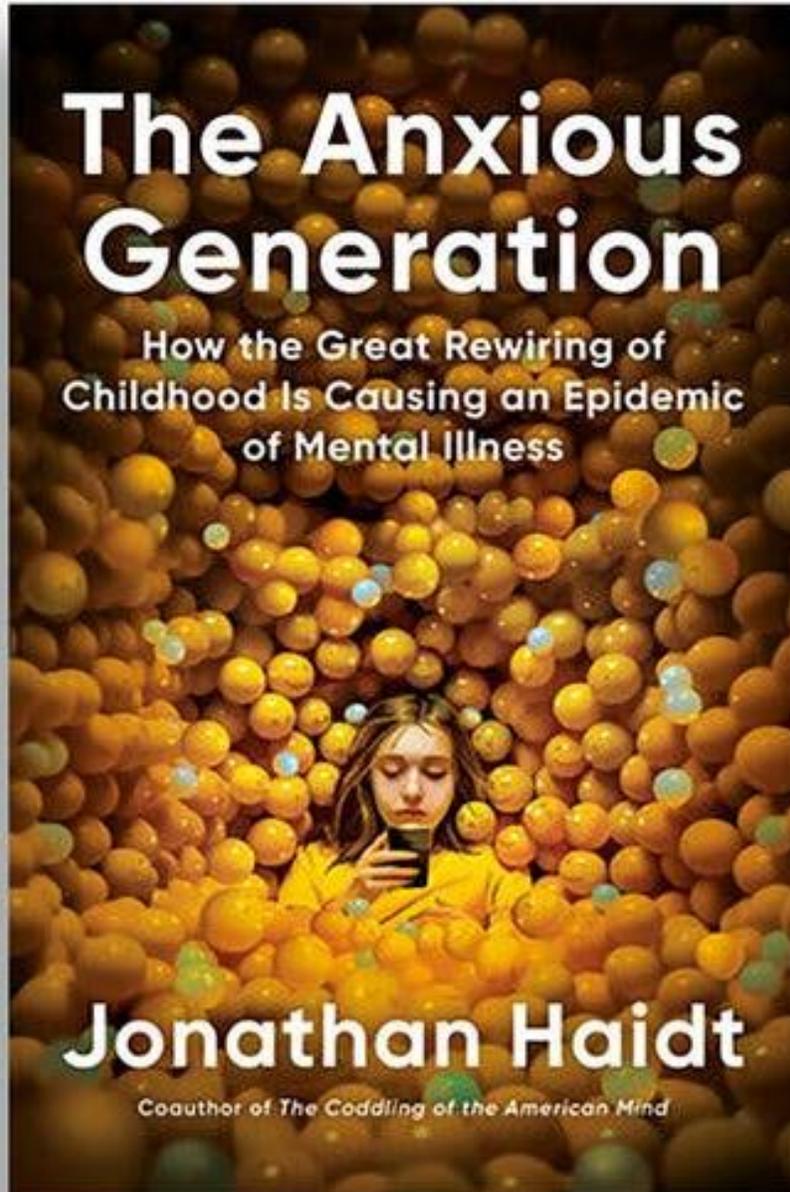
Oct. 26, 2018

SAN FRANCISCO —

The people who are closest to a thing are often the most wary of it. Technologists know how phones really work, and many have decided they don't want their own children anywhere near them.

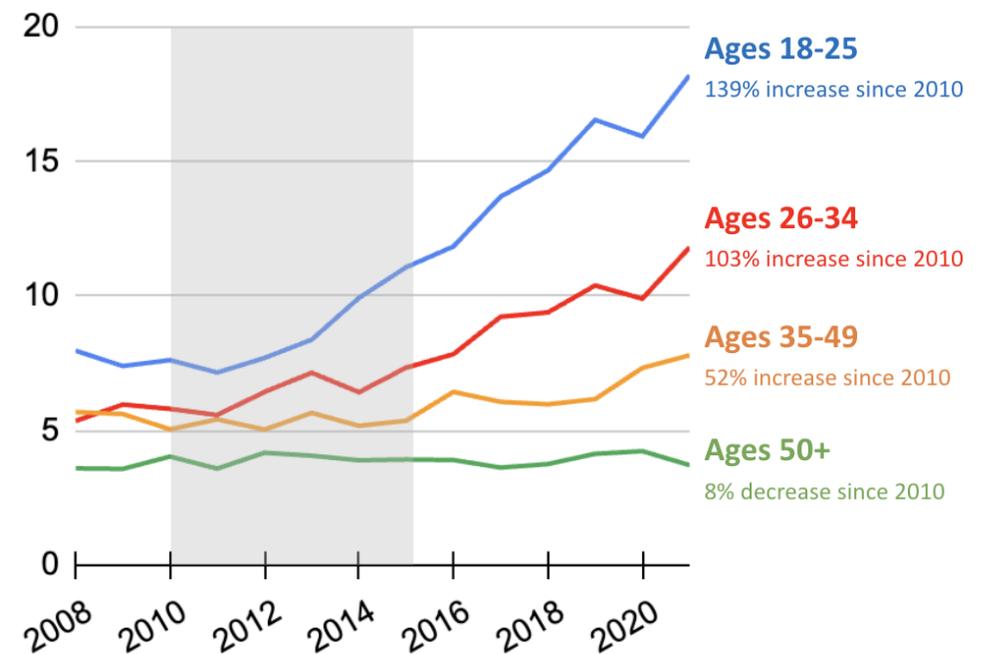


<https://www.nytimes.com/2018/10/26/style/phones-children-silicon-valley.html#:~:text=Tim%20Cook%2C%20the%20C.E.O.%20of,his%20young%20children%20near%20iPads.>



Increasingly, cell phone use among children is being called a huge experiment on the brains of a generations

Percent U.S. Anxiety Prevalence



SOURCE: U.S. National Survey on Drug Use and Health



## Carole Cadwalladr

- Broke the Cambridge Analytica Story (Facebook/privacy)
- “The Tech Bro’s”
- Broligarchs, AI, and a Techno-Authoritarian Surveillance State



Cambridge  
Analytica

## The Data ChatGPT Collects



### Account Info

Email, name, payment data, third-party apps



### Chat Content

Stored and potentially used for training



### IP Address

Logged with each session



### Location Data

Derived from your IP address, not GPS data



### Device/Browser Info

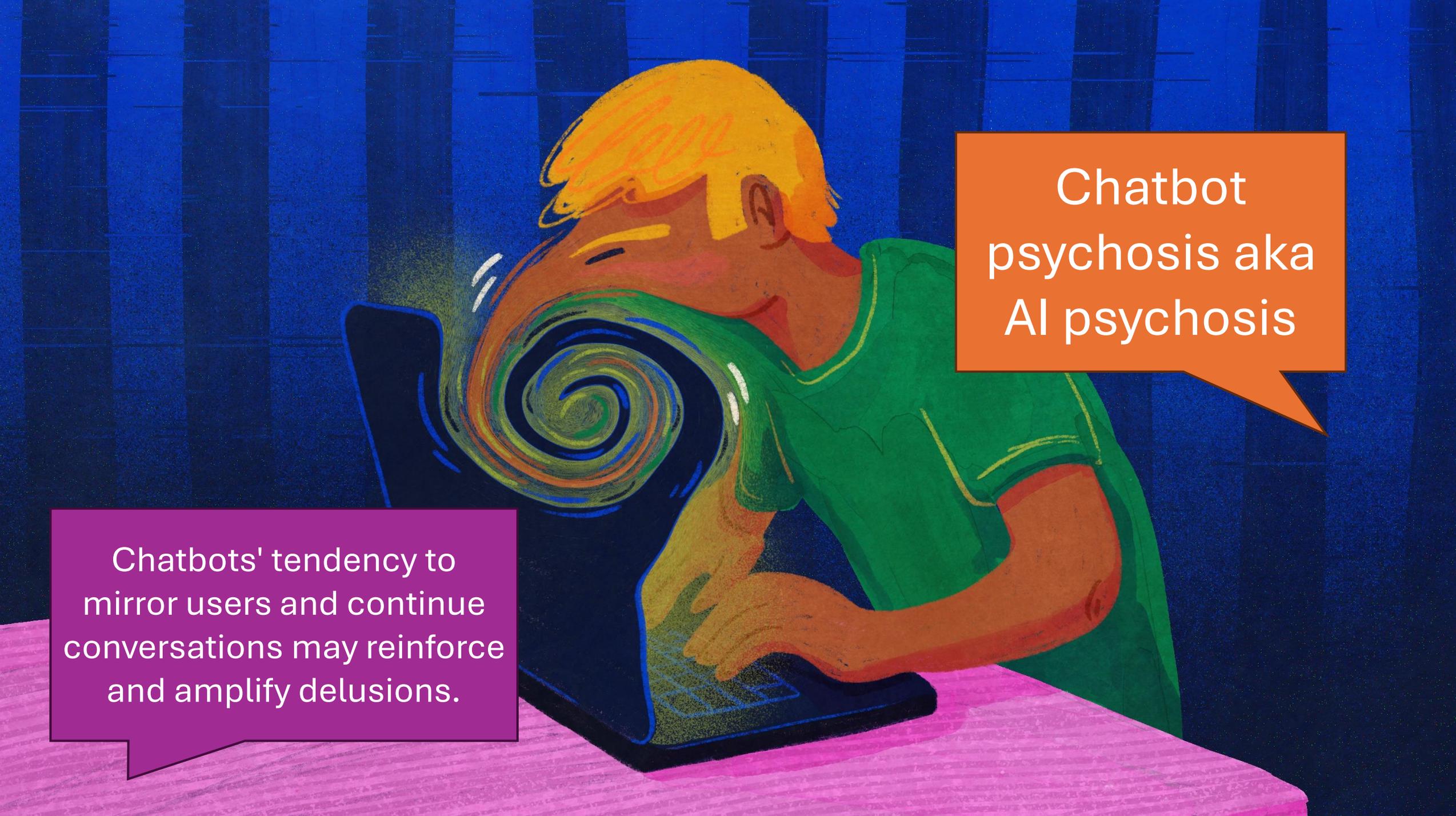
Used for diagnostics and performance tracking



### Photos/Uploads

Treated like text content, subject to same data rules

Depending on what your teen is using AI for, they might be revealing very sensitive data....

An illustration of a person with blonde hair, wearing a green t-shirt, sitting at a desk and typing on a laptop. The person's head is depicted with a large, colorful spiral pattern, suggesting a state of mental distress or psychosis. The background is a dark blue wall with vertical lines. Two speech bubbles contain text related to chatbot-induced psychosis.

Chatbot  
psychosis aka  
AI psychosis

Chatbots' tendency to mirror users and continue conversations may reinforce and amplify delusions.

Parents of teenager who took h x +

bbc.com/news/articles/cgerwp7rdlvo

Register Sign In



A California couple are suing OpenAI over the death of their teenage son, alleging its chatbot, ChatGPT, encouraged him to take his own life.

The lawsuit was filed by Matt and Maria Raine, parents of 16-year-old Adam Raine, in the Superior Court of California on Tuesday. It is the first legal action accusing OpenAI

Yousif, Nadine.  
Parents of teenager  
who took his own life  
sue OpenAI.  
<https://www.bbc.com/news/articles/cgerwp7rdlvo>  
Posted: 27  
August 2025, Last  
Accessed 11/18/2025

Schools say kids are compulsive x +

← → ↻ 🏠 cbc.ca/news/canada/social... 📄 ☆ 📌 🔍 🗑️ | ⋮

U 1 Output on Scratch Summary of Suppor...

**WATCH | TDSB chair says social media giants are knowingly harming children:**



**Social media giants 'knowingly' harming children, TDSB chair says in wake of lawsuit**

1 month ago | 5:53

Four of Ontario's largest school boards, including the Toronto District School Board (TDSB), have launched lawsuits against social media giants behind Meta, Snapchat and TikTok for allegedly causing harm to students. Metro Morning host David Common spoke with TDSB chair Rachel Chernos Lin about the action.

We can learn from these mistakes and try to make better decisions about AI.

<https://www.cbc.ca/news/canada/social-media-kids-parents-1.7158074>

Being very rich and associated with the tech industry does not make your judgement infallible.

## TECH HEAVYWEIGHTS MENTIONED IN EPSTEIN FILES



**Reid Hoffman**  
LinkedIn founder



**Elon Musk**  
Tesla, SpaceX,  
X & xAI CEO



**Bill Gates**  
Microsoft  
co-founder



**Peter Thiel**  
Former PayPal CEO



**Mark Zuckerberg**  
Meta CEO

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**Peter Thiel**  
Former PayPal



**Mark Zuckerberg**  
Meta CEO



**Jeff Bezos**  
Amazon founder  
& CEO



**Sergey Brin**  
Ex Alphabet  
president



**Larry Page**  
Former Google



**Larry Page**  
Former Google CEO



**Tim Cook**  
Apple CEO

TECH 24



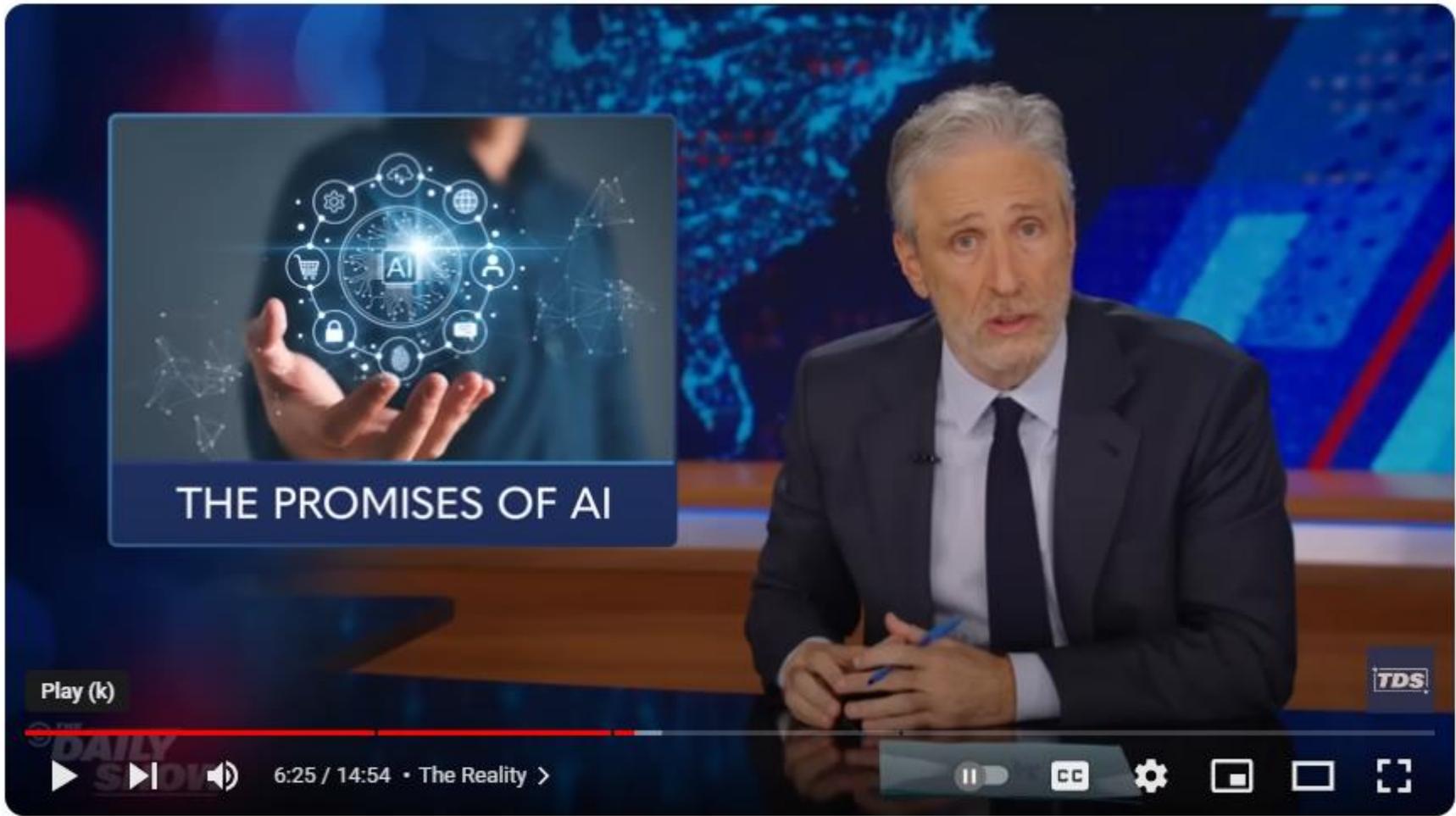
TECH 24



With AI, don't be  
swayed by  
FOMO:

Fear  
Of  
Missing  
Out





A recent Daily Show episode has words to say about prompt engineering.

### Jon Stewart On The False Promises of AI | The Daily Show

 The Daily Show ✓  
11.1M subscribers

**Subscribe**

 125K |  |  Share |  Save | 

<https://www.youtube.com/watch?v=20TAkcy3aBY>



Jon Stewart On The False Promises of AI | The Daily Show

Stewart: So what exactly are we supposed to be doing for work?

Ferland (Mercer): I think we'll need new types of jobs to help us embed AI and maintain AI in the workplace.



Jon Stewart On The False Promises of AI | The Daily Show

Smith (Microsoft) Prompt engineers. They're basically people who learn how to use AI systems and in effect to program them.

Speaking as a programming teacher, it's not programming. At all. No one can possibly call it that.



Stewart's response:

Prompt Engineer?

I think you mean types question guy.

And by the way, if there's any job that can be easily replaced by AI, it's types question guy.

Jon Stewart On The False Promises of AI | The Daily Show



The Daily Show ✓  
11.1M subscribers

Subscribe

👍 125K

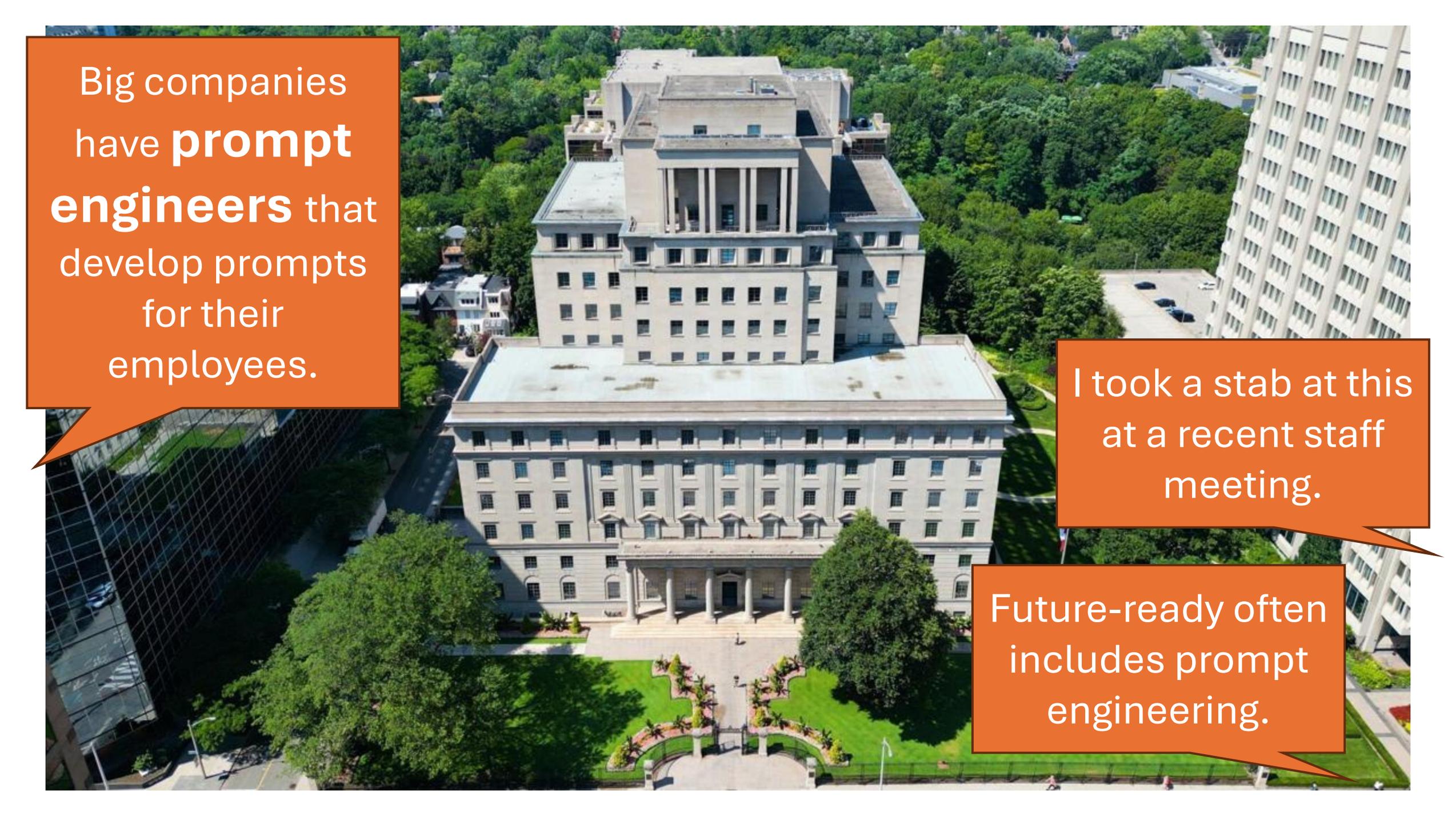


➦ Share

⋮ Save



<https://www.youtube.com/watch?v=20TAkcy3aBY>



Big companies  
have **prompt  
engineers** that  
develop prompts  
for their  
employees.

I took a stab at this  
at a recent staff  
meeting.

Future-ready often  
includes prompt  
engineering.

# 1. ChatGPT's role

Assign ChatGPT a role—as in an identity, point of view, or profession—to help guide the tool's responses. ChatGPT can generate outputs based on the area of expertise related to the role you assign it.

You are a teacher providing feedback to **grade 11** students in a course called “**Introduction to Computer Science, Grade 11, University Preparation (ICS3U)**” on their midterm report card.

## 2. Project description

Write one or two sentences that describe your project, its purpose, your intended audience or end users for the final product, and the individual outputs you need ChatGPT to generate in order to complete the project.

You need to create comments for the midterm report card. The audience will mainly be the parents and students in the class, but they might also be read by guidance counselors, special education teachers, vice-principals and principals.

In each comment, provide three pieces of feedback. First, comment on what students have learned in the course. Then, comment on their strengths, **providing specific examples referencing their Role-Playing Game program.** Finally, provide parents with an area that the student can work on to improve in the course.

### 3. Project context

As with an assigned role, providing context for a project can help ChatGPT generate appropriate responses. Context might include background information on why you're completing a given project or important facts and statistics.

Then, tailor the comments to specific achievement levels (e.g., **Level 4 – Excellent, Level 3 – Good, Level 2 – Satisfactory, Level 1 – Needs Improvement**) so that I can use them for different students. Also create **versions tailored for a wide variety of different learning profiles** (e.g., high-achieving but quiet student, creative but disorganized student, ELL, IEP, ADHD, gifted, newcomer, reluctant learner, inconsistent performer, perfectionist, student who struggles with multi-step logic, a high-creativity but low-accuracy student, low confidence but strong analytical skills, etc.).

## 4. Output specifications

Your prompt should specify details of the output you want ChatGPT to generate and how it should be generated, including the tone, length, style, and structure, as well as research that needs to be conducted.

Produce 30 to 40 comments.

It is important that each comment be parent-friendly. Make sure that each comment is editable (e.g., with placeholders for names and pronouns) that a teacher can quickly adapt for report entry.

Comments should not have line breaks. They should be in one paragraph. They should be 4 to 5 sentences in length.

## 5. Rules and constraints

Including rules and constraints, alongside the output specifications, can further aid ChatGPT in producing your desired output. These might include certain types of content, examples, or even words you want ChatGPT to exclude.

The goals of the computer studies curriculum are to enable students to:

- gain an understanding of computer studies concepts;
- develop the skills, including critical thinking skills, and the knowledge of strategies required to do research, conduct inquiries, and communicate findings accurately, ethically, and effectively;
- apply the knowledge, skills, and attitudes acquired through the study of computers to a variety of learning tasks and relate them to computer phenomena on the local, national, and global levels;
- develop lifelong learning habits that will help them adapt to computer advances in the changing workplace and world;
- make connections that will help them take advantage of potential postsecondary educational and work opportunities.

## 5. Rules and constraints

Including rules and constraints, alongside the output specifications, can further aid ChatGPT in producing your desired output. These might include certain types of content, examples, or even words you want ChatGPT to exclude.

By the end of the course, students will complete these overall expectations:

A1. demonstrate the ability to use different data types, including one-dimensional arrays, in computer programs; A2. demonstrate the ability to use control structures and simple algorithms in computer programs; A3. demonstrate the ability to use subprograms within computer programs; A4. use proper code maintenance techniques and conventions when creating computer programs.

B1. use a variety of problem-solving strategies to solve different types of problems independently and as part of a team; B2. design software solutions to meet a variety of challenges; B3. design algorithms according to specifications; B4. apply a software development life-cycle model to a software development project.

C1. relate the specifications of computer components to user requirements; C2. use appropriate file maintenance techniques to organize and safeguard data; C3. demonstrate an understanding of the software development process.

D1. describe policies on computer use that promote environmental stewardship and sustainability; D2. demonstrate an understanding of emerging areas of computer science research; D3. describe postsecondary education and career prospects related to computer studies.



2

## 5. Rules and constraints

Including rules and constraints, alongside the output specifications, can further aid ChatGPT in producing your desired output. These might include certain types of content, examples, or even words you want ChatGPT to exclude.

In writing anecdotal comments, focus on what students have learned, describe significant strengths, and identify next steps for improvement. Teachers should strive to use language that parents will understand and should avoid language that simply repeats the wordings of the curriculum expectations or the achievement chart. When appropriate, teachers may make reference to particular strands. The comments should describe in overall terms what students know and can do and should provide parents with personalized, precise, and meaningful feedback. Teachers should also strive to help parents understand how they can support their children at home.

## 5. Rules and constraints

Including rules and constraints, alongside the output specifications, can further aid ChatGPT in producing your desired output. These might include certain types of content, examples, or even words you want ChatGPT to exclude.

The achievement chart identifies four categories of knowledge and skills that are common to both the elementary and secondary panels and to all subject areas and disciplines. The categories, defined by clear criteria, represent four broad areas of knowledge and skills within which the expectations for any given subject/course can be organized. The four categories should be considered as interrelated, reflecting the wholeness and interconnectedness of learning. The categories help teachers to focus not only on students' acquisition of knowledge but also on their development of the skills of thinking, communication, and application.

The categories of knowledge and skills are as follows:

- Knowledge and Understanding: Subject-specific content acquired in each grade/course (knowledge), and the comprehension of its meaning and significance (understanding)
- Thinking: The use of critical and creative thinking skills and/or processes
- Communication: The conveying of meaning through various forms
- Application: The use of knowledge and skills to make connections within and between various contexts



## 6. Output examples

Giving ChatGPT some examples of the kind of output you are looking for can reduce the risk of it misinterpreting your prompt. You can include examples of writing styles and tones you've specified in the instructions, examples of the kind of content you want, and even examples from your previous work.

An example of the output that should be produced follows:

[Name] has developed a strong understanding of core programming concepts, including variables, control structures, and modular program design.

[He/She/They] demonstrated excellent problem-solving skills in the Role-Playing Game project, particularly in how [he/she/they] organized functions to keep the code clear and adaptable. To continue growing, [Name] can challenge [himself/herself/themselves] by exploring more efficient algorithms and documenting design decisions more consistently.



What skills did  
I use to do  
this?

Writing  
Essays

Audience

Refining search  
Parameters

Technical  
understanding

These aren't  
new skills.

Writing  
Essays

Audience

Refining search  
Parameters

Technical  
understanding

It took me one  
example and 15  
minutes to master it.

These aren't  
new skills.

Writing  
Essays

Audience

Refining search  
Parameters

Technical  
understanding

It took me one example and 15 minutes to master it.

These aren't new skills.

My skill set? I am a history major with a computer science minor.

Writing Essays

Audience

Refining search Parameters

Technical understanding



To break through the hype and advertising messages, we are going to need 2<sup>nd</sup> order questions.



How do we  
learn  
effectively?

To break through the hype and advertising messages, we are going to need 2<sup>nd</sup> order questions.



To break through the hype and advertising messages, we are going to need 2<sup>nd</sup> order questions.

How do we learn effectively?

Why are we teaching?

What are essays even useful for?



To break through the hype and advertising messages, we are going to need 2<sup>nd</sup> order questions.

How do we learn effectively?

Why are we teaching?

What are essays even useful for?

What thinking makes us human?



To break through the hype and advertising messages, we are going to need 2<sup>nd</sup> order questions.

How do we learn effectively?

Why are we teaching?

What are essays even useful for?

What thinking makes us human?

How important is the act of creation to human happiness?

Is using ChatGPT  
write an essay just  
as good as writing  
the essay?

6 de mayo 23  
Estudiante: Aemudena

Me gustaría integrarme en el Departamento de Finanzas de su empresa, ya que estoy capacitado y tengo las habilidades para desarrollar las áreas de finanzas y contabilidad. Recientemente he finalizado mis estudios en Administración y Dirección de Empresas en la Universidad de Madrid. La metodología aplicada en el centro, me ha permitido acción y resultados, gran capacidad de resolución y una adquisición de una perspectiva global y de todo el largo de mi formación y de potenciar mi espíritu de iniciativa y en equipo, tareas, a través del conocimiento de idiomas, mediante intervenciones en inglés.

OK

pequeña caracola...  
suyo, porque ellos no tenían...  
Pero el pequeño caracol no crecía. Al fin...  
que un simple caracol ordinario.

Un día, la mamá caracola creyó observar que su pequeño se desarrollaba, y le pidió a papá caracol que se fijara bien, a ver qué le parecía. La papá caracol confirmó que, efectivamente, el pequeñín empezaba a crecer.

Una día se puso a llover con fuerza.

-Escucha el rampataplán de los lluvia sobre las lampazos -dijo el viejo caracol.

-Fíjate en las gotas de lluvia -observó la madre caracola-. Mira cómo bajan por el tallo y lo mojan. Suerte que tenemos nuestra buena casa, y que el pequeño tiene también la suya. La naturaleza nos han tratado a nosotros, los caracoles, mejor que a los demás seres vivos, porque tenemos una casa desde que nacemos, y para nosotros plantaron un bosque de lampazos. Me gustaría saber hasta dónde se extiende.

-No hay nada fuera de aquí -respondió el padre caracol-. Mejor que esto no puede haber nada.

-Pues a mí me gustaría ver las casas vieja que hay más allá dijo la vieja caracola. Todos nuestro antepasados pasaron allí, así que debe ser algo excepcional.

Is using ChatGPT  
write an essay just  
as good as writing  
the essay?

6 de mayo 23  
Estudiante: Aemudena  
Me gustaría integrarme en el  
Departamento de Finanzas de su empresa,  
ya que estoy capacitado y tengo los  
habilidades para desarrollar diferentes  
tareas, especialmente en las áreas de  
Finanzas y contabilidad.  
Acientemente he finalizado mis estudios  
en Administración y Dirección de Empresas  
en la Universidad de Madrid.  
La metodología aplicada en el centro,  
orientada a la acción y resultados,  
me ha permitido desarrollar una  
gran capacidad de resolución y  
adquirir el área de resolución global y de  
todo el largo de mi formación y de  
a lo largo de mi formación y de  
potenciado mi espíritu de iniciativa y  
en equipo, tareas, a  
conocimiento de ida y vuelta  
Francés, mediante  
intervenciones en Inglés  
OK

Sure, if your end  
goal is writing an  
essay.

pequeña caracol...  
suyo, porque ellos no tenían...  
Pero el pequeño caracol no crecía. Al fin...  
que un simple caracol ordinario.  
Un día, la mamá caracola creyó observar que su pequeño  
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ver qué le parecía. La papá caracol confirmó que,  
efectivamente, el pequeño empezaba a crecer.  
fuerza.  
lampazos -dijo  
re caracola-. Mira  
erte que tenemos  
e también la suya  
os caracoles, mejo  
tenemos una cas  
ntaron un bosque  
se extiende.  
adre caracol-. Mej  
esto...  
-Pues a mí me gustaría ver las cosas...  
dijo la vieja caracola. Todos nuestro antepasados pasaron  
allí, así que debe ser algo excepcional.



I don't write essays anymore, but I use all these brain functions I developed when learning them.



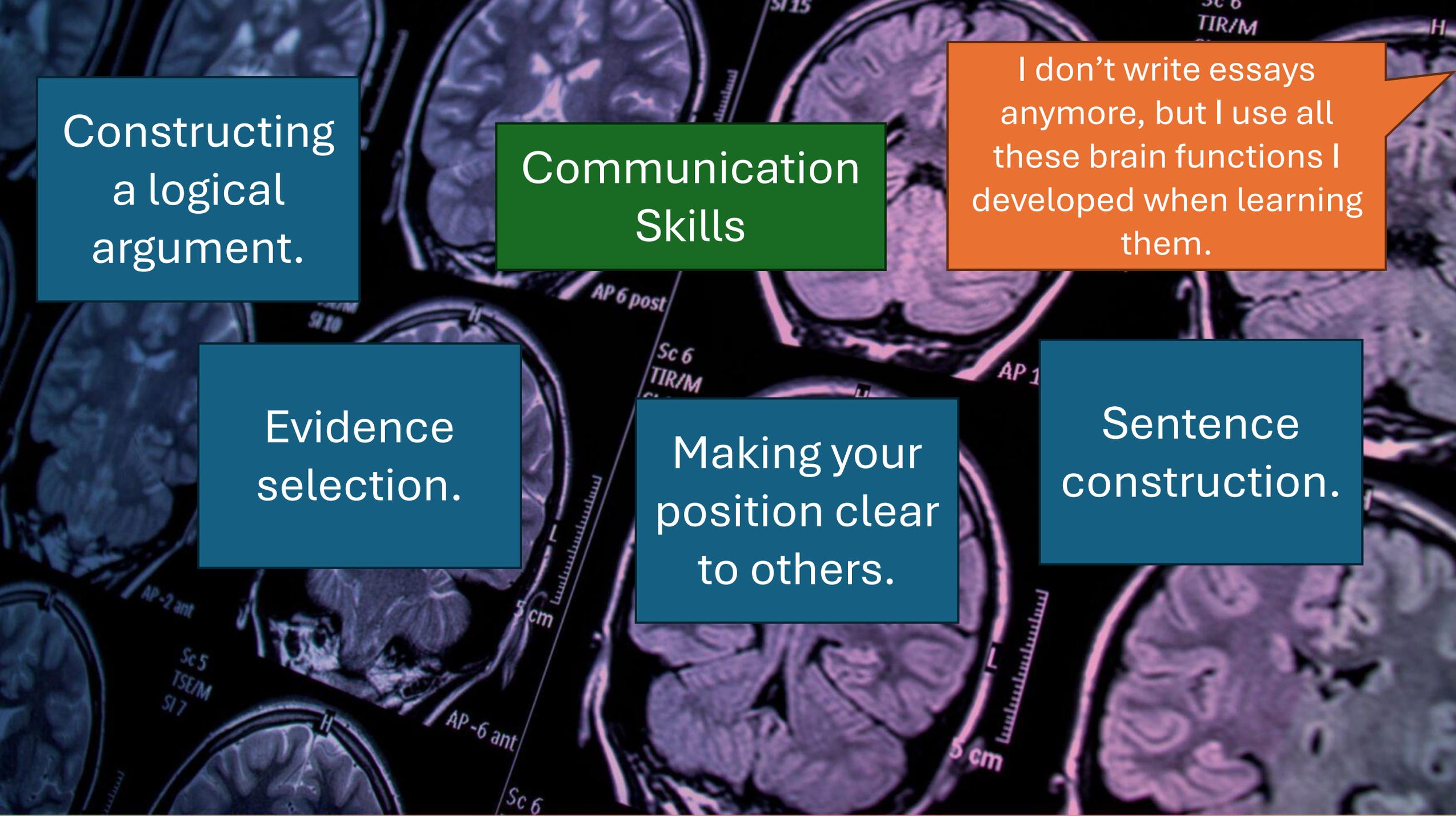
Constructing  
a logical  
argument.

Evidence  
selection.

Making your  
position clear  
to others.

Sentence  
construction.

I don't write essays  
anymore, but I use all  
these brain functions I  
developed when learning  
them.



Constructing  
a logical  
argument.

Communication  
Skills

I don't write essays  
anymore, but I use all  
these brain functions I  
developed when learning  
them.

Evidence  
selection.

Making your  
position clear  
to others.

Sentence  
construction.

THE NEW YORK TIMES BESTSELLER

# THINKING, FAST AND SLOW



DANIEL

KAHNEMAN

WINNER OF THE NOBEL PRIZE IN ECONOMICS

"[A] masterpiece . . . This is one of the greatest and most engaging collections of insights into the human mind I have read." —WILLIAM EASTERLY, *Financial Times*

## System 1



Fast



Unconscious



Automatic



Everyday  
Decisions

## System 2



Slow



Conscious



Effortful

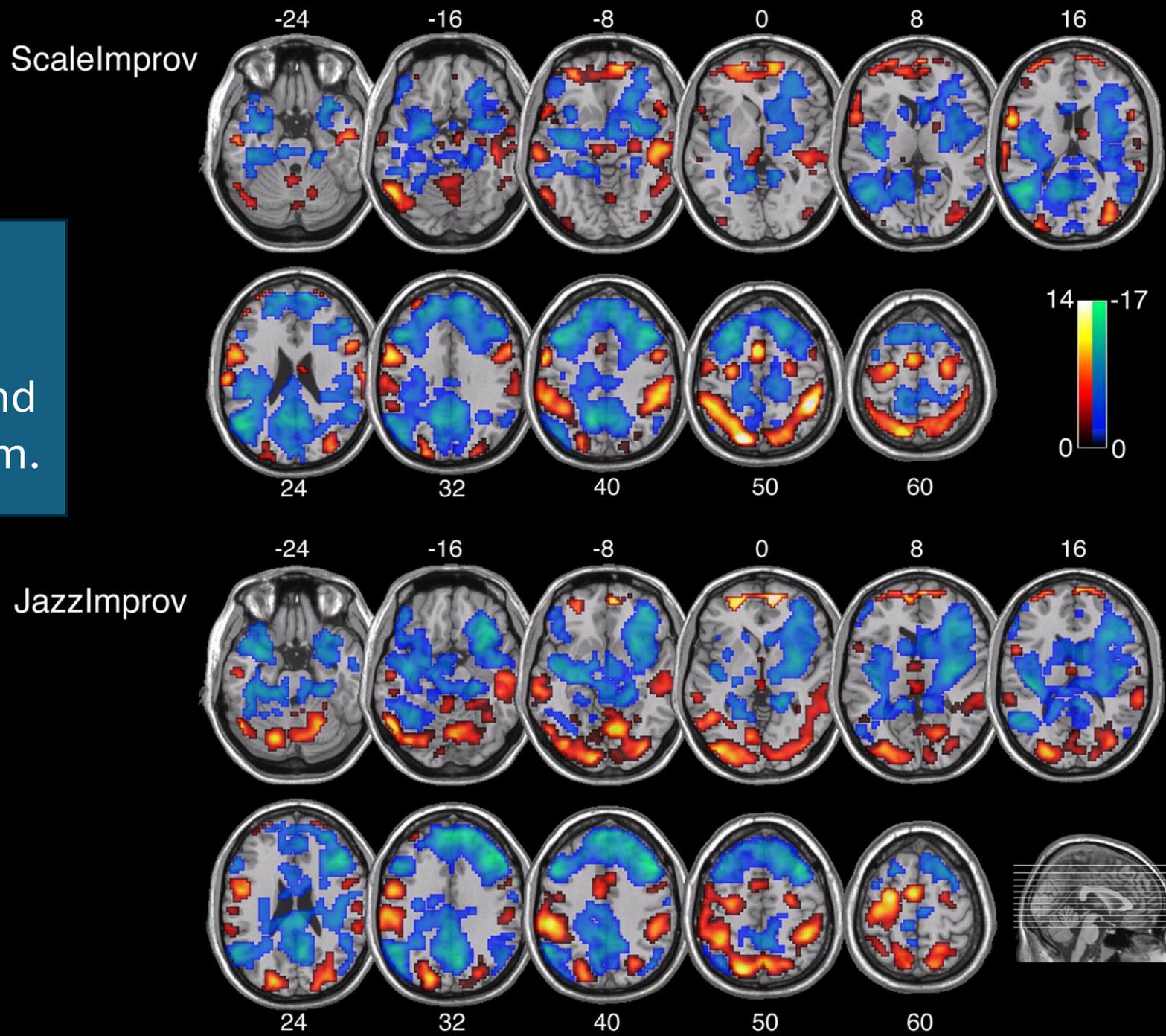


Complex  
Decisions

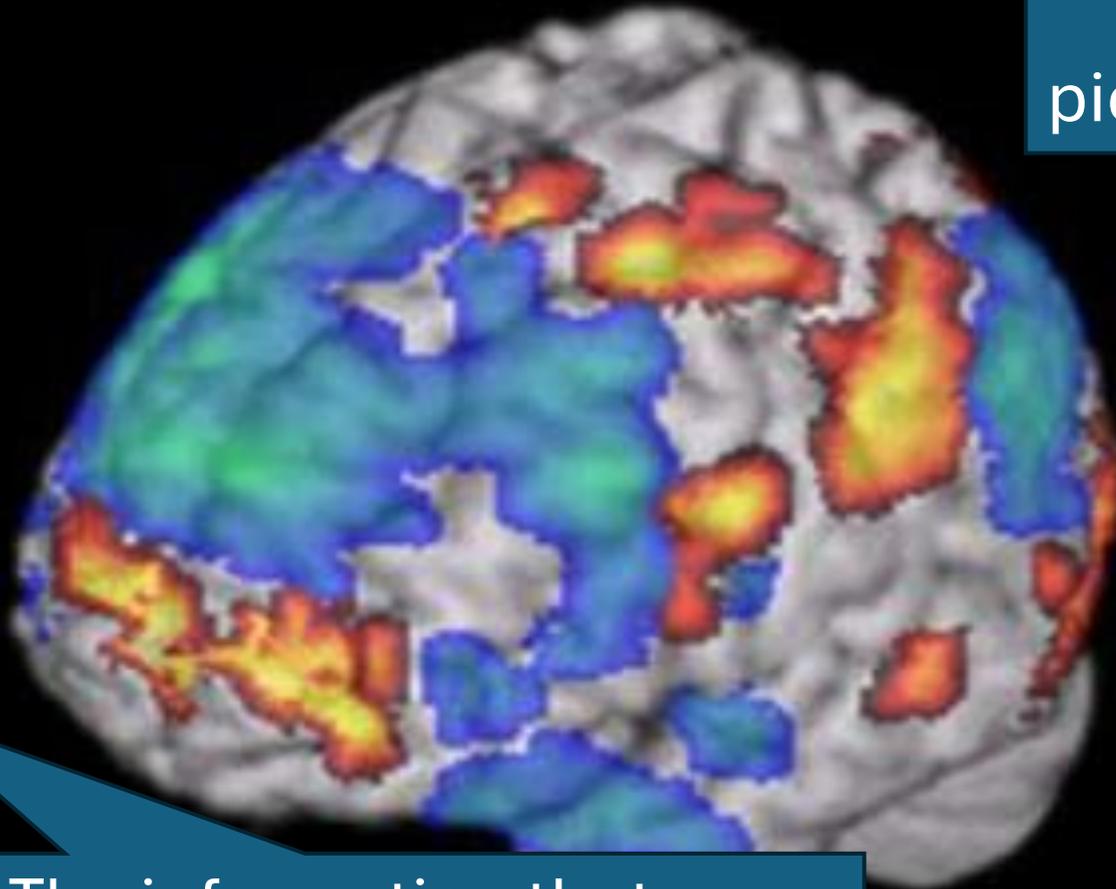
Brain scans have added a lot to our understanding of how System 1 and System 2 related to learning.



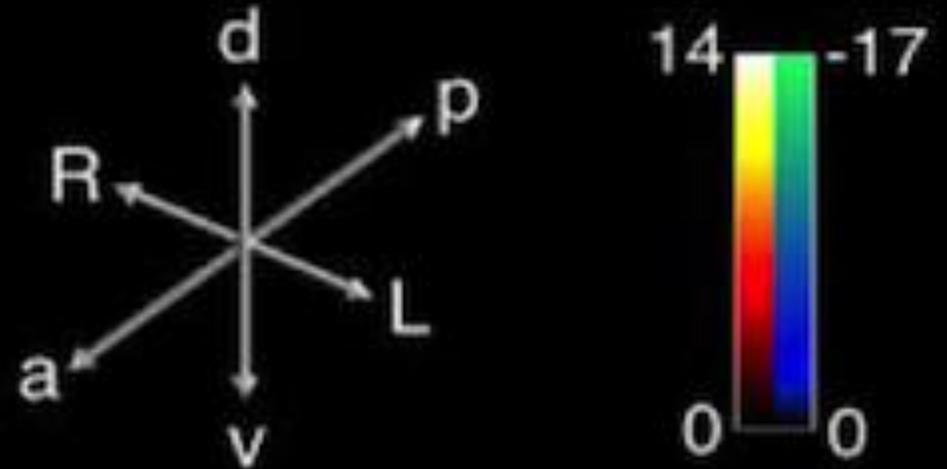
They take different conditions and compare them.



The 'slices' can be combined to create very detailed pictures of the brain.



The information that we received in university was input/output based.



Now, we can take the input and output and see what EXACTLY is going on.

THE NEW YORK TIMES BESTSELLER

# THINKING, FAST AND SLOW



DANIEL

KAHNEMAN

WINNER OF THE NOBEL PRIZE IN ECONOMICS

"[A] masterpiece . . . This is one of the greatest and most engaging collections of insights into the human mind I have read." —WILLIAM EASTERLY, *Financial Times*

## System 1



Fast



Unconscious



Automatic



Everyday  
Decisions

After Skill is  
Mastered

## System 2



Slow



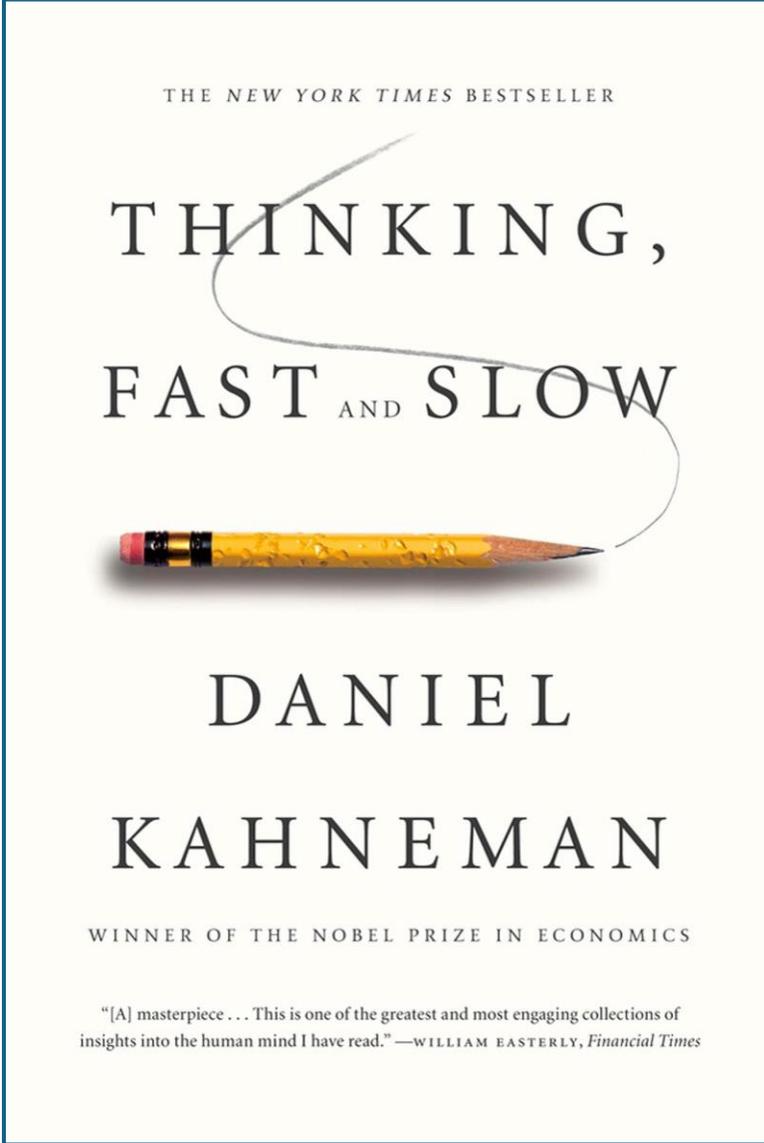
Conscious



Effortful



Complex  
Decisions



## System 1



Fast



Unconscious



Automatic



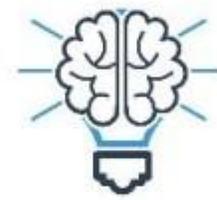
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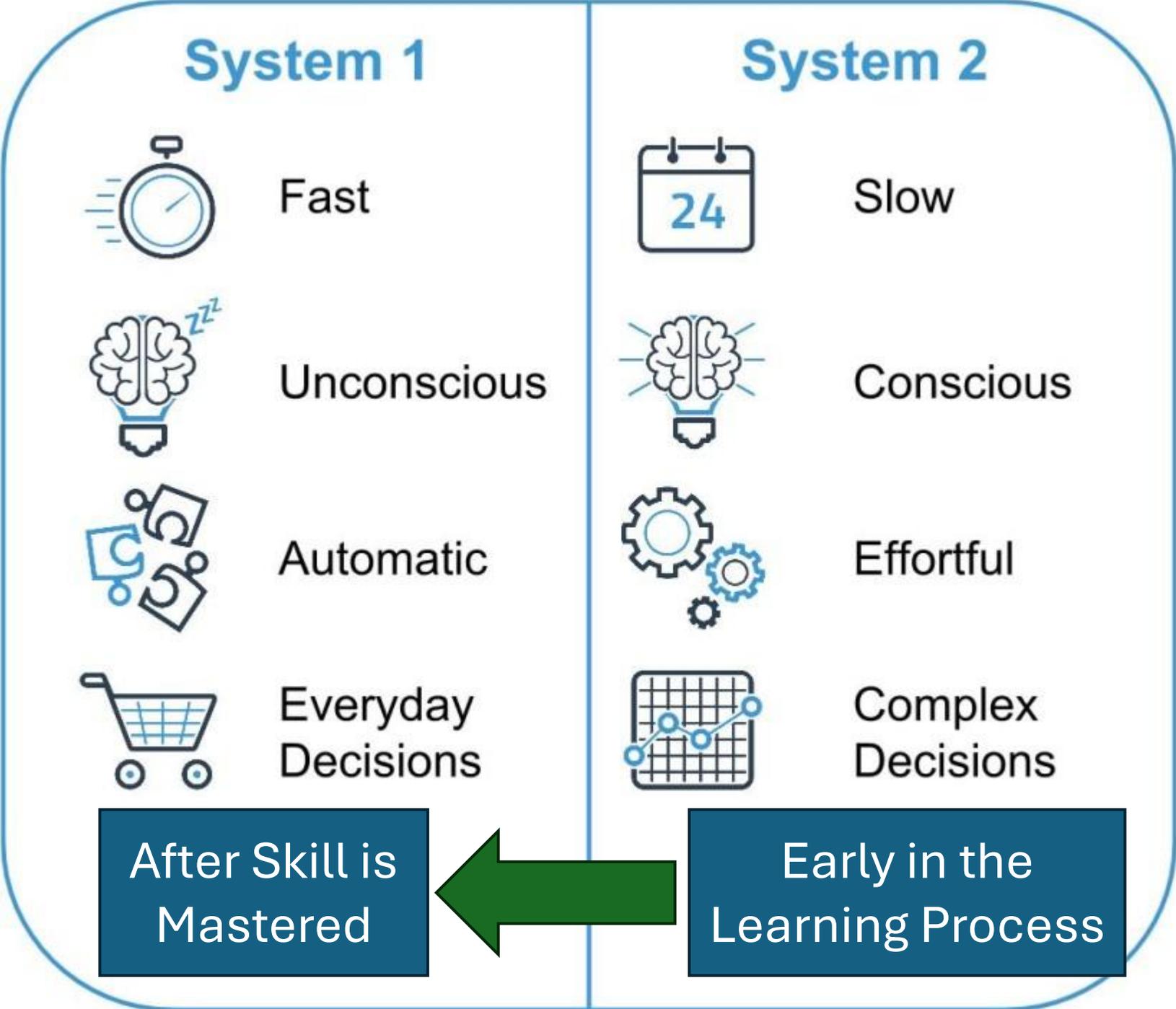
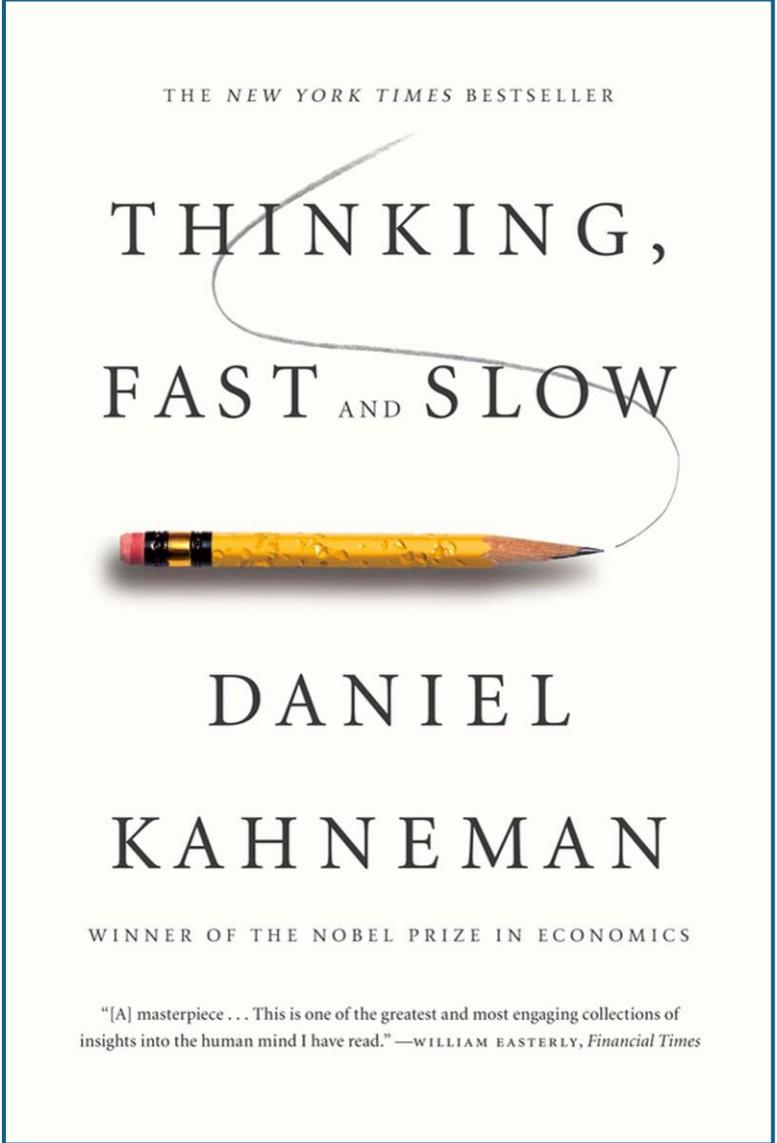


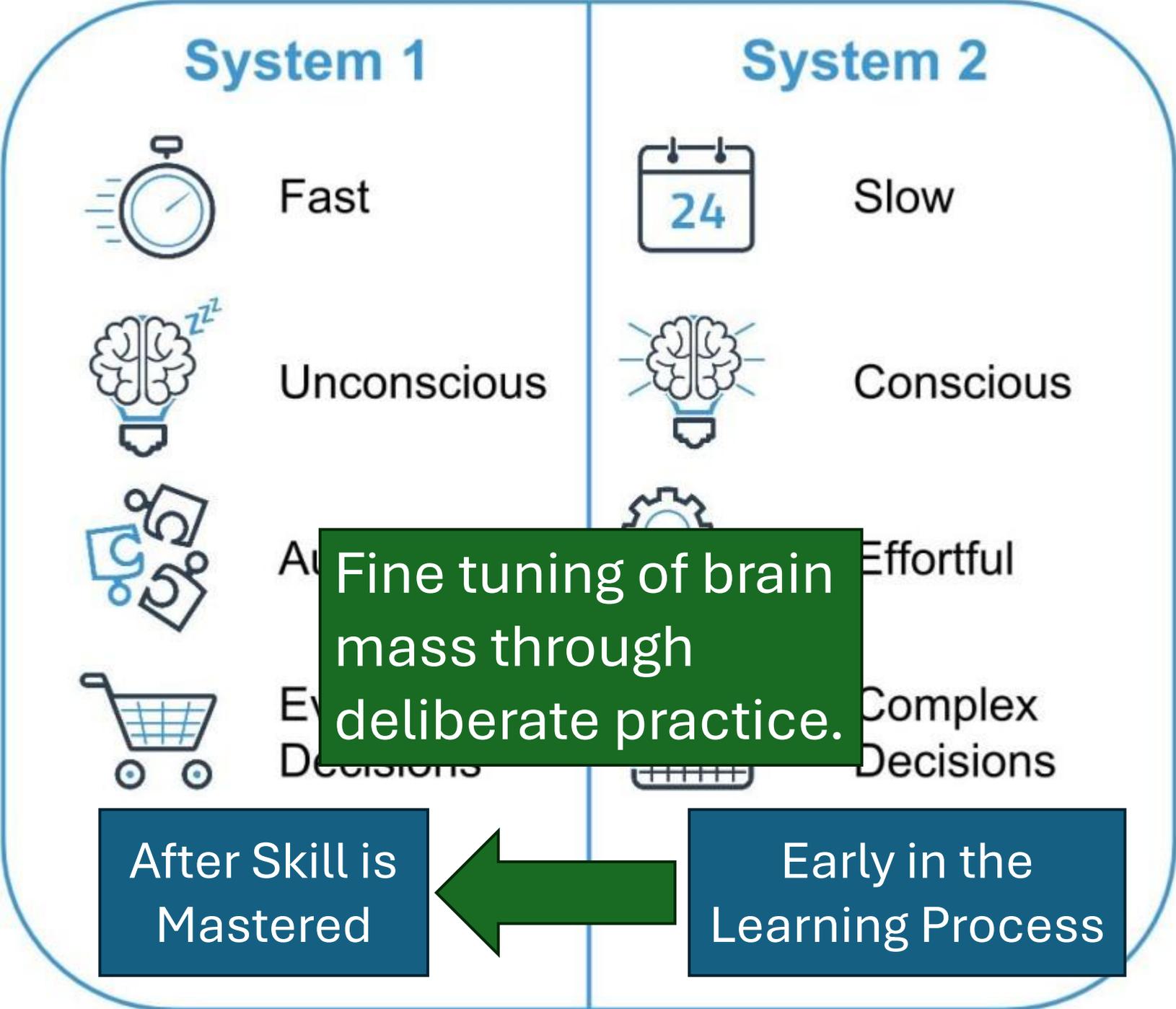
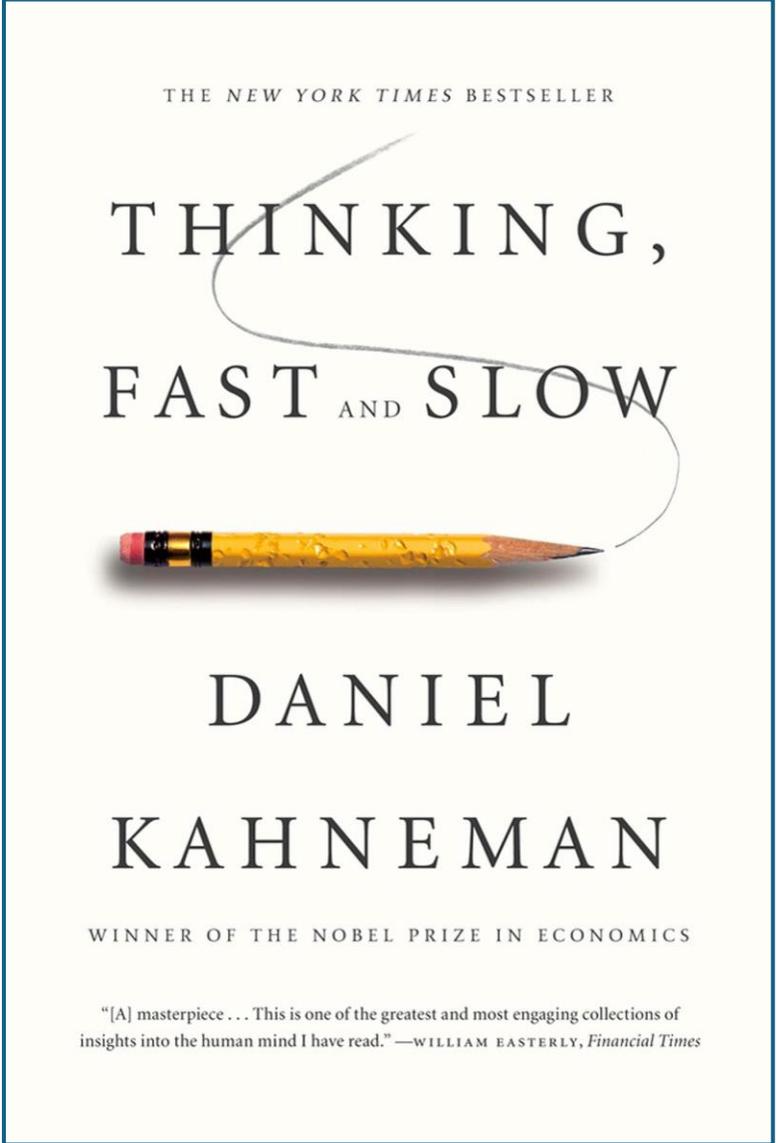
Effortful

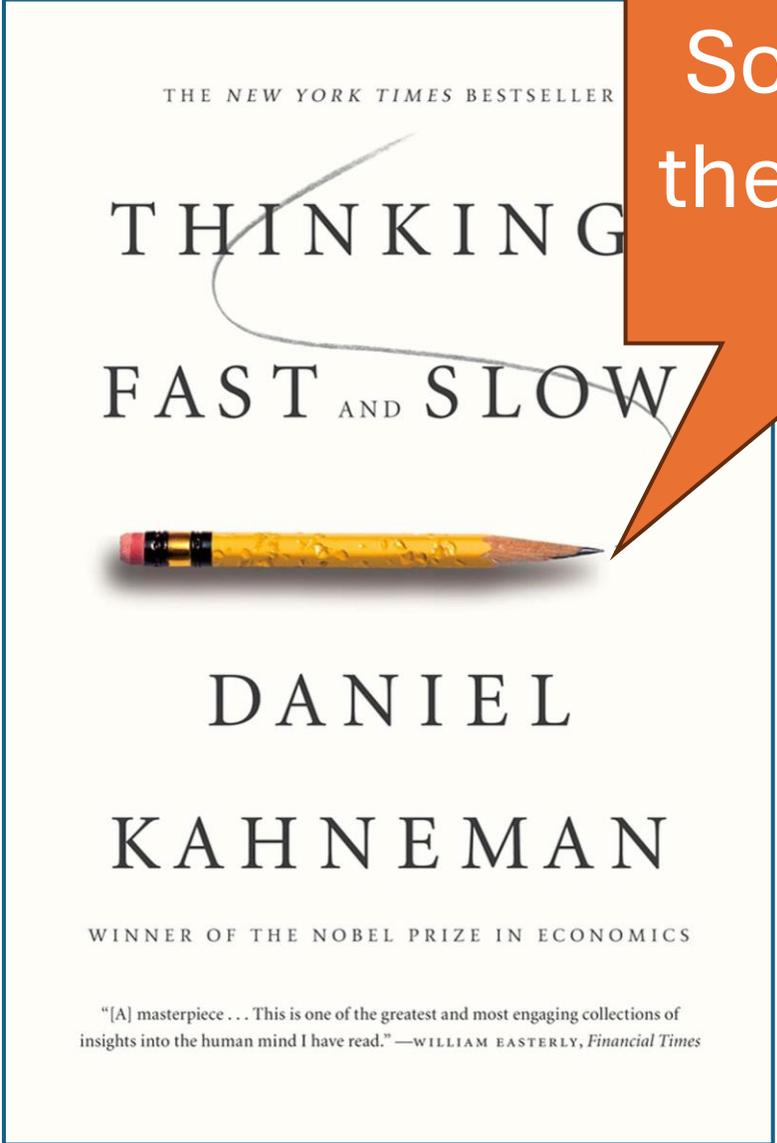


Complex  
Decisions

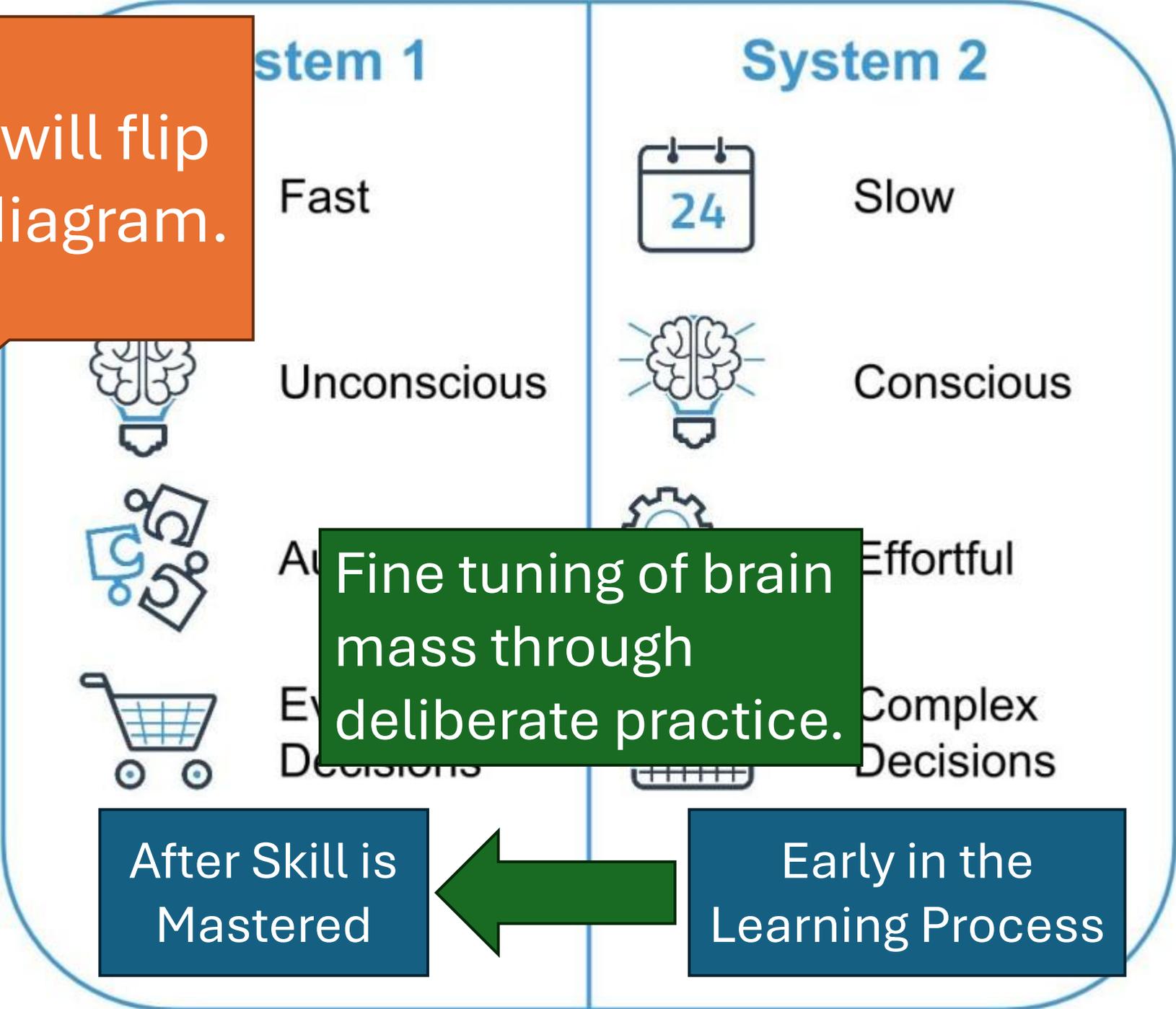
Early in the  
Learning Process







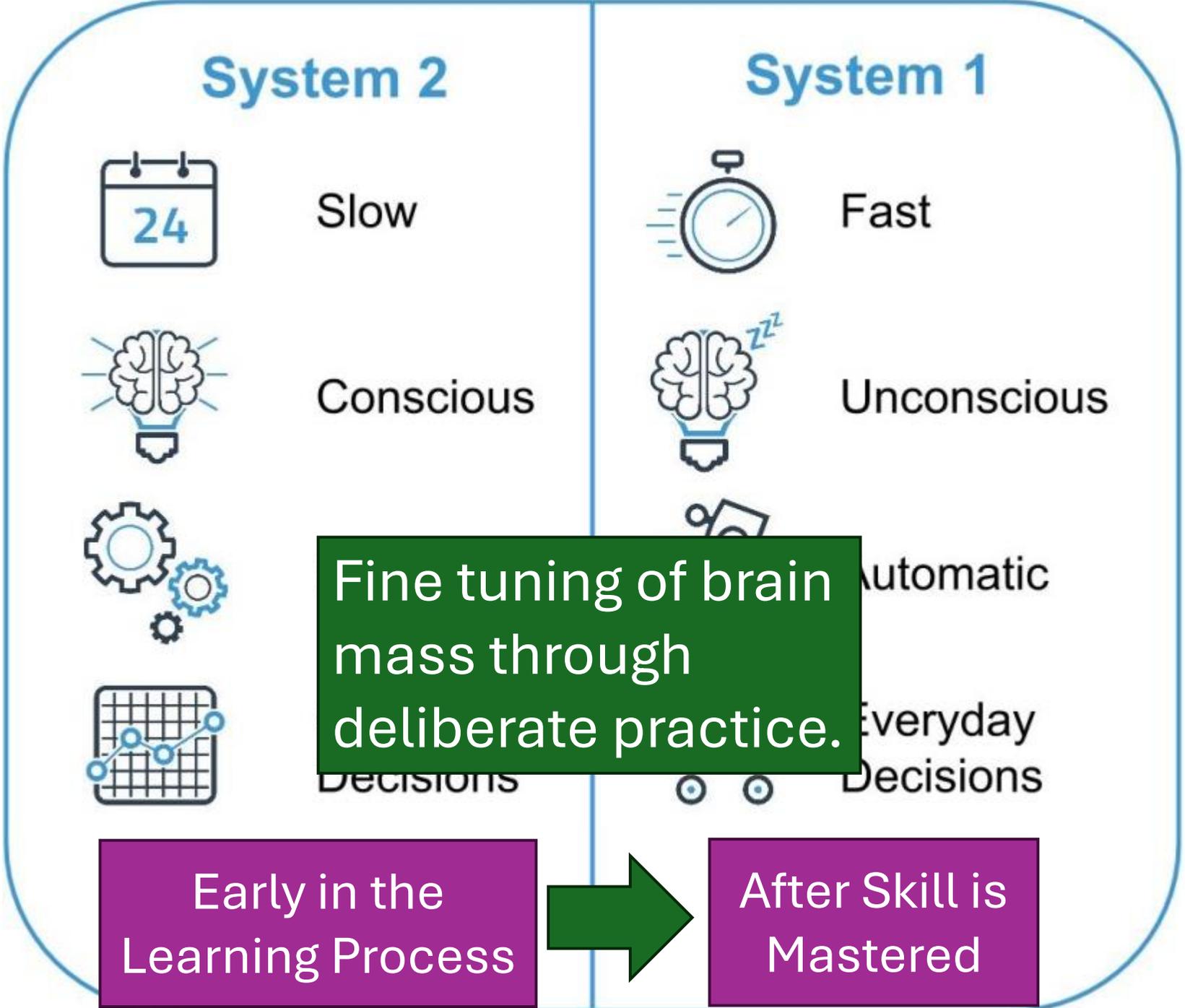
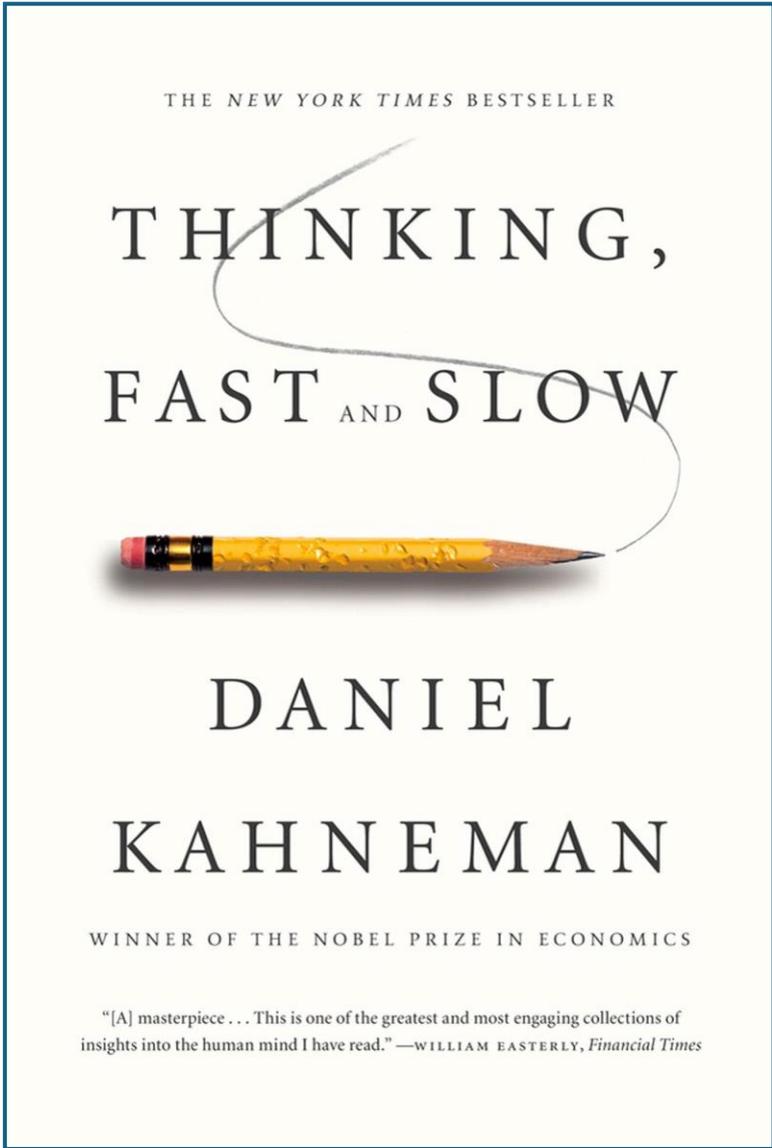
So I will flip the diagram.

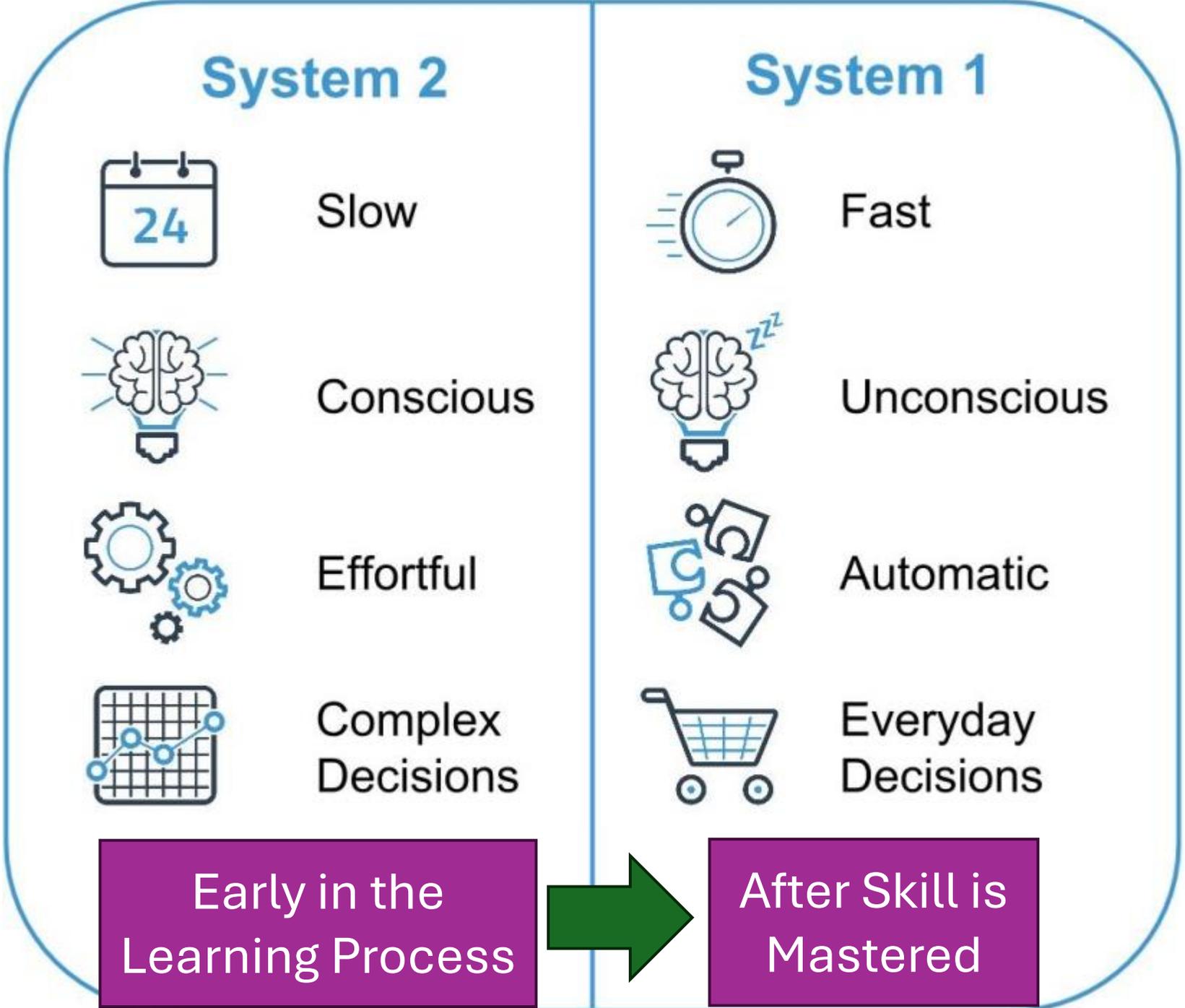
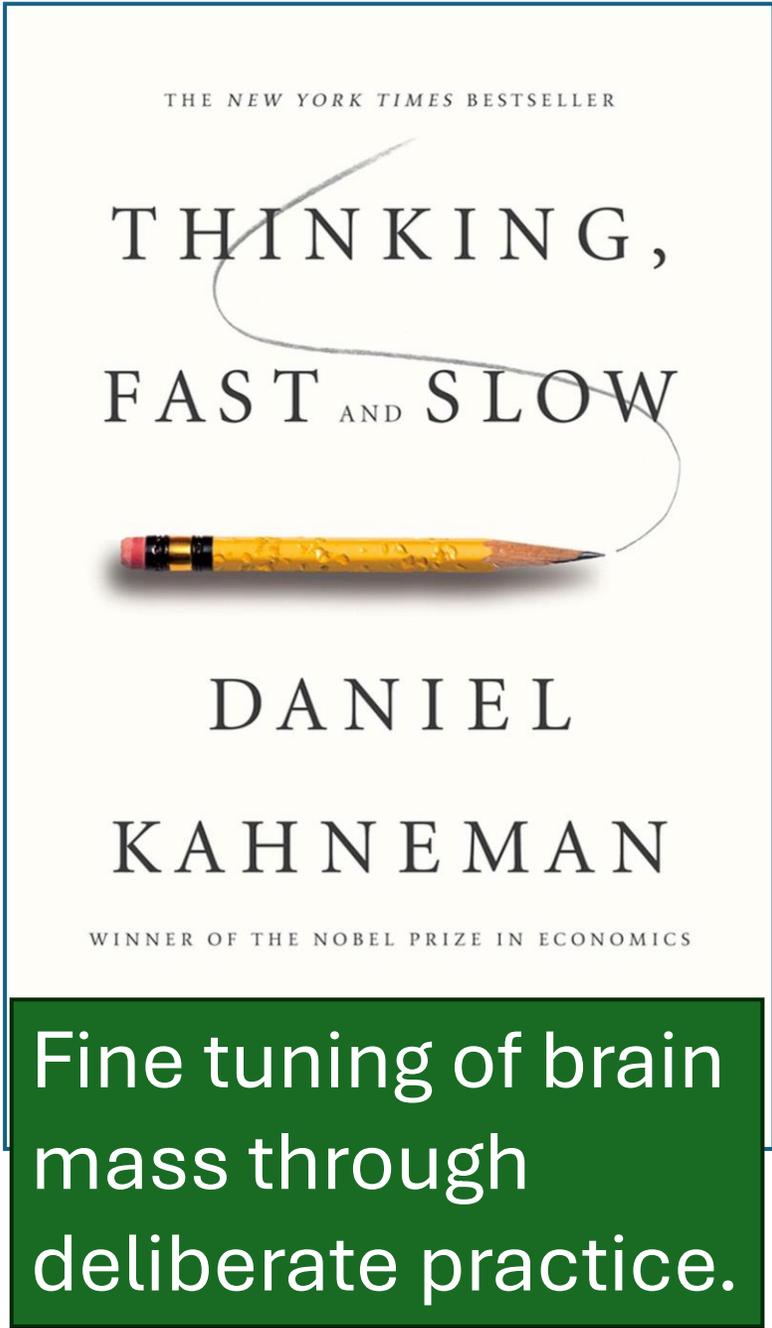


Fine tuning of brain mass through deliberate practice.

After Skill is Mastered

Early in the Learning Process





THE NEW YORK TIMES BESTSELLER

# THINKING, FAST AND SLOW



DANIEL  
KAHNEMAN

WINNER OF THE NOBEL PRIZE IN ECONOMICS

Fine tuning of brain  
mass through  
deliberate practice.

## System 2



Slow



Thinking  
through  
each step.



Effortful



Complex  
Decisions

Early in the  
Learning Process

## System 1



Fast



Unconscious

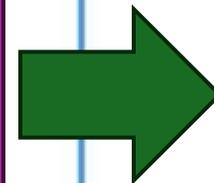


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Early in the  
Learning Process

## System 1



Fast

May not even know  
why what they do is  
working.

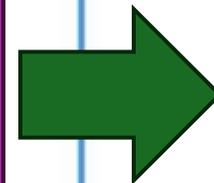


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Slow



Thinking through each step.



Inefficient use of brain. A lot lights up in scans.



Complex Decisions

Early in the Learning Process

## System 1



Fast



May not even know why what they do is working.

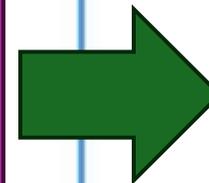


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Everyday Decisions

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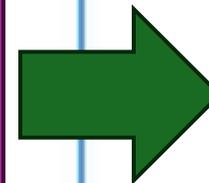


Efficient use of brain. Specific, targeted regions light up in scans.



Everyday Decisions

After Skill is Mastered



THE NEW YORK TIMES BESTSELLER

# THINKING, FAST AND SLOW



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Fine tuning of brain mass through deliberate practice.

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Thinking through each step.



Inefficient use of brain. A lot lights up in scans.



Complex for brain at given time.

Early in the Learning Process

## System 1



Fast



May not even know why what they do is working.

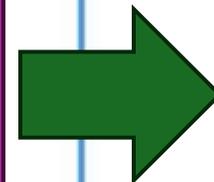


Efficient use of brain. Specific, targeted regions light up in scans.



Everyday Decisions

After Skill is Mastered



THE NEW YORK TIMES BESTSELLER

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Early in the Learning Process

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May not even know why what they do is working.

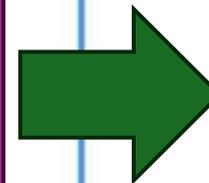


Efficient use of brain. Specific, targeted regions light up in scans.

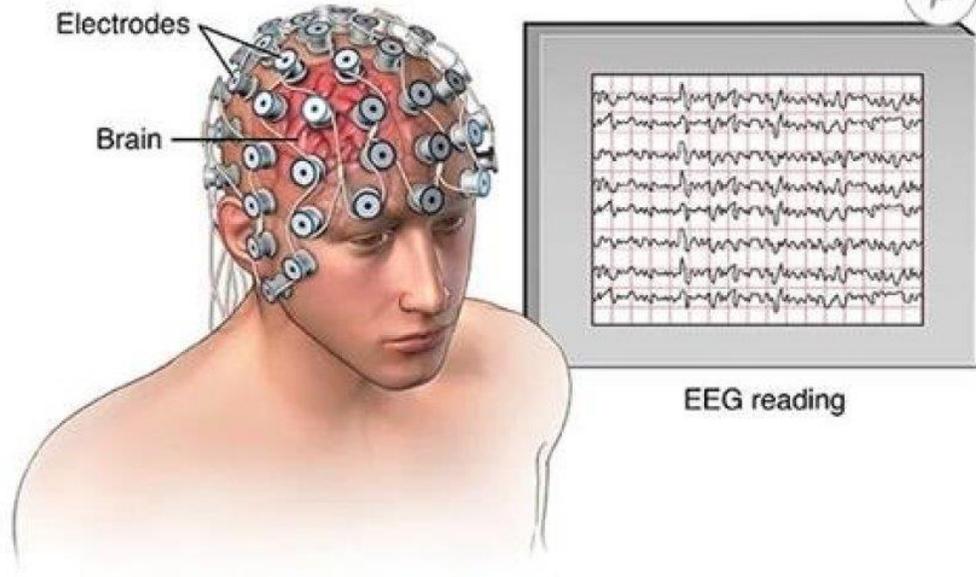


It is automatic. It is easy.

After Skill is Mastered

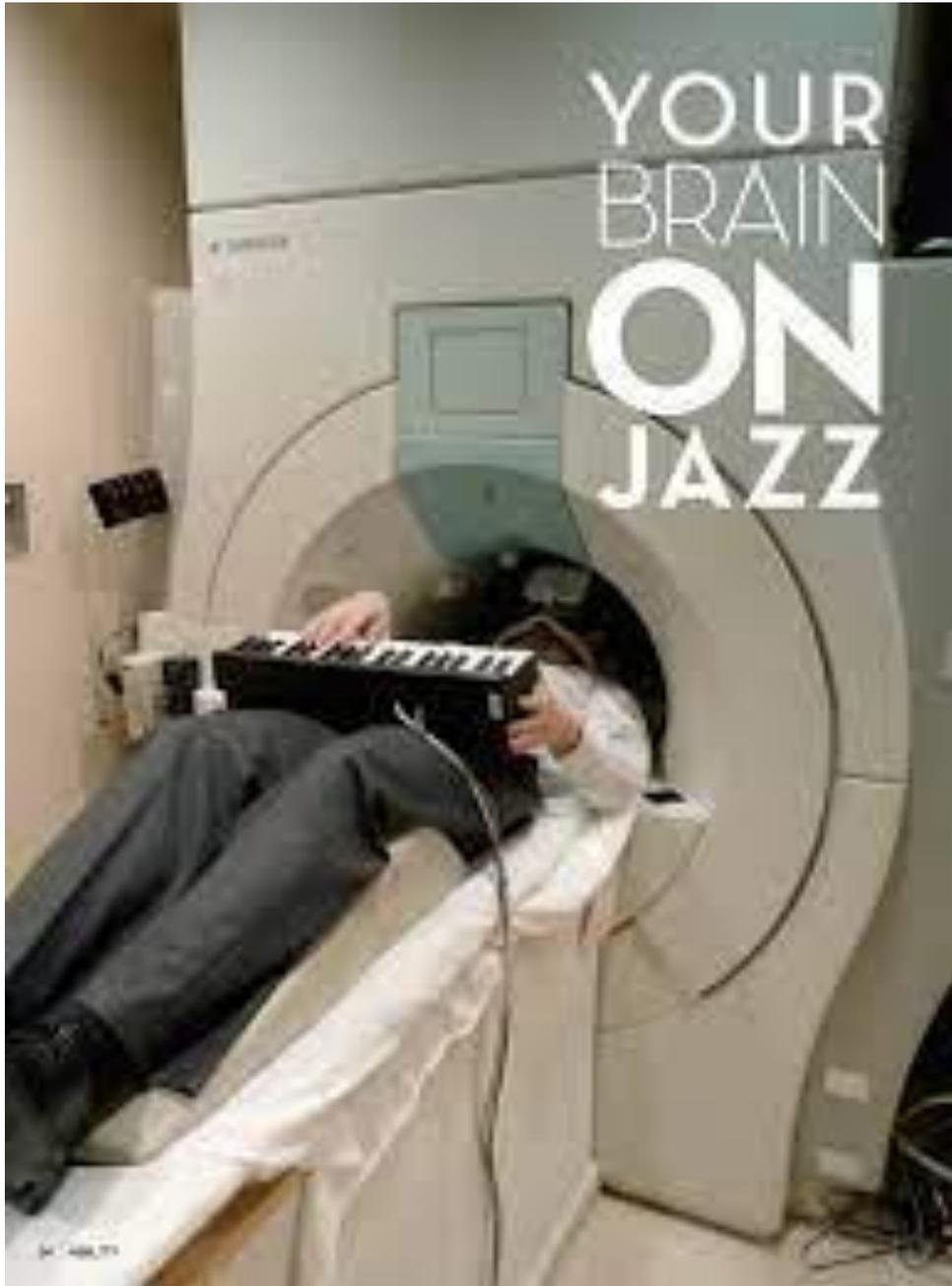


## Electroencephalogram (EEG)



Computer scientists have been doing some astonishing research over the last five years with brain scans.



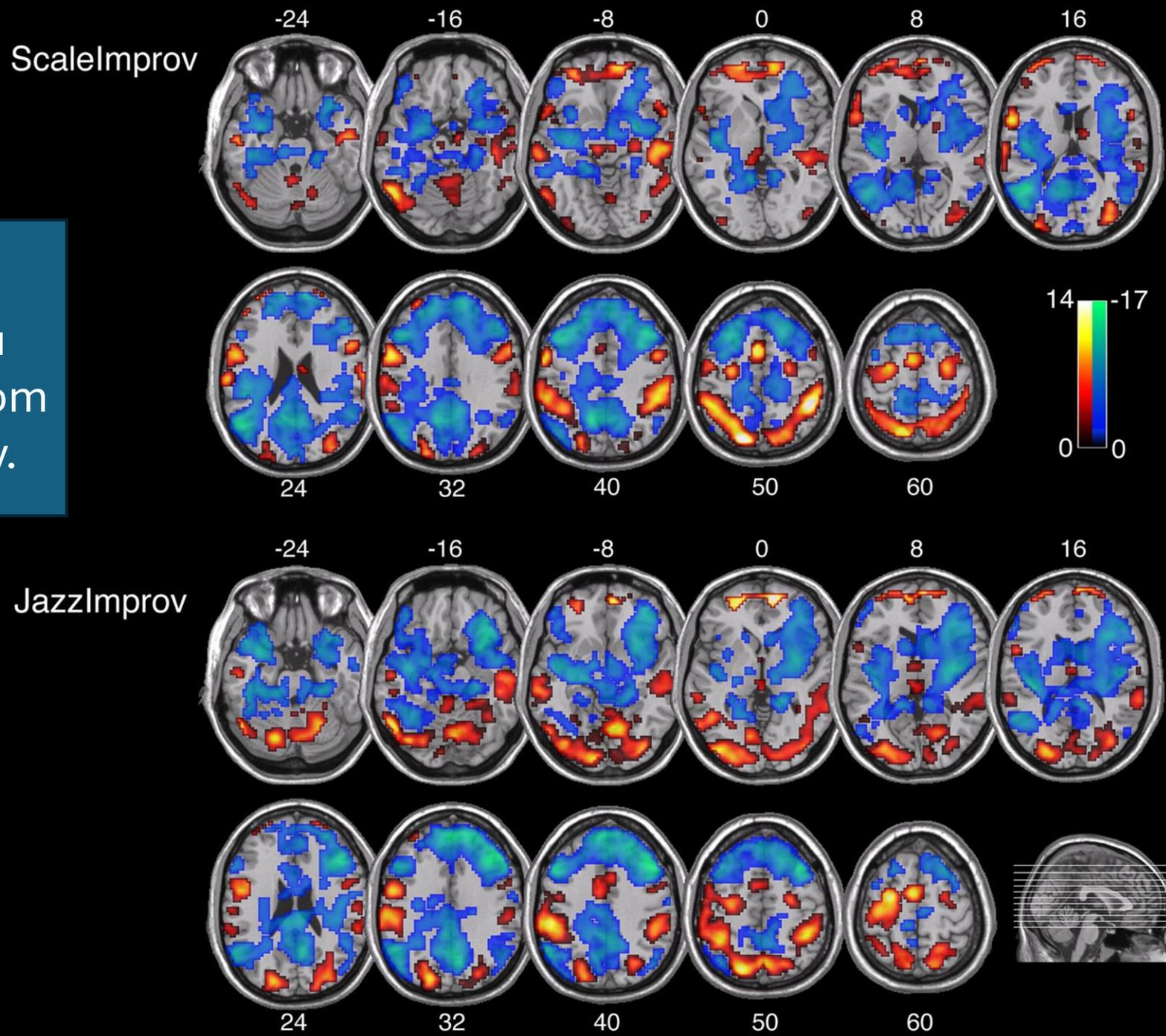


## Charlie Limb, Research on Jazz Musicians' Brains

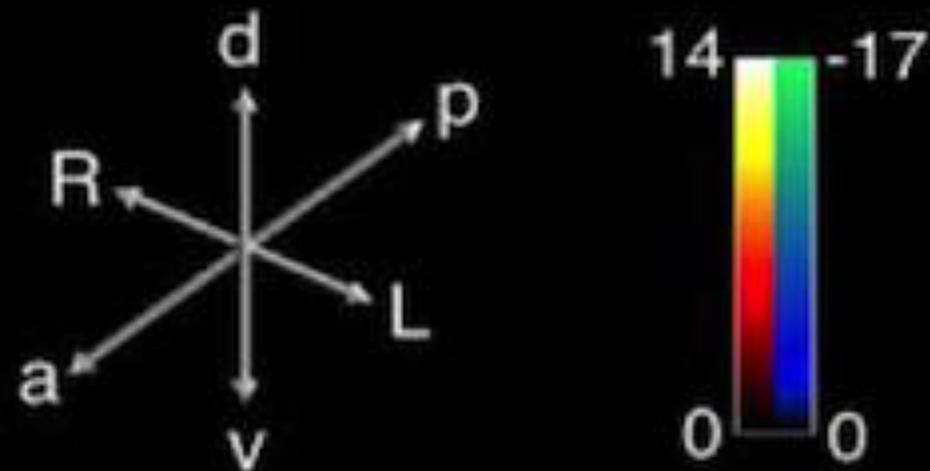
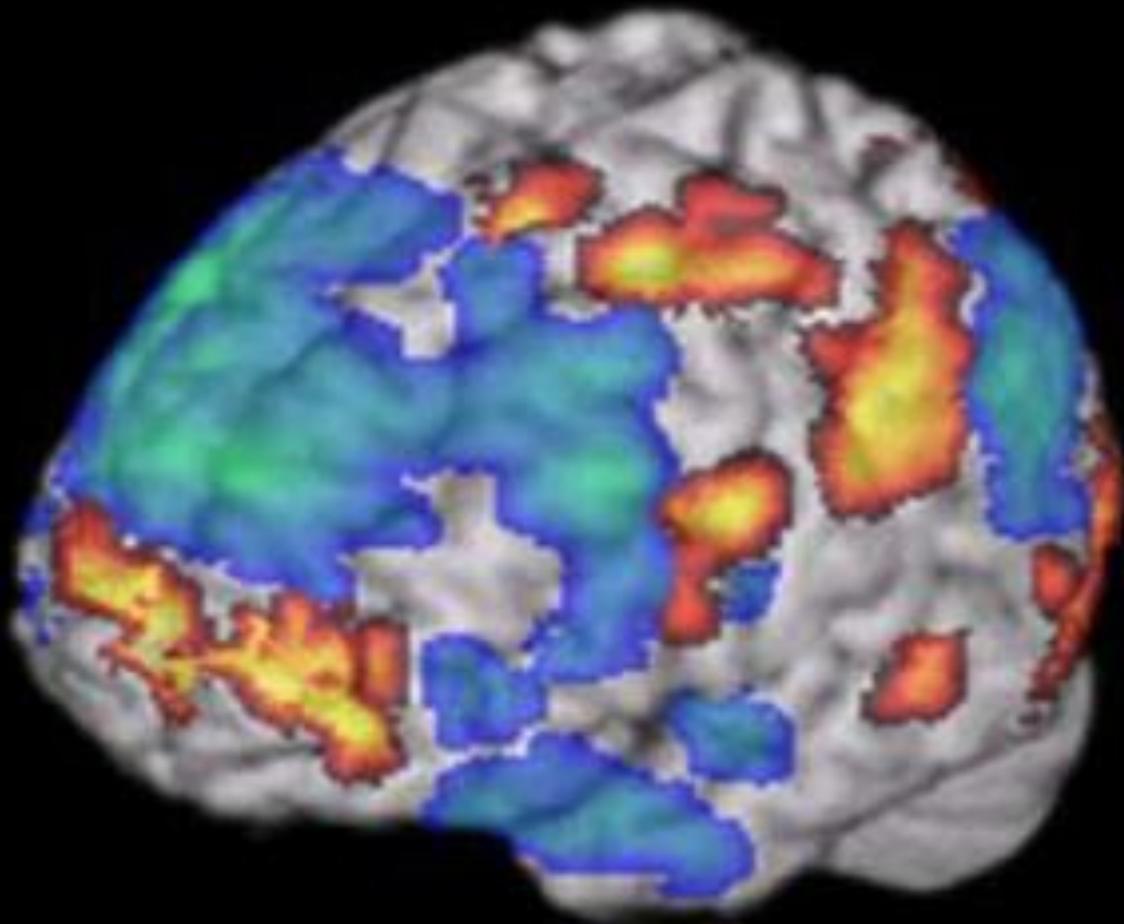


This was some early research, 2008.  
It is one of those studies that has grown in importance.

The scan I showed you earlier was from Limb's study.



Again, from  
Limb's study.

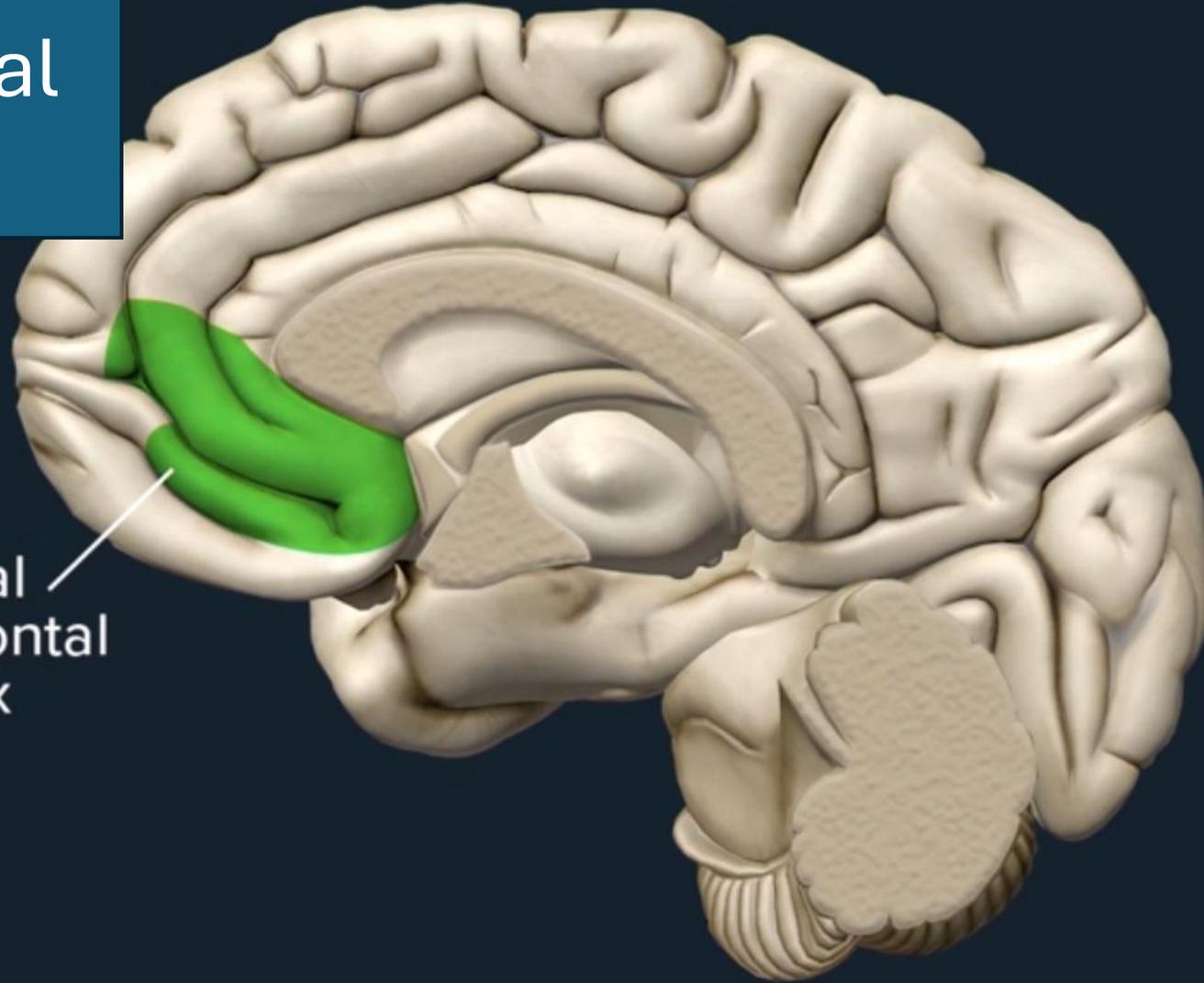


But let me pick some  
simpler diagrams....

More activity in the medial prefrontal cortex.

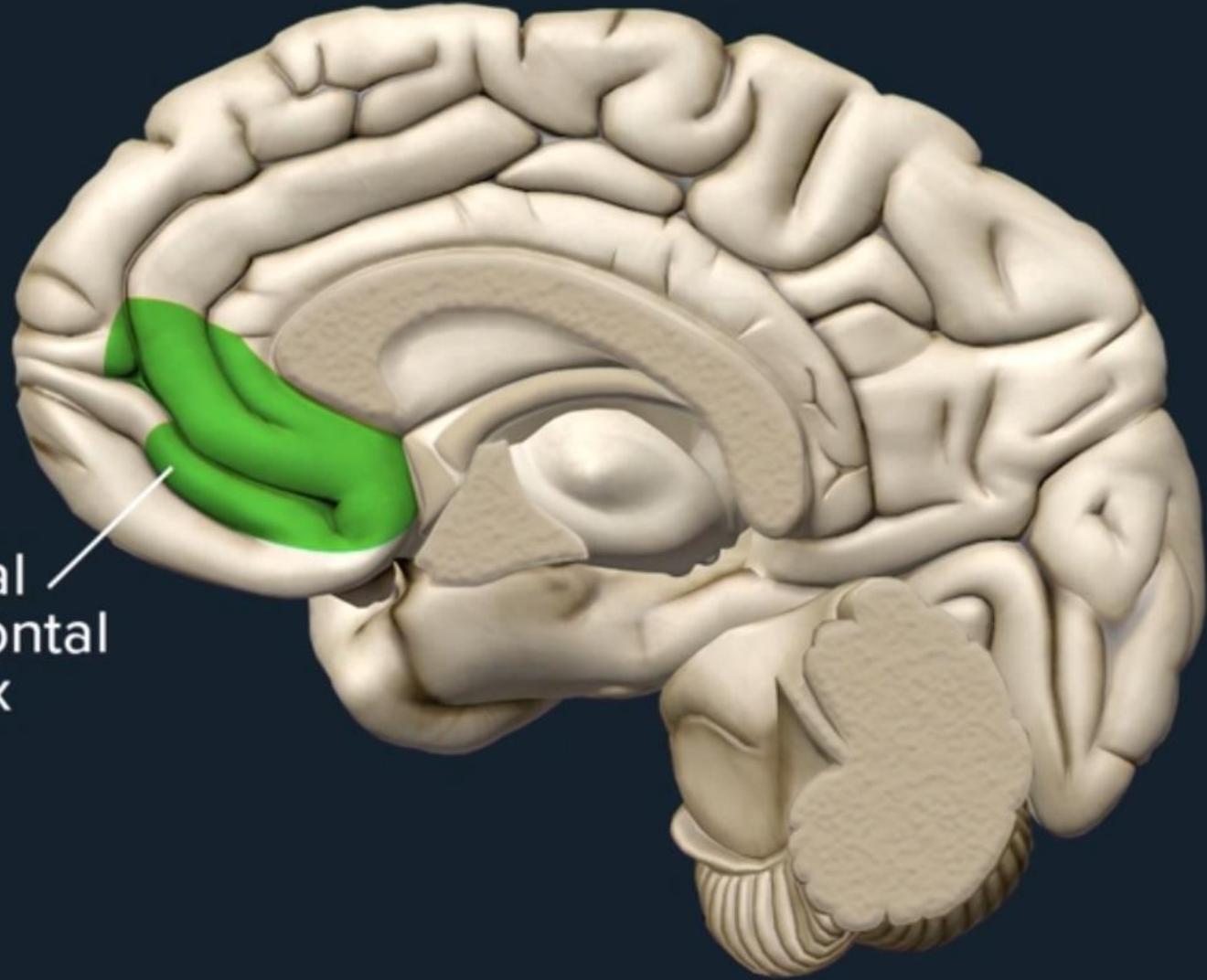
Medial prefrontal cortex

Also used in story telling



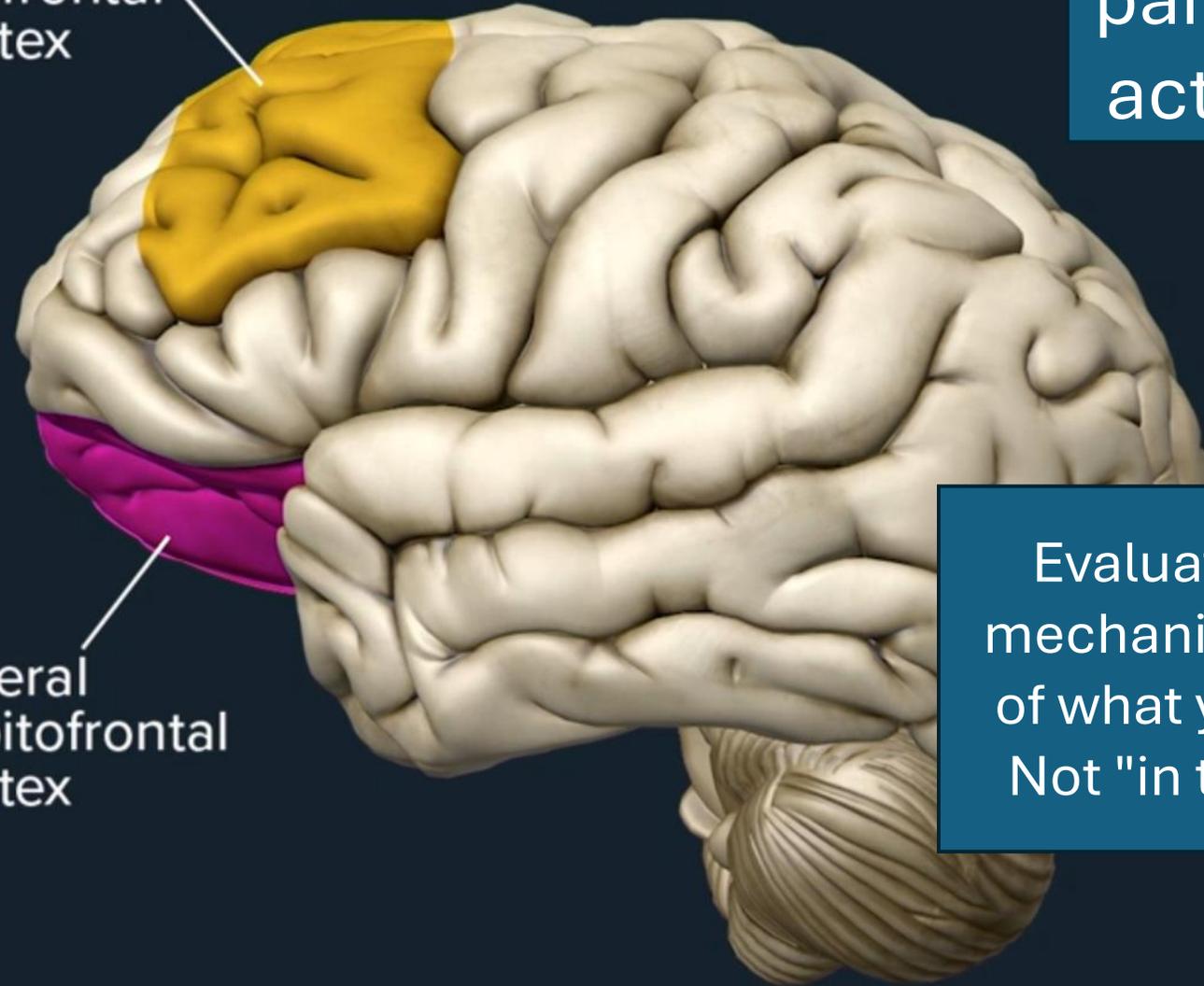
Evidence of the fine tuning that had occurred.

Medial prefrontal cortex



Dorsolateral  
prefrontal  
cortex

Lateral  
orbitofrontal  
cortex



Limb found  
parts were de-  
activated too.

Evaluates what the  
mechanics and quality  
of what you are doing.  
Not "in the moment".

If the artist is pulled out of the pull of their music, the audience always knows. They too are pulled out of the magic of the moment.



Mark Sneider

Dorsolateral prefrontal cortex

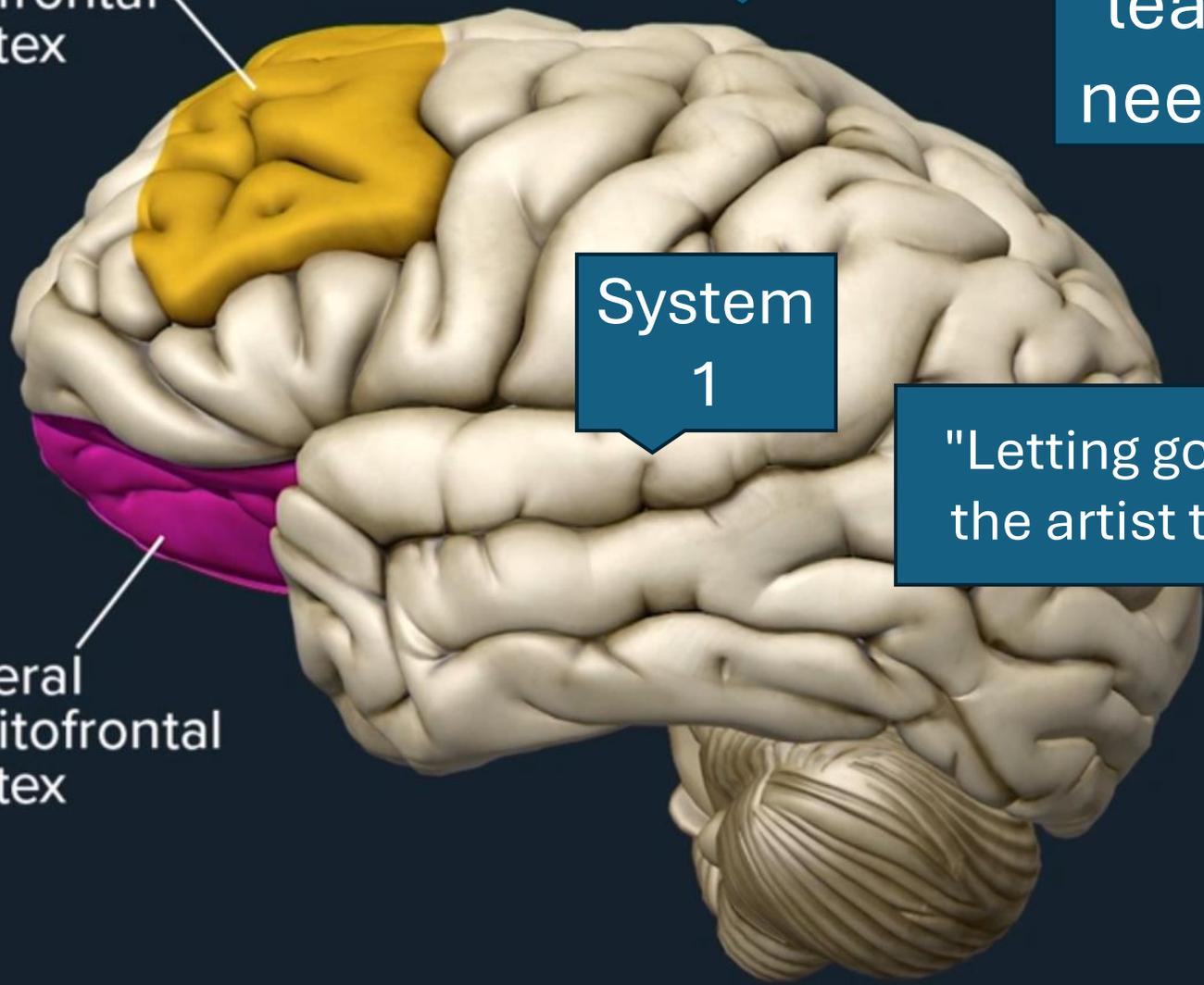
System 2

When you are learning, you need this part.

System 1

"Letting go" - frees up the artist to just play.

Lateral orbitofrontal cortex

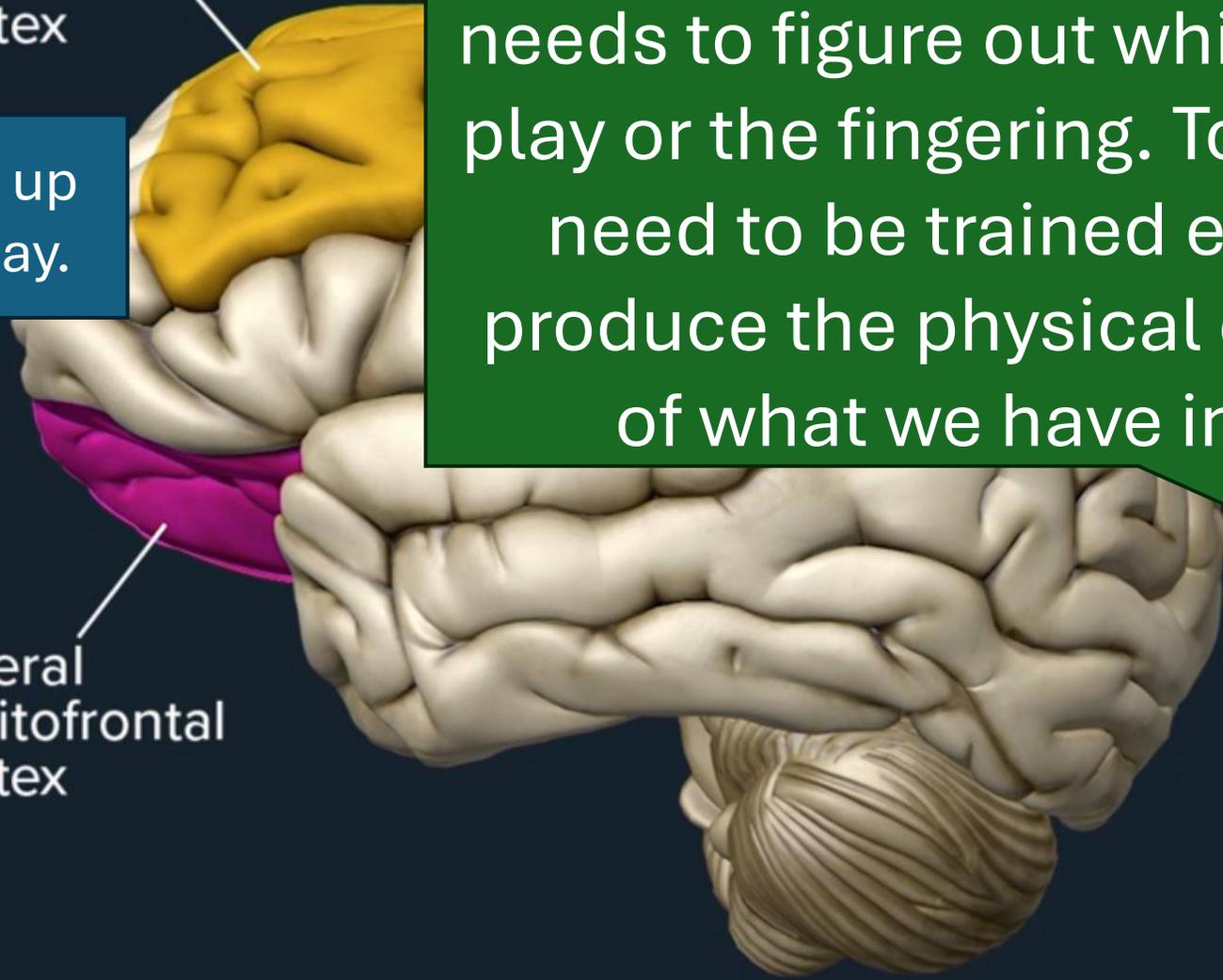


Dorsolateral prefrontal cortex

"Letting go" - frees up the artist to just play.

Lateral orbitofrontal cortex

You can't do that if your brain needs to figure out which notes to play or the fingering. To let go, you need to be trained enough to produce the physical expression of what we have in mind.

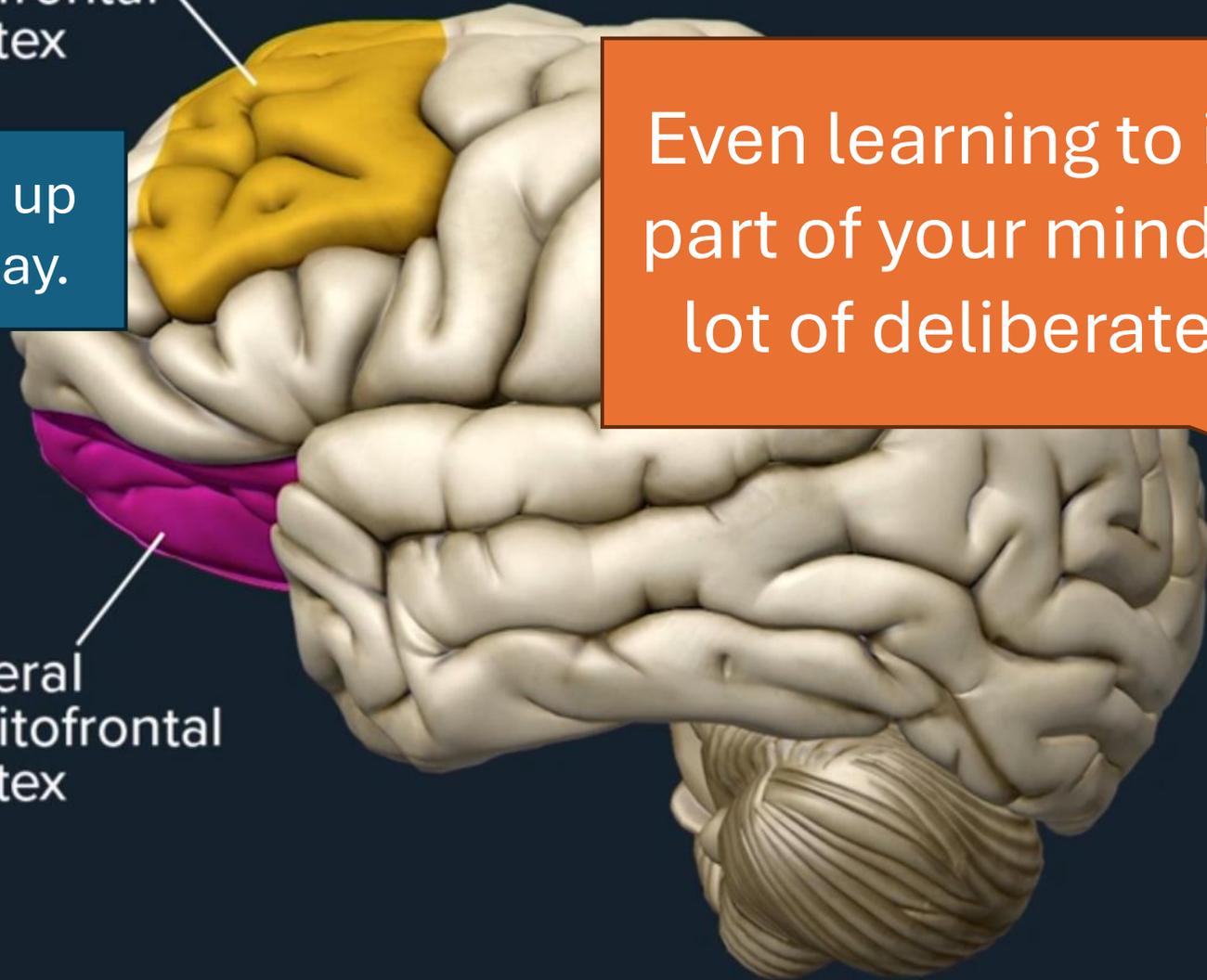


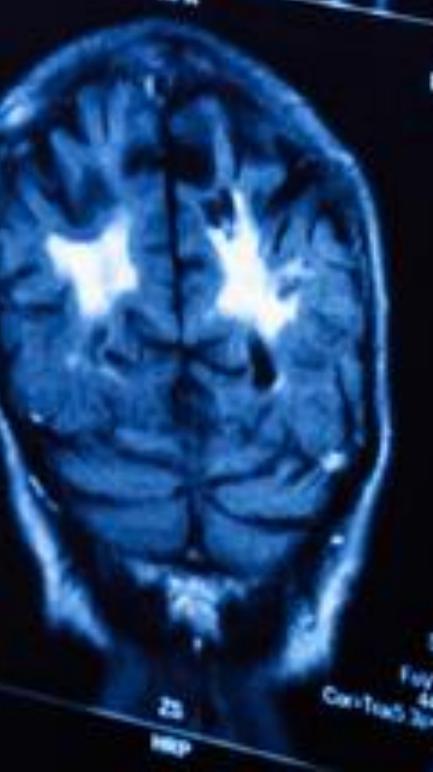
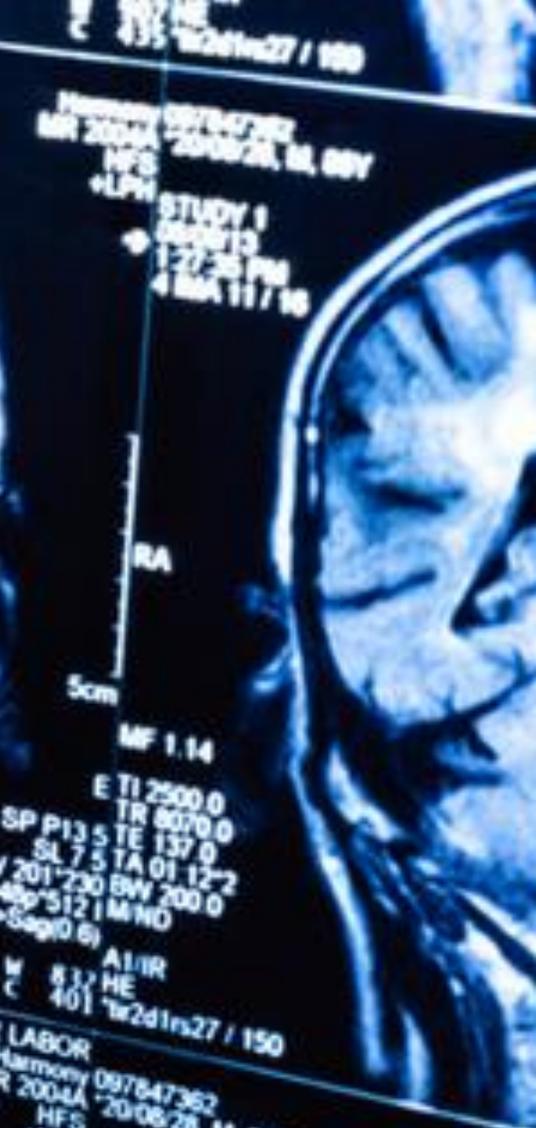
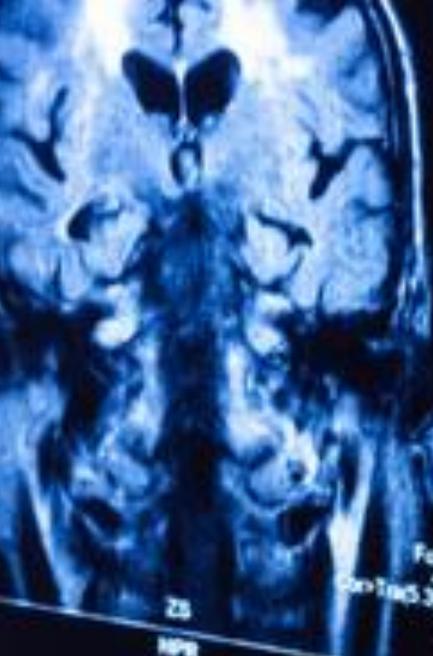
Dorsolateral  
prefrontal  
cortex

"Letting go" - frees up  
the artist to just play.

Even learning to inhibit that  
part of your mind requires a  
lot of deliberate practice.

Lateral  
orbitofrontal  
cortex







Cognitive Offloading

Is AI making us dumber? Maybe. | Charlie Gedeon |  
TEDxSherbrooke Street West, Uploaded: Sep 4, 2025  
<https://www.youtube.com/watch?v=m8WomdCLBqE>

"Dark Pattern" - concept in User-Interface design.  
The screen set up manipulates the user.



A screenshot of a checkout page for a ZSL London Zoo Guide Book. The page is divided into two main sections. The left section is titled "SUPPORT WILDLIFE WITH A 10% DONATION" and contains text explaining that ZSL is a wildlife conservation charity and that a 10% donation is included in the price of the ticket. It also mentions that including this amount and selecting the Gift Aid option at checkout means the purchase can be treated as a donation, allowing for an extra 25p for every £1 spent at no extra cost. At the bottom of this section are two buttons: "ADD TO BASKET without donation" (a blue-outlined button pointing left) and "ADD TO BASKET with donation" (a solid green button pointing right). The right section is titled "Your Basket" and features a giraffe icon. It shows the recipient as "Yourself", the chosen date as "Saturday 11th March 2017", and 2 x Adult tickets for £24.30 each. There is a discount code field with an "ACTIVATE" button. At the bottom right, a dark grey box displays "To pay today: £48.60".

Is AI making us dumber?  
Maybe. | Charlie Gedeon |  
TEDxSherbrooke Street West,  
Uploaded: Sep 4, 2025  
<https://www.youtube.com/watch?v=m8WomdCLBqE>

"Dark Pattern" - concept in User-Interface design.  
The screen set up manipulates the user.



A screenshot of a checkout page for a ZSL London Zoo Guide Book. The page is divided into two main sections. On the left, there is a product card for the 'ZSL London Zoo Guide Book' with an 'ADD TO BASKET +' button. Below this is a section titled 'SUPPORT WILDLIFE WITH A 10% DONATION'. It contains text explaining that ZSL is a wildlife conservation charity and that a 10% donation is included in the price. It also mentions that selecting the Gift Aid option at checkout allows for a 25p tax credit for every £1 spent. At the bottom of this section are two buttons: a blue button labeled 'ADD TO BASKET without donation' and a green button labeled 'ADD TO BASKET with donation'. A red arrow points to the green button. On the right side of the page is a 'Your Basket' section with a giraffe icon. It shows the recipient as 'Yourself', the chosen date as 'Saturday 11th March 2017', and 2 adult tickets for £24.30 each. There is a discount code field with an 'ACTIVATE' button. At the bottom right, a dark grey box displays 'To pay today: £48.60'.

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**“...The more pernicious outcome is that generative AI becomes complicit in intellectual deskilling and the atrophy of human critical thinking faculties.”**

Advait Sarkar

When Copilot Becomes Autopilot

When Copilot Becomes Autopilot.

The author says the risk of moving to autopilot is an even greater challenge than the more commonly discussed issue of AI hallucinations or factual errors, because the more pernicious outcome is that generative AI becomes complicit in intellectual de-skilling and the atrophy of human critical thinking faculties.

The medium is the message  
because it is the medium that  
shapes and controls the search and  
form of human associations and  
action.

— *Marshall McLuhan* —

Consider  
medium's  
message to  
your children.  
Is it what you  
want?

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Passive  
acceptance

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— Marshall McLuhan —

Consider  
medium's  
message to  
your students.  
Is it what you  
want?

Passive  
acceptance

Replacing  
humans

The medium is the message  
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Consider  
medium's  
message to  
your children.  
Is it what you  
want?

Passive  
acceptance

Replacing  
humans

Implicit bias

The medium is the message  
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Consider  
medium's  
message to  
your children.  
Is it what you  
want?

Passive  
acceptance

Replacing  
humans

Implicit bias

Struggle and  
challenge has  
no value

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Passive  
acceptance

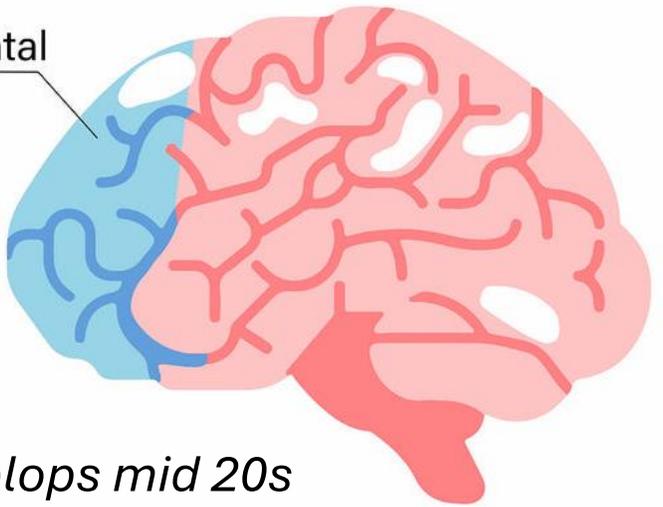
Replacing  
humans

Implicit bias

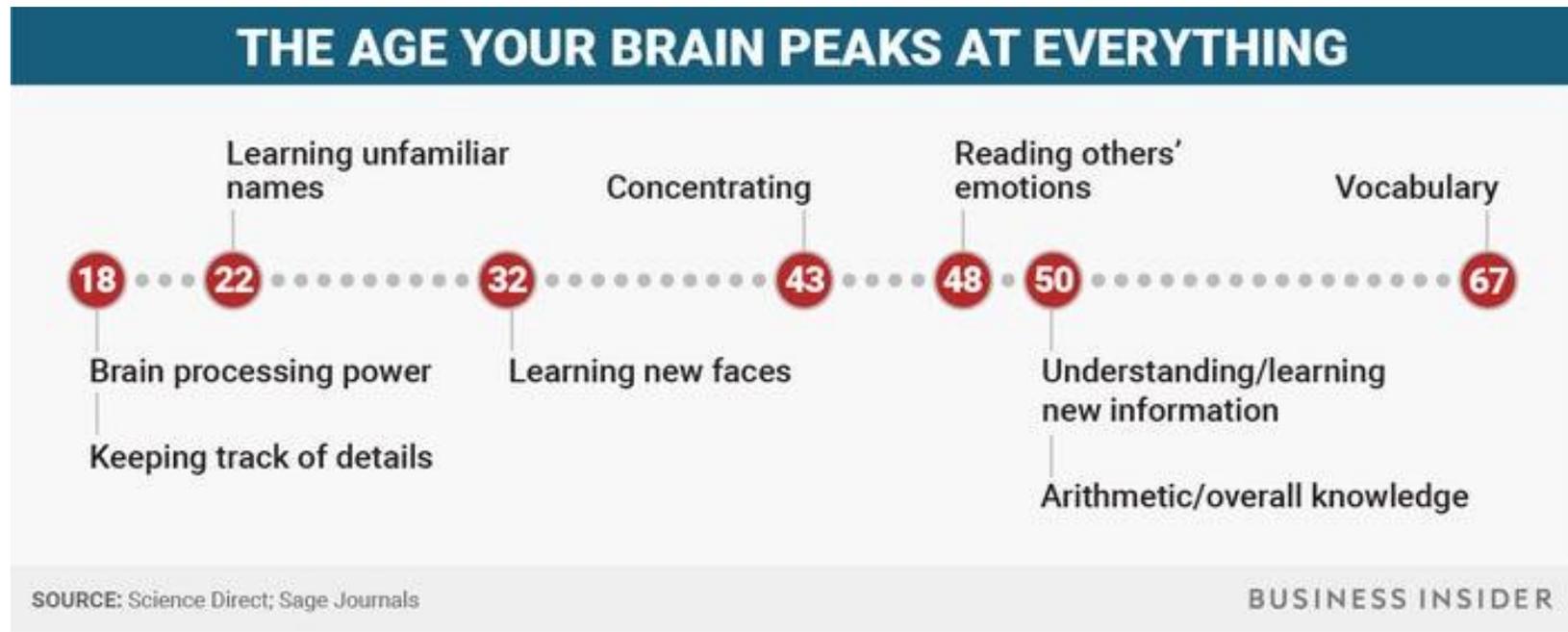
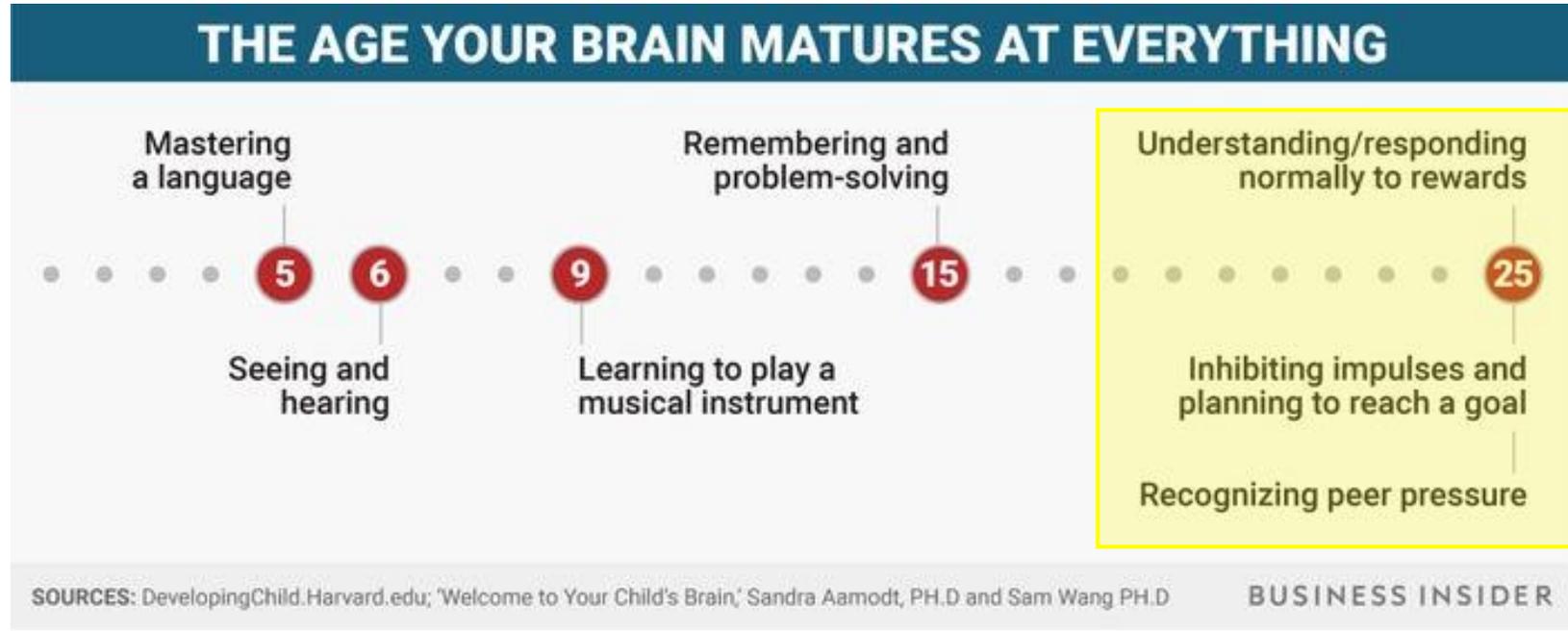
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challenge has  
no value

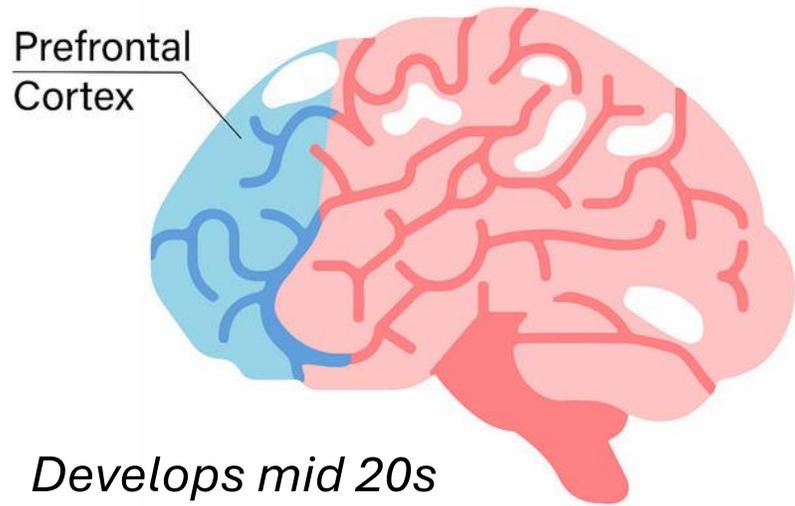
You are a user,  
not a creator

Prefrontal Cortex



Develops mid 20s  
Brain's Center for **executive functions:**  
planning, decision making, problem solving, impulse control and personality expression.





*Develops mid 20s*

Brain's Center for

**executive functions:**

planning, decision making, problem solving, impulse control and personality expression.

Because of where their brain development is at, it is hard for teenagers to remember the importance of brain growth. That's where we need to step in to remind them.



Suitable for All



Parental guidance  
advised



Persons under 14 must be  
accompanied by an adult



Persons under 18 must be  
accompanied by an adult



Restricted to persons  
18 or older



Consider the fact that not all tech is good for all ages of brains. There are times we and you might want to discourage AI use.



## Educating Kids in the Age of A.I. | The Ezra Klein Show

YouTube · The Ezra Klein Show

May 13, 2025

Rebecca Winthrop is the director of the Center for Universal Education at the Brookings Institution. She is also an author, with Jenny Anderson, of “The Disengaged Teen: Helping Kids Learn Better, Feel Better, and Live Better.” We discuss how A.I. is transforming what it means to work and be educated, and how our use of A.I. could revive — or undermine — American schools.

Transcript: Accessed: Jan 13, 2026 <https://www.nytimes.com/2025/05/13/opinion/ezra-klein-podcast-rebecca-winthrop.html>

You Tube: <https://www.youtube.com/watch?v=HQQtaWglQmE>



Educating Kids in the Age of A.I. | The Ezra Klein Show

We 100 percent want kids to have **the capacity for deep attention**. So anything that we can do to actually ensure young people are developing the [deep-attention] muscle. And it's not just attention. Attention is the entry point, the doorway that gets you through. It's actually reflection and meaning-making, which is what you get from deep reading and reading full books, which a lot of young people struggle to do today.



Educating Kids in the Age of A.I. | The Ezra Klein Show

And the idea is if they get good grades and they seem happy and well-adjusted, then at the end of that process, they'll go to a good college or go to a trade school and get a good job. And it's going to be a pretty straight line: All A's equals good job.

The future is foggier. What they'll need to know is maybe a little foggier. What then should a parent be trying to watch in the meantime? How do you think about whether or not your kid's education is going well if you're a little suspicious that the grades designed for — and maybe even not that well designed for — the society we have had are not going to correlate all that well to the society we will have?



Educating Kids in the Age of A.I. | The Ezra Klein Show

Is my kid developing agency over their learning?

And what I mean by that is: Are they able to reflect and think about things they're learning in a way that they can identify what's interesting and **they can have the skills to pursue new information**?

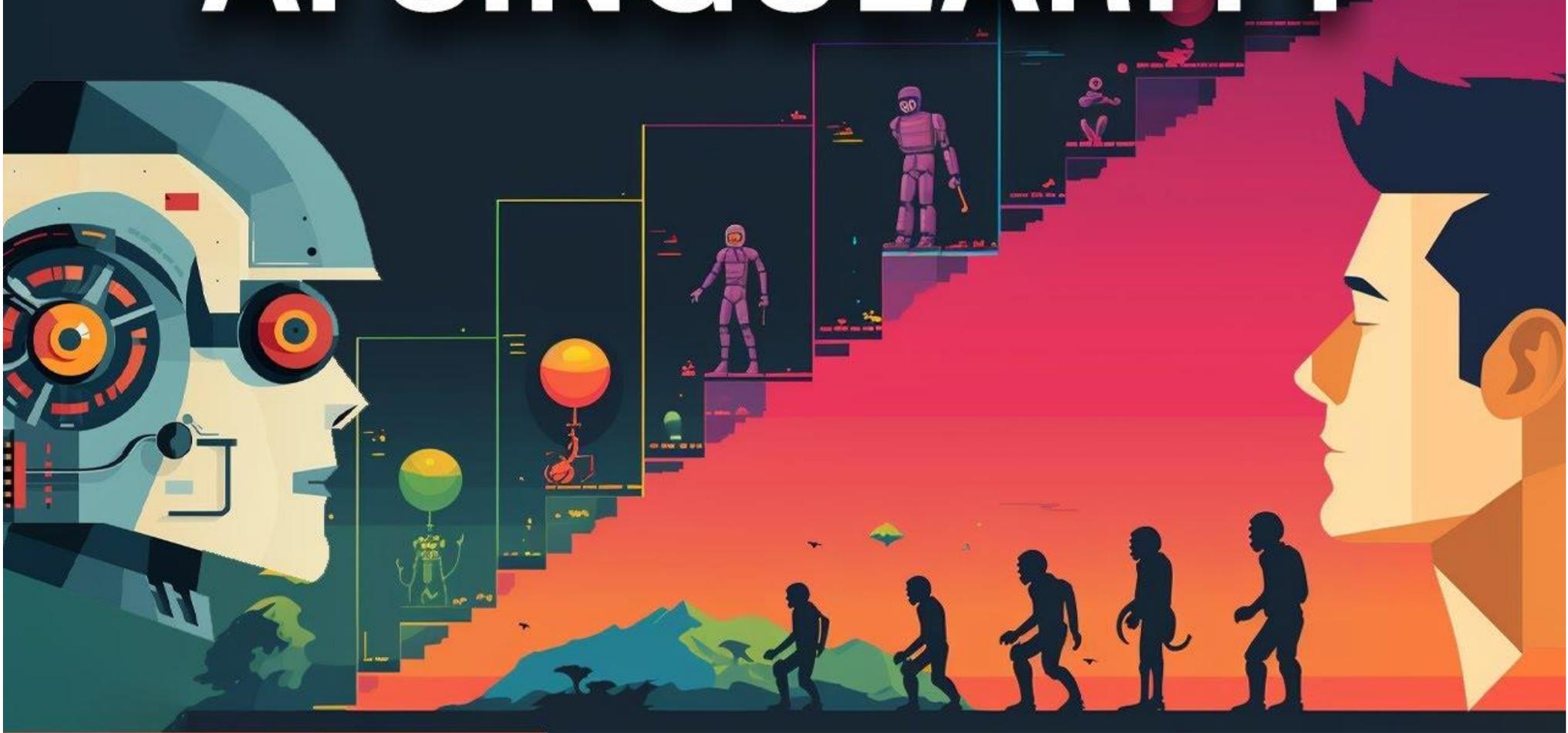
That right there is, I think, going to be the core skill. It is the core skill for learning new things in an uncertain world, which is I think one of the No. 1 things we think about.

In addition to that, I would say make sure kids are learning to **interact with other human beings** — any school that has them working with peers but even connecting with community members.

A hand holds a white tablet in the foreground, displaying white text on a dark background. The background is a blurred classroom with students at desks, some using laptops. The text on the tablet reads: AI education is too big and too important to get wrong.

AI  
education  
is too big  
and too  
important  
to get  
wrong.

# AI SINGULARITY



If you extrapolate forward, by 2045, a single desktop computer is projected to have computing power that is equivalent to all human minds on Earth.

Know what people  
are doing with the  
new tech.

Know how the tech  
works.

Think deeply about  
the impacts of the  
new tech.

Then, and only then,  
decide how to use it.

