AUSTIN FORUM

ON TECHNOLOGY & SOCIETY

Connect. Collaborate. Contribute.™

Welcome to the

Austin Forum on Technology & Society!

We cover emerging, disruptive, and pervasive technologies to help you understand how these can and will impact your organizations, communities, and lives!

We bring leaders, thinkers, builders, creators, and learners together to ***connect, collaborate, and contribute!***

And welcome to our 3rd **AI April**!

(This month, all of our events and podcasts are about AI!)

AI: How to Jump In Right Away

April 2, 2024

Our Partners Make Austin Forum Possible!

Please contact us if you want to become an annual partner!

We have **6** ways to learn, share, connect!

Live monthly events	Online content
Presentation + Networking events • Expert presenter-focused • In-person and online—hybrid • Recording and slides posted online	**Workshops** • Offered by Austin Forum partners and friends • Free, or with special discounts for AF attendees • Designed to accelerate technical understanding, expertise
Meetup discussion events • Participatory for everyone • In-person ***only*** • Never recorded—speak freely!	**Podcasts – Austin Forum Upload** • Audio only • Conversation formats • Hosted in all major podcast stores, AF website
Book discussion events • Participatory for everyone • Online ***only*** • Never recorded—speak freely!	**Slack Community, Website, Newsletter** • Get updates and register for events • Learn more about the Austin Forum • Ask questions, share, etc. (Slack)

Austin Forum Upload: New episodes out now!

GET IT ON Google Play | Listen on Apple Podcasts | Listen On Spotify

We're back! New AI episode!

Episode #76 - The Smart AF Team - Insights and Observations on AI

and also check out:

Episode #70 – Are Large Language Models the Evolution of Information Organization? w/Byron Reese

Before we get started, join our slack

Why join the Austin Forum Slack workspace?

1. Continue and deepen the conversation after Austin Forum events
2. Find new opportunities for collaboration, mentoring, working, and more
3. Promote local events and relevant Tech & Society opportunities
4. Because this gives *everyone* in our community—online and in-person—the *same* way to ask questions!

How?

1. Open a web browser
2. Go to: www.austinforum.org/slack
3. Click "Join the Austin Forum Slack Workspace"
4. Enter your email address
5. Check your email to confirm Slack invitation
6. Enter your name and click "Create Account"
7. You're in! You can use the Slack mobile app now, too.
8. Add channels to your view using **+ Add channels**)

Q: What is your favorite movie, TV show, book or podcast about AI (non-fiction or fiction)? (30 secs, type in Zoom Chat)

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 

And now, our featured presentation…

Please:

- ✓ ***Respect our speakers & audience***

  Use Zoom Chat but be respectful of our attendees and speaker

- ✓ ***Ask questions*** using Zoom Q&A and we will select some at the end (time permitting)

- ✓ ***Learn, think, and enjoy!***

AI: How to Jump In Right Away

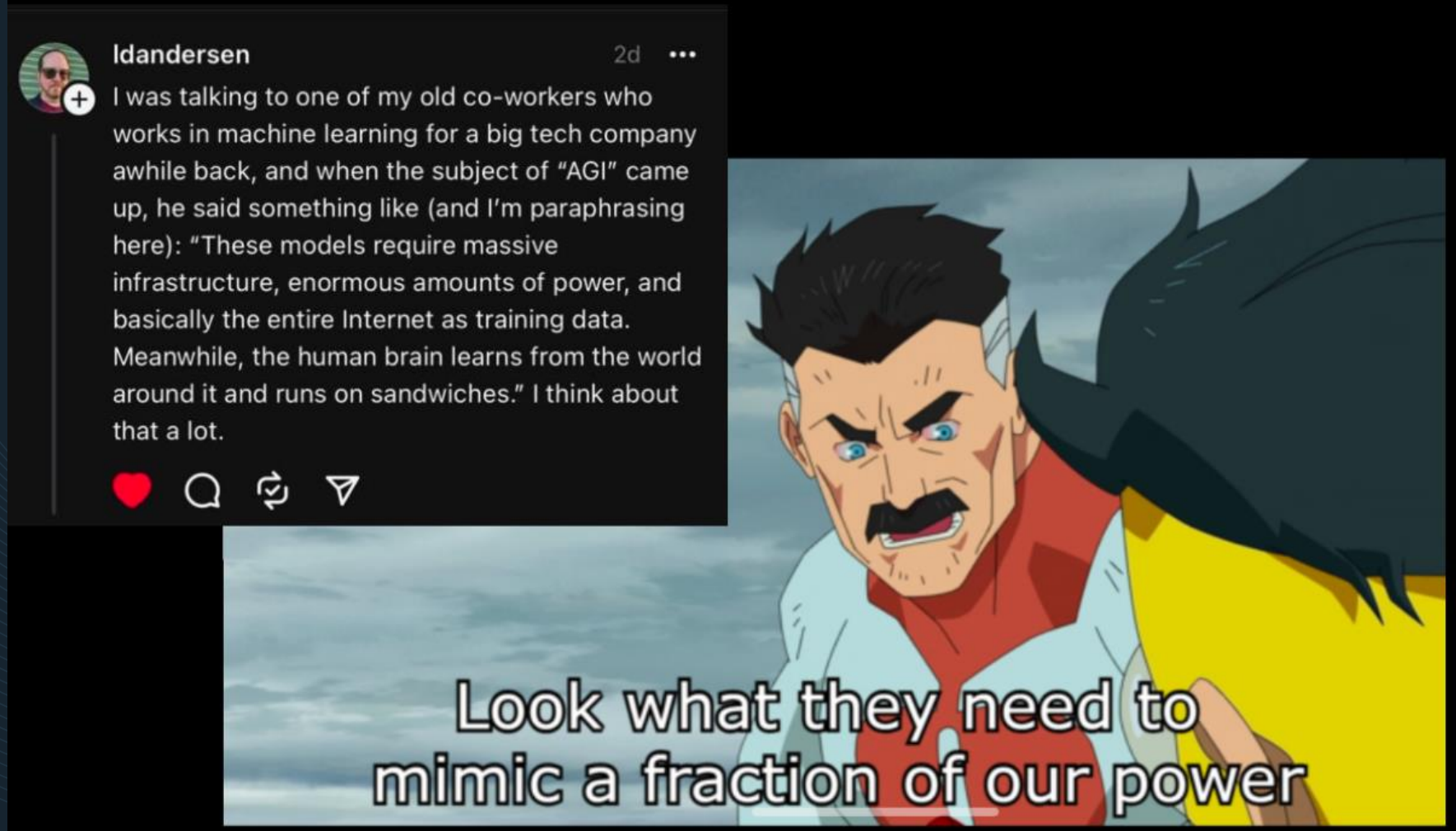
April 2, 2024

Slides:
globalnerdy.com/ai-jump-slides

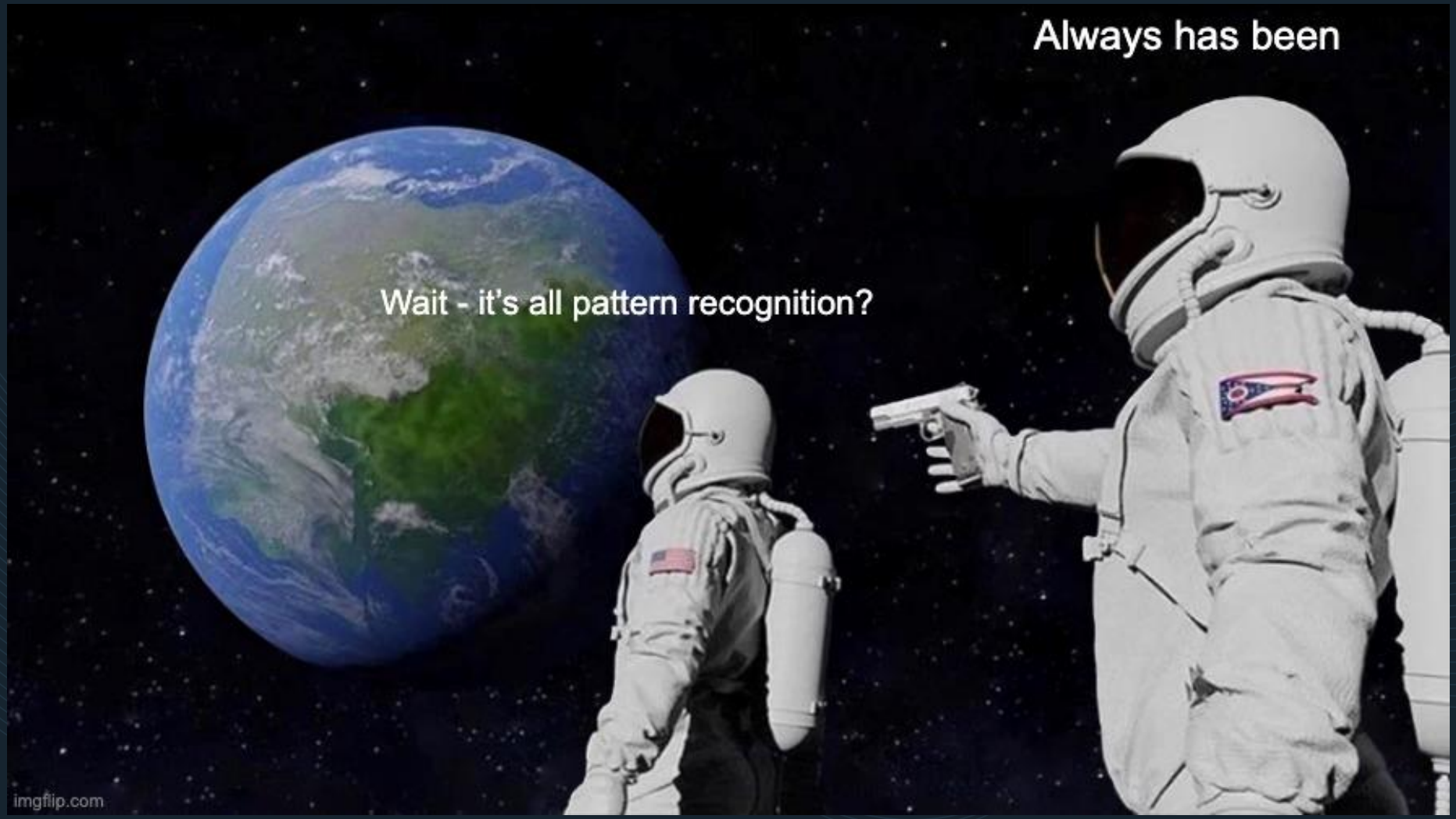
ELIZA
globalnerdy.com/eliza

Jupyter Notebook:
globalnerdy.com/ai-jump-notebook

If you remember only four things from this talk...

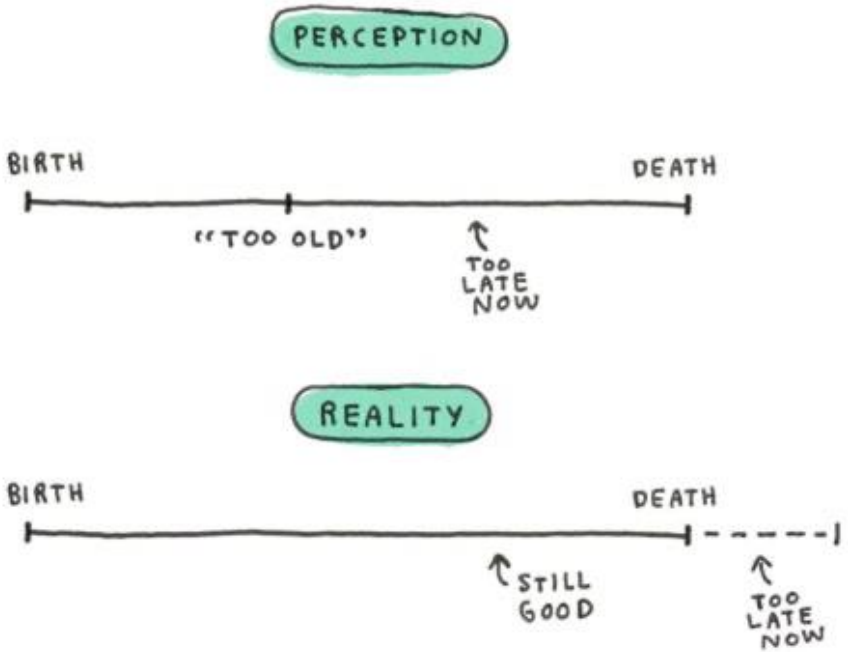


Special thanks to Jason Lee (linkedin.com/in/jason-lee-b473711b6) for the idea!



More than ever, tech in general (and AI in particular) needs people who give a damn about ETHICS.

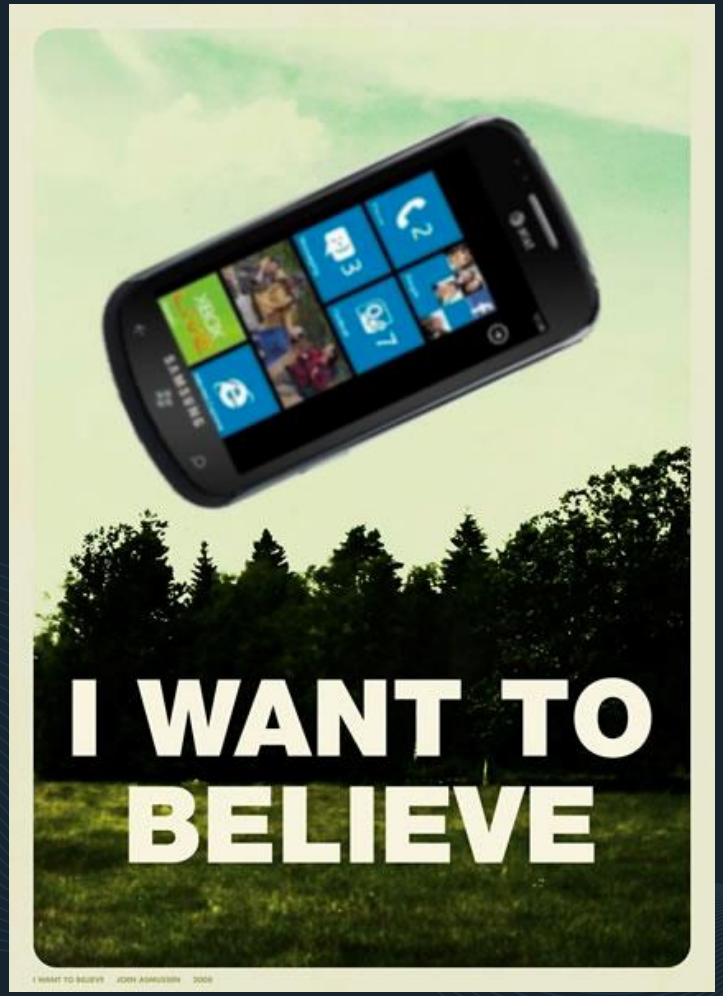
IS IT TOO LATE TO START?

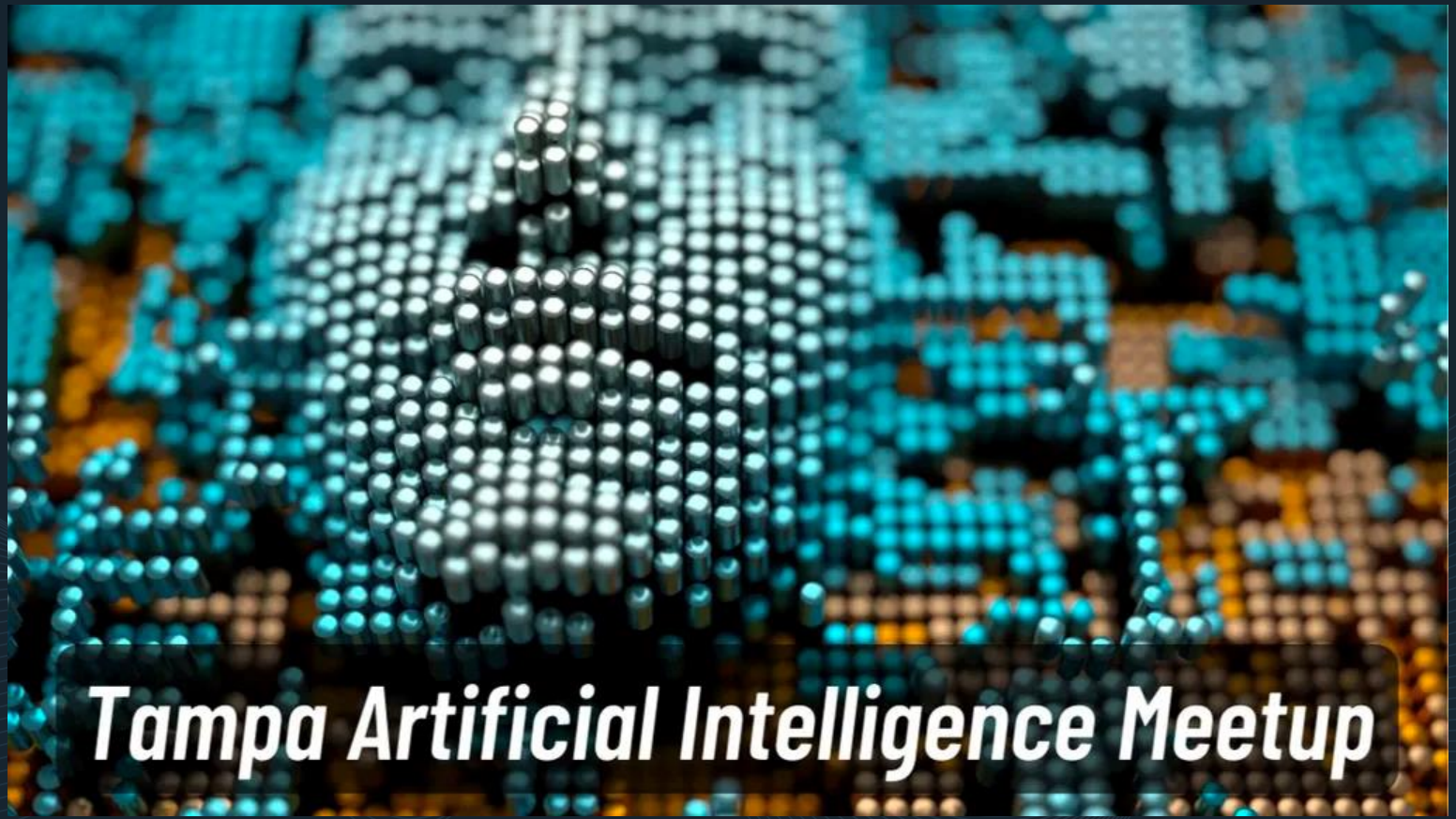


MICHELLE RIAL

I’m Joey de Villa…

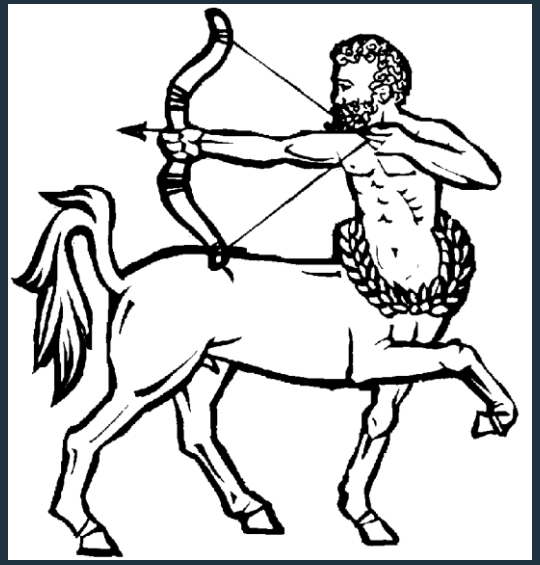
- Laid-off Senior Developer Advocate for Auth0 by Okta
- Co-author of *iOS Apprentice*, 8th edition
- Former developer advocate at Shopify, Microsoft, Tucows
- Learned Python at Burning Man
- 2nd-most featured





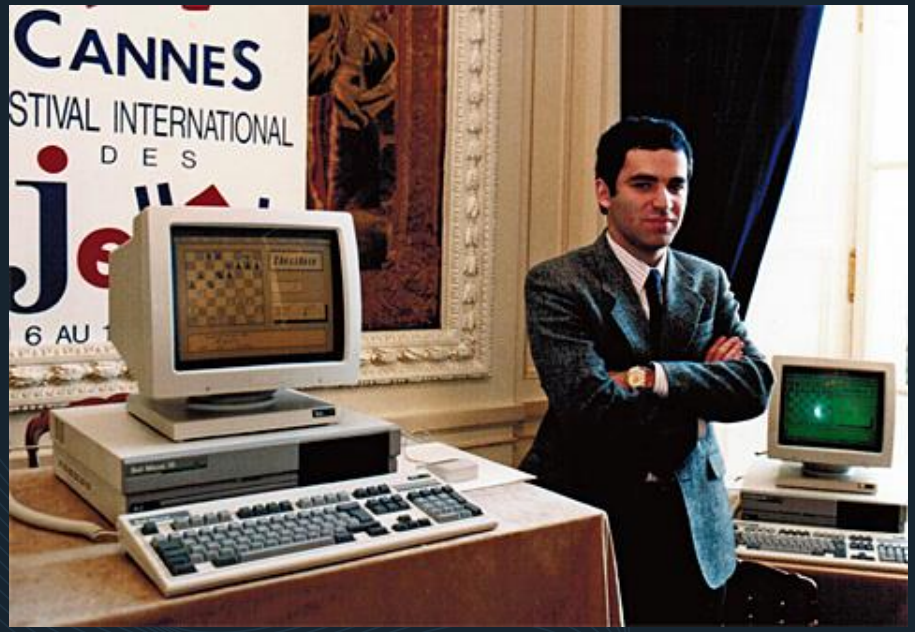
Centaurs vs. Minotaurs

Or: Where you want to be in the human/AI equation



This is the classical depiction of a CENTAUR

“Κένταυρος” (kentauros) in ancient Greek, this is a mythological creature with a human head, arms, and torso, and the body of a horse.



Garry Kasparov

coined the term “centaur chess”

“Teams today win by combining **average skill players**, **mid-range technology** and **strong interfaces**. By optimizing for an efficient connection between human and machine, teams can better leverage the characteristics of either.” – *https://centaur-labs.io/centaurs*

Nobody Likes Reverse Centaur

This is the classical depiction of a MINOTAUR

“Μινώταυρος” (minotauros) in ancient Greek, this is a mythological creature with a bull’s head and tail, and human body.

The kind of “taur” depends on who’s in charge

Centaur

Human head, non-human body:

The **human** has agency – that is, the human part makes the decisions, and the non-human part has to abide by them.

Minotaur

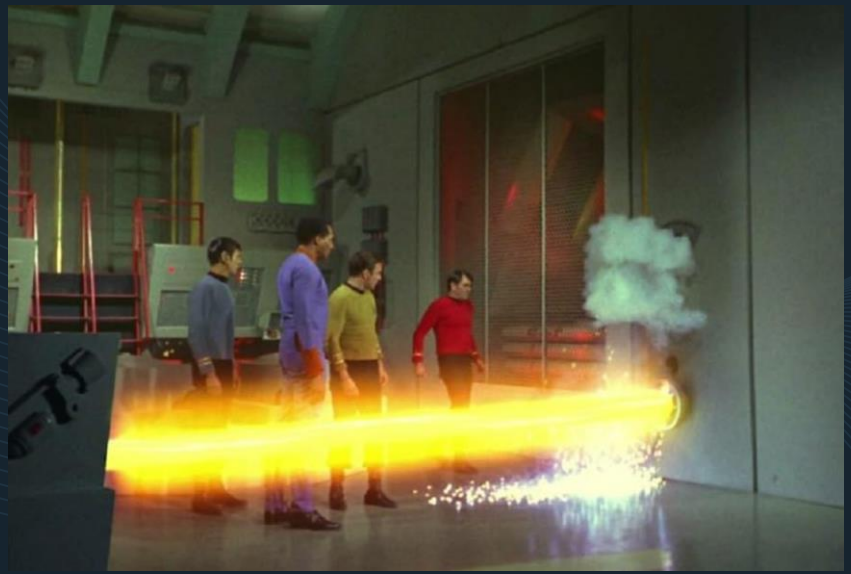
Non-human head, human body:

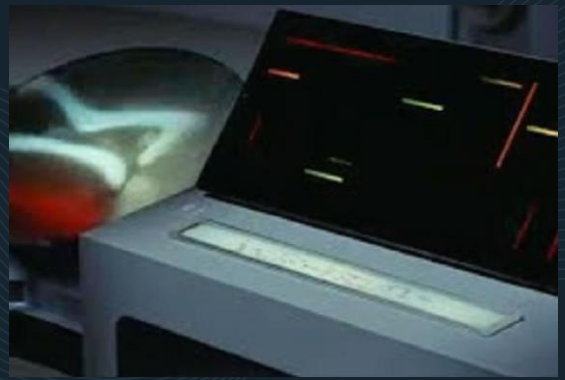
The **non-human** has agency – that is, the non-human part makes the decisions, and the human part has to abide by them.

“Siri, yes Siri!”

“as the impact of AI accelerates the tempo of battle and reduces effective decision-making time for humans, **militaries may have little alternative but to outsource many decisions to AI.**”

— *Minotaurs, Not Centaurs: The Future of Manned-Unmanned Teaming*
US Army War College Quarterly, vol. 3, no. 1, March 3, 2023





CENTAUR

when possible;

MINOTAUR

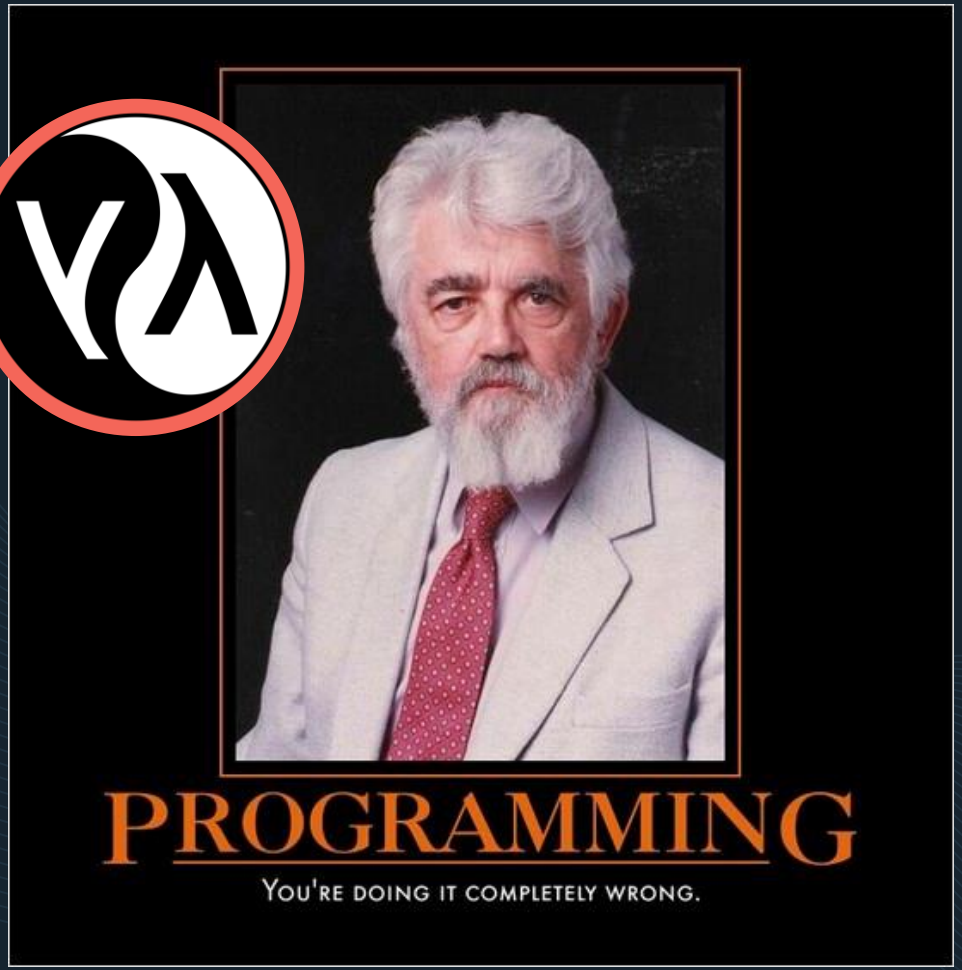
when necessary?

Four reasons why it’s not too late

to join the AI party

01 AI has been simmering for a long time

 It’s been around for almost as long as there’s been a discipline called “computer science!”



1960

John McCarthy releases the programming language Lisp (short for **LIS**t **P**rocessing), which was the preferred programming language for a long, long time.

With Lisp comes the rise of the Smug Lisp Weenie.

HOW A COMMON LISP PROGRAMMER VIEWS USERS OF OTHER LANGUAGES:


C


C++


JAVA


C#


ASP.NET

PHP


PERL


PYTHON


RUBY


JAVASCRIPT


EMACS LISP


SCHEME


COMMON LISP


CLOJURE


ARC


FORTH


FACTOR


HASKELL


SMALLTALK


ERLANG

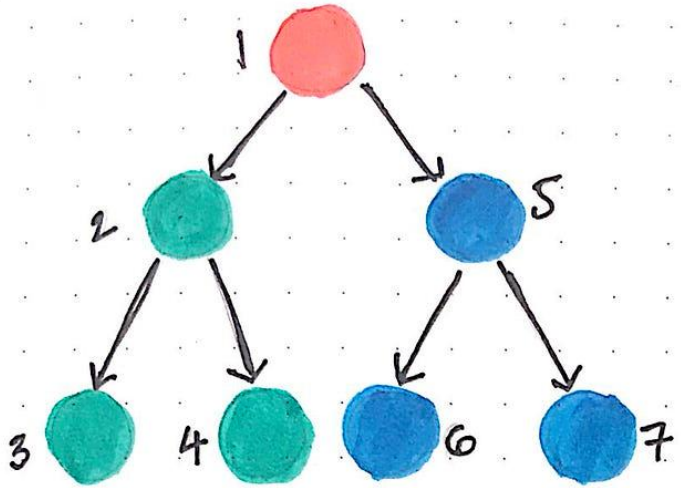
Why we don't program in Lisp anymore

```
; Common Lisp
(defun bottles (x)
  (loop for bottles from x downto 1
        do (format t "~a bottle~:p of beer on the wall~@
                      ~:*~a bottle~:p of beer~@
                      Take one down, pass it around~@
                      ~V[No more~:;~:*~a bottle~:p of~] beer on the wall~2%"
                    bottles (1- bottles))))
```

AI until it’s not

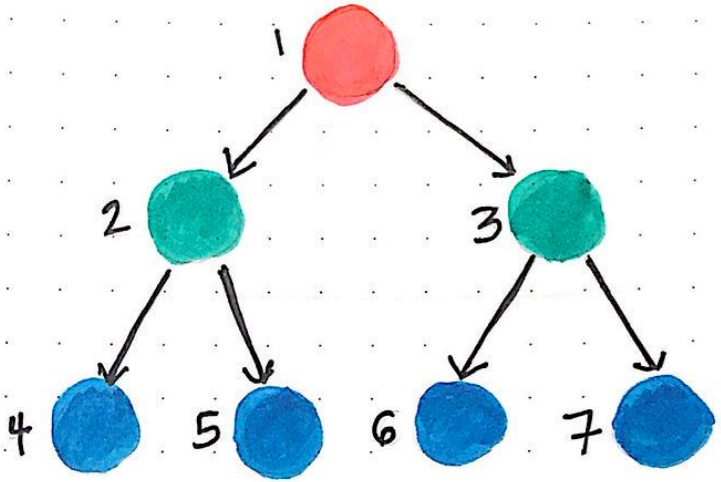
It was once believed that computers would never be able to play chess well enough to beat a grand master.

Then chess became an AI problem until solutions appeared. Now, it’s just a game programming problem.



Depth-first search

- Traverse through left subtree(s) first, then traverse through the right subtree(s).



Breadth-first search

- Traverse through one level of children nodes, then traverse through the level of grandchildren nodes (and so on...).

An (admittedly simple) example of a rule-based system

```
# Python
if person.get_favorite_artist() == TAYLOR_SWIFT and current_season == AUTUMN:
    likely_coffee_choice = PUMPKIN_SPICE_LATTE
```

ELIZA

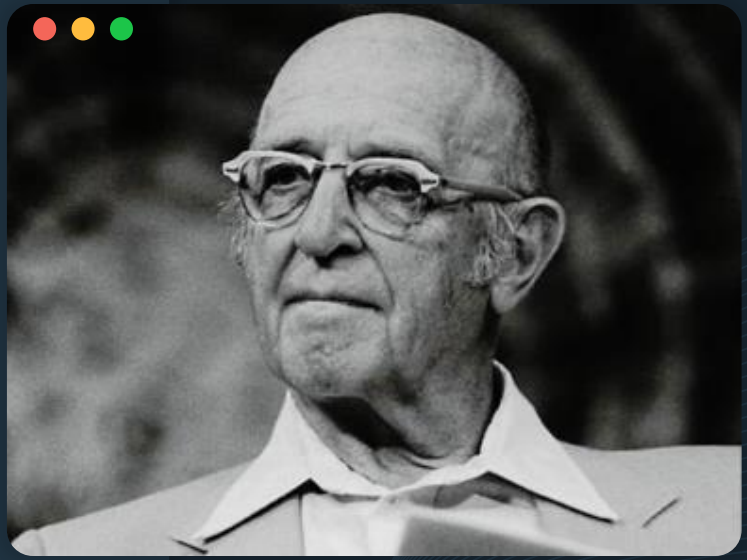
ELIZA was a general conversation simulator developed by Joseph Weizenbaum at MIT’s AI lab from 1964 - 1966.

It used “scripts” (sets of prompts and responses) to determine what kind of conversation it would simulate

Joseph Weizenbaum (1923 - 2008), computer science professor at MIT, creator of ELIZA and one of the pioneers of artificial intelligence.

The DOCTOR script

ELIZA's most popular script was DOCTOR, which simulated a Rogerian psychotherapist, which was a person-centered approach to psychotherapy.



Carl Rogers (1902 - 1987), creator of what we call Rogerian therapy.

ELIZA’s hardware

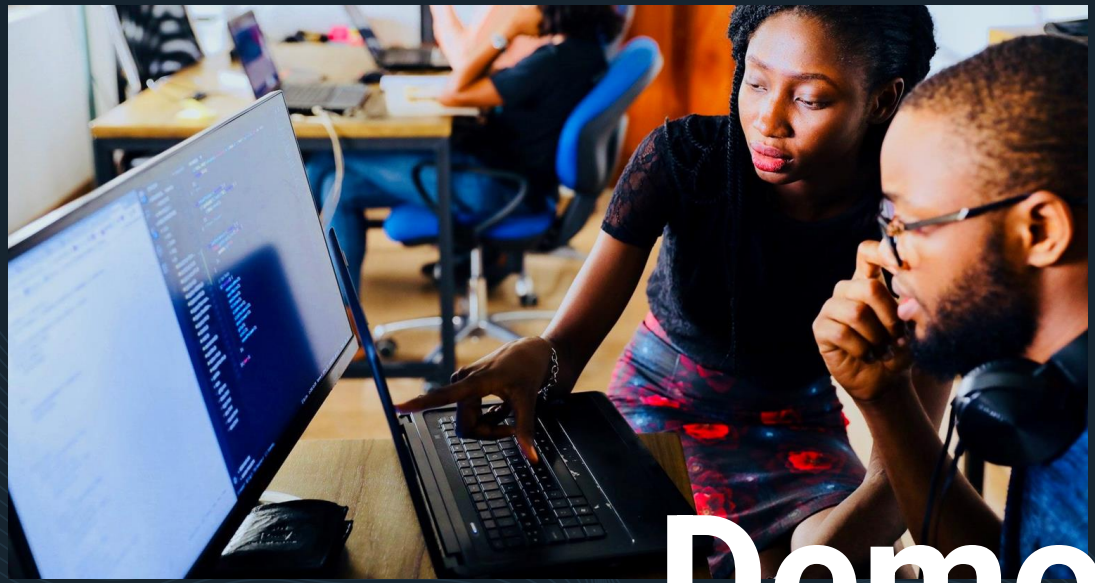
ELIZA ran on an IBM 7094, a machine with a 15-bit address bus (32K addressable memory) and a 36-bit data bus. It cost $3.5 million in the 1960s, which is about $34 million in present-day money.

Eliza's implementation language: MAD-SLIP

ELIZA was implemented in MAD-SLIP, which is a version of MAD (an ALGOL-like language) that had SLIP (a Lisp-like language) embedded in it.

I had not realized… that extremely short exposures to a relatively simple computer program could induce powerful delusional thinking in quite normal people.

— Joseph Weizenbaum



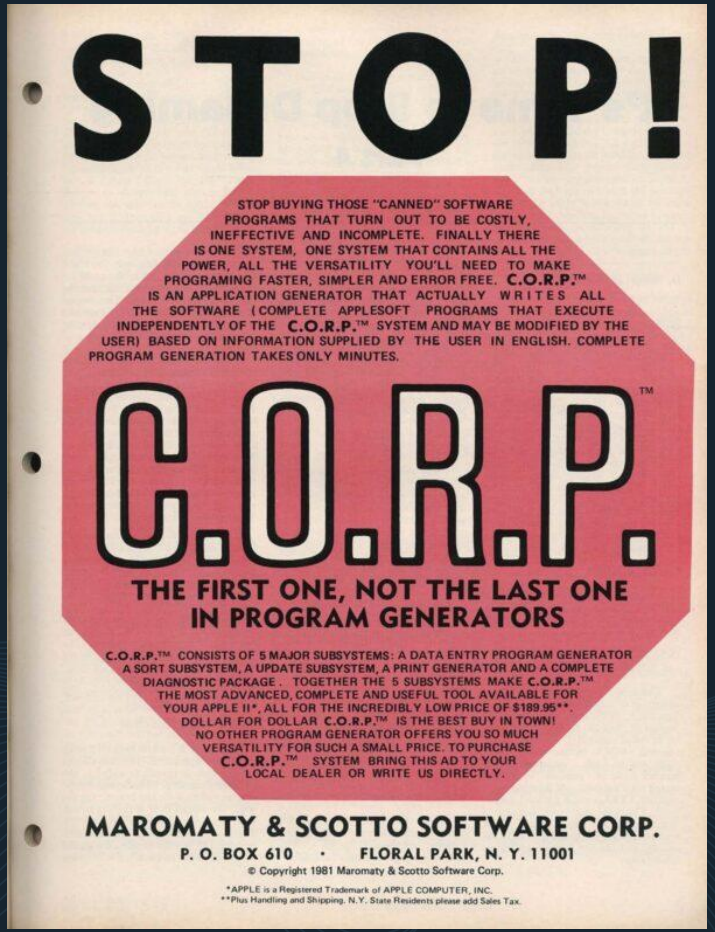
Demo: ELIZA

“The Last One”

THE LAST ONE

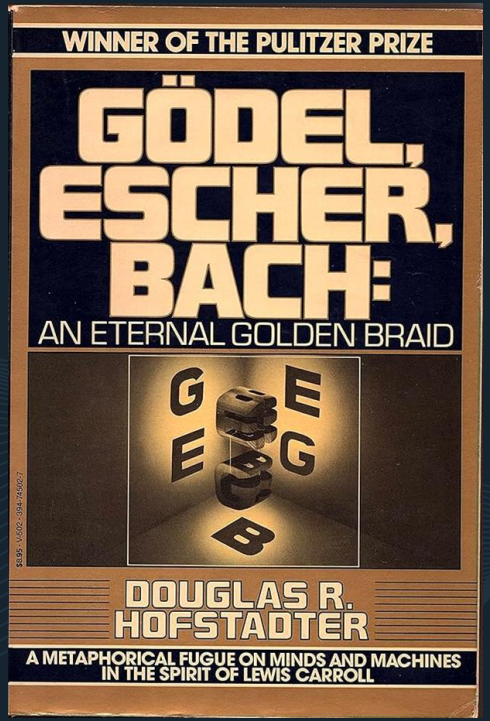
A casual phone conversation in early November sent David Tebbutt scurrying off to deepest Somerset where he discovered a program which could just become the last one ever written by a human being.

Long before GitHub Copilot, back in the early- to mid-1980s, a small company took out ads in all the major computing magazines to promote **The Last One**, an application that was supposed write programs based on a spec that you



This was in the 1980s, when everyone expected that “5th Generation” systems would rule.

If you read only one non-programming book on old-school AI, make it this one:



Written by in 1979, this book somehow blends logician Kurt Gödel's Incompleteness Theorem, MC Escher's art, and J.S. Bach's music into an epic yet whimsical essay on computation, cognition, consciousness, and cosmos.

It's deeper than the Mariana Trench and cooler than the other side of the pillow.

02 AI is moving fast and breaking itself

 And as an example, let me tell you the story of how this talk got created in the first place…

November 17, 2023 • 2:10 p.m.

November 17th, 2023

Sophia 2:10 PM

Hi Joey! Sorry my last feel weeks have been back to back with travel! Do you have any availability towards the beginning of next week?

We also wanted to see if you'd be interested in joining us in Austin in February and giving an AI talk? If so, I'm happy to send you the link for a submission and can get you added to the schedule!

The reason that you're here in the Cowboy Pavilion some weirdo with an accordion is this Slack conversation that took place just three months ago!

3:34 p.m. — not even an hour and a half later!

TECH / ARTIFICIAL INTELLIGENCE

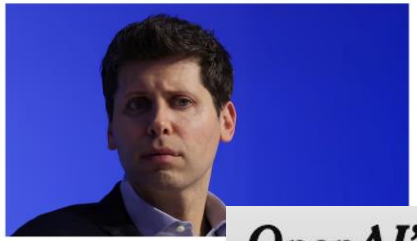
Sam Altman fired as CEO of OpenAI

/ In a sudden move, Altman is leaving after the company's board determined that he 'was not consistently candid in his communications.' President and co-founder Greg Brockman has also quit.

OpenAI fires co-founder and CEO Sam Altman for allegedly lying to company board

AI firm's board said Altman was 'not consistently candid in his communications with the board' and had lost its confidence

Interview: Sam Altman on whether AI will save humanity - or destroy it



ars TECHNICA

BIZ & IT TECH SCIENCE POLICY CARS GAMING & CULTURE STORE

SUDDEN DEPARTURES —

OpenAI fires CEO Sam Altman, citing less than "candid" communications

"The board no longer has confidence in his ability to continue leading OpenAI."

KYLE ORLAND AND BENJ EDWARDS - 11/17/2023, 4:20 PM

OpenAI's Board Pushes Out Sam Altman, Its High-Profile C.E.O.

Mira Murati, who previously served as chief technology officer, has been named interim chief executive.

We have a winner!

Which one will last longer?

TECH

Sam Altman wants to raise up to $7 trillion. That's, uh, a lot of dough.

Katie Notopoulos Feb 9, 2024, 2:29 PM EST

Share | Save

Sam Altman is looking to raise $5-7 trillion for the future of chip building. Jack Guez/AFP via Getty Images

Reality check:
In FY 2023, the *U.S. government's entire spending* was

$6.13 trillion.

Futurism

The Person Who Was in Charge of OpenAI's $175 Million Fund Appears to Be Fake

By Jon Christian | Mar 30, 2024 | 9:10 AM

Elon Musk promised an anti-‘woke’ chatbot. It’s not going as planned.

Grok, launched this month on X, has angered conservatives by endorsing diversity. Musk says he’s trying to fix it.

This happened only last week, and we have yet to see what he's doing next and what the ripple effects on the AI industry will be.

The Information

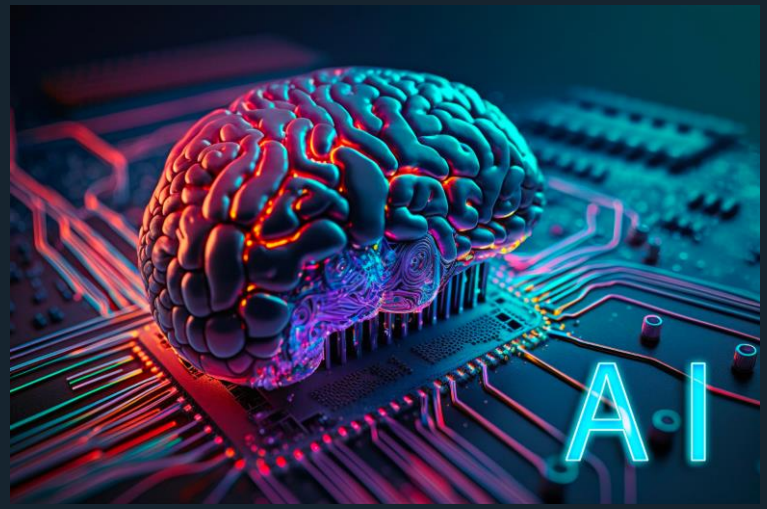
OpenAI Researcher Andrej Karpathy Departs

03 AI requires more than just bootcamp skills

 Programming always involved some level of complexity, and AI takes that complexity to a whole new level.

Some “hot new things” are driven by programming languages that seemed to COME BACK FROM THE DEAD.

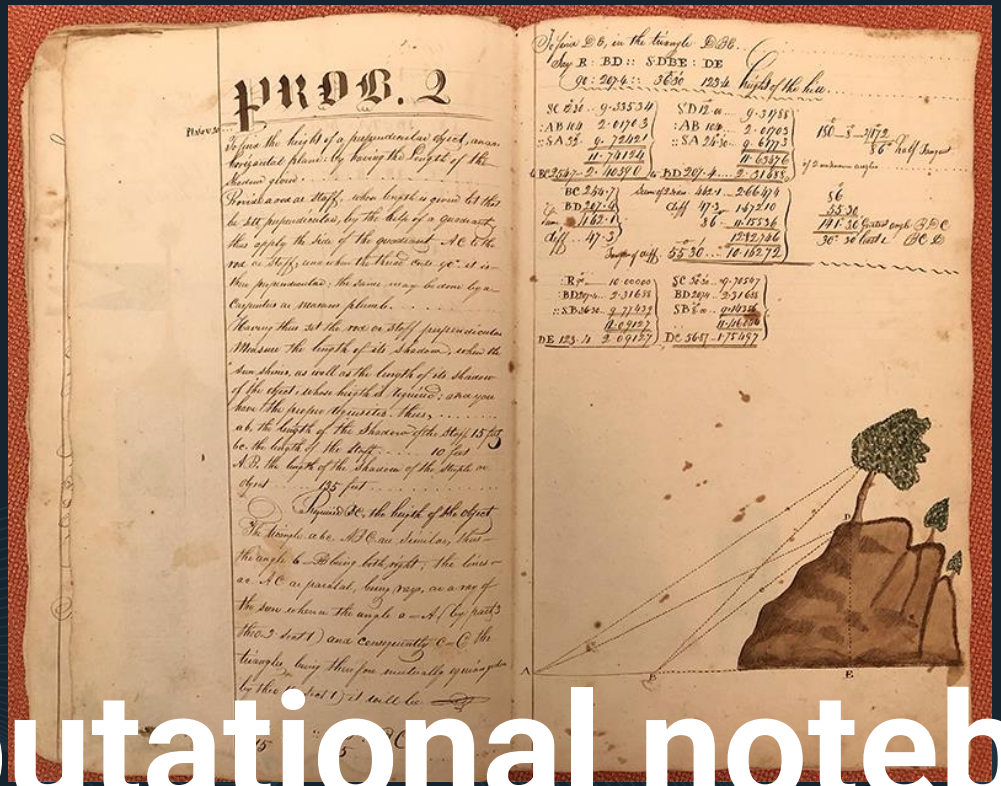
[OBJ-C]



python™

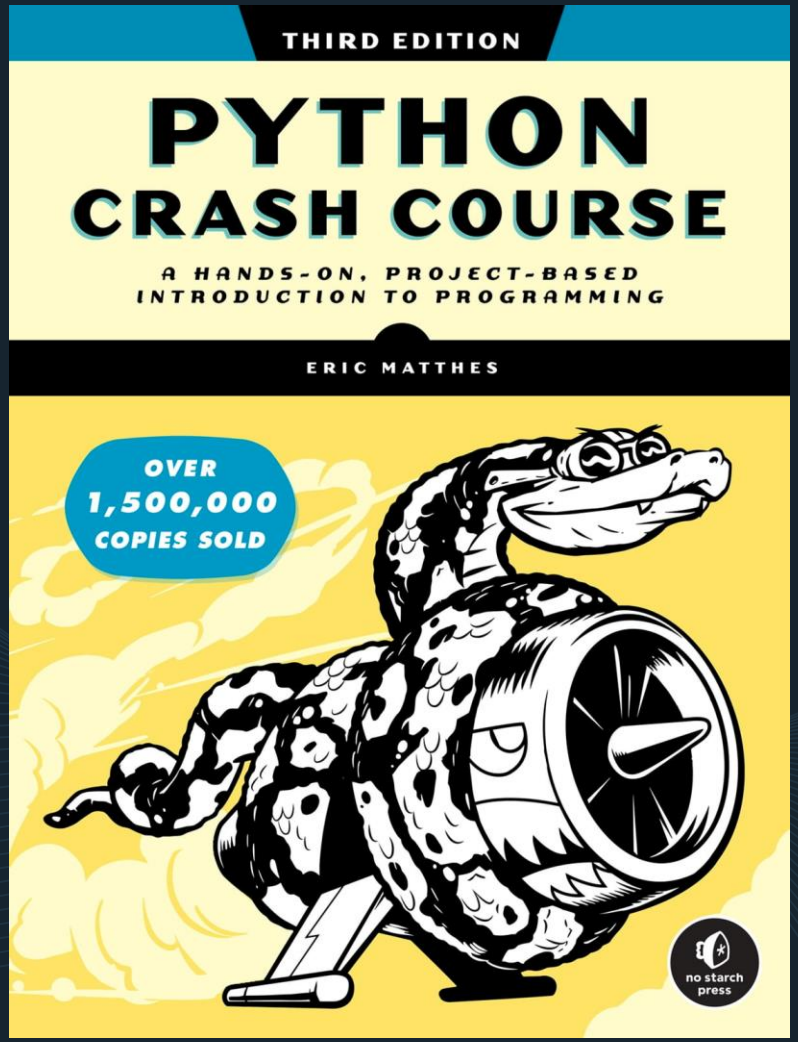
"You can't just copy-pase pseudocode into a program and expect it to work"

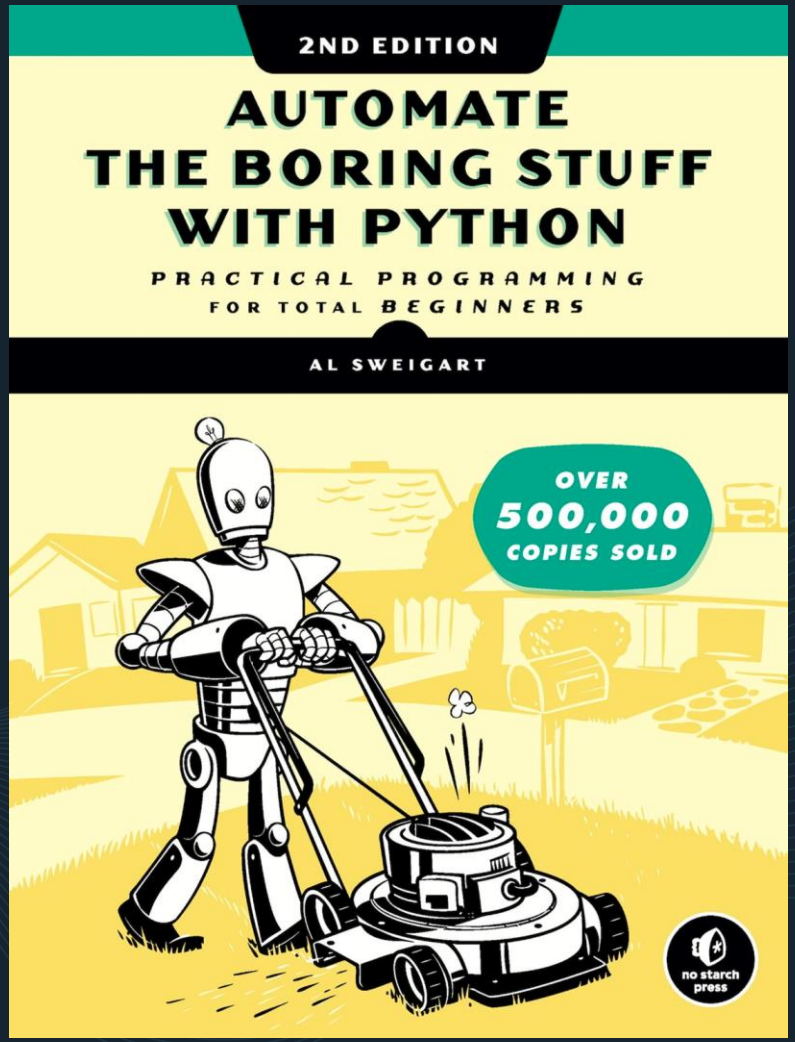

Libraries!



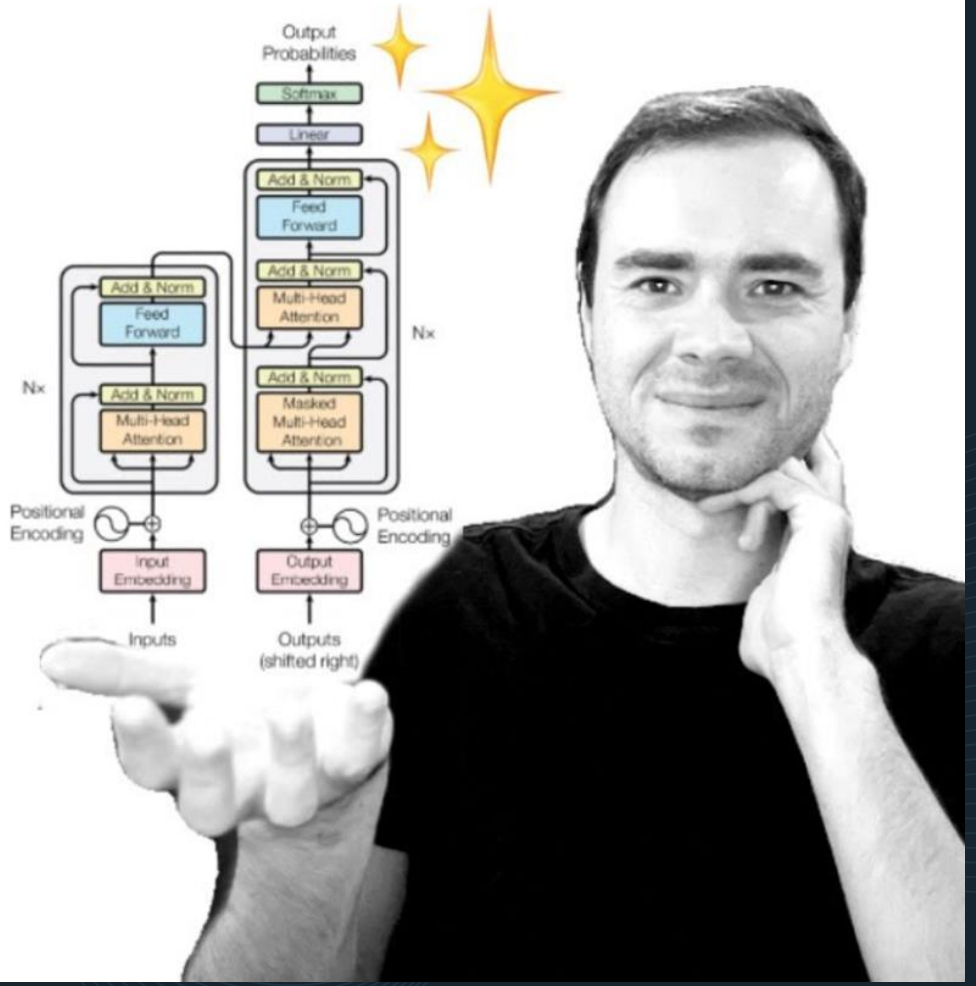
Computational notebooks!

Demo:
Sweater or no?





LET'S BUILD GPT.
FROM SCRATCH.
IN CODE.
SPELLED OUT.



There will be MATH.

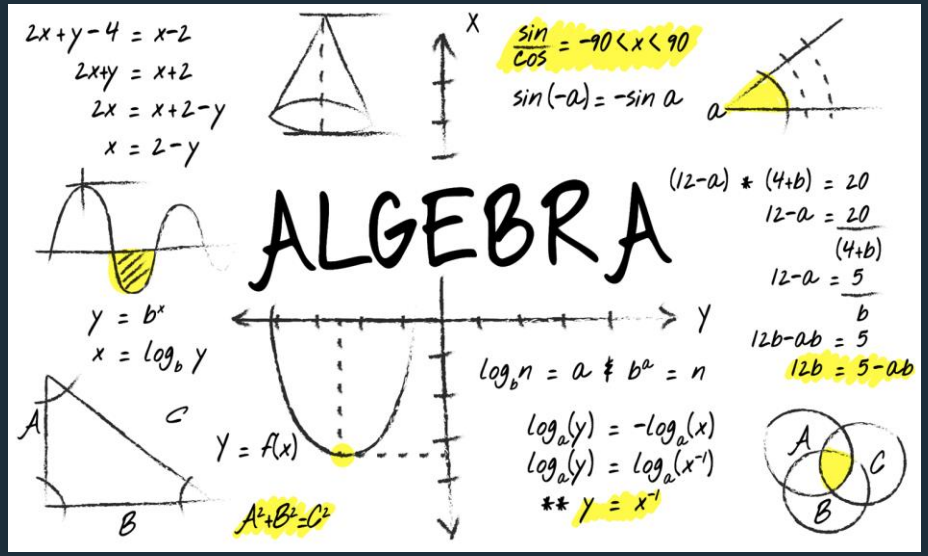
Make peace with that.

In theory, you could build AI applications without doing any math by making API calls to an AI framework, library, or service...

but where's the

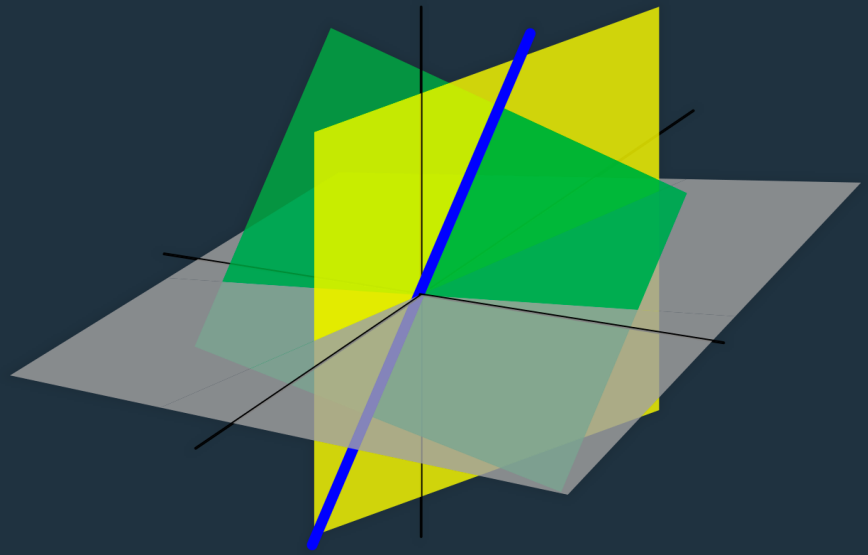
Algebra

- Exponents and logarithms
- Radicals
- Factorials
- Summation
- Scientific notation



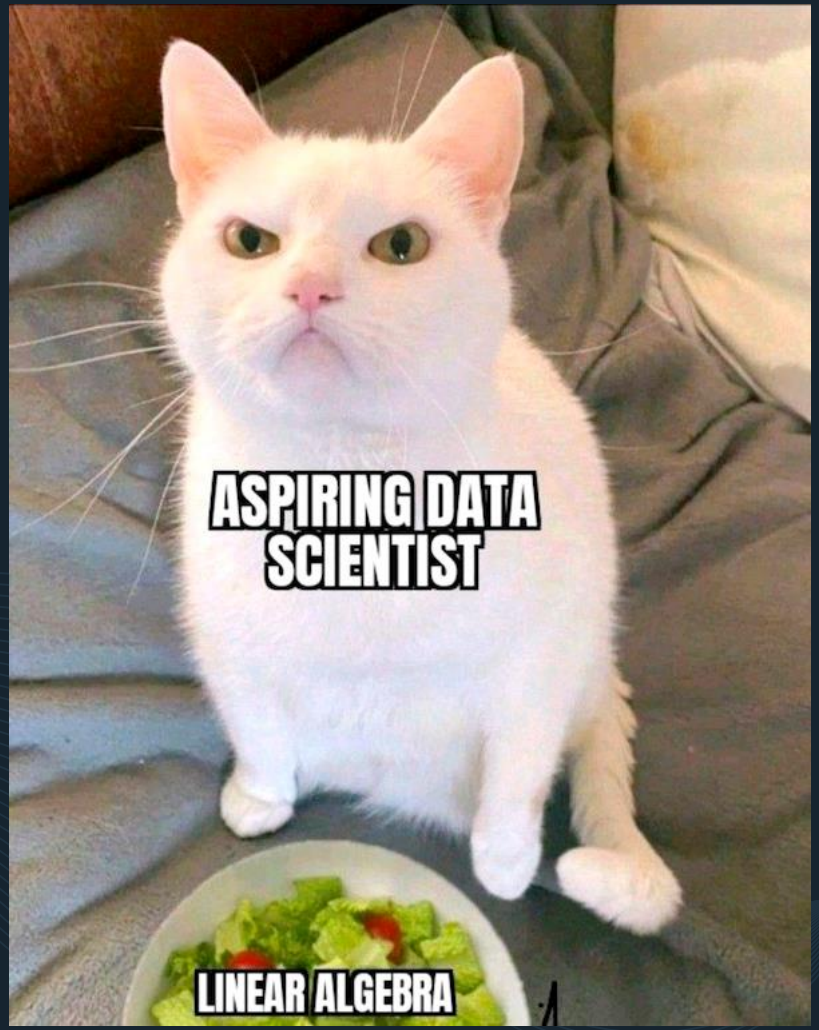
Algebra is the branch of math where you use variables and manipulate them within formulas. If you're doing *any* kind of programming beyond "Hello, world!", you're already doing algebra to some extent.

Linear algebra



- Scalars and vectors
- Matrices
- Tensors
- Eigenvectors and eigenvalues
- Singular value decomposition
- Principal component analysis

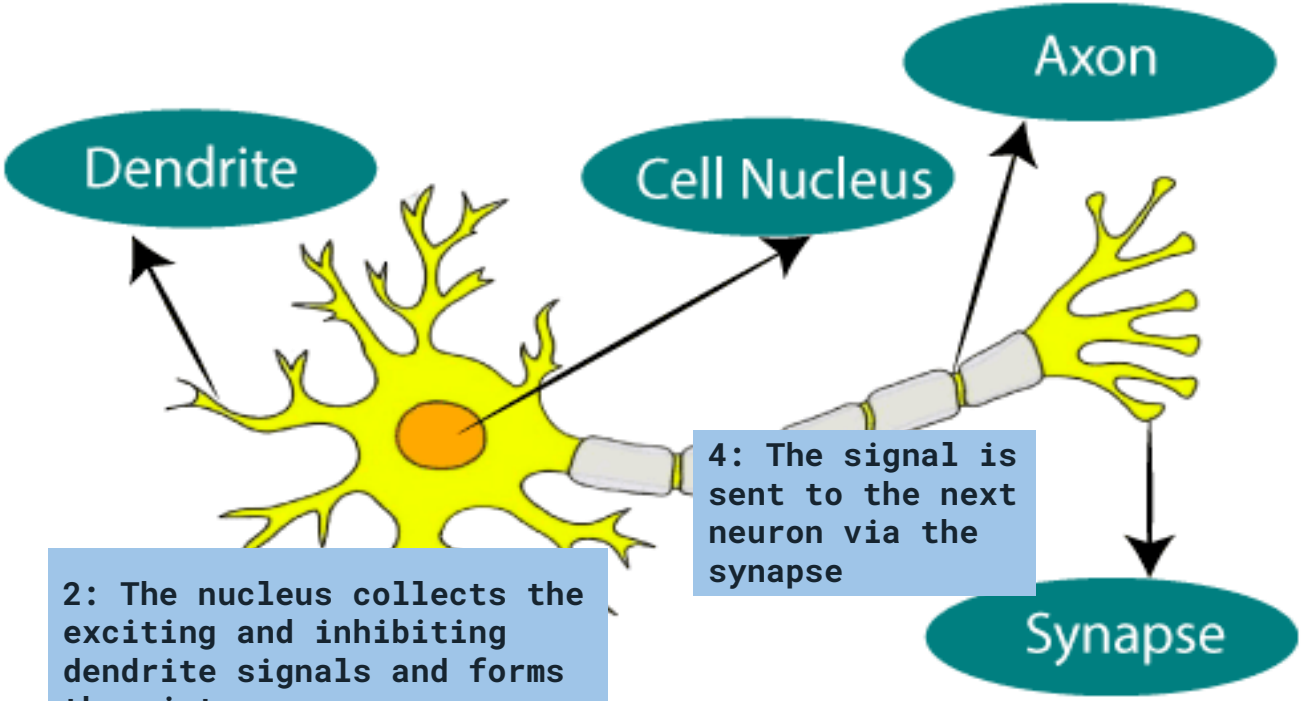
Linear algebra takes algebra and applies it to equations for straight lines, where none of the variables are raised to a power.



A biological neuron

1: Dendrites receive incoming signals, which can…

- *Excite* the neuron, making it more likely to "fire"
- *Inhibit* the neuron, making it less likely to "fire"



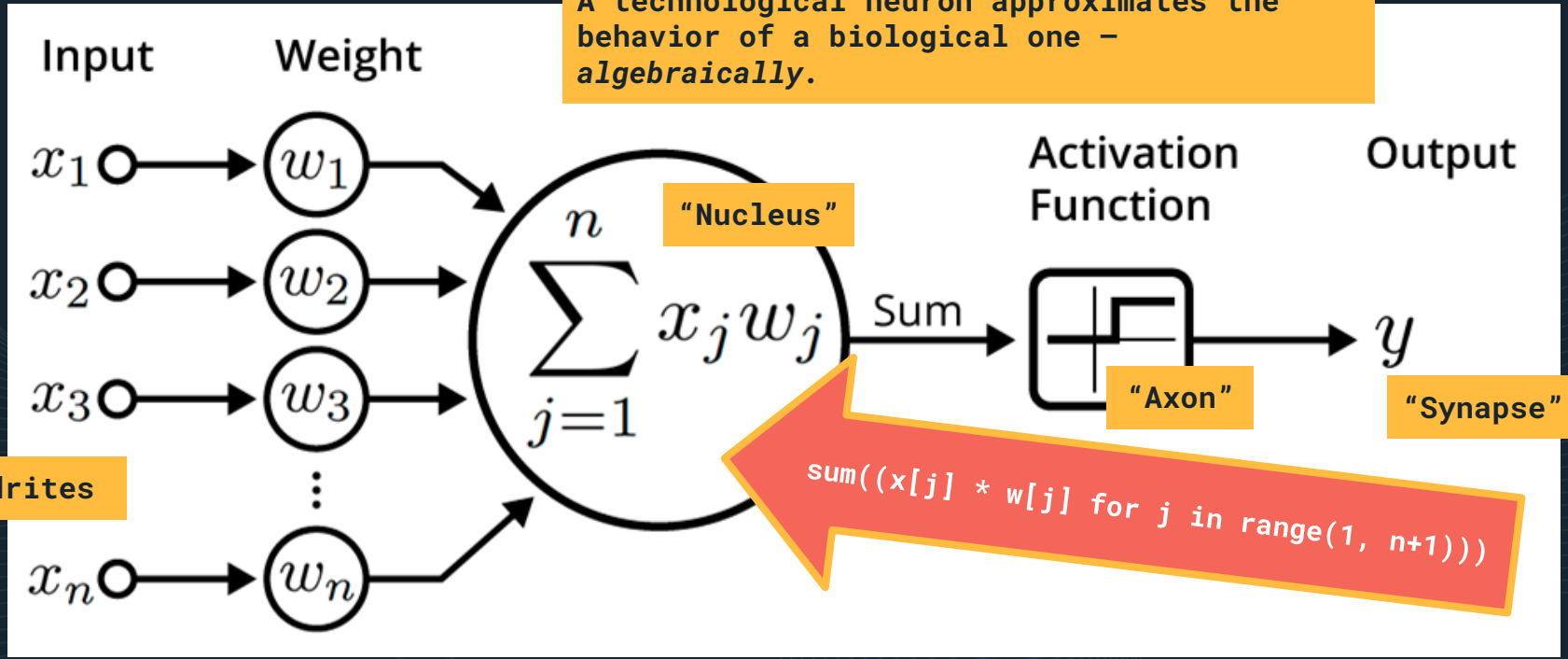
3: If the sum is big enough, a signal is sent along the axon

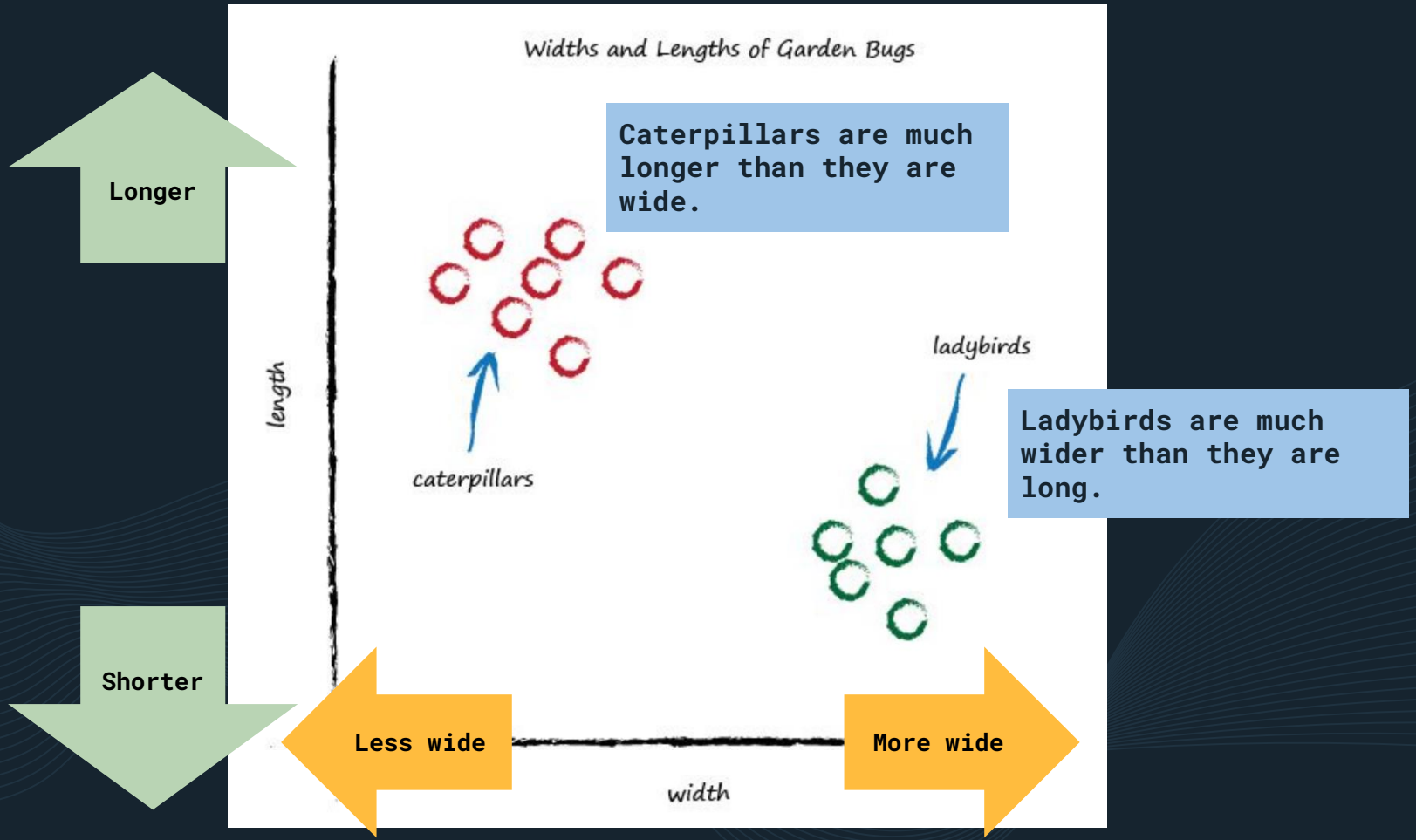
4: The signal is sent to the next neuron via the synapse

2: The nucleus collects the exciting and inhibiting dendrite signals and forms them into a sum

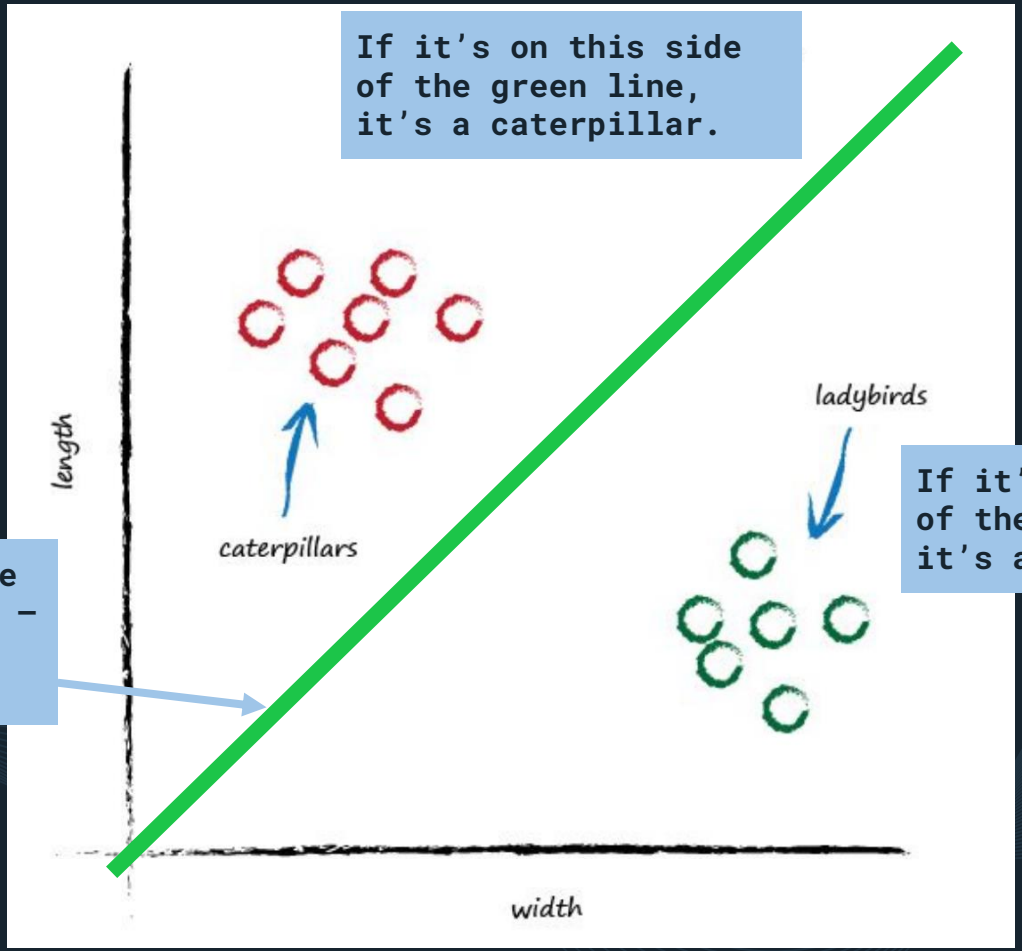
A technological neuron

A technological neuron approximates the behavior of a biological one – *algebraically*.



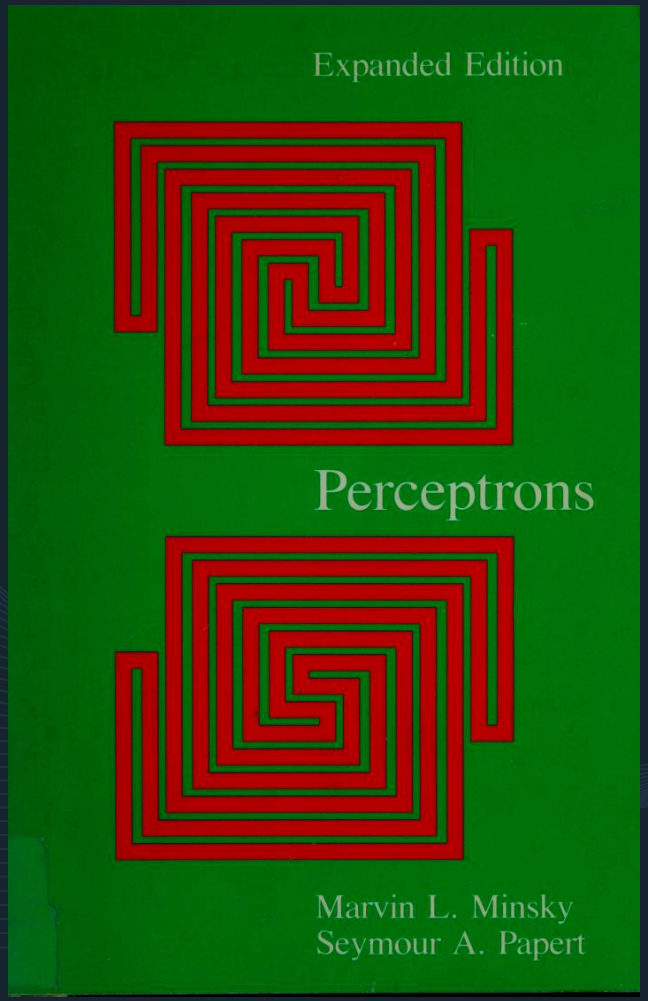


If it's on this side of the green line, it's a caterpillar.

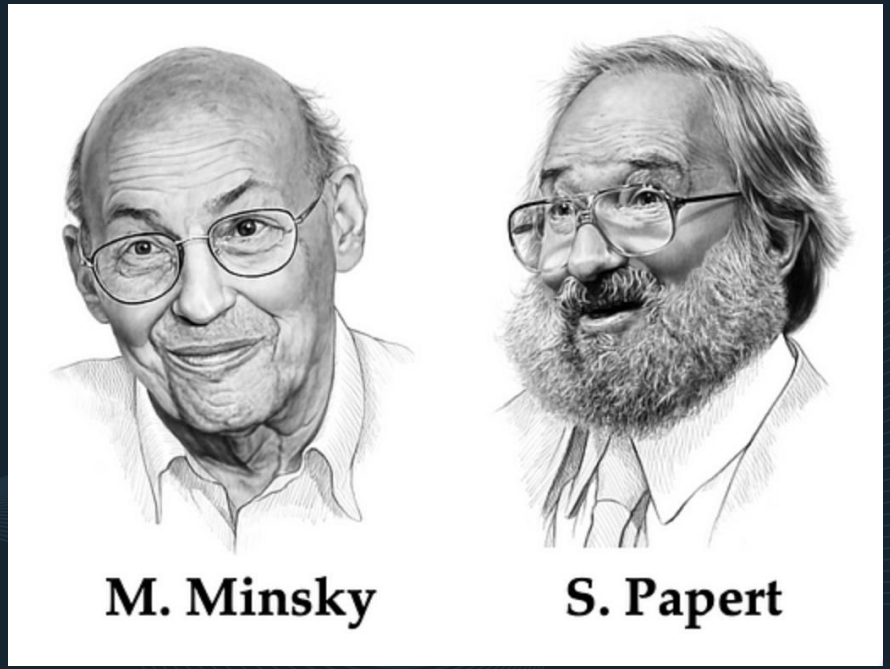


This line divides the graph into two zones – caterpillar and ladybird.

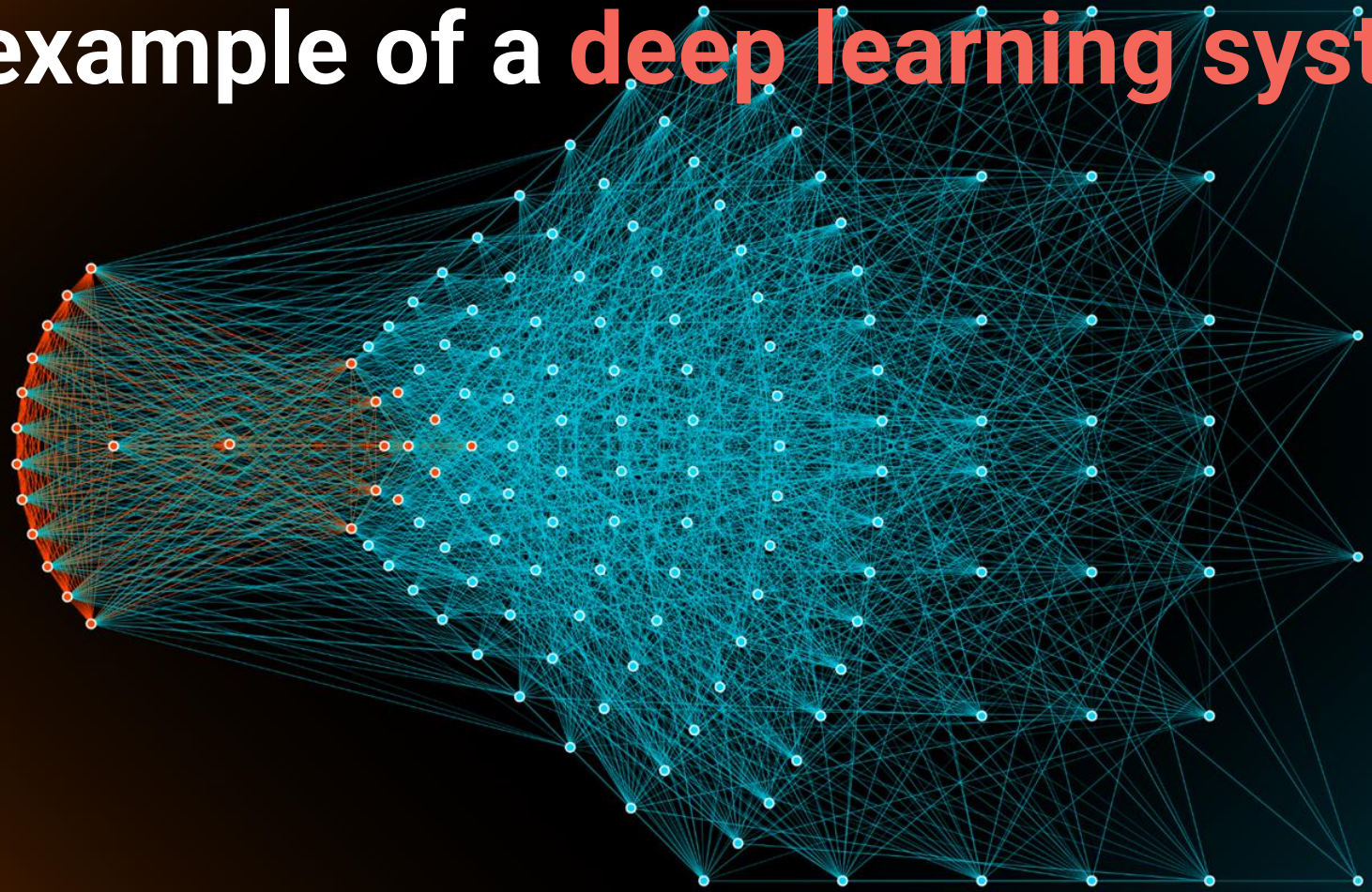
If it's on this side of the green line, it's a ladybird.



Perceptrons



An example of a deep learning system



Calculus

I have good news for you:

The calculus used in AI tends to be *differential* calculus – **that's the easy one!** Trust me, there's a harder calculus – *integral* calculus – and it sucks.

- Derivatives
- Vector and matrix calculus (gradient, Jacobian,

Calculus is the math of rates of change.

If you drove (and if you paid attention to the speedometer),
you saw calculus in action!

When you started your trip to this event, you were a certain distance from here. That distance changed as you traveled here, because of the

We train neural networks by presenting them with “training data” and having them to produce an answer. Then we tell them how close or far they were to or from the

Neural networks use calculus to determine how much they should correct themselves – a little if they were close to the correct answer, more if their answer was way off.

Probability and Statistics

This is probably the easiest math, since the basic stuff seems to make intuitive sense to a lot of people, and it may be the math we unconsciously use the most in our daily lives.

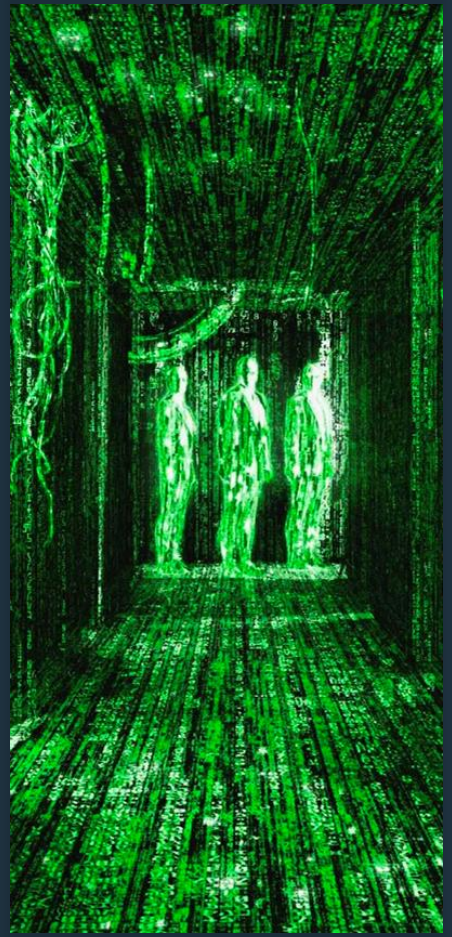
- **Basics:** Mean, media, mode, variance, covariance, standard deviation, and all that
- **Probability:** Events (independent and dependent), sample spaces, conditional probability
- **Common distributions:** binomial, poisson, bernoulli, gaussian, exponential
- **Bayes' theorem:** This one's a big deal, as it's the basis of algorithmic pattern recognition and decision-making

Friend: You can’t possibly guess a wheel of fortune puzzle with no letters
Me:

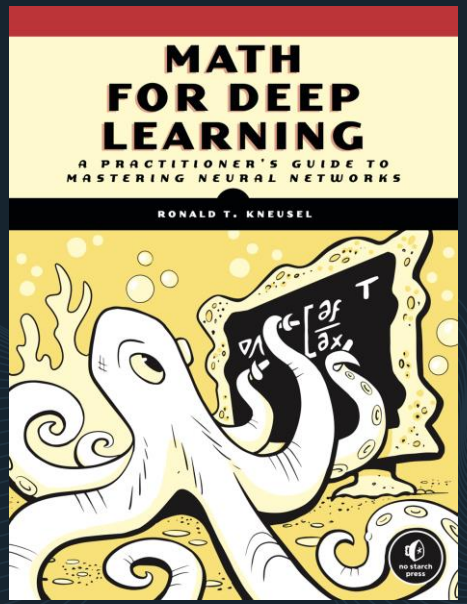
Information theory

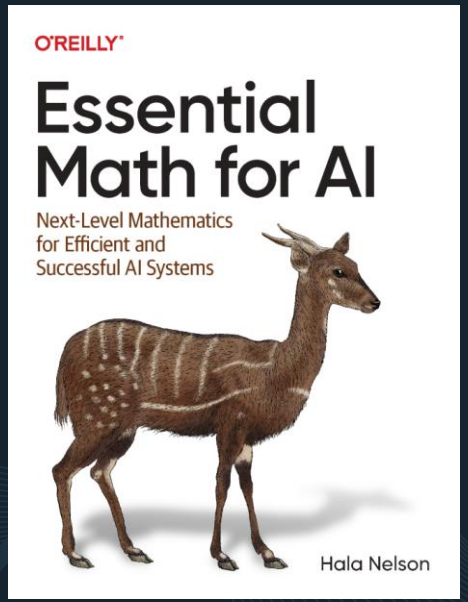
This is a pretty new branch of math – it's not even 100 years old yet! It's the study of the measurement, storage, and transmission of information – and by information, we mean *numbers*.

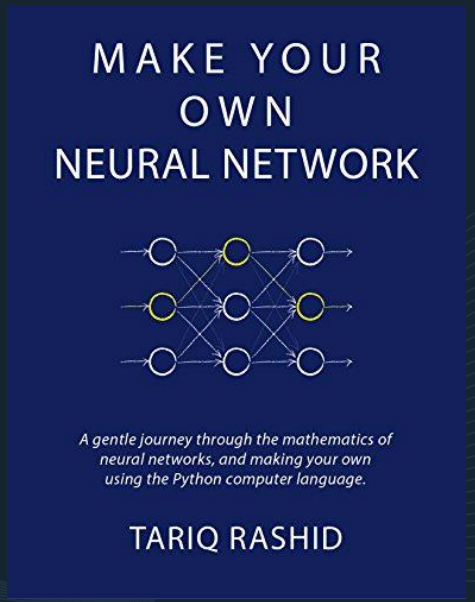
- Entropy
- Comparing probability distributions for similarity



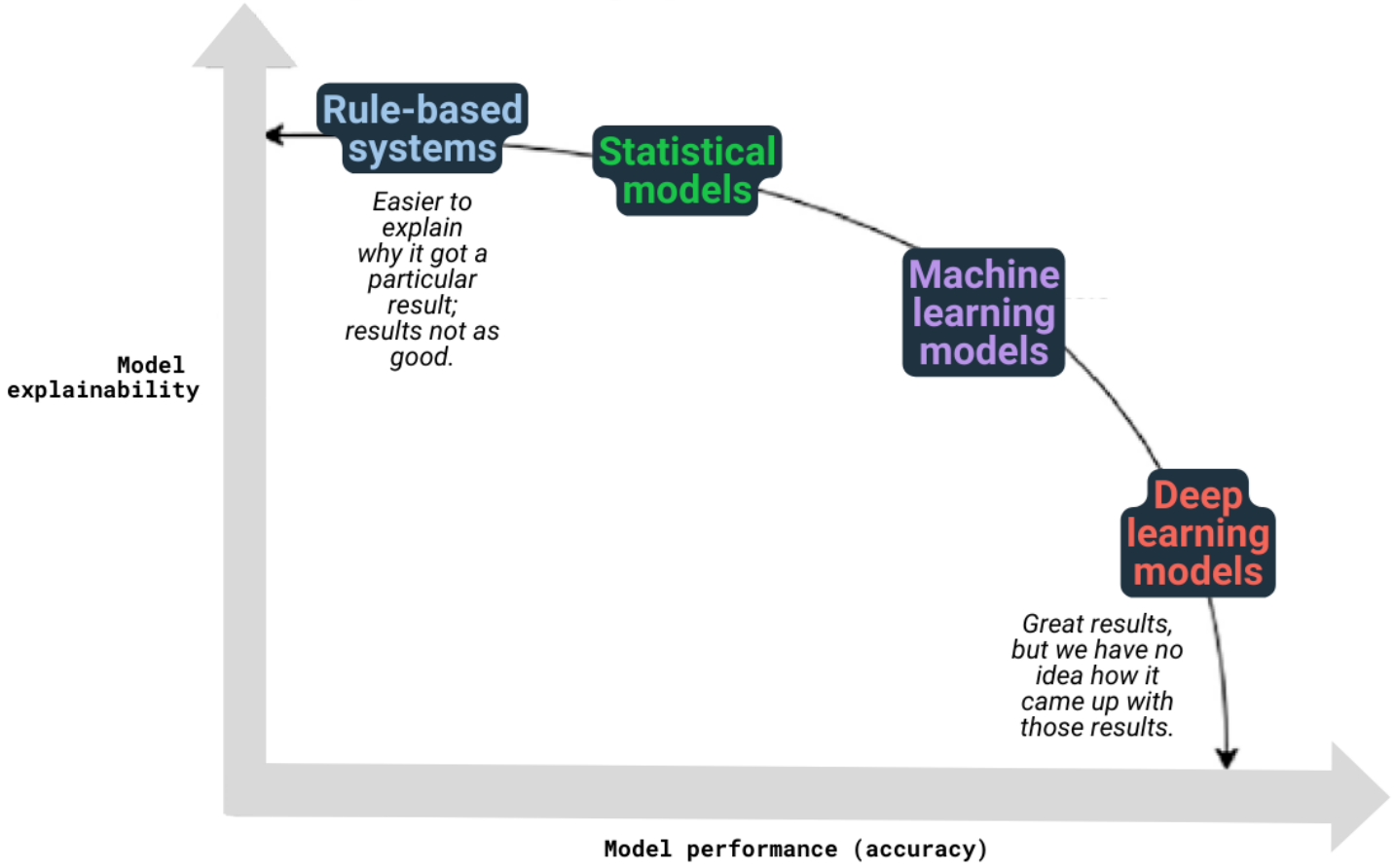
Recommended books for getting back into “math gear”







The explainability/performance tradeoff

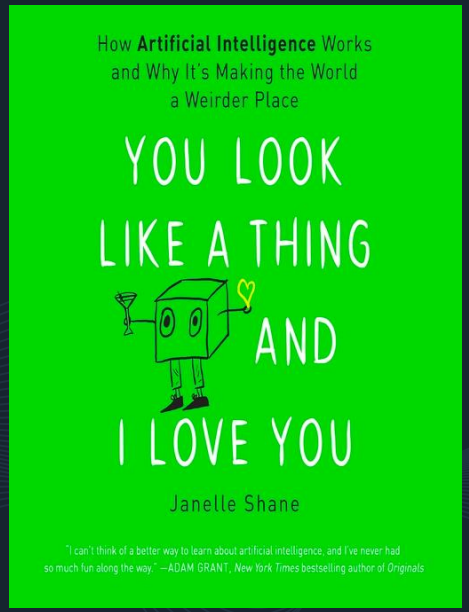


You should READ.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer a sem ligula…

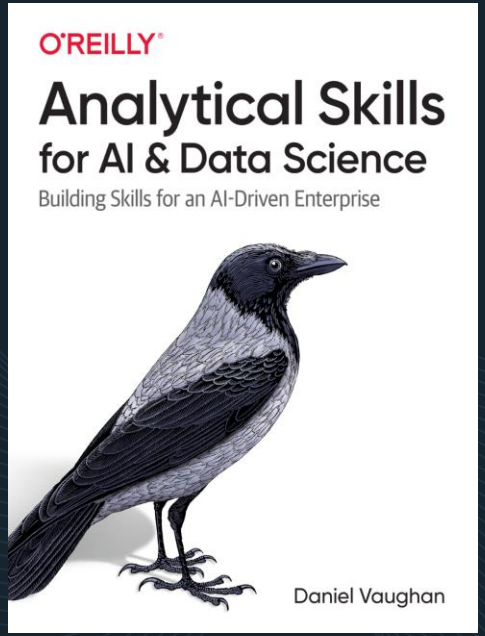
(Just checked to see if you read this.)

If you read only one non-programming modern AI book, make it this one:

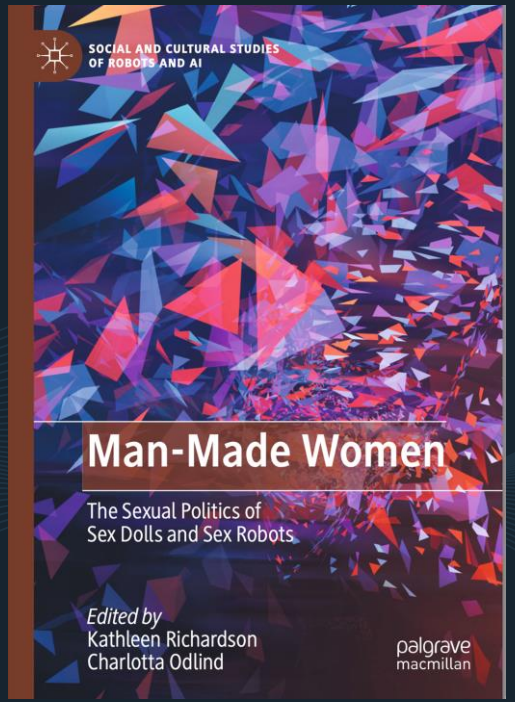


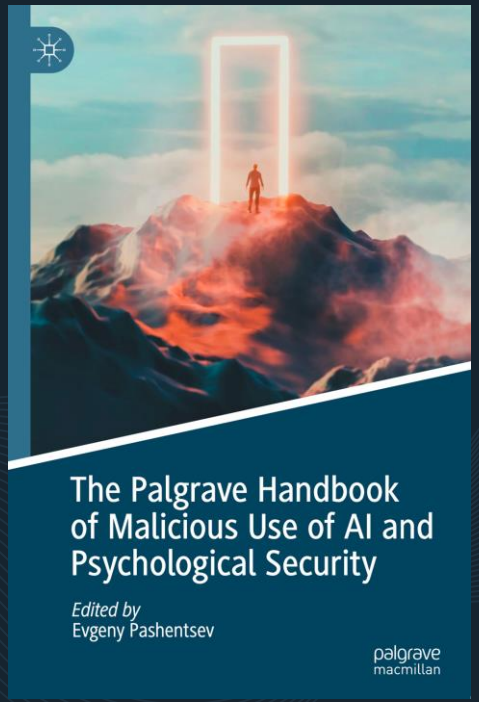
Written by Janelle Shane, author of the *AI Weirdness* blog, this book does a wonderful (and amusing) job of explaining AI, even if you're not terribly technical.

Also worth reading…

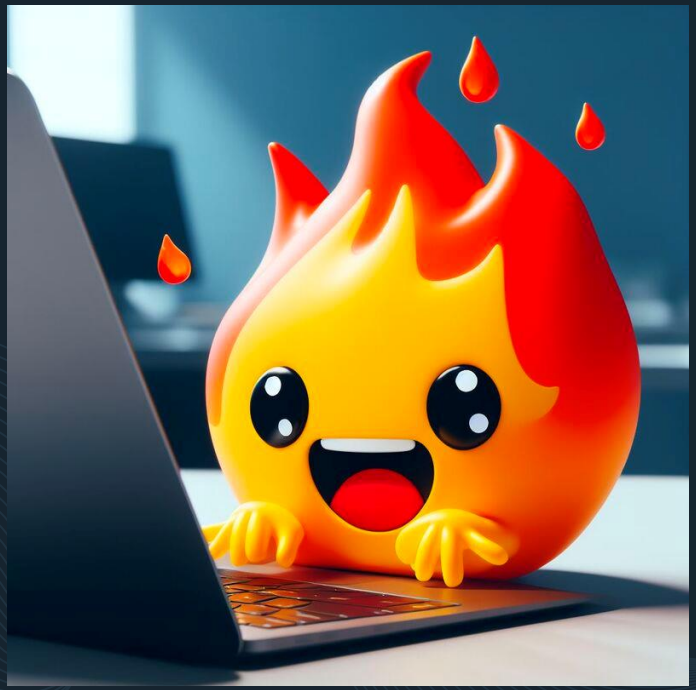


Read these books if you want Amazon's AI to put you on a watch list





Keep an eye on Mojo!

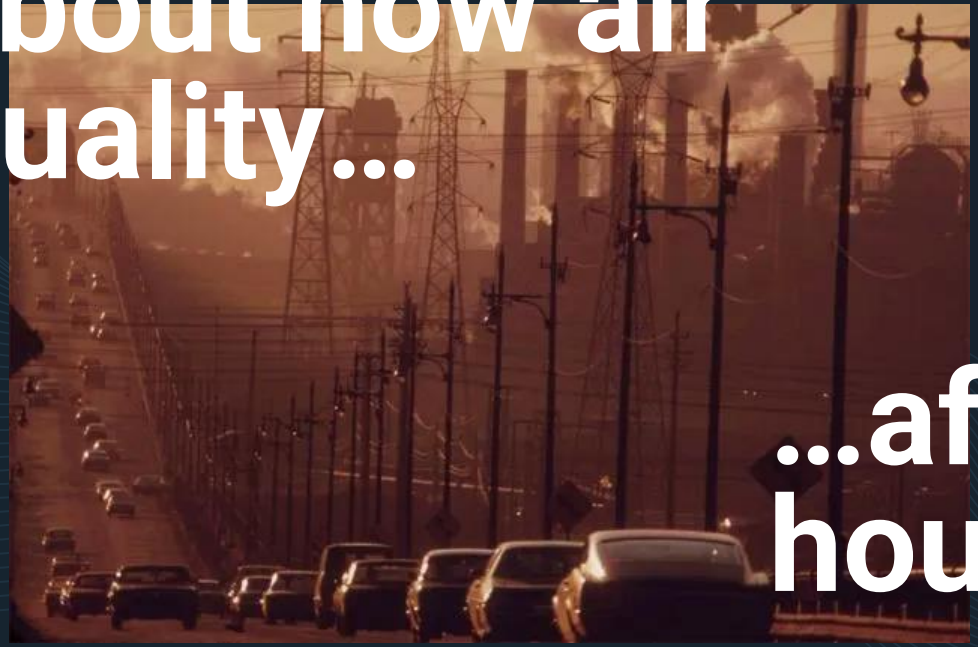


04 AI really needs more good people

 In the end, AI is a reflection of who we are. You want good AI? First, we need good people.

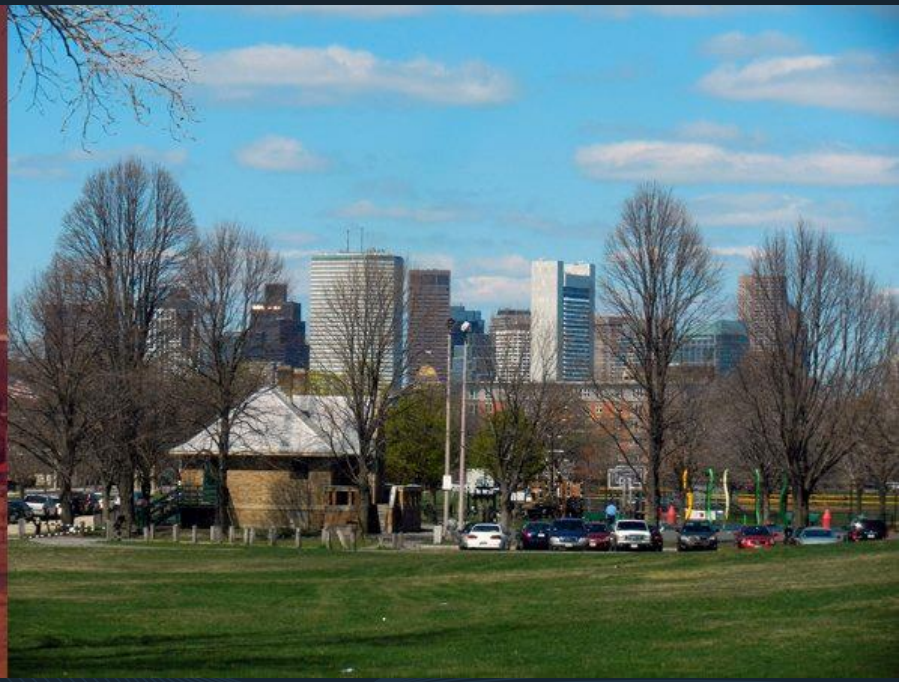
Let’s talk about the Boston Housing Prices dataset.

It’s from a Harvard paper about how air quality…



…affects housing prices.

Air quality in Boston in 1973 vs. 2016



Source: United States Environmental Protection Agency (EPA)
https://www.instagram.com/p/BDDxI7HApUf/

				D	E	F	G
				ict	SATV	SATM	GPA
				38	368	253	3.52
				5	670	496	1.11
4	55509	21	F	54	639	439	2.68
5	36489	19	M	49	368	465	3.11
6	36387	21	F	36	620	306	2.16
7	95507	20	F	13	512	593	2.83
8	16360	20	M	52	621	377	2.79
9	12838	18	F	44	571	544	2.13
10	73450	20	F	59	647	746	2.08
11	26869	18	F	28	337	371	2.28
12	48552	22	M	63	260	498	3.24
13	23416	19	M	51	476	294	2.31
14	42635	19	F	35	677	241	3.19
15	67448	19	F	55	335	533	1.81
16	34689	21	F	42	585	708	1.80
17	32763	22	F	20	556	787	1.18

It used to be part of scikit-learn, an important Python code library for machine learning.

(If you plan to get into AI, you'll use scikit-learn, a.k.a. "sklearn" sooner or later.)

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	Price
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.90	4.98	24.0
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.90	9.14	21.6
2	0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0	17.8	392.83	4.03	34.7
3	0.03237	0.0	2.18	0.0	0.458	6.998	45.8	6.0622	3.0	222.0	18.7	394.63	2.94	33.4
4	0.06905	0.0	2.18	0.0	0.458	7.147	54.2	6.0622	3.0	222.0	18.7	396.90	5.33	36.2

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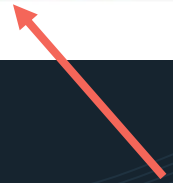

Per capita crime rate by town.

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Per capita crime rate by town.

SUS

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Proportion of population that is lower status = 0.5 * (proportion of adults without some high school education and proportion of male workers classified as laborers). **The logarithmic specification implies that socioeconomic status distinctions mean more in the upper brackets of society than in the lower classes.**

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Harvard SUS

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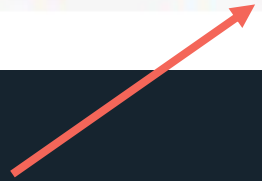

"Black proportion of population. At low to moderate levels of *B*, an increase in *B* should have a negative influence on housing value if Blacks are regarded as undesirable neighbors by Whites. However, market discrimination means that housing values are higher at very high levels of *B*. **One expects, therefore, that a parabolic relationship between proportion Black in a neighborhood and housing values.**"

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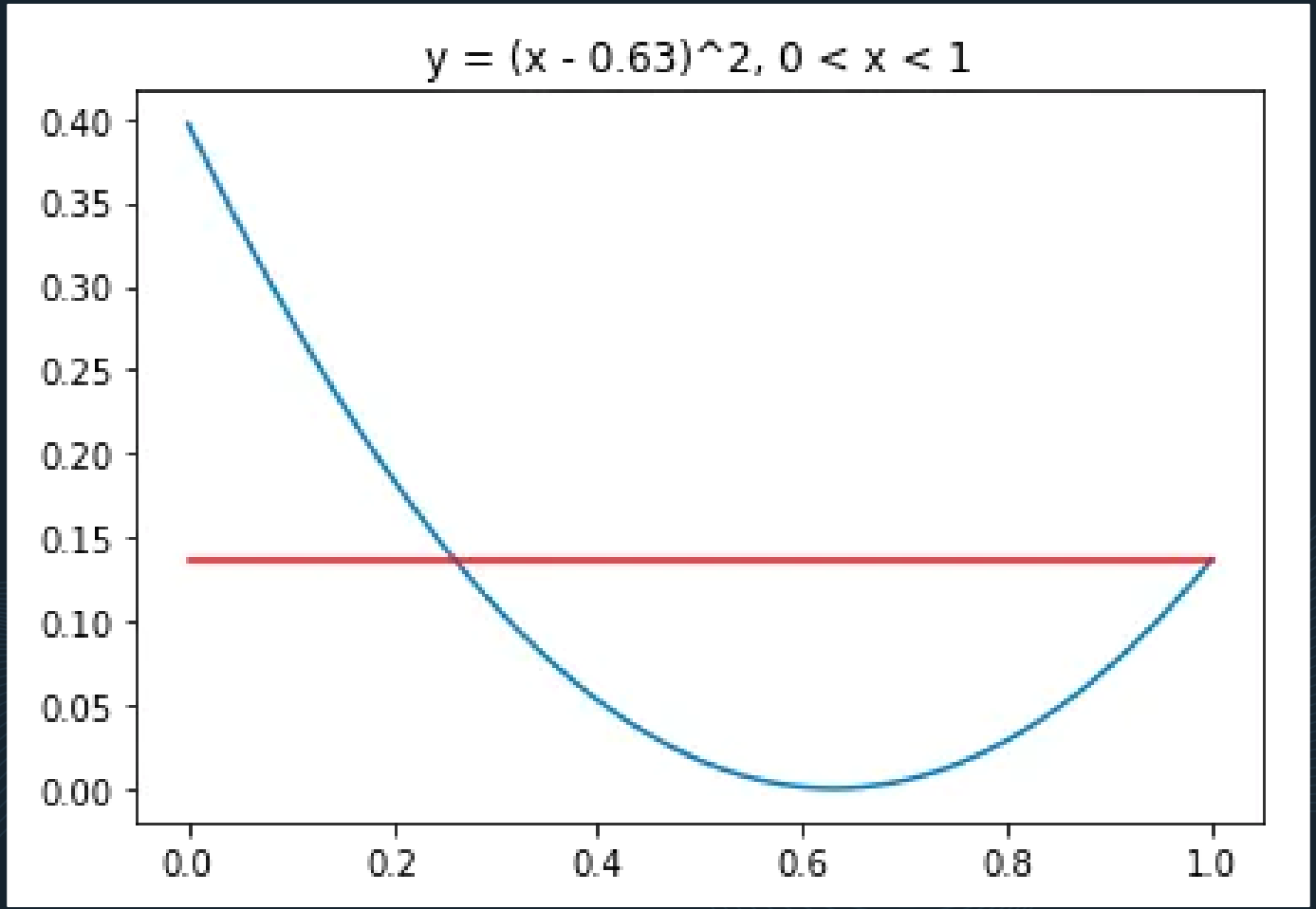

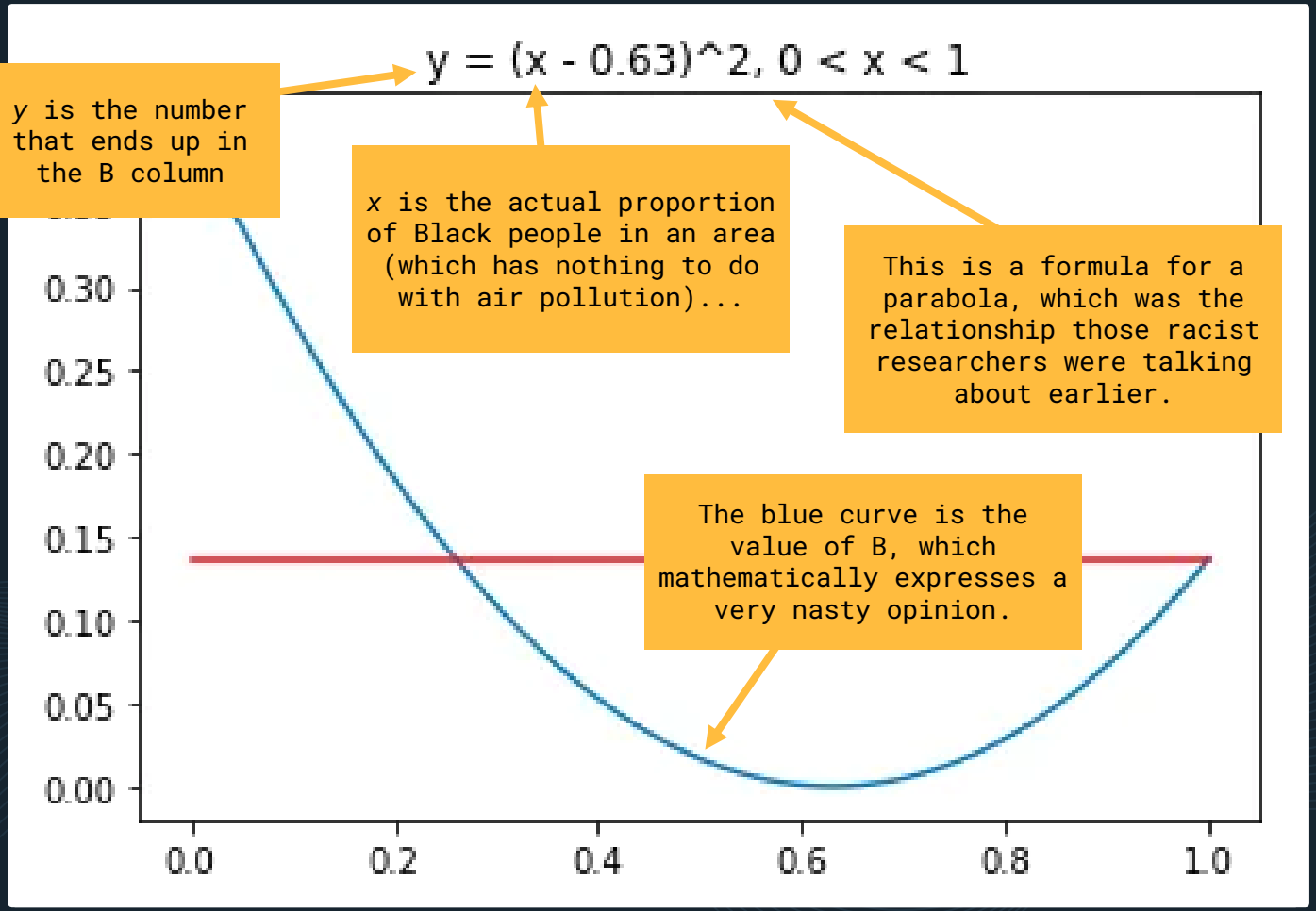

This was a research paper about AIR QUALITY and HOUSE PRICES.

SCIENCE / TECH / ARTIFICIAL INTELLIGENCE

AI pioneer accused of having sex with trafficking victim on Jeffrey Epstein's island

Jeffrey Epstein with Professor Marvin Minsky Photo by Rick Friedman/Corbis via Getty Images

/ Marvin Minsky was named alongside several other prominent men

By Russell Brandom

Aug 9, 2019, 4:14 PM EDT | 0 Comments / 0 New

Harvard biologist George Church

“There was just a lot of nerd tunnel vision.”

Remember that phrase!

Marc Andreessen
@pmarca

“AI regulation” = “AI ethics” = “AI safety” = “AI censorship”. They're the same thing.

3:39 PM · Dec 3, 2022

Source: Twitter / X
https://twitter.com/pmarca/status/1599141199805550593

Marc Andreessen
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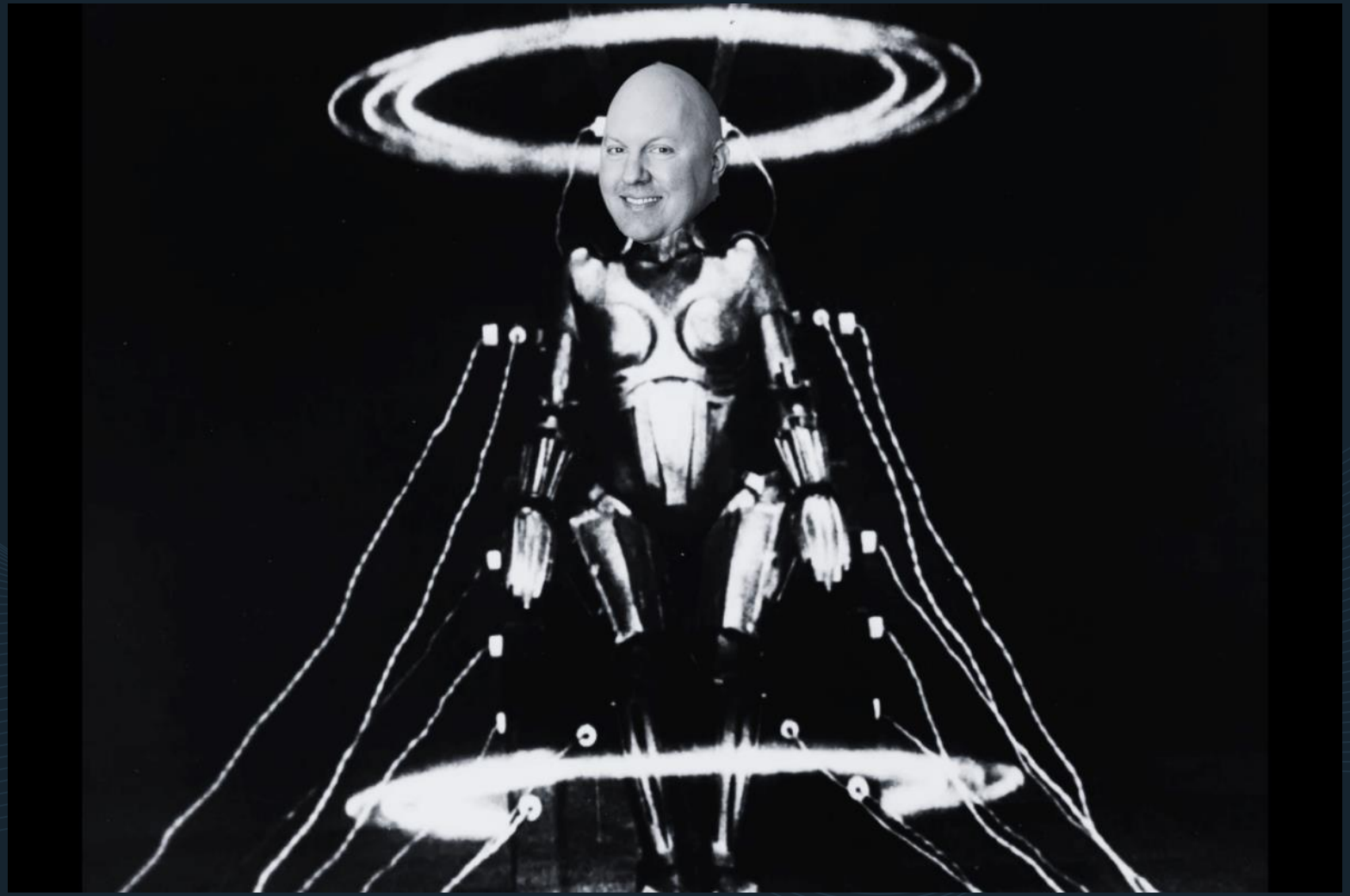
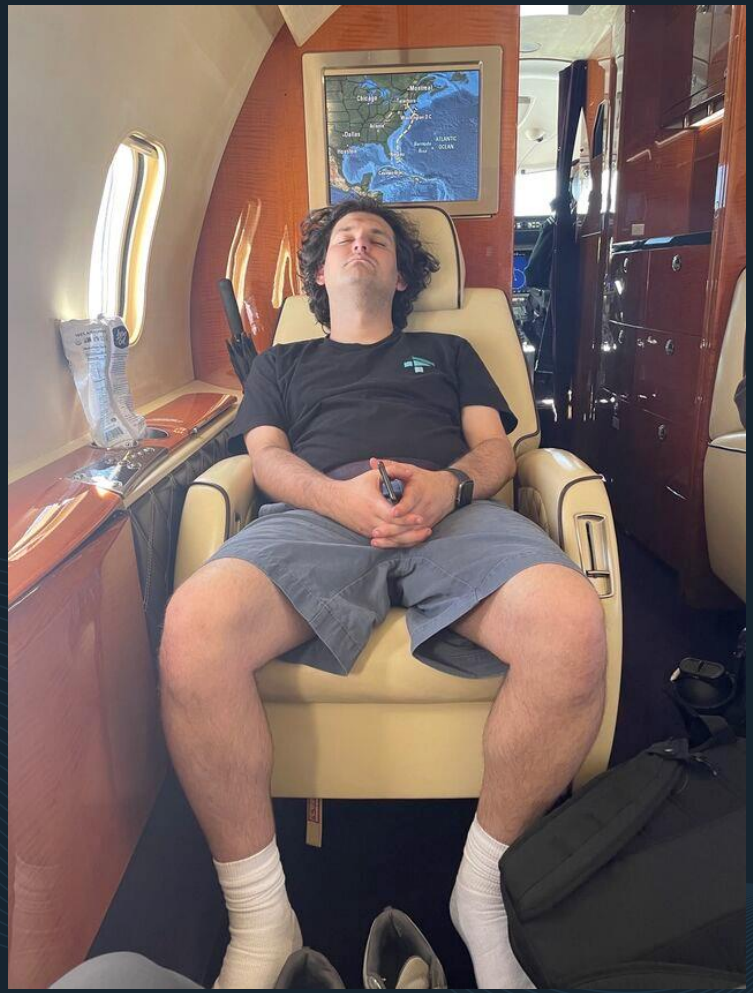


“We wish to glorify war — the world’s only hygiene — militarism, patriotism, the destructive act of the libertarian, beautiful ideas worth dying for, and scorn for women.”

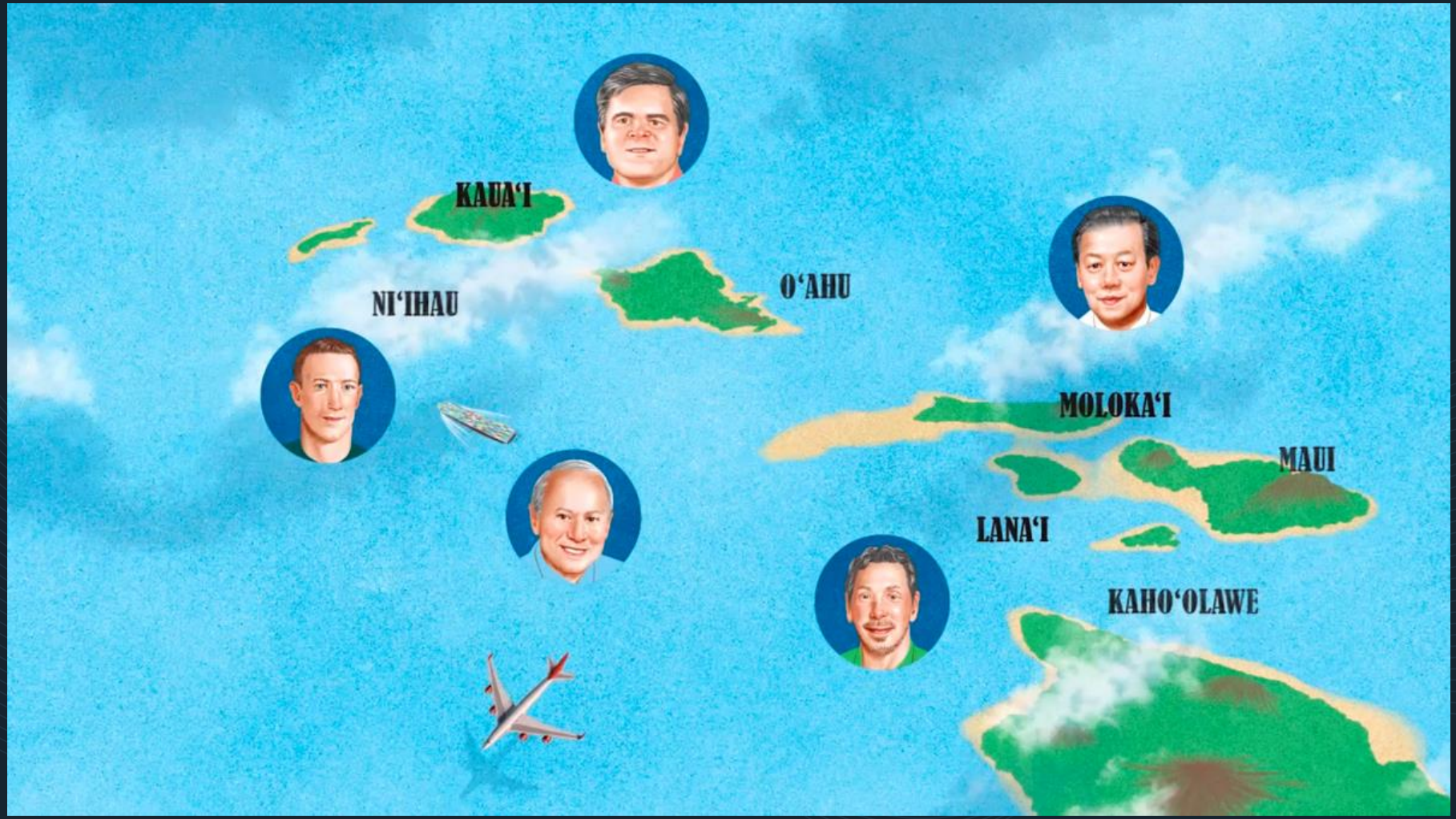


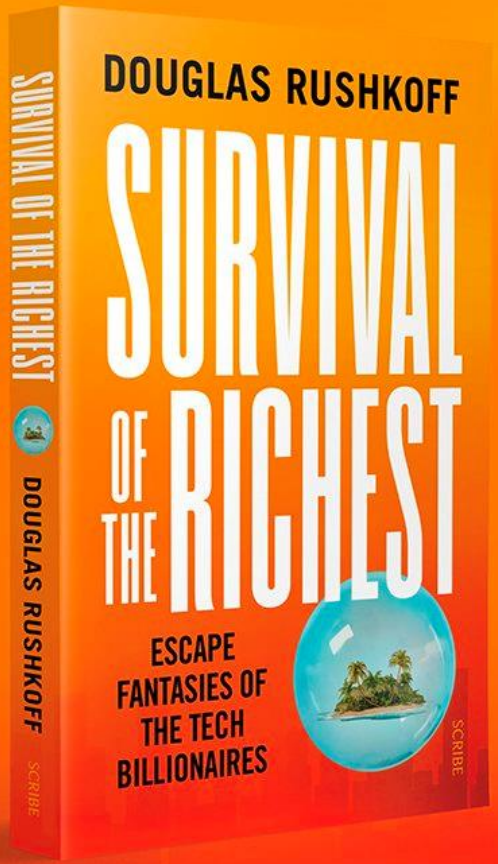
TESCREAL

Transhumanism
Extropianism
Singularitarianism
Cosmism
Rationalism
Effective Altruism
Longtermism

RECTALSET

Rationalism
Extropianism
Cosmism
Transhumanism
Arrogance
Longtermism
Singularitarianism
Effective altruism
Twitter





THE TECH ELITE HAVE A PLAN TO SURVIVE THE APOCALYPSE:

THEY WANT TO LEAVE US ALL BEHIND.

More than ever, tech in general (and AI in particular) needs people who give a damn about ETHICS.

See my friend James Gress at 1:30 tomorrow!

His talk is **Delivering Generative AI Solutions in the Enterprise**, where he'll talk about real-world cases where generative AI is transforming just about every aspect of

THANK YOU!

Joey de Villa
globalnerdy.com
linkedin.com/in/joeydevilla
github.com/accordionguy

Feel free to approach me and chat!

Just listen for the accordion!

Access these slides at **globalnerdy.com/ai-party**

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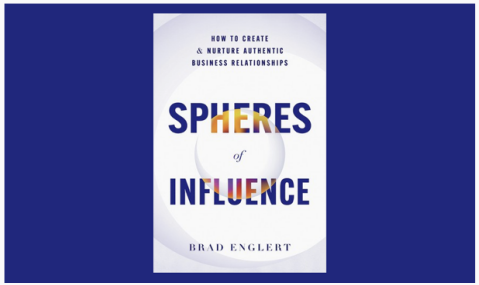
Sharing is caring!

Networking warmup: What is the best thing you learned tonight? (30 seconds)

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29



April 3, 2024

Discussion of “Spheres of Influence”

7:00 p.m. CT | **In-person**

REGISTER

Location

In-person

BookPeople

603 N Lamar Blvd, Austin, TX 78703

Agenda

7:00 - 8:00 p.m. | **Discussion**

8:00 p.m. | **Book Signing**

Moderators

Liz Aebersold, Founder, Wildcard Thinking

Brad Englert, CEO and Founder, Brad Englert Advisory

April 4, 2024

How America Can Win the Race for the Twenty-First Century

6:15 p.m. CT | **In-person**

REGISTER

Location

In-person

Capital Factory, Captain America Room

701 Brazos Street, Austin, TX, USA

Agenda

5:15-6:15 p.m. Networking

6:15-7:30 p.m. Presentation

7:30-7:45 p.m. Q&A

8:00 p.m. Networking at The Driskill Bar

Speaker

Dmitri Alperovitch, Chairman, Silverado Policy Accelerator

April 16, 2024

AI in 2024: Real Talk, Industry Trends, Hot Takes & Weird Flexes

6:15 p.m. CT | **In-person** (including networking) and **Online** (Zoom)

REGISTER

Location

In-person

Austin Central Library

710 W. César Chávez St.

Austin, TX 78701

Online

On Zoom

Agenda

5:15-6:15 p.m. Networking

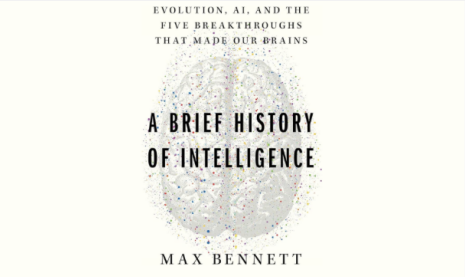
6:15-7:30 p.m. Presentation

7:30-7:45 p.m. Q&A

8:00 p.m. Networking at Trifecta

Speaker

Paco Nathan, Managing Partner, Derwen, Inc.



April 23, 2024

Discussion of "A Brief History of Intelligence"

7:15 p.m. CT | **Online**

REGISTER

Location

Online

Zoom (register for event to receive link)

Agenda

7:15 - 8:30 p.m. | **Discussion**

Moderator

Jay Boisseau, Executive Director, Austin Forum on Technology & Society and CEO, Vizias

April 30, 2024

Re-Evaluating "Ex Machina" in the Age of Generative AI

6:30 p.m. CT | **In-Person**

REGISTER

Location

In-Person

Violet Crown Cinema

434 West 2nd Street

Austin, TX 78701

Agenda

6:30 - 9:30 p.m. | **Showing & Discussion**

Panelists

Maggie Engler, Technical Staff, Microsoft AI

Peter Voss, CEO/ Chief Scientist, Aigo.ai

Luke Wilson, Chief Data Scientist, Vizias

Donate Your Unused Tech on April 16

- If you have computers, tablets, or smartphones no longer being used, please help those in need
- Bring your devices to any in-person event, and we'll donate to our worthy charities!

TECH FOR TROOPS T4T™

AUTM AUSTIN URBAN TECHNOLOGY MOVEMENT

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  - Misinformation/disinformation
    Astronomy tech
  - Climate and sustainability tech
  - Gaming & gamification tech
  - Brain/neuro tech
  - Robotics
  - and more!!!

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- In-person meetups
- Online book discussions
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Jay Boisseau
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Web/UX Designer

Gabby Warner
Communications

Julie Tomlin
Event Execution

Luke Wilson
Event Tech

John Lockman
Podcast Engineer

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Please share the upcoming events with your friends and colleagues!

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ON TECHNOLOGY & SOCIETY

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