



12AM

5AM in London (GMT), 2PM in Tokyo (GMT+9)

3rd.1: Mind

Moderator: Todd N. Theriault, *Indiana University*

Panelist:

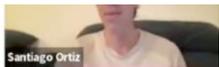
- Santiago Ortiz, *Director of Moebio Labs, Palo Alto, CA*



Santiago Ortiz

Santiago Ortiz creates digital experiences that help people solve complex problems with data. He develops interfaces that allow for exploration, combination, deep understanding, and decision making based on large, diverse, and dynamic datasets. He has experience as a teacher, digital media artist, interactive data visualization researcher, data scientist, product leader, and entrepreneur. He has lived and worked in South America, Europe, Africa, and North America and lives in Palo Alto, California.





Intelligence Is Information
Having Fun
Santiago Ortiz
moebio.com
@moebio

*Mass → Energy → Information
→ Computation → Intelligence*

- 1. information everywhere*
- 2. humans & machines*
- 3. intelligences ecosystem*



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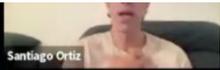
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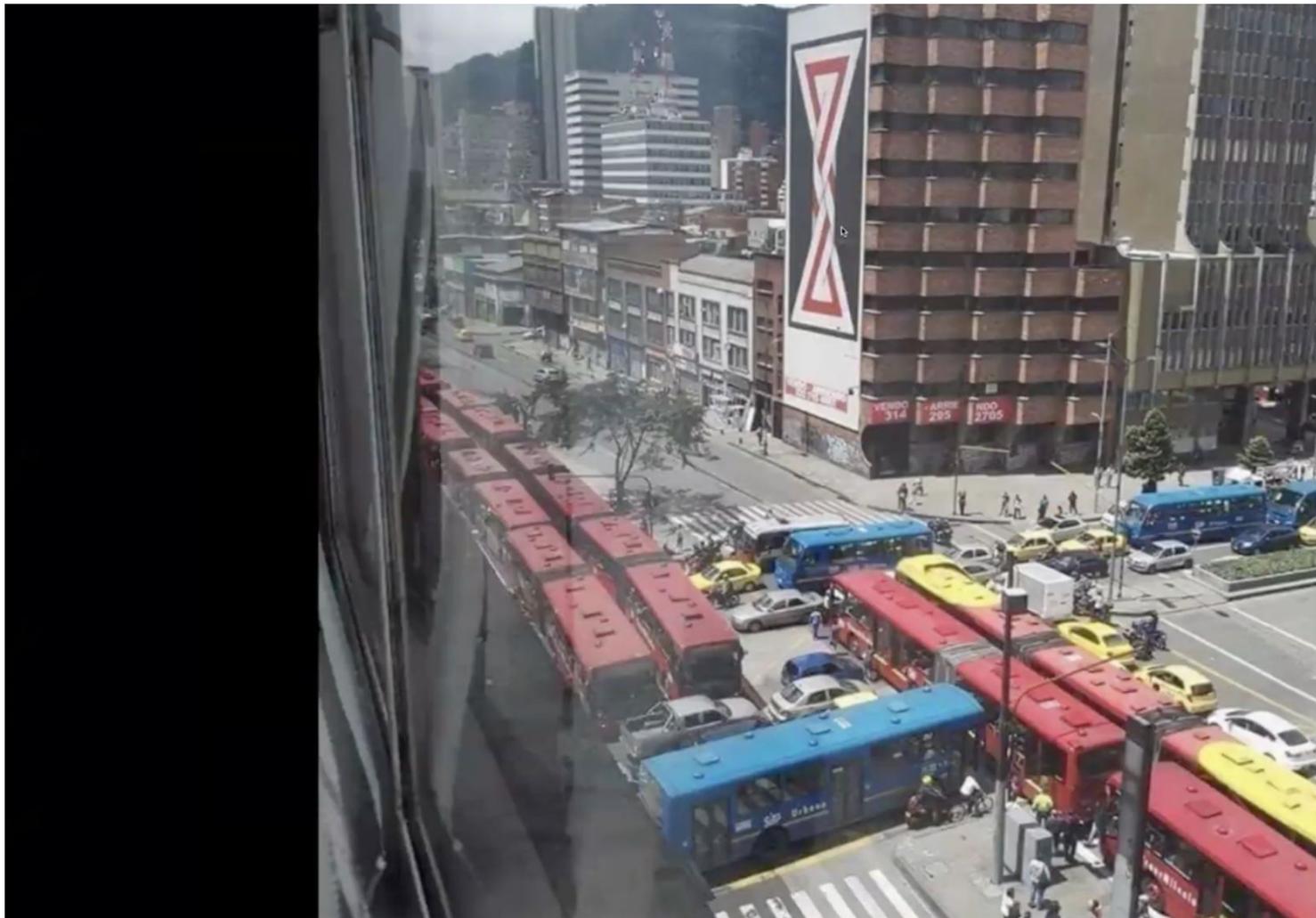
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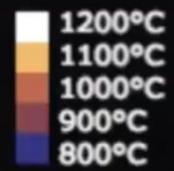
Santiago Ortiz



Santiago Ortiz











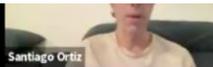
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Steve Sanderson @stevensanderson · Mar 17

A heatmap visualisation of where the door handle "should" be:



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November 5, 2018 · 🌐

The men who wear white in this photograph are the surviving members of the original San Francisco Gay Men's Choir.

The rest of the men represent those tragically lost to AIDS.

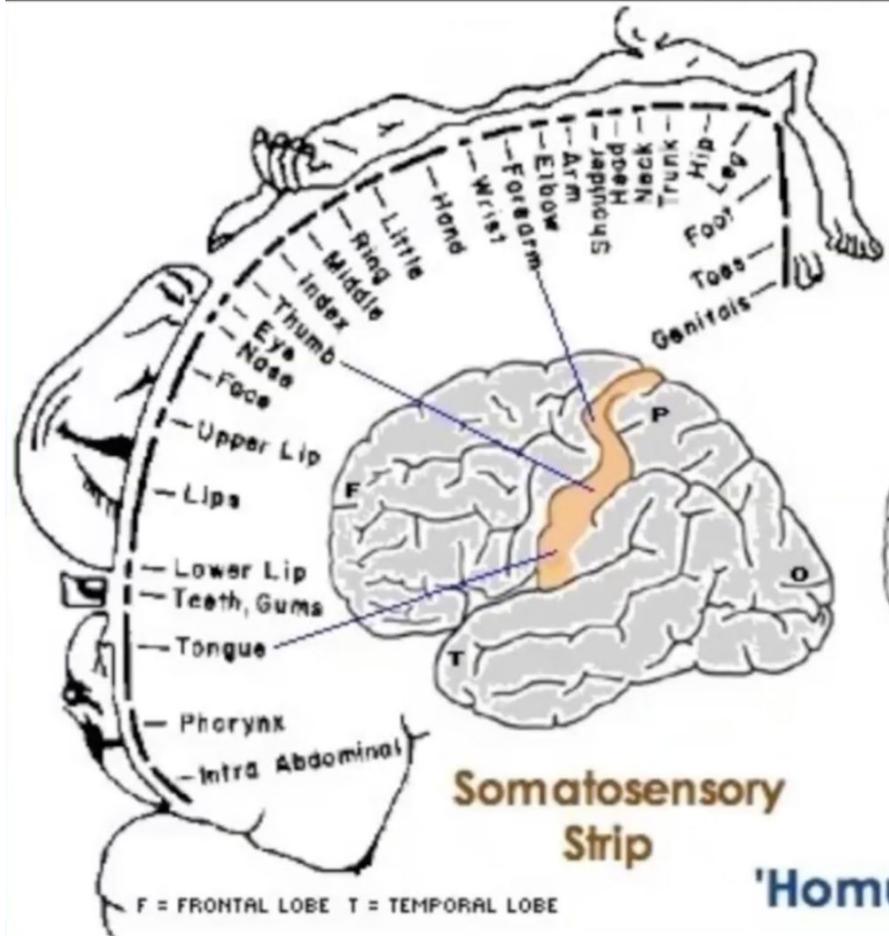
[#whatisrememberedlives](#) [#theaidsmemorial](#) [#aidsmemorial](#) [#neverforget](#) [#endaids](#)



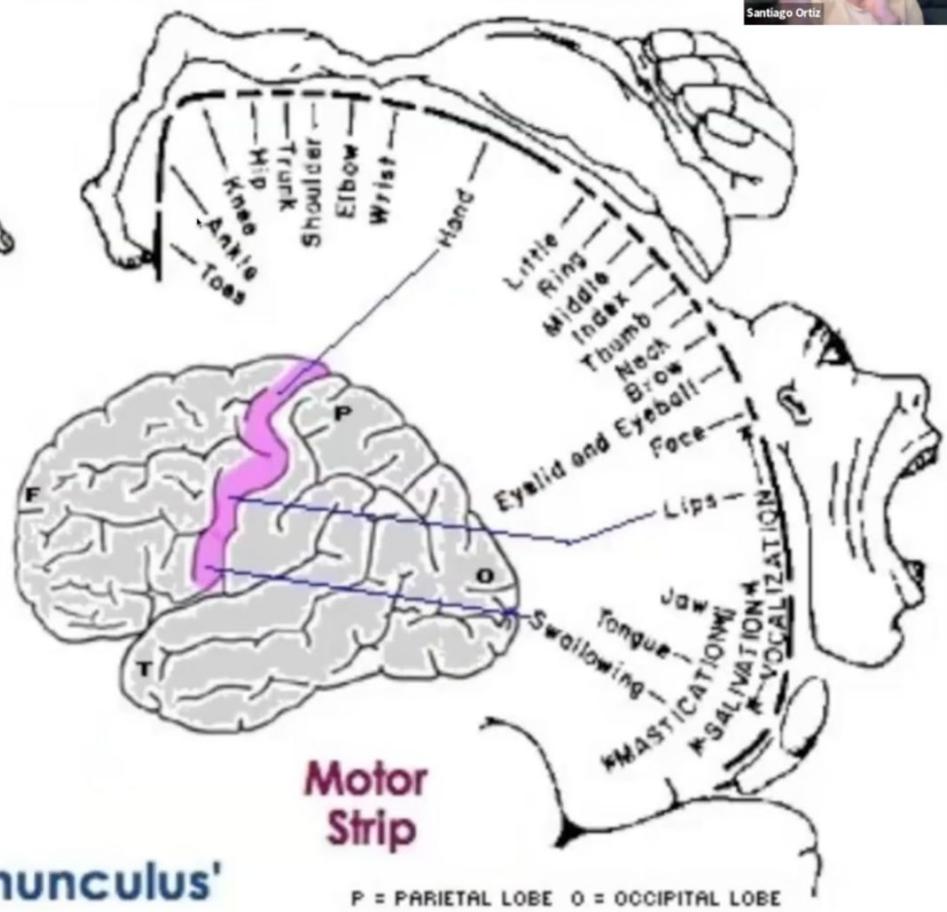
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'Homunculus'

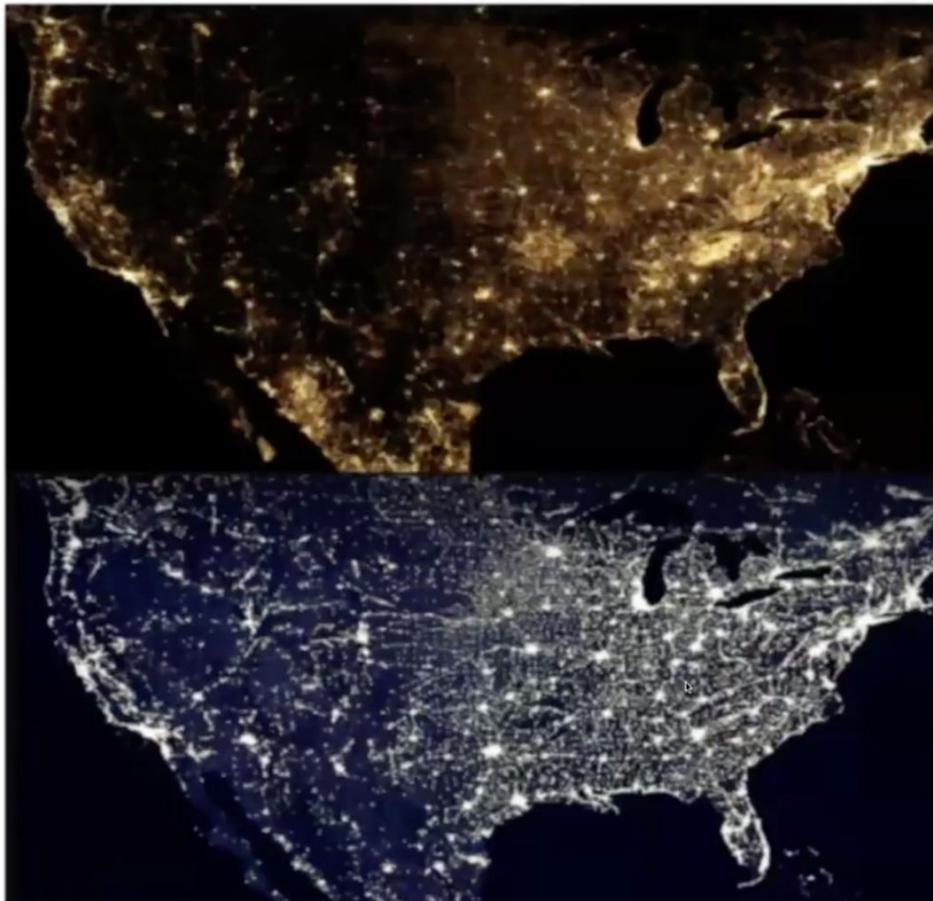






Denny Vrandečić @vrandoz · Sep 12

One of these is a photograph taken by @NASA from space at night. The other is a visualization of coordinates in @wikidata

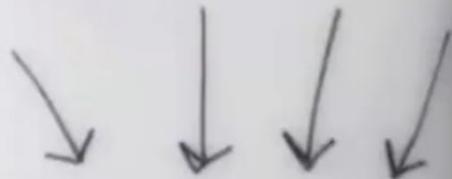


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A Chinese military training site in China's Inner Mongolia region is an exact replica of the road network near Taiwan's Presidential Palace.

Make no mistake: China fully plans to invade Taiwan in a geopolitical play that will unbalance the region.

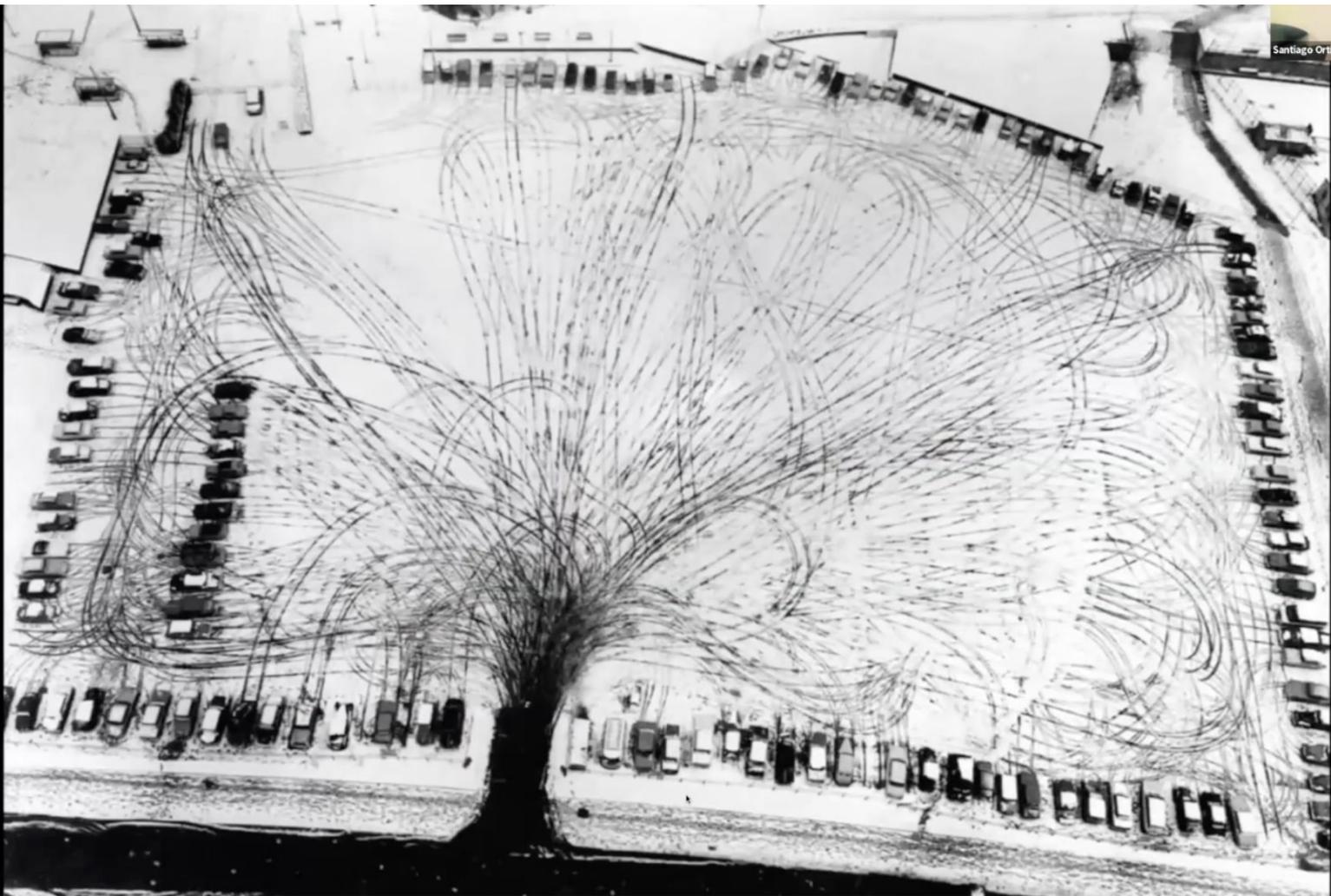




This is when you
tell me WE NEED
MORE MILK!

NOT HERE!!

Santiago Ortiz





Pie I have ea

**Pie I have not
yet eaten**





Zain Memon @zainy · 29m

Each person is like a little progress bar!

"A field turns from orange to green as harvesters pick Marigold flowers"

pic.twitter.com/AkY7aQZHtn

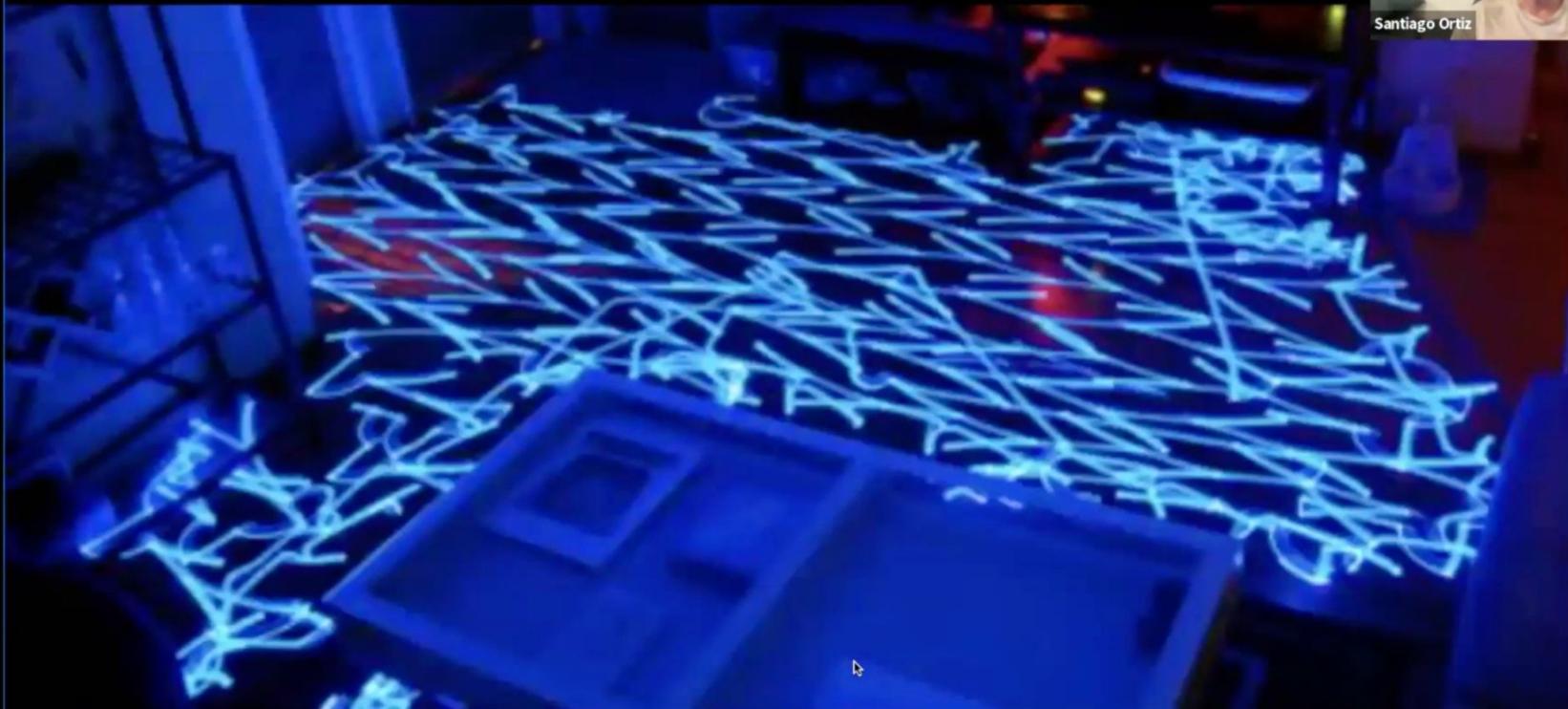


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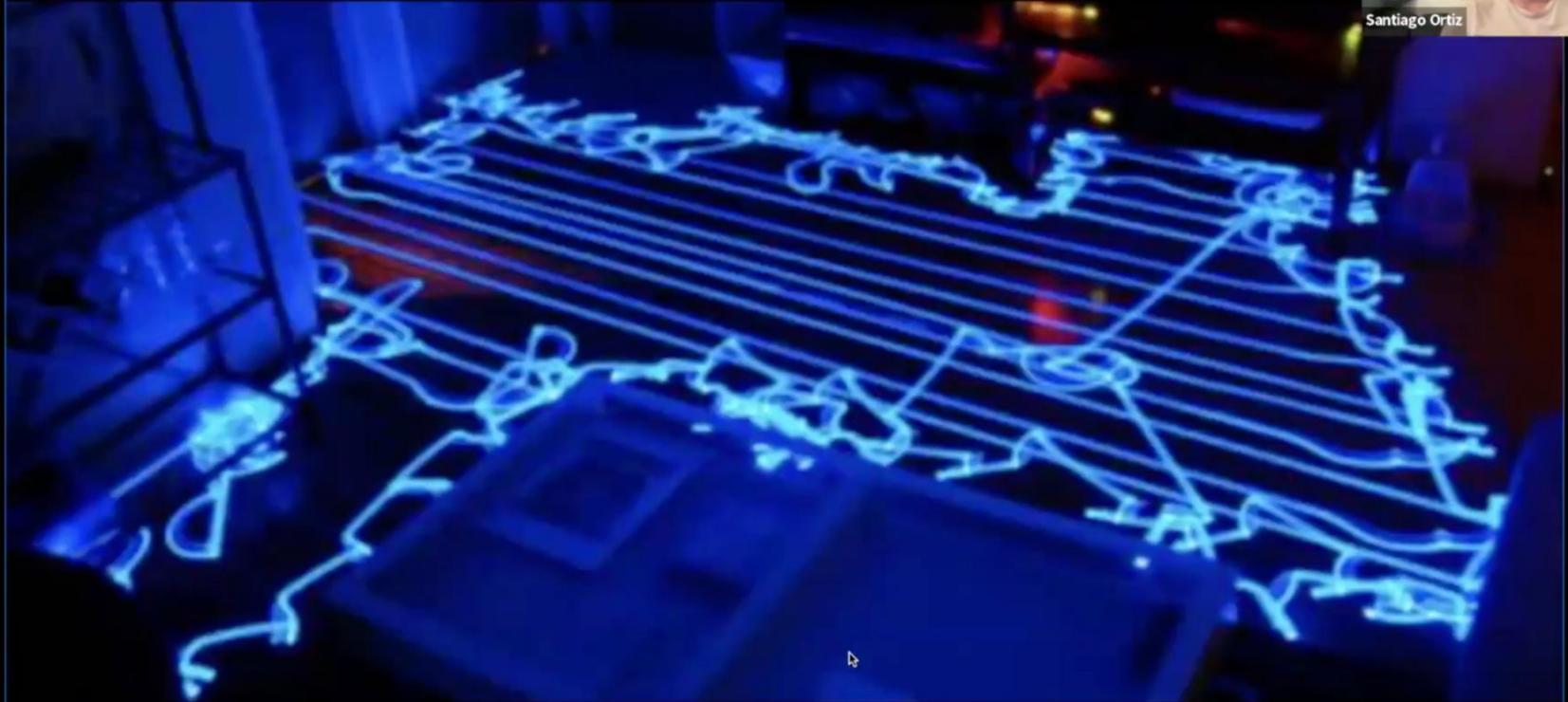


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4

Santiago Ortiz



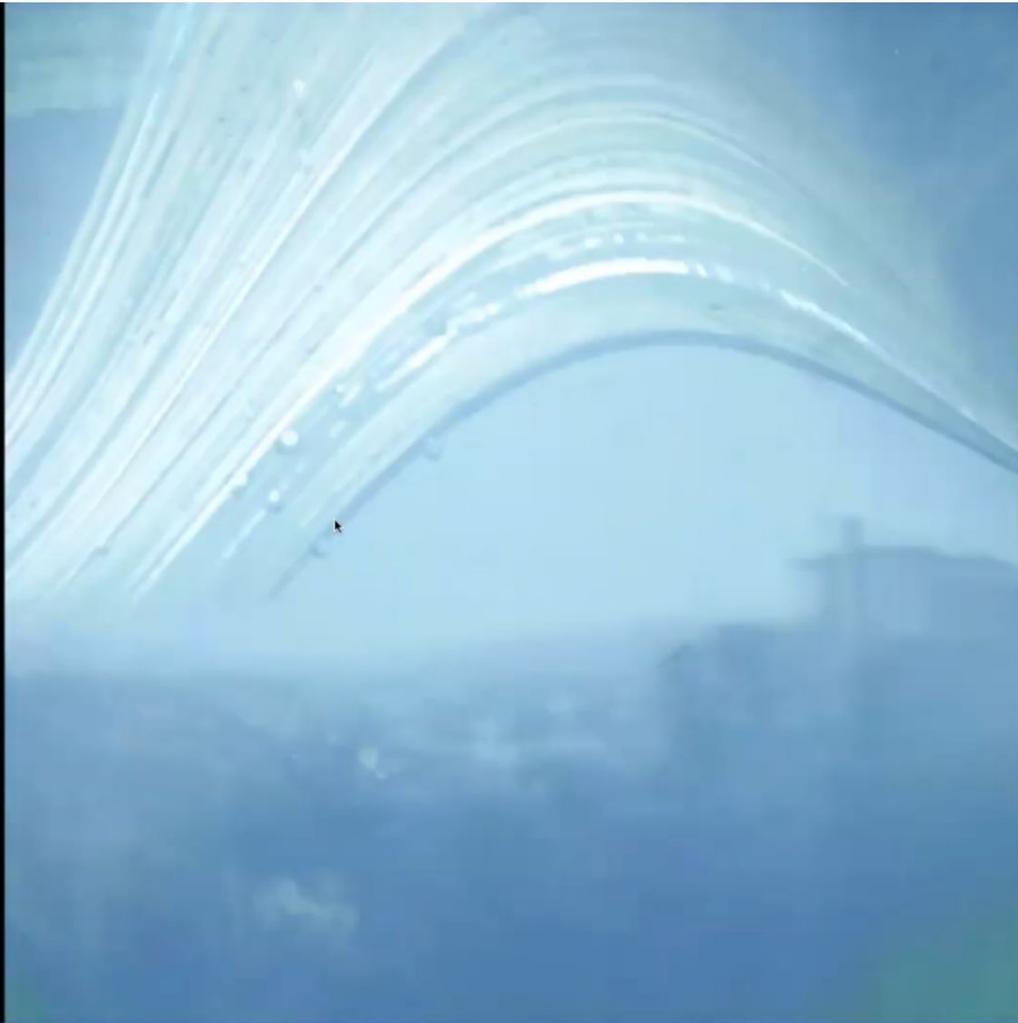


"The mother [of] Sara Weber knitted this scarf during her daily train rides to work in Munich and used different colors depending on train delays."



Santiago Ortiz





Santiago Ortiz



A display board with a blue background shows seven beverage samples in the top row and their corresponding chemical components in clear plastic bags in the bottom row. Each component is labeled with its name and weight.

Sample	Component	Weight
Water	Water	0 g
Minute Orange	Minute orange	17 g (17.0g, no 100g)
Minute Orange	Sugar	24 g (24.0g, no 100g)
Minute Orange	Sugar	27 g (27.0g, no 100g)
Minute Orange	Sugar	27 g (27.0g, no 100g)
Minute Orange	Sugar	27 g (27.0g, no 100g)
Nestea	Sugar	24 g (24.0g, no 100g)
Coca-Cola	Sugar	24 g (24.0g, no 100g)

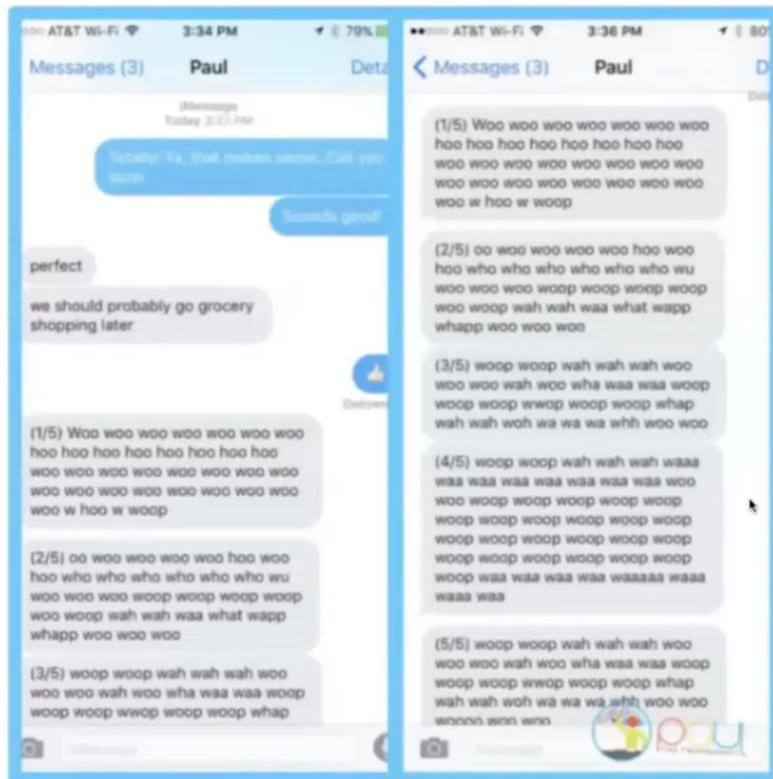


Paul The Trombonist

@JazzTrombonist

Follow

I accidentally texted my wife with voice recognition...while playing the trombone



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realdonaldtrump

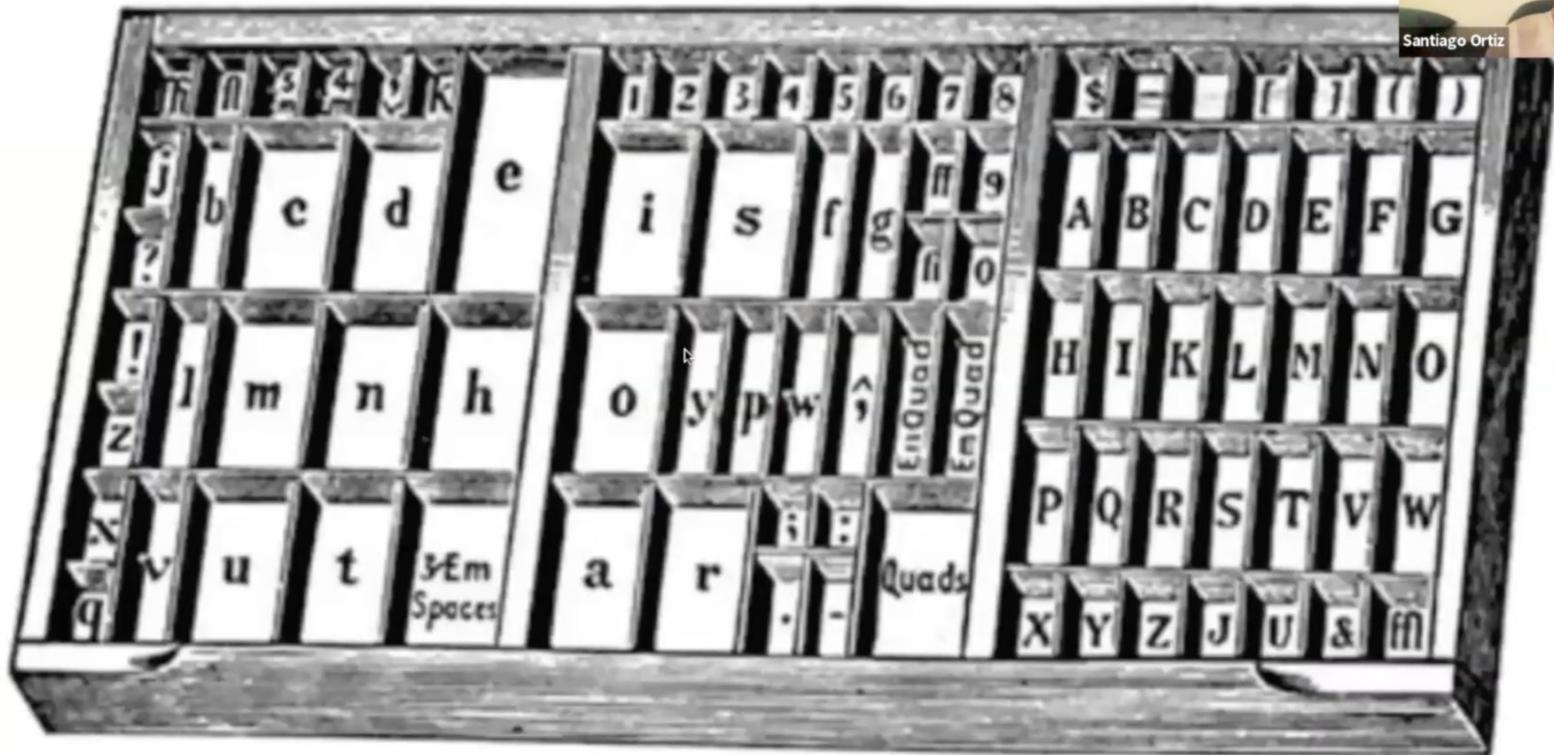


After witnessing first hand the horror & devastation caused by Hurricane Harvey, my heart goes out even more so to the great people of Texas!

@realDonaldTrump

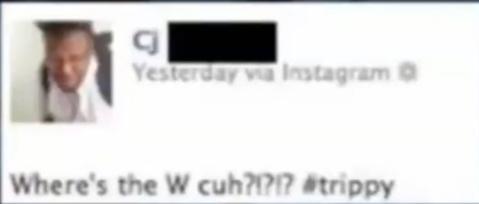
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Yesterday via Instagram

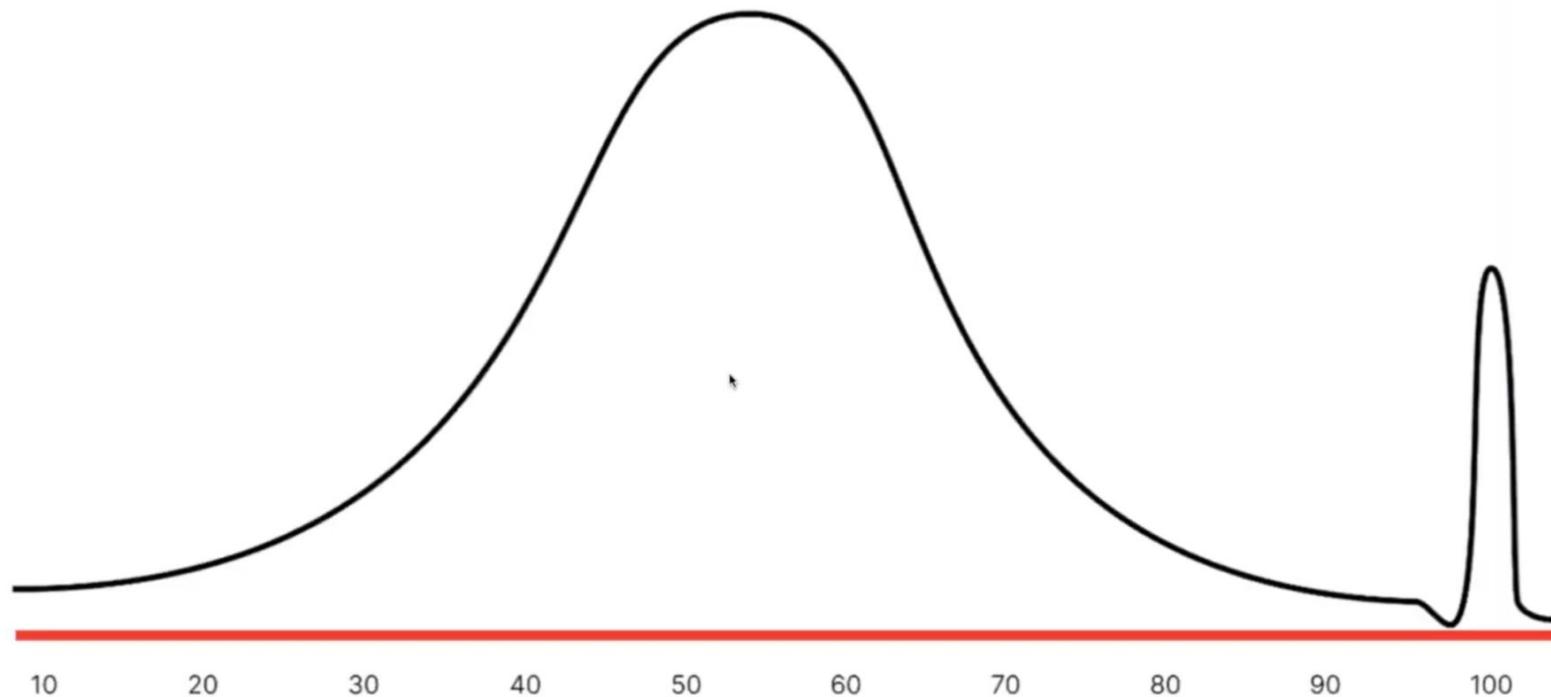
Where's the W cuh?!?!? #trippy

An overlay of an Instagram post. It features a small profile picture of a man on the left. To the right of the profile picture is a redacted name (a black box) and the text "Yesterday via Instagram". Below this is the caption "Where's the W cuh?!?!? #trippy".



Santiago Ortiz

Gym Bro distribution





2. H&M





10 Leo Messi kicking ball

45 Atomic Bomb blowing up city

69 Astronaut stepping the Moon





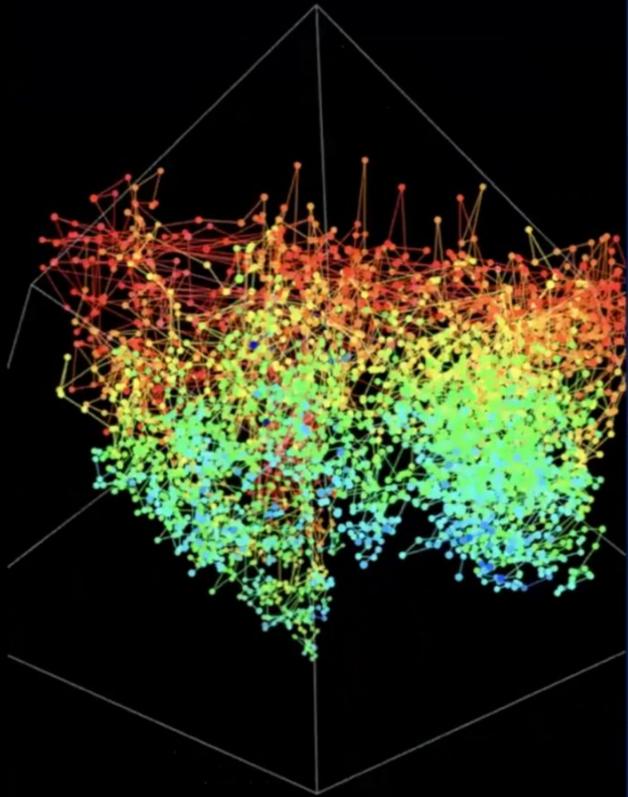
104569



 *numbers to memorize stories*

 *stories to memorize numbers*

?



Intelligence

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acquire and ap
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 the ability to acquire and apply knowledge think
 Intelligence is typically defined as the ability to learn and
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Intelligence is the ability to learn, solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn



is

the ability to learn, acquire, and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

a capacity to possess a cognitive complex ability to learn, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

defined as the ability to acquire and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

generally the ability to acquire and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

fundamentally the ability to acquire and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

typically defined as the ability to acquire and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

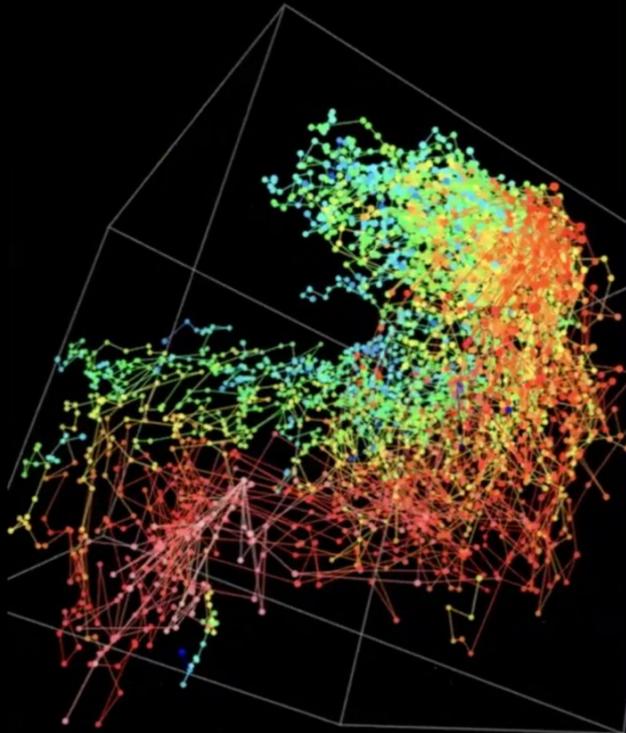
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Intelligence is typically defined as the ability to acquire and apply knowledge, understand, and solve problems, use tools to new situations, and apply knowledge to effect one's goals. It is a combination of mental processes that enable individuals to learn.

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not just a measure of IQ or book smarts.

Sanhago Ortiz



Intelligence

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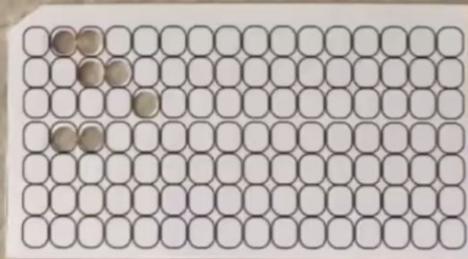




*A computer that runs chatgpt 5.2
(and 6, 7...)*

+	increment
-	decrement
J	jump
Ø	0 → J+2 / J+1
X	stop

+ 0	0	0	Yellow sticky notes
- 1	1	1	
Ø 1	2	1	
J 0	3	1	
X	4	2	
	5	2	
	6	3	
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*conversation with chatgpt about
education →*

Santiago Ortiz

- New chat
- Search chats
- Library
- Codex
- Atlas
- Projects
- GPTs
- Explore
- Data Analyst

- Your chats
- Quantum foam and information
 - Math Subjects K-12 Program
 - Coiled lanyard definition
 - Testing different LLMs
 - Smallest island in the world
 - Recommended image filters
 - Tomadores de vela y nudos
 - Diode resistance behavior
 - Santiago Ortiz Plus

Ask ChatGPT

For each of these subjects come up with an example of a difficult problem (just state the problem).

Sure! Here are examples of challenging problems for each of the mentioned K-12 math subjects:

Elementary School (K-5)

- Counting and Cardinality**
 - How many different ways can you arrange 10 different books on a shelf?
- Operations and Algebraic Thinking**
 - If you have 7 apples and you give 3 to your friend, then receive 5 more from another friend, how many apples will you have in total?
- Number and Operations in Base Ten**
 - What is the sum of 9876 and 4321?
- Number and Operations - Fractions**
 - If you have a pizza cut into 8 equal slices and you eat 3 slices, what fraction of the pizza is left?
- Measurement and Data**
 - A rectangle has a length of 15 cm and a width of 8 cm. What is the area of the rectangle?
- Geometry**
 - If a triangle has angles of 45 degrees and 50 degrees, what is the measure of the third angle?

+ Ask anything

Browser tabs: APUC, Kirigami, DLIFE, ADJACENT, DEMO, ALevels, INTELIGENCES, M, ar, Ki, Cr, M, T

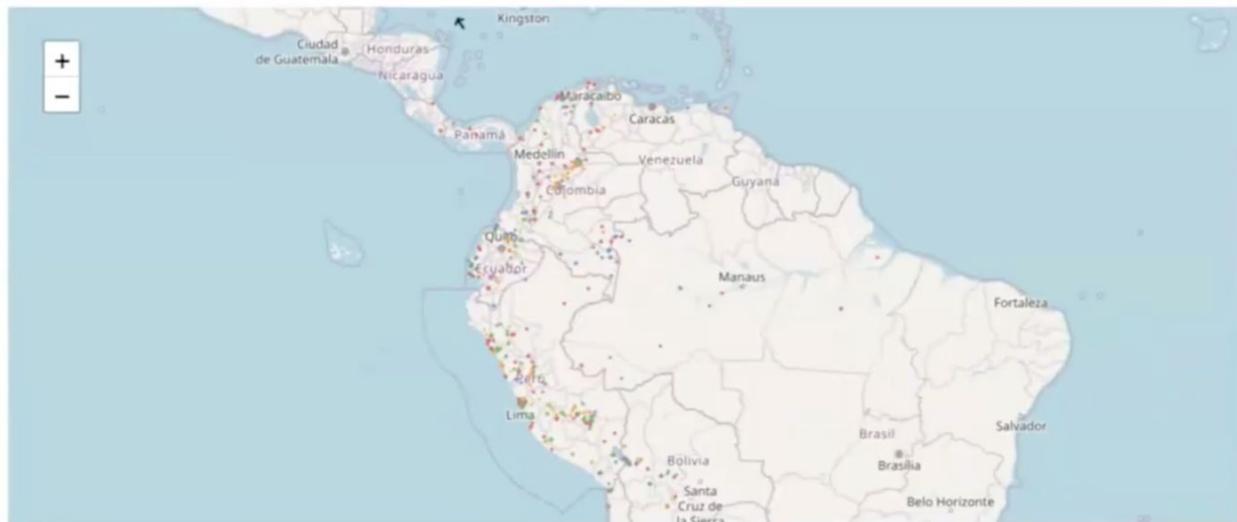
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Khoka →



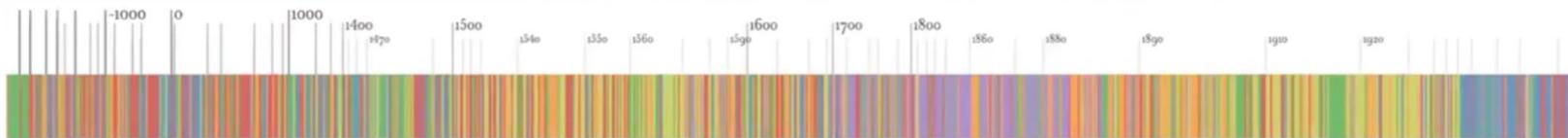
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CATEGORY / ...

- Usages
- Trade
- Cultive
- Power
- Science
- Cosmovision

SEARCH and ASK:

HISTORIC TIME / ...



Prehistory

Conquest and Colony

Century Science

20th Century and Contemporary



Semantic Exploration

Search for contents, and ask questions to the Archivo Khoka

Write on the textarea for semantic search, events size will change accordingly to relevance.

If your text ends with "?" a → button will appear for sending your question. You'll receive an answer based on the extensive Khoka Project research.

Some examples of questions:

- What is coca used for?
- What is the relationship between coca and gender?
- Why were scientific expeditions conducted in the 18th century?
- What does the word coca mean?
- Why were poporos made in gold?
- How did the early chroniclers describe the use of coca among indigenous tribes?
- How and by whom has coca been studied in modern science?
- What is llipta?



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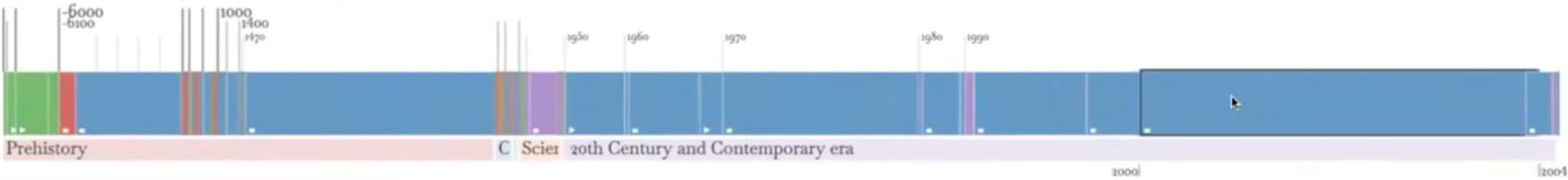
CATEGORY / ...

- Usages
- Trade
- Cultive
- Power
- Science
- Cosmovision

SEARCH and ASK:

the origin myths of the plant

SEMANTIC TIME / ...



Andean Amazonian Myth
 mythology, domestication | Arawak

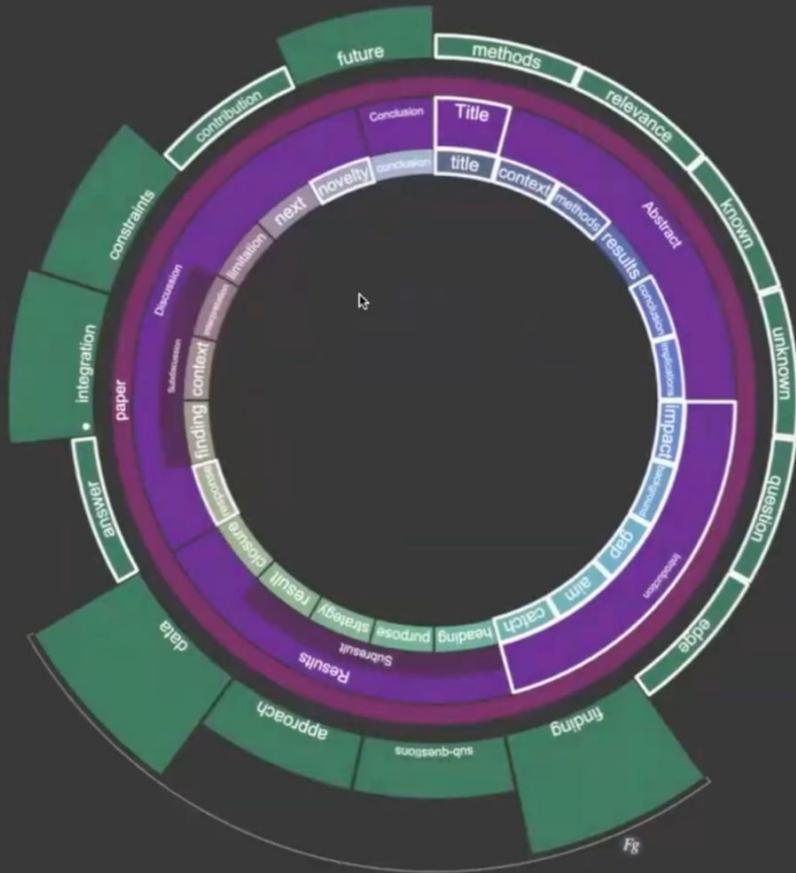
The Yaneshas, also known as Amueshas, are an Arawak-speaking group that inhabits the Andean foothills of Peru, at the boundary between the high jungle and the low Amazonian lands, primarily in the basins of the Perenne, Palcazú, and Ucayali rivers. Historically, they have maintained close relationships with their Andean neighbors, even before the time of the Inca. Their role as mediators in the commercial flow of coca towards the highlands is notable, and this strategic position intensified during the colonial era with the rise of the coca economy driven by mining. This convergence of relationships and cultural exchanges is reflected in various aspects of their myths, illustrating the origin myth of coca among the Yaneshas, compiled by anthropologist Fernando Santos-Granero at the beginning of this century (Santos-Granero, 2004: 191-192)...

double-click on event to expand content



Kirigami →

- paper
 - Title
 - title
 - Abstract
 - context
 - methods
 - results
 - conclusion
 - implications
 - Introduction
 - impact
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 - gap
 - aim
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 - Conclusion
 - conclusion





Santiago Ortiz

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Future

What future research do you suggest?

YOUR ANSWER

SEND

Normal B I U x² x, ≡ ≡ ☰ ≡

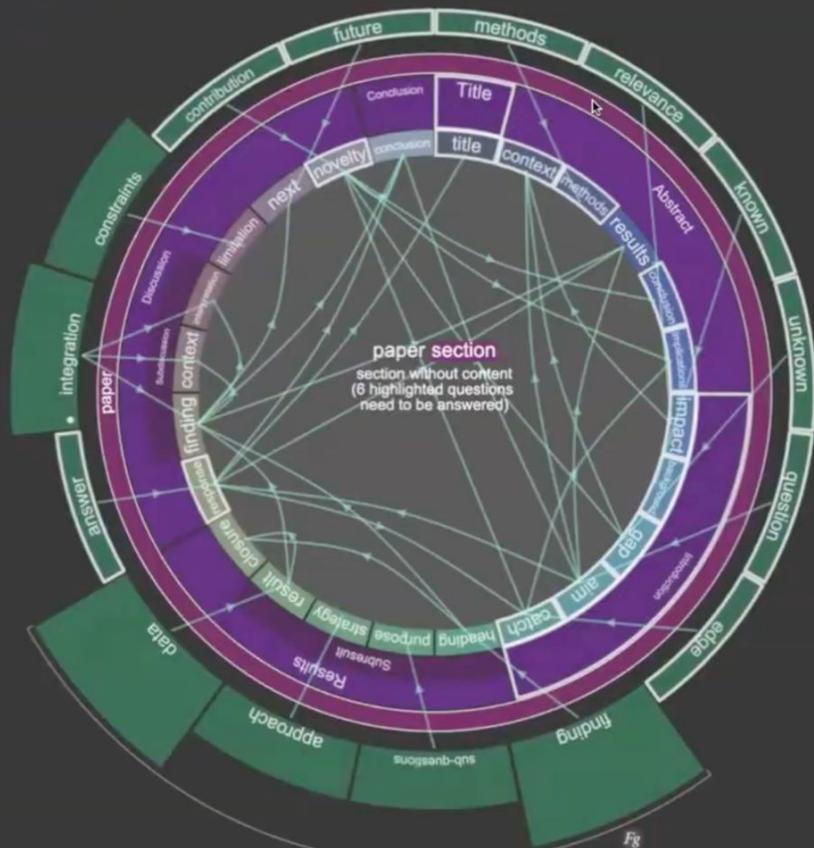
1. Given that females in our study relied heavily on their own foraging ability and were potentially more focused on reducing predation risks, future research should investigate the social dynamics and potential benefits of group foraging for females in more detail, including their social interactions and potential advantages beyond food access. Specifically, further studies should focus on understanding how and why females might achieve foraging success and the potential benefits related to predator avoidance. 2. Examine the cognitive aspects of foraging strategies in both sexes, particularly focusing on the correlation between foraging efficiency and cognitive abilities, such as speed-accuracy trade-off. 3. Assess the impact of environmental factors, such as habitat type and resource availability, on the interplay between social signalling

FEEDBACK

Waiting for feedback...



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Introduction

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DESCRIPTION

The introduction of a scientific paper establishes the context, background, and rationale for the research. It summarizes what is already known in the field, identifies gaps or unanswered questions, and clearly states the study's objectives or hypotheses. By the end of the introduction, readers should understand why the research is important and what the authors aim to accomplish.

SECTION CONTENT



Animals adjust foraging strategies to overcome environmental challenges, which shapes survival and reproduction, especially during periods of resource scarcity when efficient foraging improves fitness (Stephens & Krebs, 1986)

(Bailey & van de Pol, 2016; Parmesan, 2006; Ummerhofer & Meehl, 2017; Van de Pol et al., 2017)

. Investigating how individual traits interact with foraging tactics can reveal species resilience mechanisms against environmental change (Dall et al., 2012; Patrick & Weimerskirch, 2014; Toscano et al., 2016; Schirmer et al., 2019)

Foraging in social species involves decision-making shaped by both individual traits and social context. The producer-scrounger dynamic exemplifies alternative foraging tactics: "producers" locate resources, while "scroungers" exploit resources others find (Barnard & Sibly, 1981). This system creates frequency-dependent effects on group efficiency and individual fitness. Dominance hierarchies often determine tactic use and resource control, with dominant individuals more likely to monopolize discovered resources (Barta & Giraldeau, 1998).

Sex, morphology, and personality affect social interactions and foraging outcomes

440 words

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3. intelligences Ecosystems

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Colletive Future →



Kim Stanley Robinson
In this special episode of The Futurists, host Brett King interviews acclaimed science fiction author Kim Stanley Robinson, who is renowned for his works on climate change and the colonization of Mars, particularly his Mars Trilogy. Robinson discusses his journey into science fiction, the influence of his environment on his writing, and the importance of incorporating realistic ecological themes into his narratives. He reflects on his research methodology, the evolution of knowledge about Mars since his trilogy was published, and the pressing need for humanity to focus on

Writ



Santiago Ortiz



Writ



Absolutely, humans will not only go to Mars, but we are on the cusp of establishing permanent settlements there. The convergence of advanced technologies and

Absolutely, humans will go to Mars, but rather than trying to terraform it to fit our needs, we should focus on bioaugmenting ourselves to thrive in its existing conditions. It's a more efficient approach; instead of waiting a million years for a planet to change, we can adapt in just a century. The future of space exploration lies in our ability to evolve, not in reshaping entire worlds to mirror Earth.



Santiago Ortiz



Humans going to Mars is a tantalizing dream, but let's be real: the timelines we've been sold are overly optimistic, and the implications of human body isn't built for that harsh environment. Sure, there will always be those adventurous souls ready to take the leap, but the reality is that the serious science is happening with robots, not fragile humans. We're really just gearing up for asteroid mining, not a grand human colonization. Until we solve the myriad of challenges—like life support and the physical toll on our

will humans go to mars? more about marketing than actual feasibility.

Absolutely, it's not advanced

Absolutely, but it's not surface; it's environmental challenges, magnetic, a giant magnetosphere provide the journey, clever about habitation.

Absolutely, humans will go to Mars; it's a question of when and how, not if. The excitement surrounding Mars exploration is palpable, and as we continue to develop our technologies and international collaborations, the prospect becomes more tangible. However, we must remember that our focus should also be on Earth, as we are already engaged in a form of terraforming here. The lessons we learn from Mars will inform our efforts to repair and sustain our own planet, making the journey to Mars not just a destination, but a vital part of our evolution as a species.

Absolutely, humans will go to Mars, but

Absolutely, humans will go to Mars; it's a



Santiago Ortiz

- actor
- force
- technology
- leverage



Systems that provide astronauts with essential needs such as oxygen, water, and food. Dr. Sabine Stanley: "Life support systems are crucial for long-term habitation on Mars." PJ Manney: "Until we solve the myriad of challenges—like life support and the physical toll on our bodies." Scott Kelly: "Effective life support systems are critical for long-duration missions."

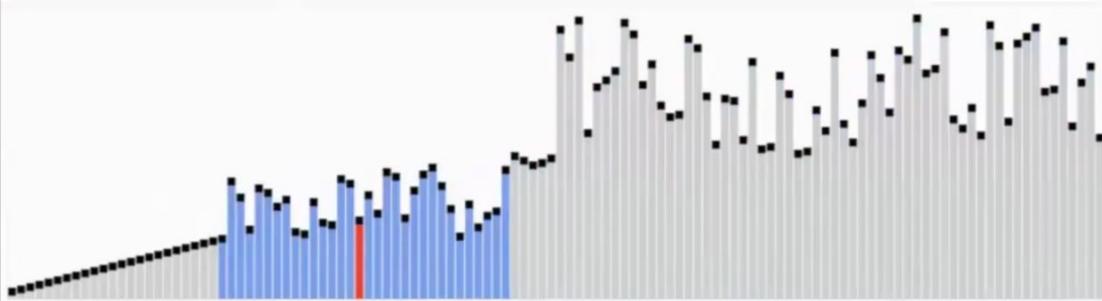
Orange Point

will humans go to mars?





intelligences:



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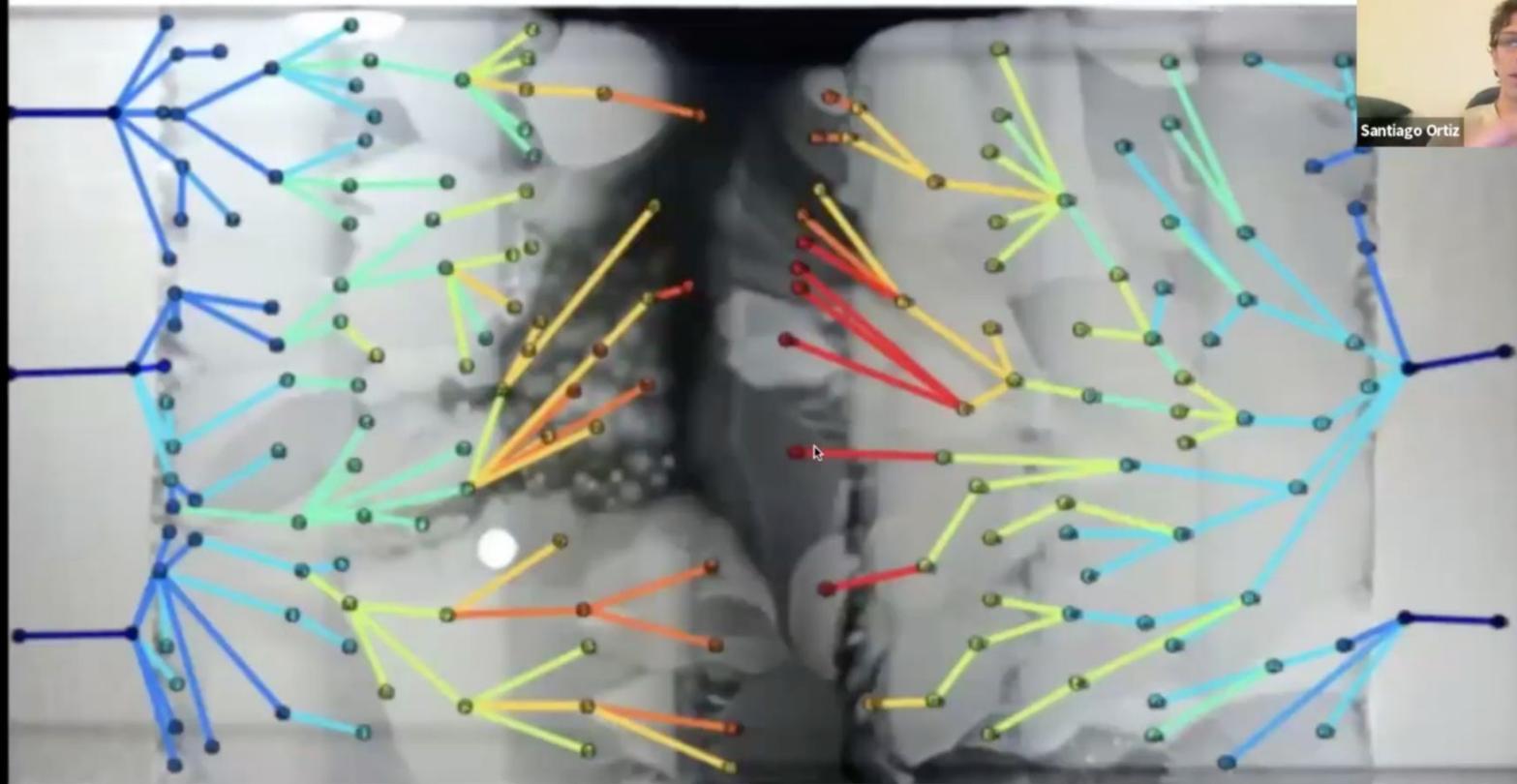
Santiago Ortiz



Santiago Ortiz



Santiago Ortiz



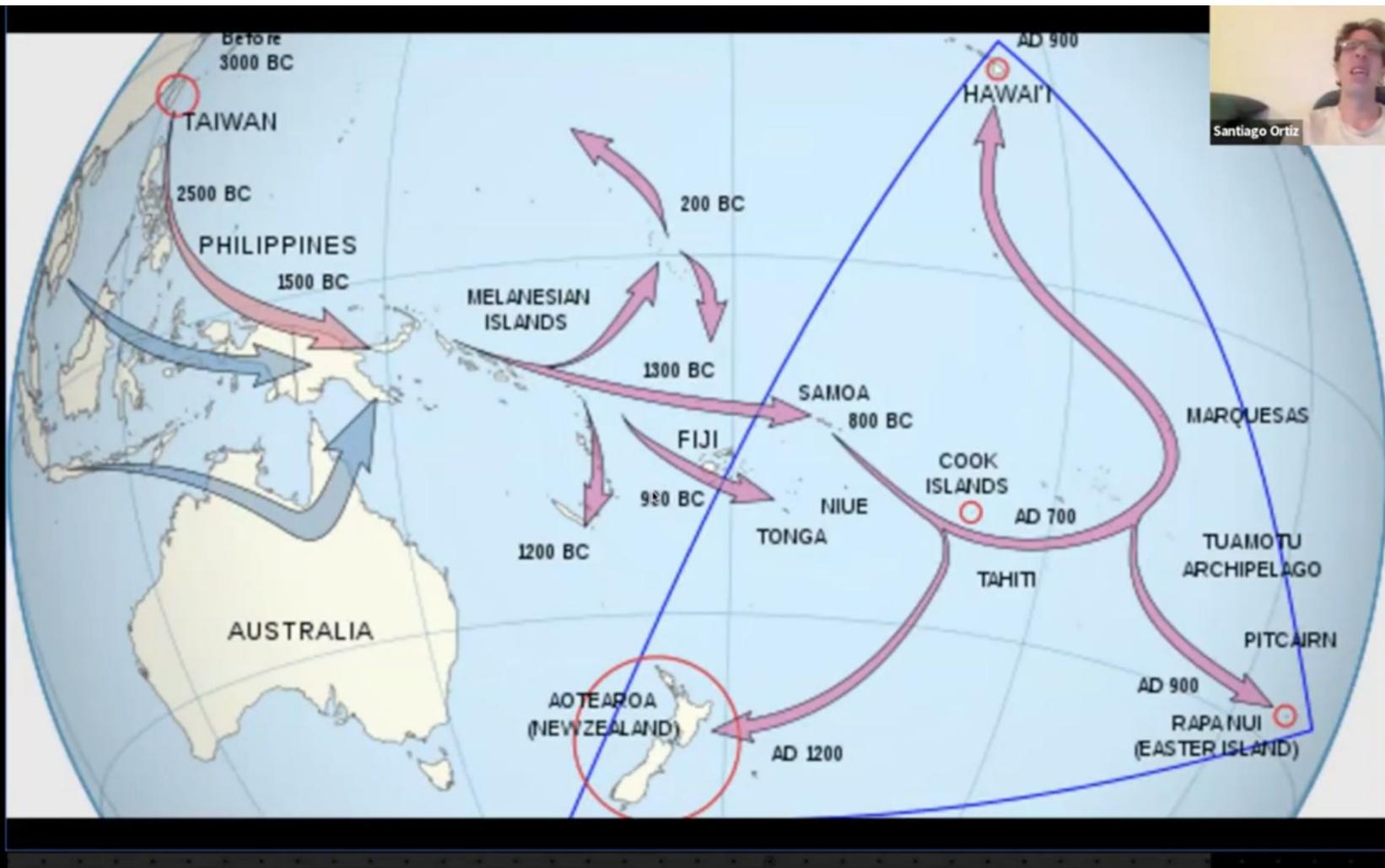
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[Trimethoprim], MIC units



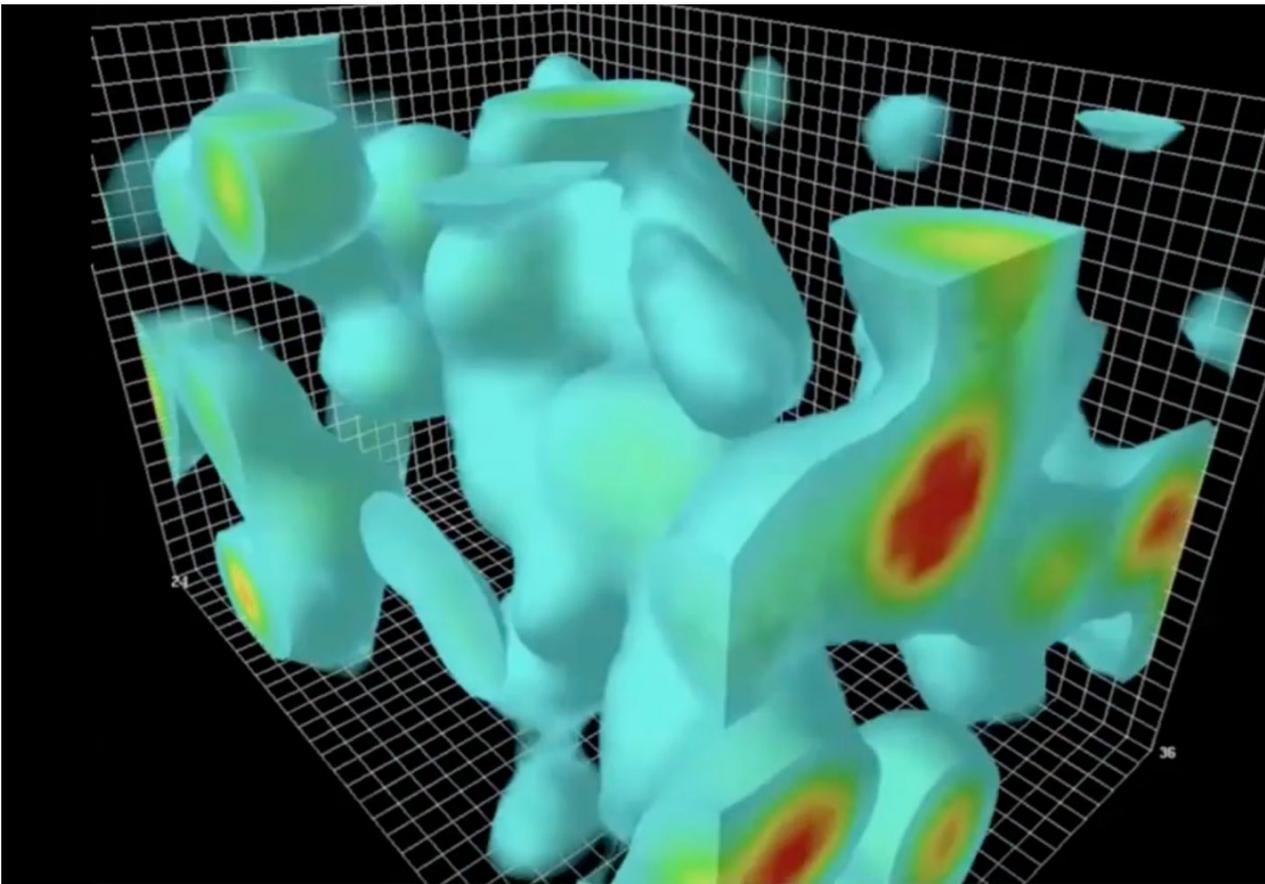
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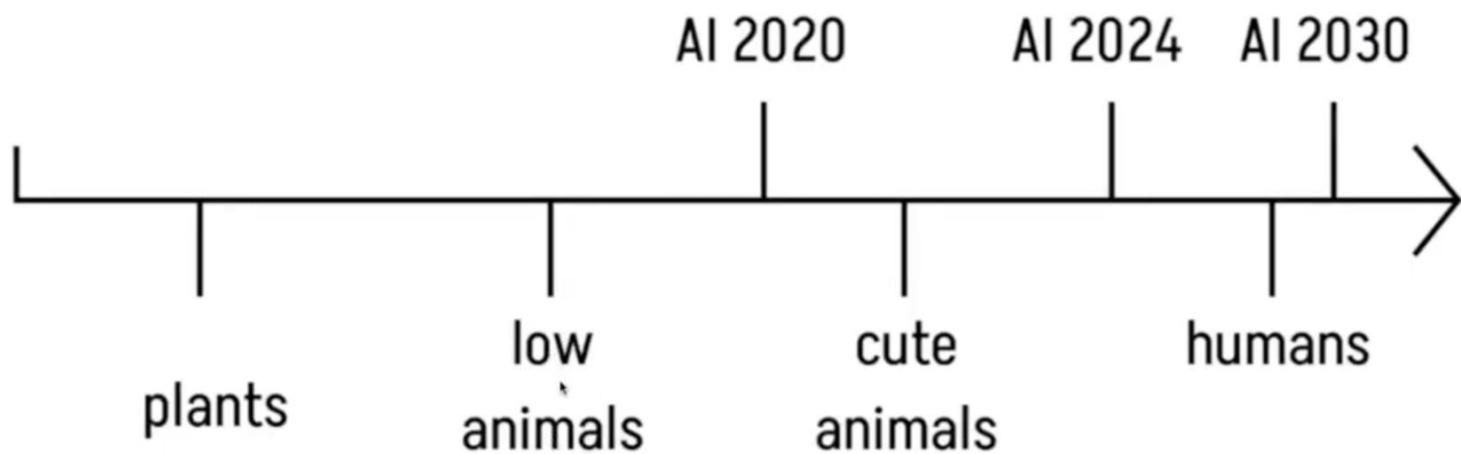


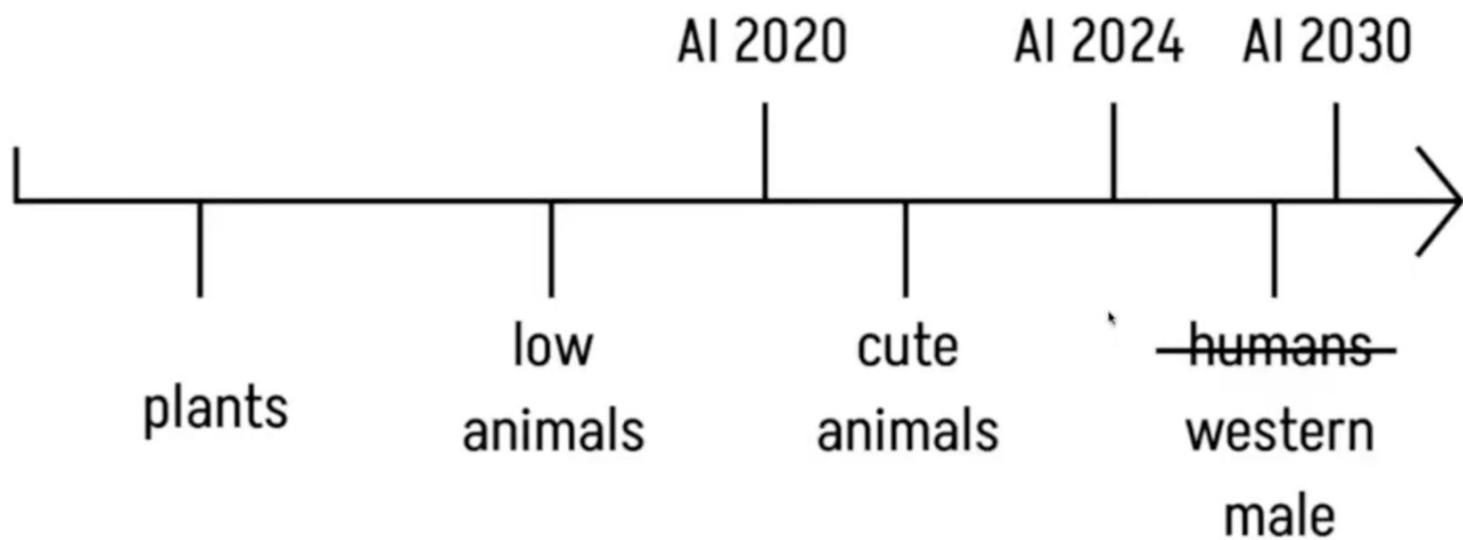
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*the problem of defining
intelligence →*

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youtube.com

Memory usage: 425 MB

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What is Deep Learning?

ARTIFICIAL INTELLIGENCE

Any technique that enables computers to mimic human behavior

MACHINE LEARNING

Ability to learn without explicitly being programmed

DEEP LEARNING

Extract patterns from data using neural networks

MIT Introduction to Deep Learning
6.S191 | introcodeelearning.com | @MITDeepLearning | 1/24/22

IntroToDeepLearning.com



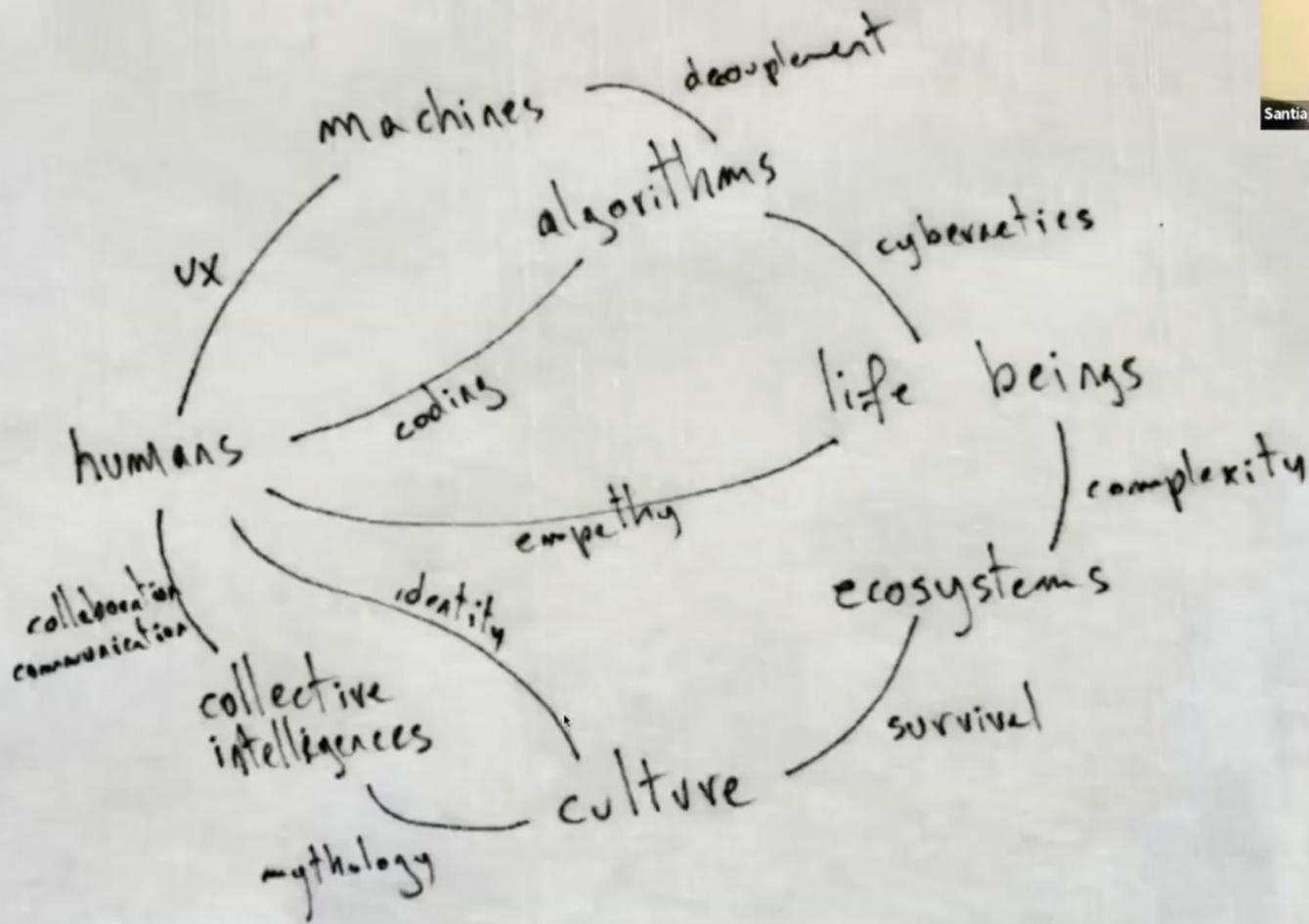
¿can we build machines that are more capable than humans?



*While we discuss AGI,
super-intelligence,
conscious AI..., this is going on:*



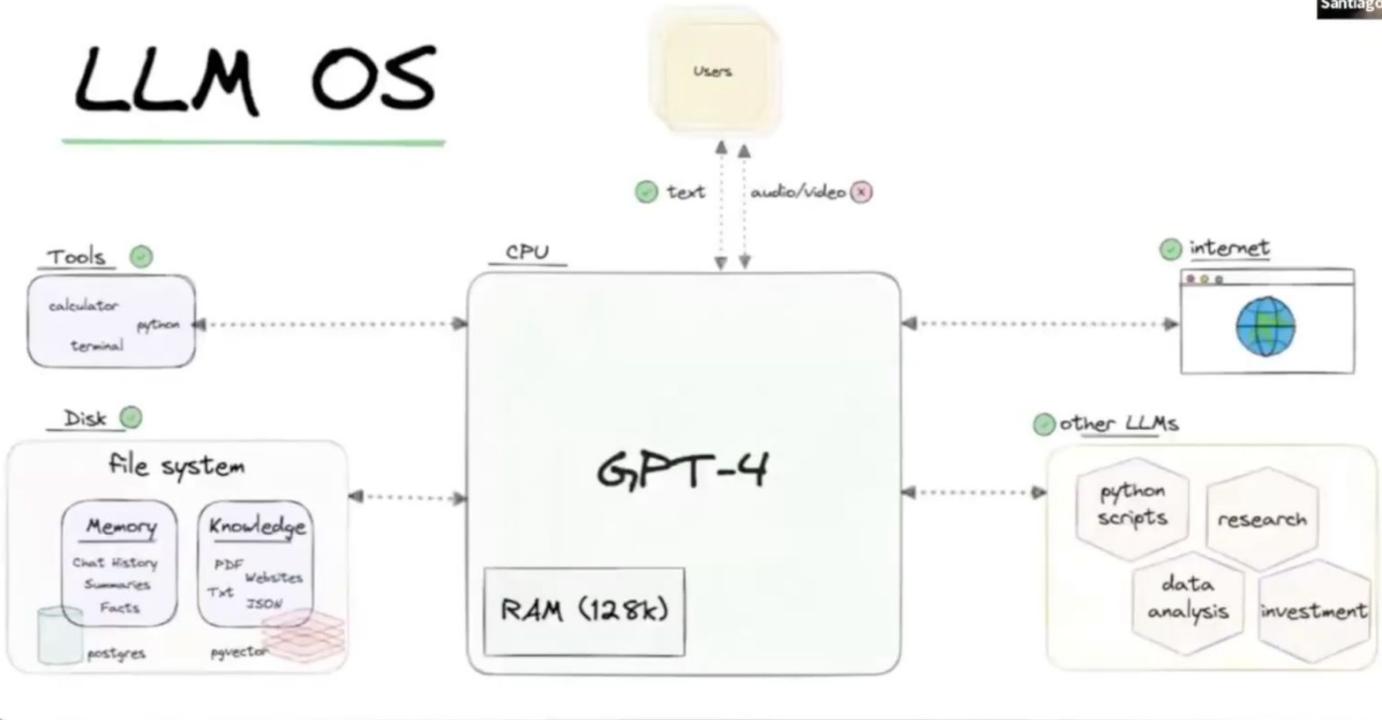
*While we discuss AGI,
super-intelligence,
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thanks!



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