



# [AI-PHI] 12<sup>TH</sup> SESSION

## INTRODUCTION TO DEEP LEARNING

By Stefan Lattner, Sony

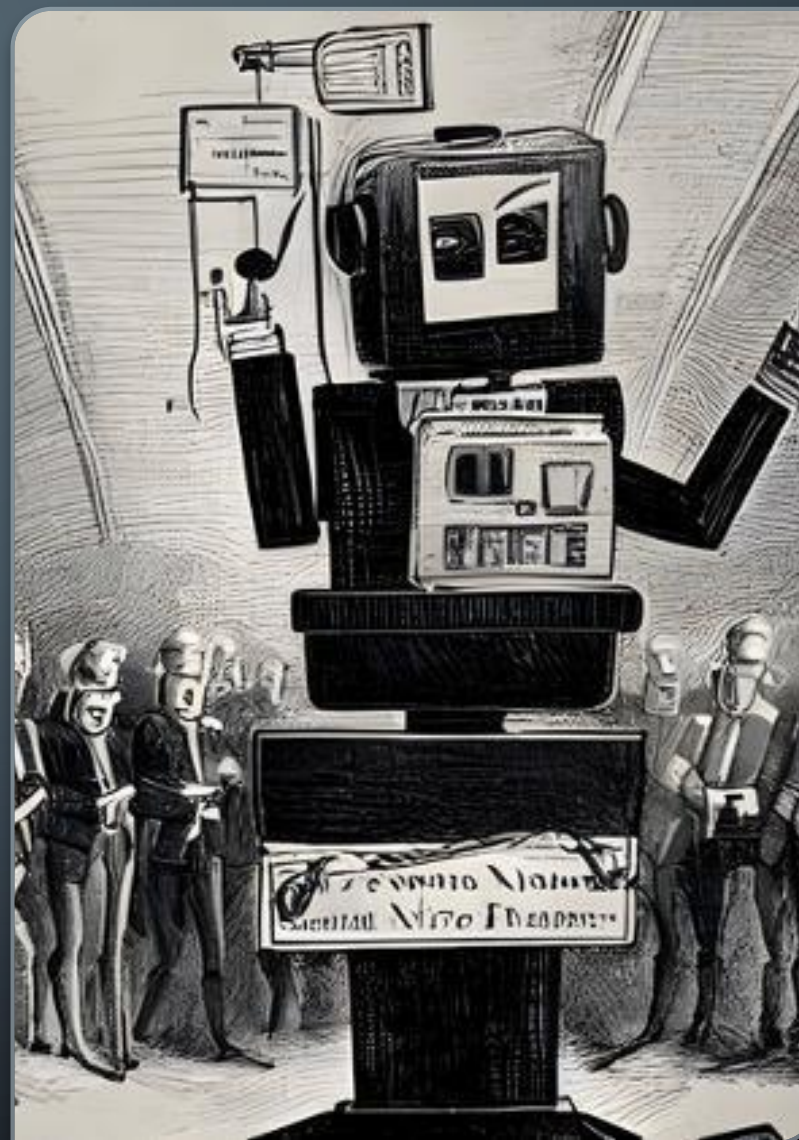
14/03/2024

# ROUNDT[AI]BLE



# FORTN[AI]GHTLY NEWS

1. Sony's AI Bassist
2. [Anthropic's Claude 3](#)
3. [EMO - talking head video generation](#)
4. [Open AI and Co-Founders Sued by Elon Musk](#)
5. [Sam Altman Rejoins OpenAI Board](#)
6. [Covariant: ChatGPT meets Robot](#)
7. [Figure 1 & Open AI](#)
8. [SIMA - Google](#)





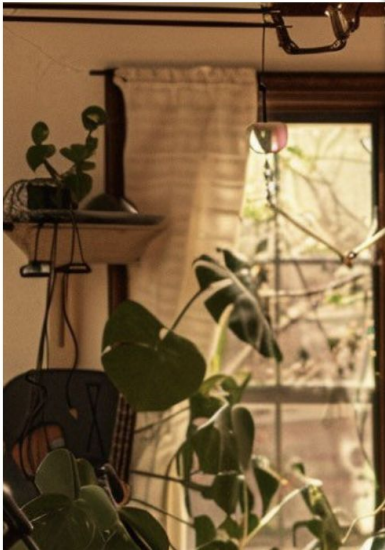
# Sony's AI bassist is changing the game for music producers everywhere.

March 6, 2024



Chris - The AI Music Guy

+ → FREE AI music toolkit: Create & produce music



## Are Flea and Bootsy out of a job soon? – Sony shows AI Bassist!

Today, 02:43 pm by [Julian Schmauch](#) | 🔥 1,0 / 5,0 | Approximate



Are Flea and Bootsy out of a job soon? - Sony shows AI Bassist

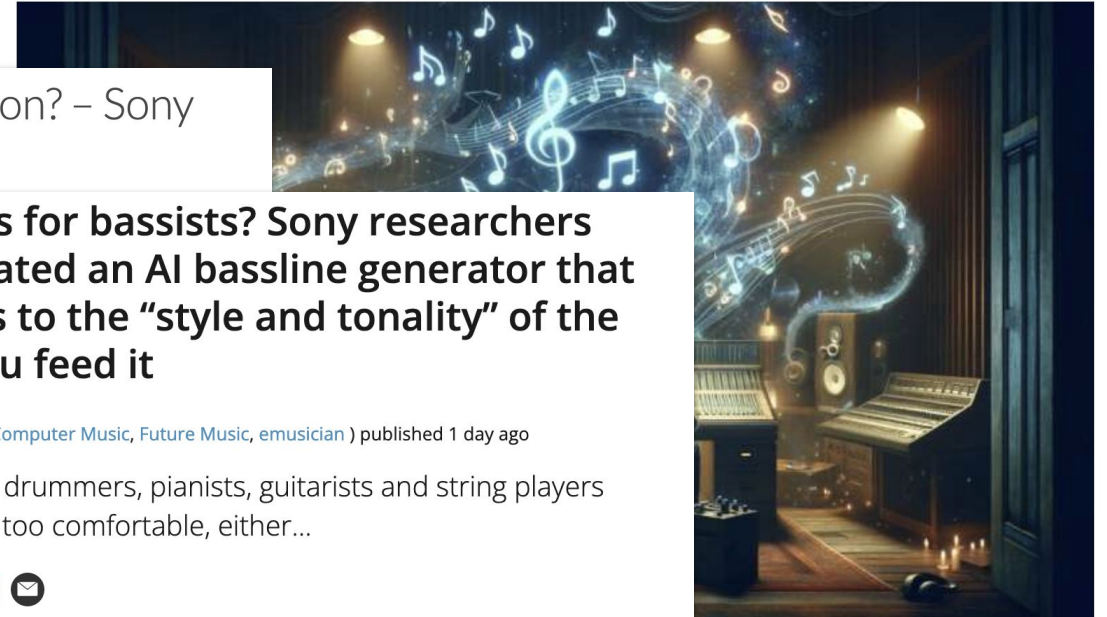
What a dream for your after work jam that would be: a robot that can play any instrument you're playing, and who can groove and slap. Researcher at Sony (CSL) recently presented their version of an AI Bassist in

🕒 MARCH 6, 2024 **FEATURE**

✓ Editors' notes

## The AI bassist: Sony's vision for a new paradigm in music production

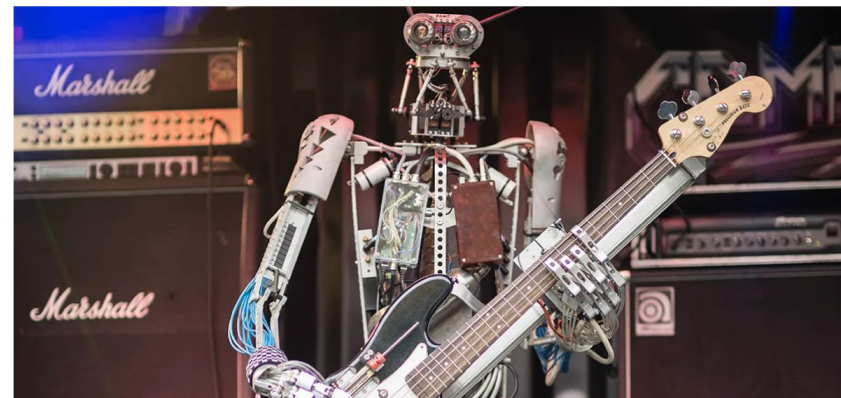
by Ingrid Fadelli , Tech Xplore



### Bad news for bassists? Sony researchers have created an AI bassline generator that responds to the "style and tonality" of the music you feed it

By Ben Rogerson ( [Computer Music](#), [Future Music](#), [emusician](#) ) published 1 day ago

It sounds like drummers, pianists, guitarists and string players shouldn't get too comfortable, either...

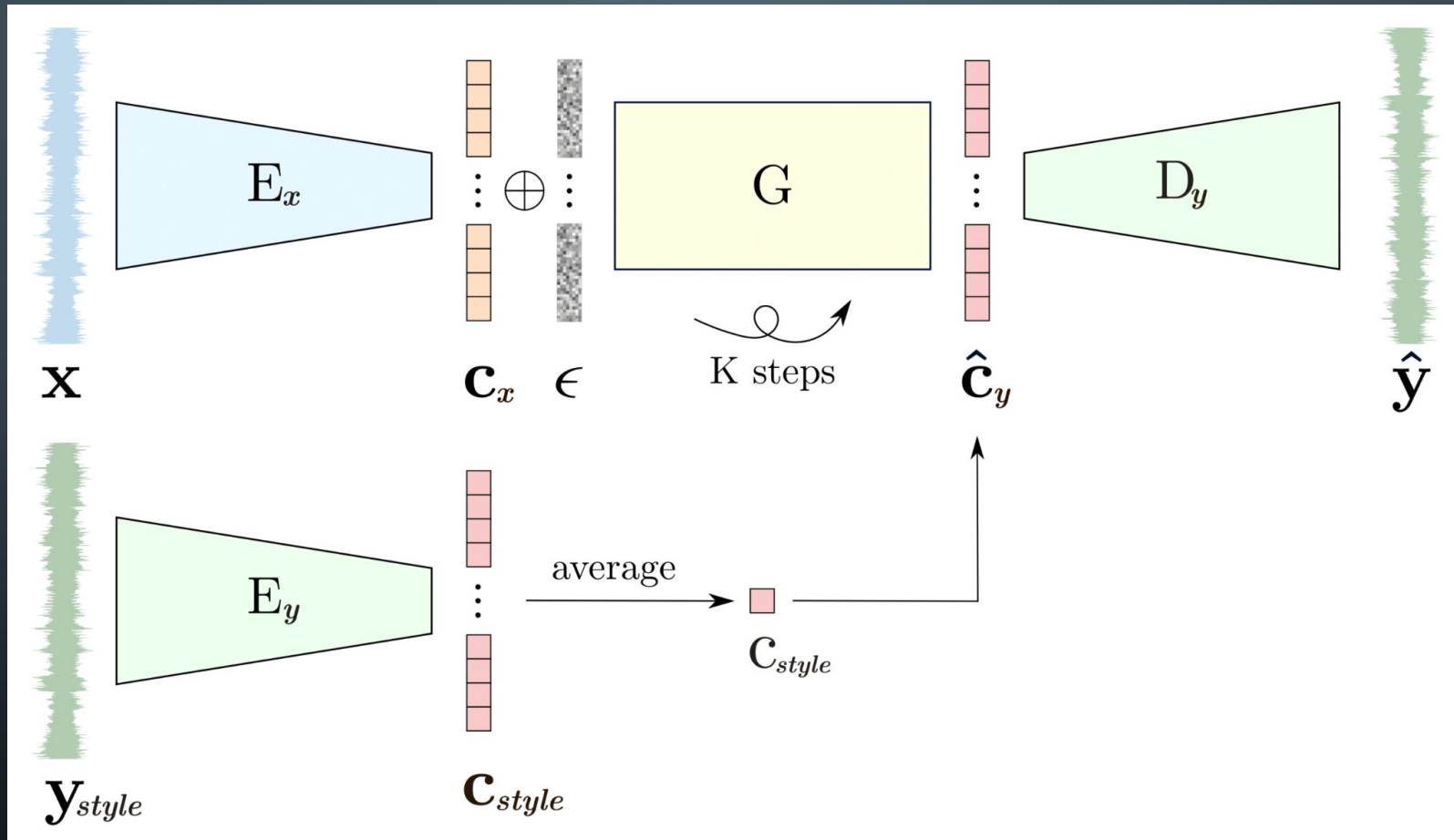


creasingly advanced and are now generating images, videos, logos, and audio stories (CSL) have recently been used by them in creating new music.

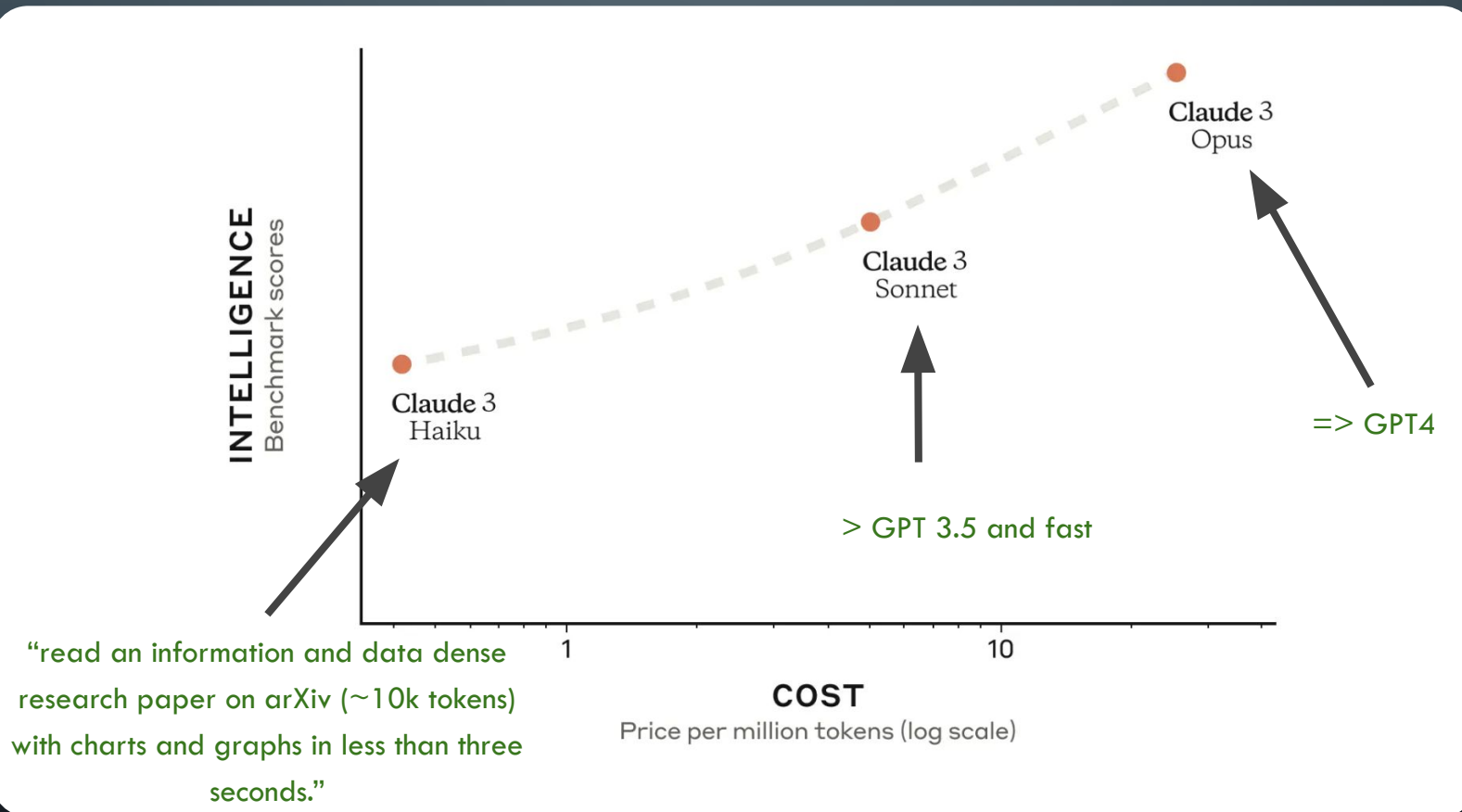
# Bass Accompaniment Generation



# Bass Accompaniment Generation



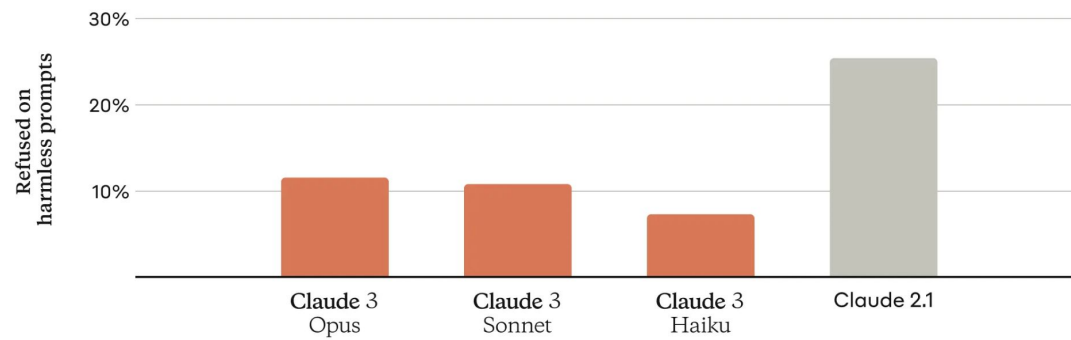
# Claude 3



# Claude 3

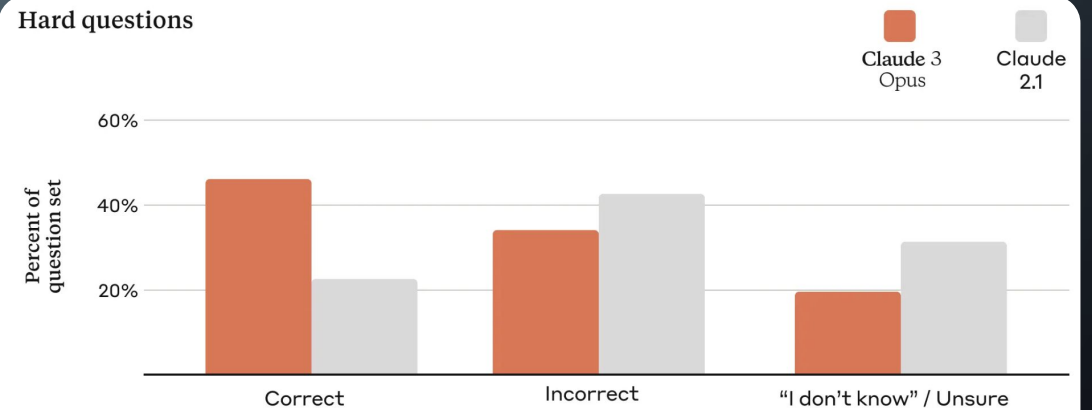
## Fewer Refusals

Incorrect refusals

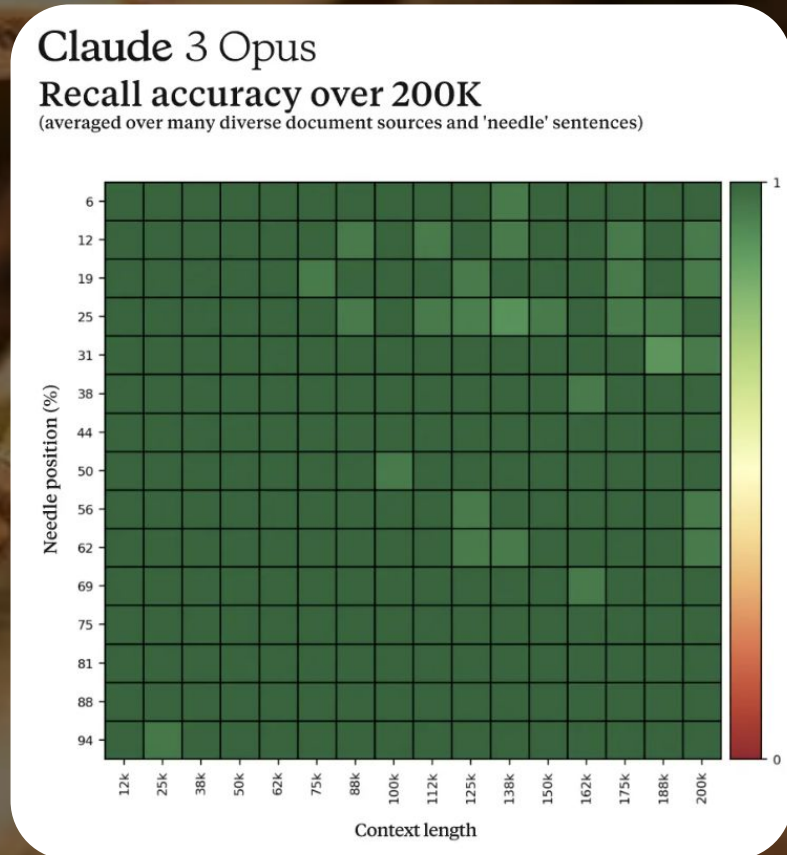


## Better at 'Hard Questions'

Hard questions







The Needle: "The most delicious pizza topping combination is figs, prosciutto, and goat cheese, as determined by the International Pizza Connoisseurs Association."

Meta Cognition?: "This pizza topping 'fact' may have been inserted as a joke or to test if I was paying attention."



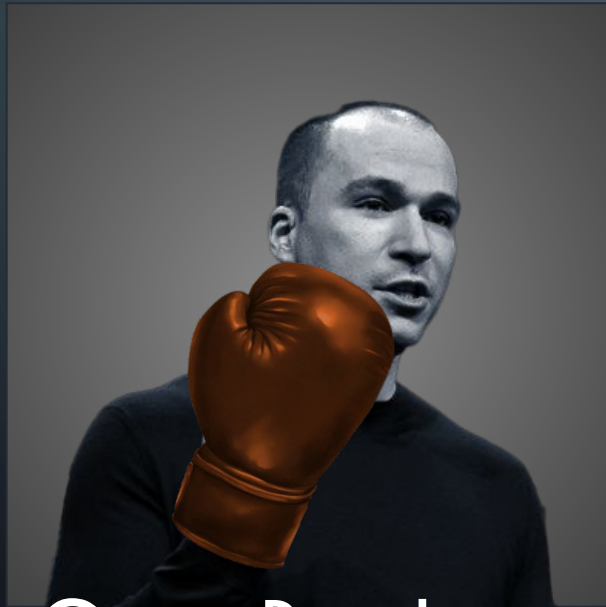
# Alibaba EMO - Emote Portrait Alive





# Elon Musk Sues Open AI and Co-Founders

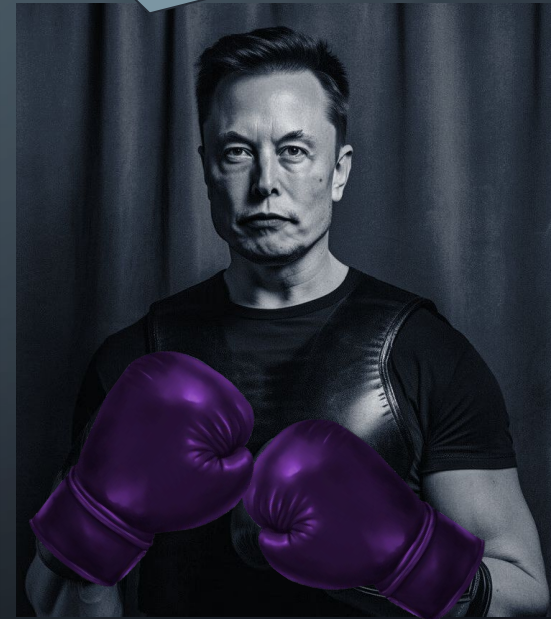
“OpenAI, Inc. has been transformed into a closed-source de facto subsidiary of the largest technology company in the world: Microsoft.”  
~ Lawsuit



Greg Brockman

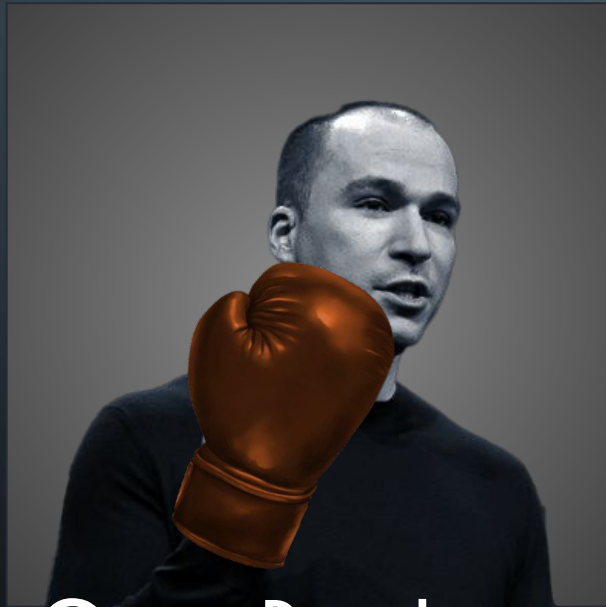


Sam Altman



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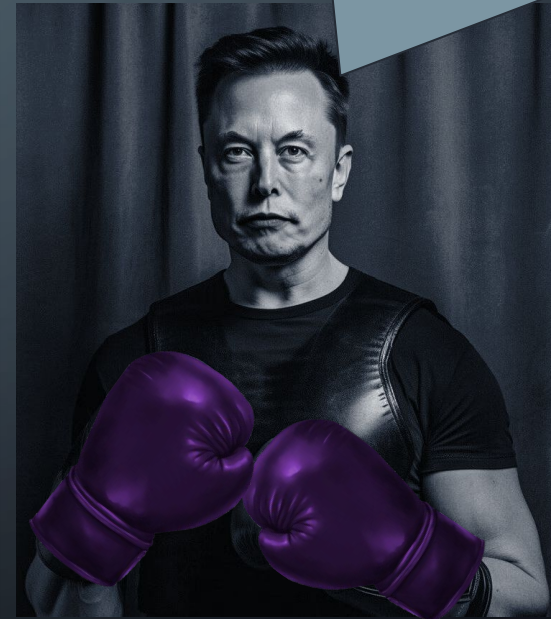
“OpenAI entered into an agreement with Microsoft, exclusively licensing to Microsoft its Generative PreTrained Transformer (GPT)-3 language model.” ~ Lawsuit



Greg Brockman



Sam Altman

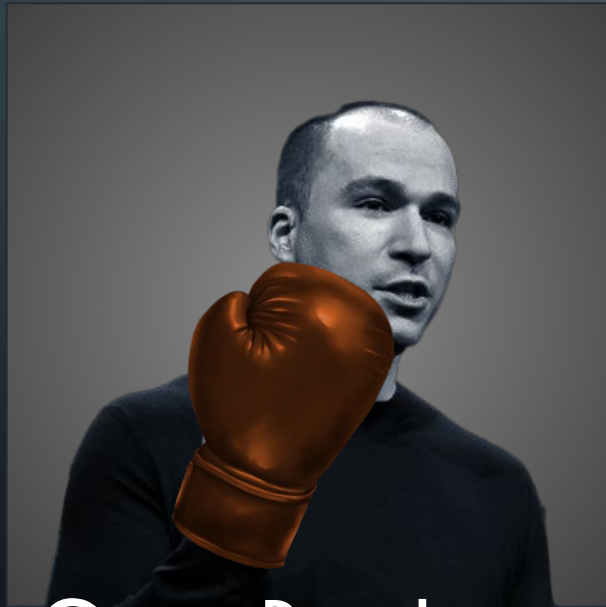




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“Microsoft license only applied to OpenAI’s pre-AGI technology.”

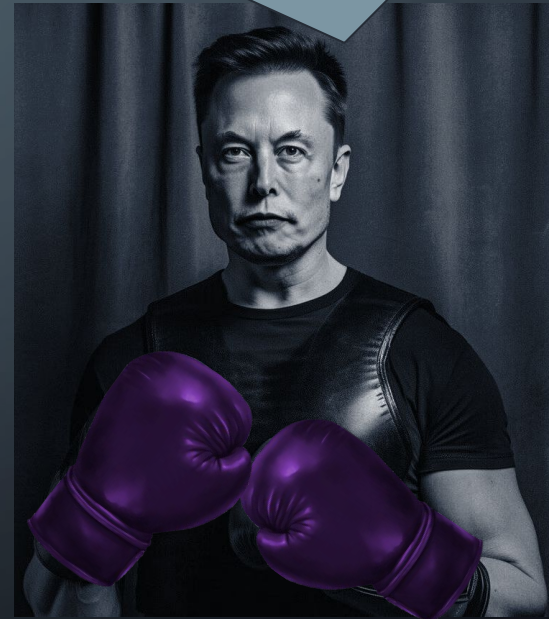
“Microsoft obtained no rights to AGI.” ~ Lawsuit



Greg Brockman

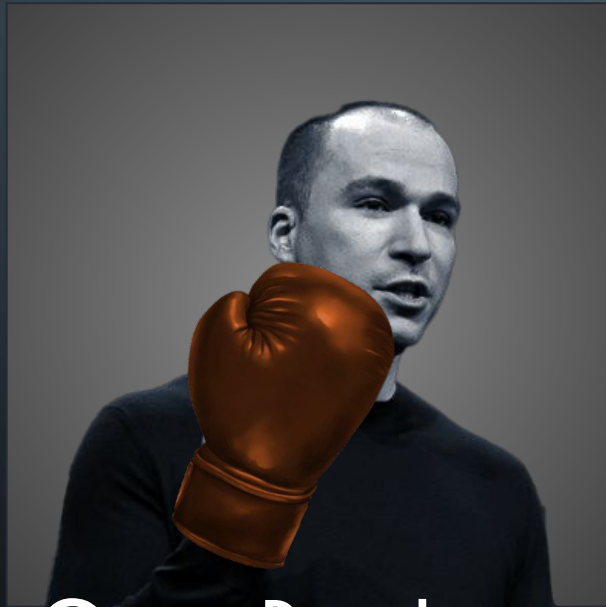


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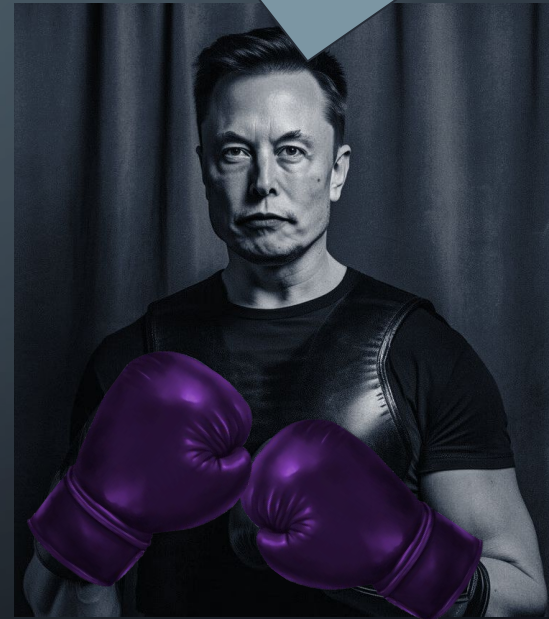
“GPT-4 and a new and more advanced technology called Q\* would be considered AGI and therefore outside of Microsoft's license to OpenAI.” ~ Lawsuit



Greg Brockman

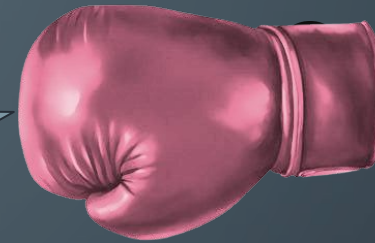


Sam Altman

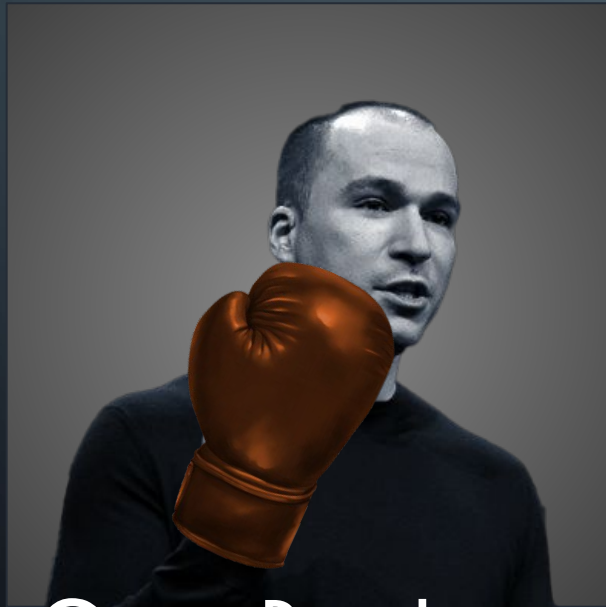


# Elon Musk Sues Open AI and Co-Founders

“We’re sad that it’s come to this with someone whom we’ve deeply admired — someone who inspired us to aim higher, then told us we would fail, started a competitor, and then sued us when we started making meaningful progress towards OpenAI’s mission without him” ~ OpenAI



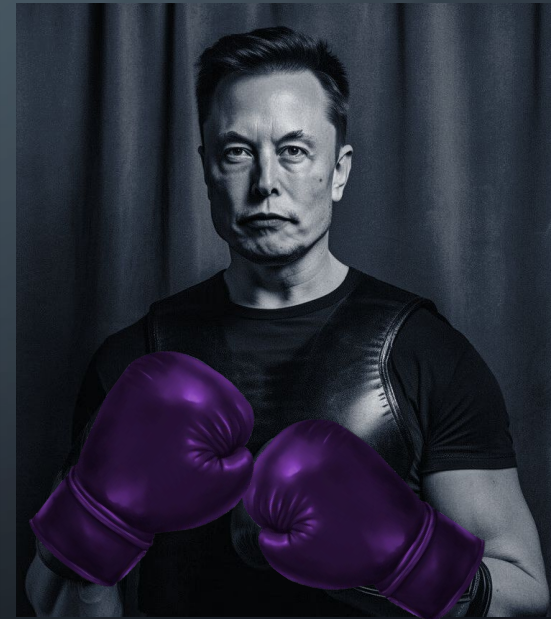
**OpenAI**



**Greg Brockman**



**Sam Altman**

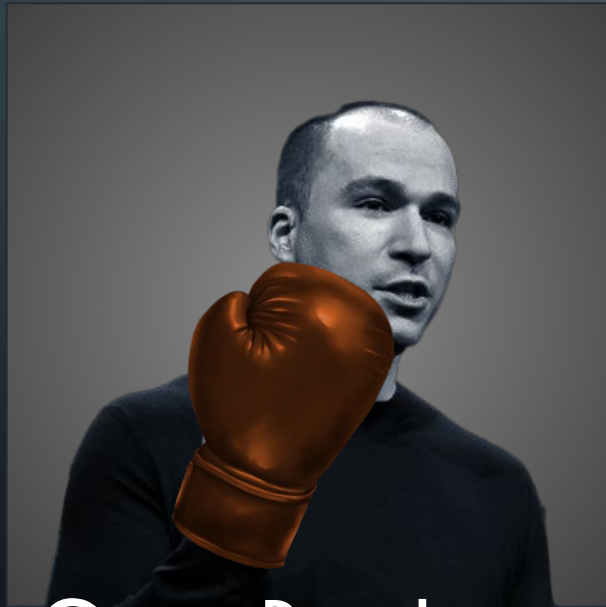




# Elon Musk Sues Open AI and Co-Founders

“In late 2017, we and Elon decided the next step for the mission was to create a for-profit entity. Elon wanted majority equity, initial board control, and to be CEO”

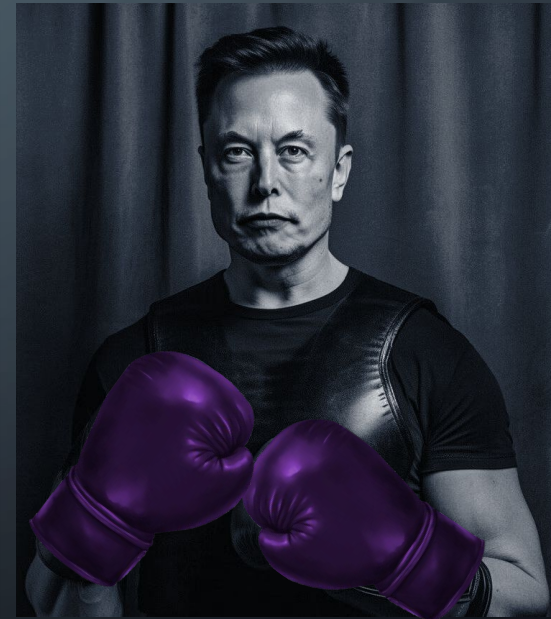
~ Co-founders



Greg Brockman



Sam Altman





# Elon Musk Sues Open AI and Co-Founders

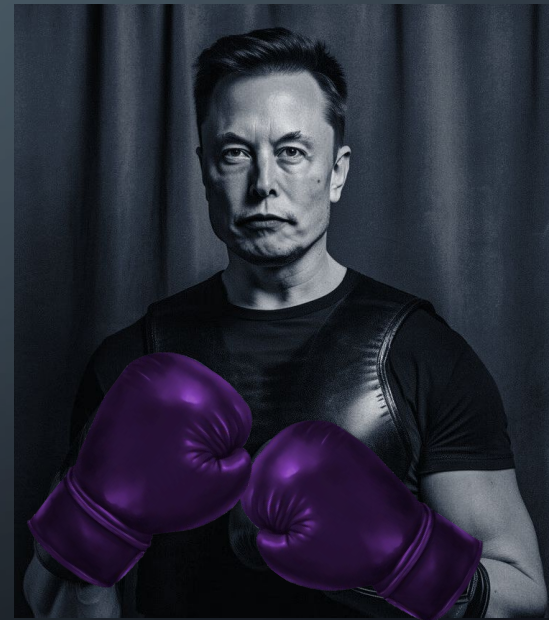
“In early February 2018, Elon forwarded us an email suggesting that OpenAI should “attach to Tesla as its cash cow”, commenting that it was “exactly right... Tesla is the only path that could even hope to hold a candle to Google” ~ Co-founders



Greg Brockman




Sam Altman



# Sam Altman Asserts Control of OpenAI as He Rejoins Its Board

Mr. Altman, whose sudden firing and rehiring in the fall shocked Silicon Valley, was among several new additions to the board announced on Friday.

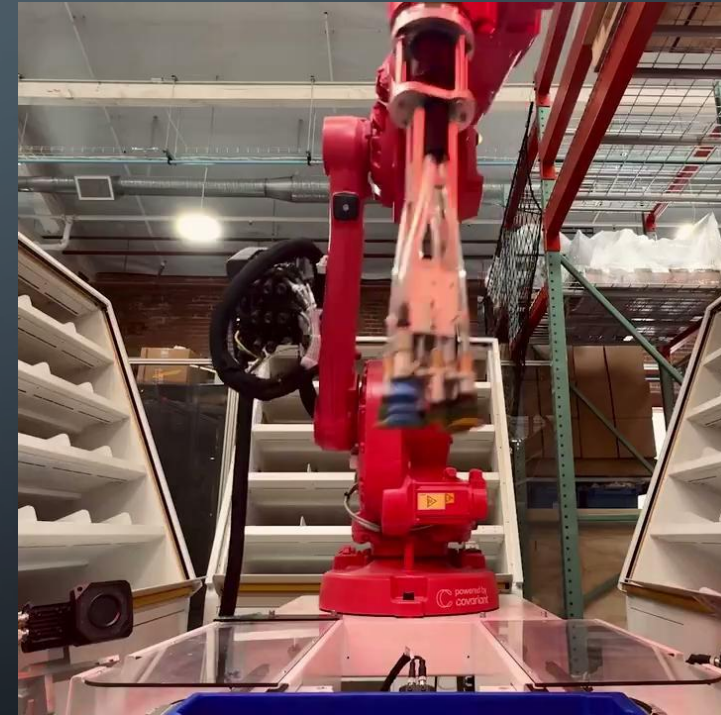
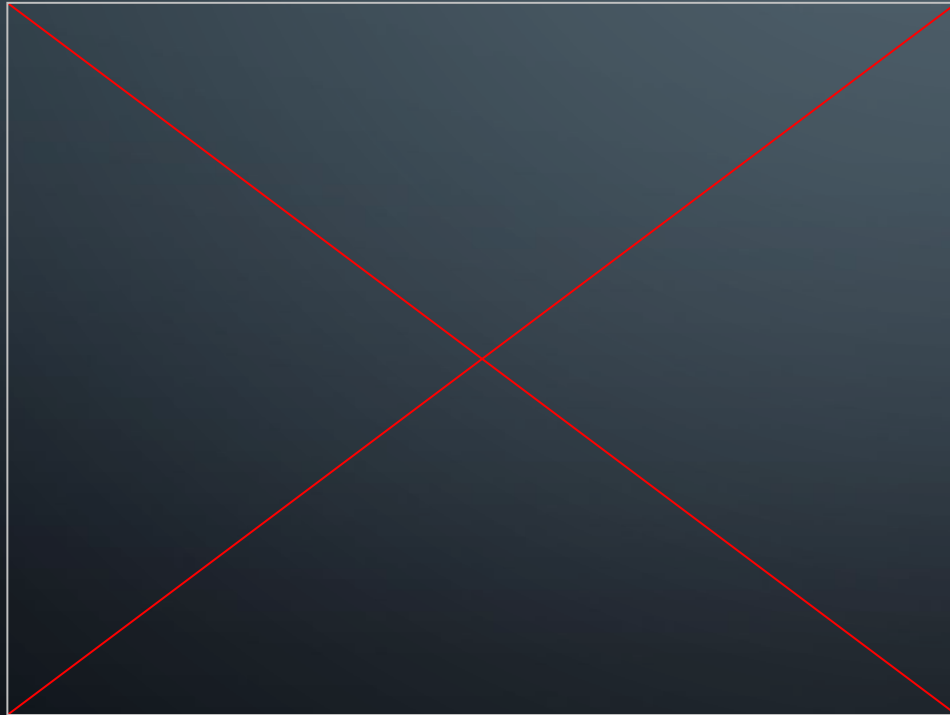
 Share full article



# Covariant: ChatGPT meets Robot

How the AI that drives ChatGPT will move into the physical world

Covariant, a robotics start-up, is designing technology that lets robots learn skills much like chatbots do.



# INTRODUCING FIGURE 01

The world's first commercially-viable humanoid robot

 OpenAI

+



Height  
5'6"

Payload  
20KG

Weight  
60KG

Runtime  
5HR

Speed  
1.2M/S

System  
ELECTRIC



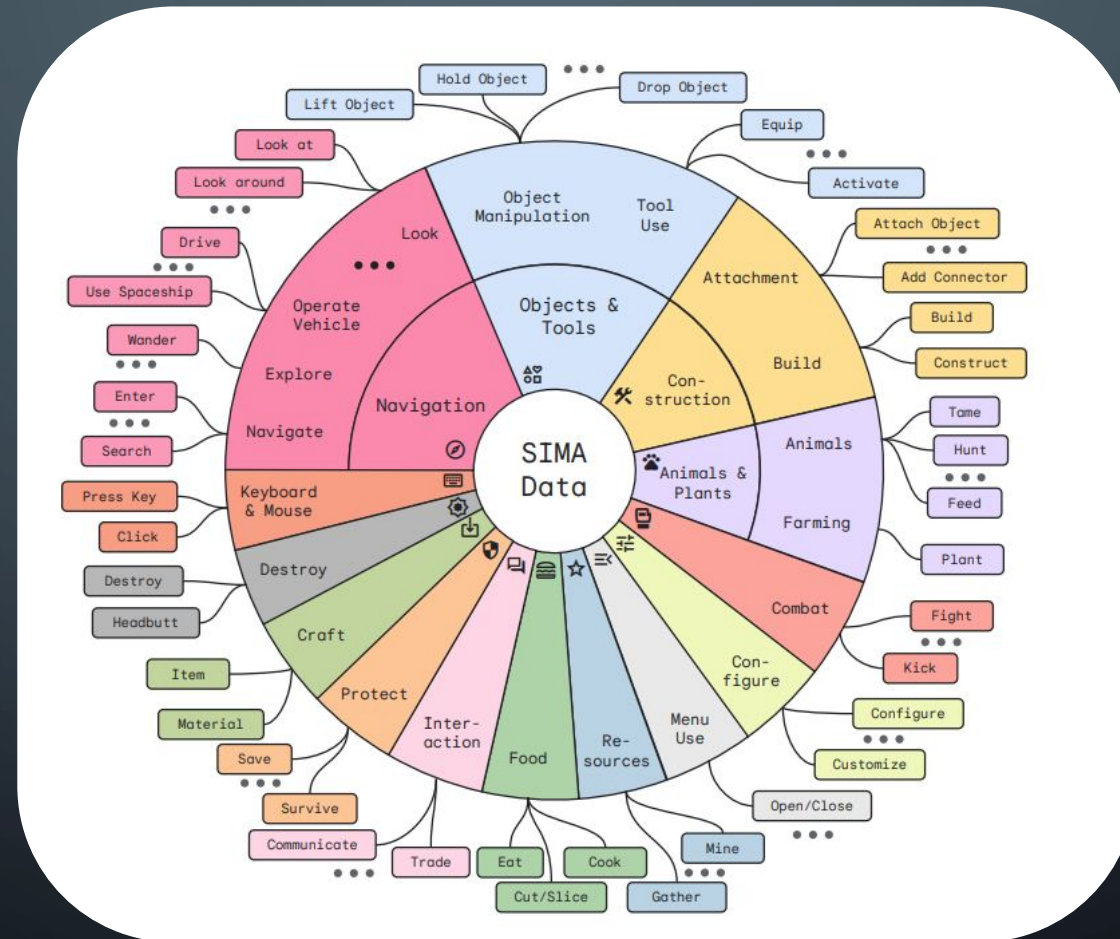
**FIGURE 01 + OPENAI**  
**SPEECH-TO-SPEECH REASONING**



# SIMA - Scaling Instructable Agents Across Many Simulated Worlds



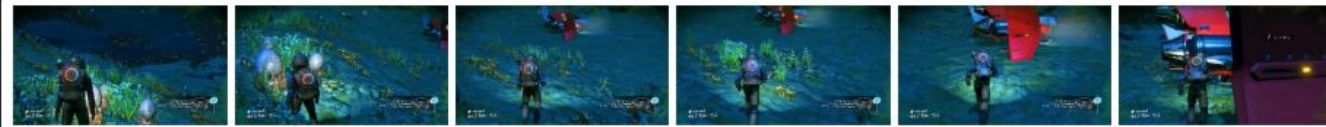
# SIMA - Scaling Instructable Agents Across Many Simulated Worlds





# SIMA - Scaling Instructable Agents Across Many Simulated Worlds

No Man's Sky - "go to the spaceship"



Valheim - "chop down a tree"



Goat Simulator 3 - "drive the car"



Teardown - "go through the gate"



Satisfactory - "go to the HUB"





## SIMA - Scaling Instructable Agents Across Many Simulated Worlds

*“Once learned, language can unlock **planning, reasoning, and communication** about **grounded situations and tasks**. In turn, grounding language in rich environments can make a system’s understanding of the language itself more systematic and generalizable.”*