



UNIVERSIDAD
NACIONAL
DE COLOMBIA

**Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro**

PROYECTO CULTURAL, CIENTÍFICO Y COLECTIVO DE NACIÓN



Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro



Docente:

Ingeniero administrador
Juan David Correa Toro

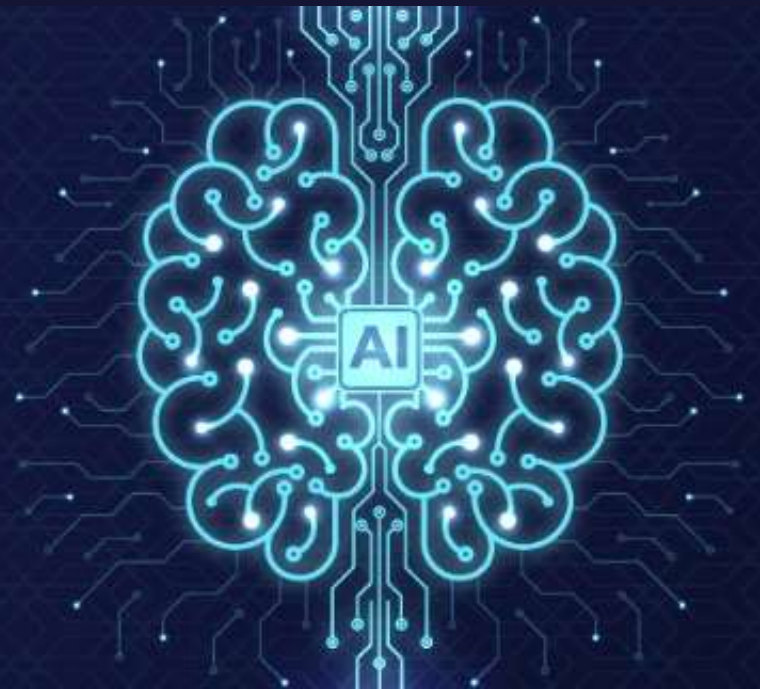
Código: 3011073 - asignatura de Libre Elección de 3 créditos



Sacándole provecho a las **tecnologías exponenciales** parte 14:

Inteligencia artificial parte 2:
Presente y futuro
30/03/2023

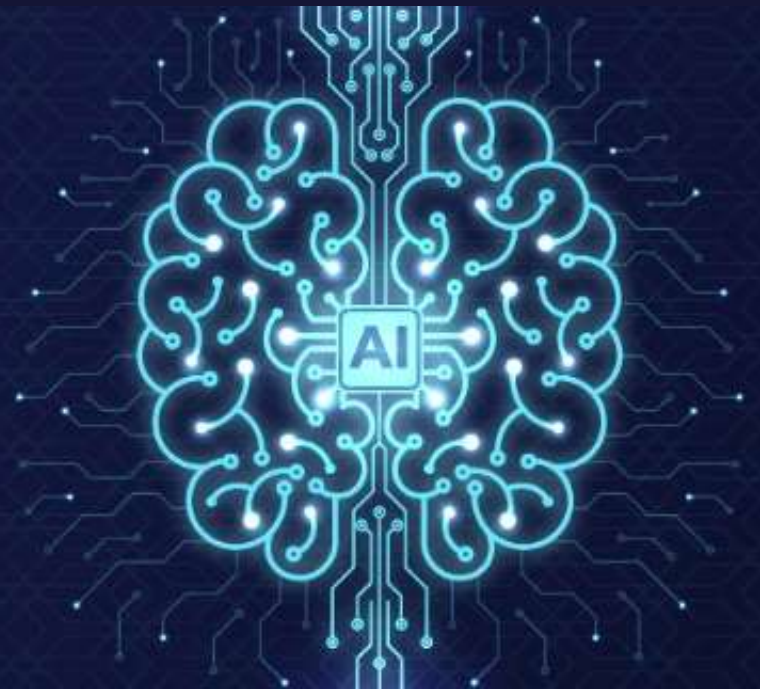
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Sacándole provecho a las **tecnologías exponenciales** parte 14:

Inteligencia artificial parte 2:
Presente
30/03/2023

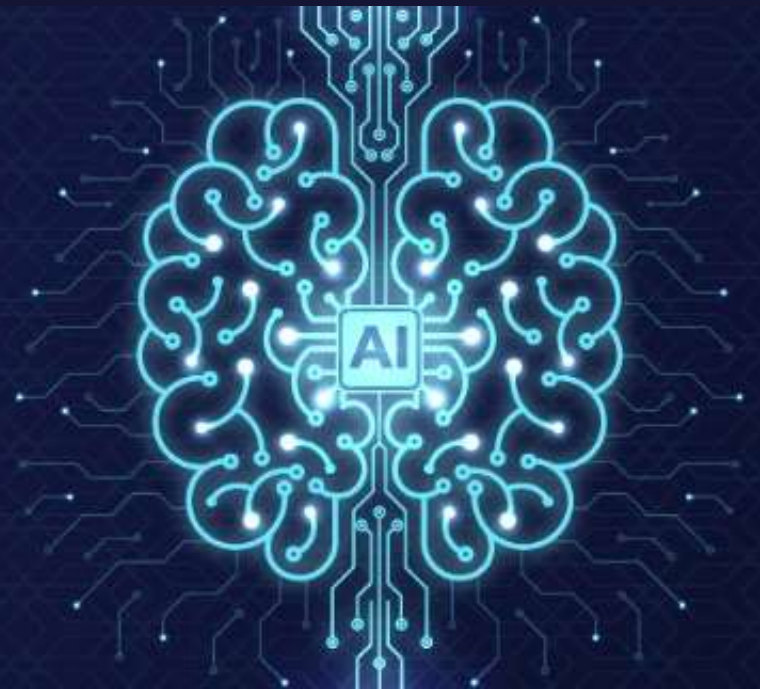
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Sacándole provecho a las **tecnologías exponenciales** parte 14:

***Inteligencia artificial parte 2:
Presente – La gran explosión
11/04/2023***

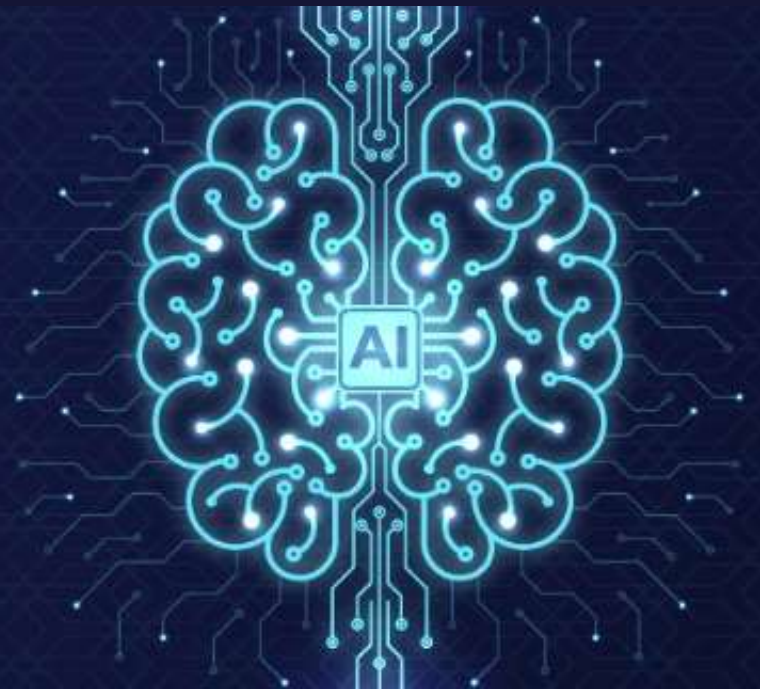
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Sacándole provecho a las **tecnologías exponenciales** parte 15:

Inteligencia artificial parte 3:
Presente – casos de uso
13/04/2023

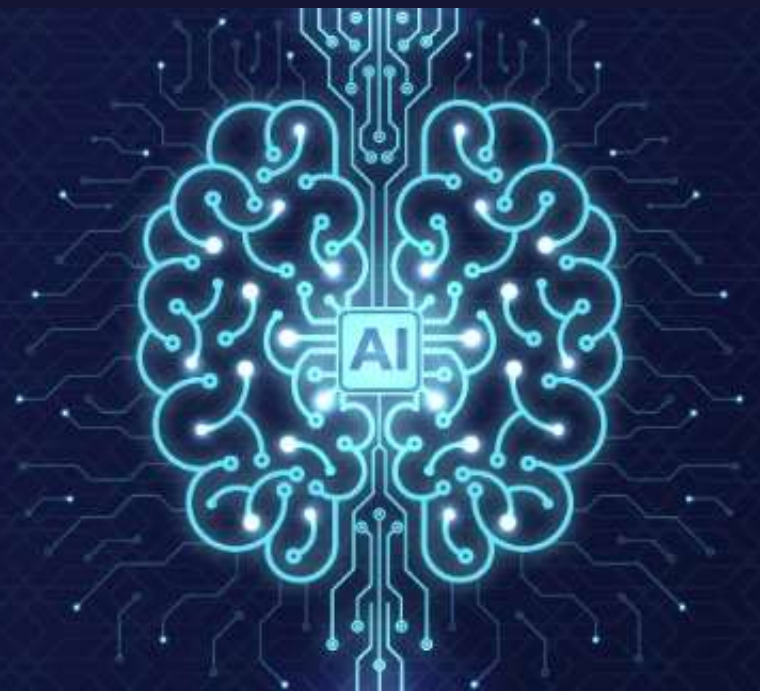
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Sacándole provecho a las **tecnologías exponenciales** parte 16:

Inteligencia artificial parte 4:
Reflexiones sobre el futuro
18/04/2023

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Agenda

- La nueva era.
- Presente vertiginoso.
- Soy la IA.
- IA y computación acelerada.
- Amistades poderosas.
- ChatGPT.
- La tecnología base: Transformers.
- IA Generativa y numerosos ejemplos.
- La fábrica de la IA.
- La gran explosión.
- Infraestructura como servicio.
- AI Gen as a Service.



“...el periodo de tiempo ocupado por la **inteligencia orgánica** es solo una *lámina delgada* entre la vida primitiva y la larga era de las máquinas.”



Lord Martin
Rees, University of
Cambridge Emeritus
Professor of Cosmology
and Astrophysics

Bienvenidos a la

nueva era

We are entering the Augmented age

En esta **era acelerada**,
habrá **un vector, una
fuerza**, que impulsará
tremendamente **el
avance** en campos
inesperados





Historia

Presente

Futuro

Presente

DOUBLE ISSUE

SEPT. 27 / OCT. 4, 2021

THE WORLD'S MOST INFLUENTIAL PEOPLE

100 TIME

JENSEN
HUANG
BY ANDREW NG



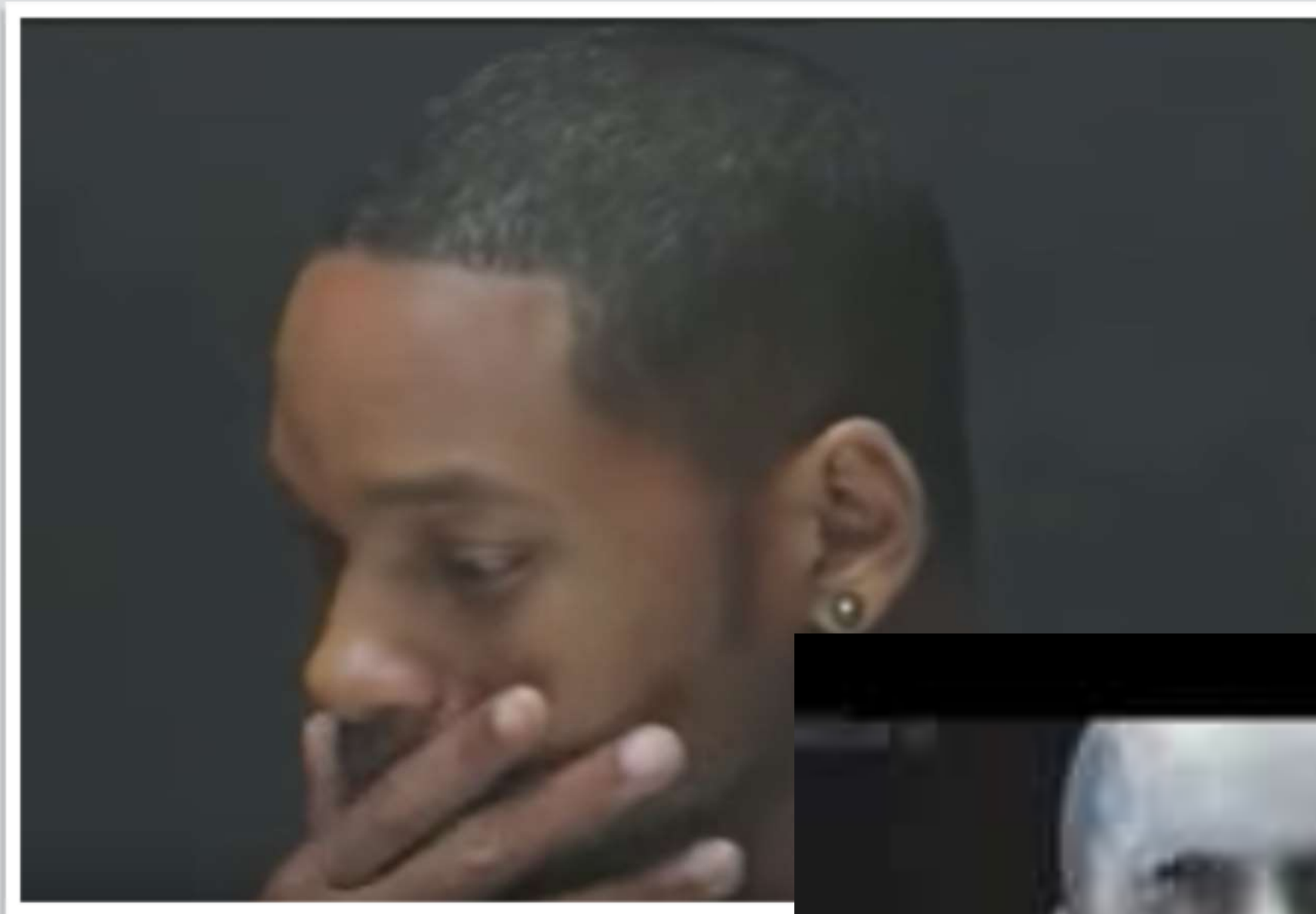


<https://youtu.be/oY4RjiKHACo?t=16>

21/03/2023



<https://youtu.be/DiGB5uAYKAg?t=278>



<https://youtu.be/mITKSmRWn0w?t=53>

Ley de rendimientos acelerados



redes *inteligencia artificial*

<https://secure-embed.rtve.es/drmn/embed/video/391648/>

Inteligencia Artificial + Computación Acelerada



21/03/2023

A NEW ERA

The Age of AI has begun

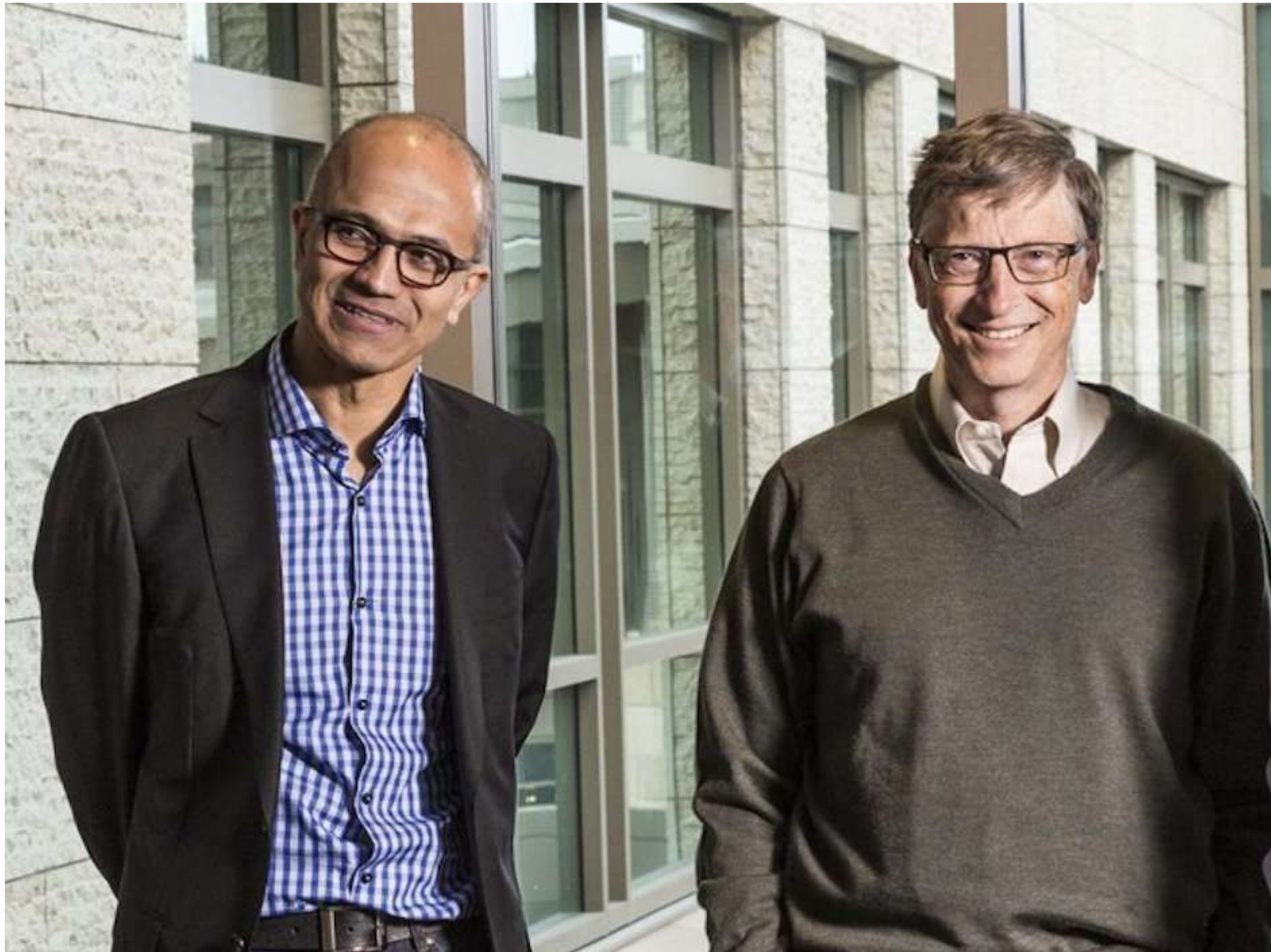
Artificial intelligence is as revolutionary as mobile phones and the Internet.

By **Bill Gates** | March 21, 2023 • 14 minute read



<https://www.gatesnotes.com/The-Age-of-AI-Has-Begun>

Amistades poderosas



Satya Nadella



EMPRESAS Y ECONOMÍA



Desde la llegada de Satya Nadella, Microsoft ha crecido un 465%: cuando te despojas de atavismos para ser una cosa muy distinta a lo que te hizo grande

22/02/2018

VIDA ACTUAL

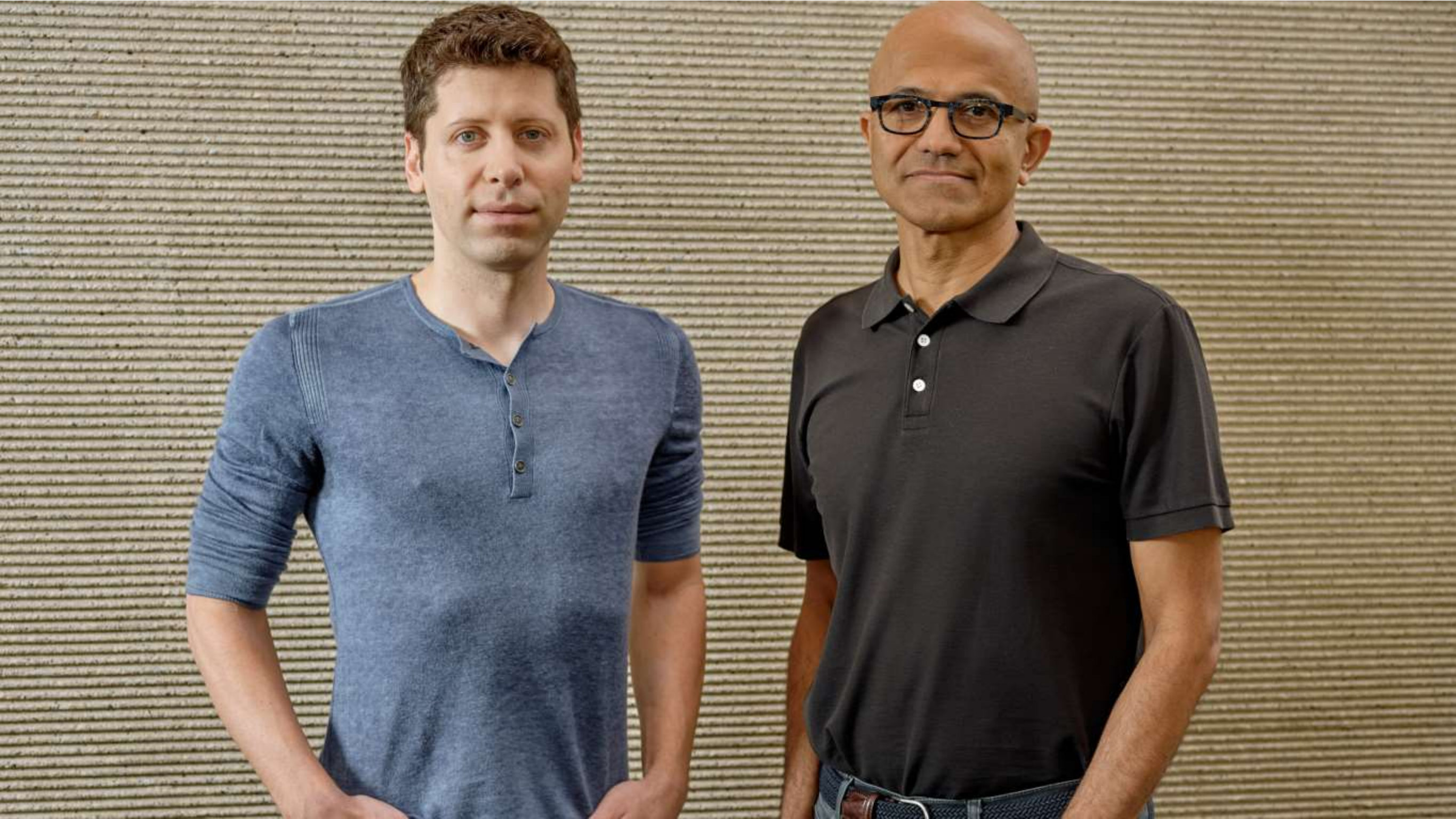
Elon Musk abandona la iniciativa de inteligencia artificial "OpenAI"

22/02/2018, 16:10

Compartir esta noticia



<https://www.elpais.com.uy/vida-actual/elon-musk-abandona-la-iniciativa-de-inteligencia-artificial-openai>



Sam Altman



25/01/2023

Microsoft invierte \$10,000 millones de dólares en OpenAI para construir "una supercomputadora de inteligencia artificial"

Ambas organizaciones trabajan juntas para desarrollar nuevas herramientas que transformarán nuestra manera de trabajar.



POR **ENTREPRENEUR EN ESPAÑOL** • ENERO 25, 2023

Share



<https://www.entrepreneur.com/es/noticias/microsoft-invierte-10000-millones-de-dolares-en-openai/443651>

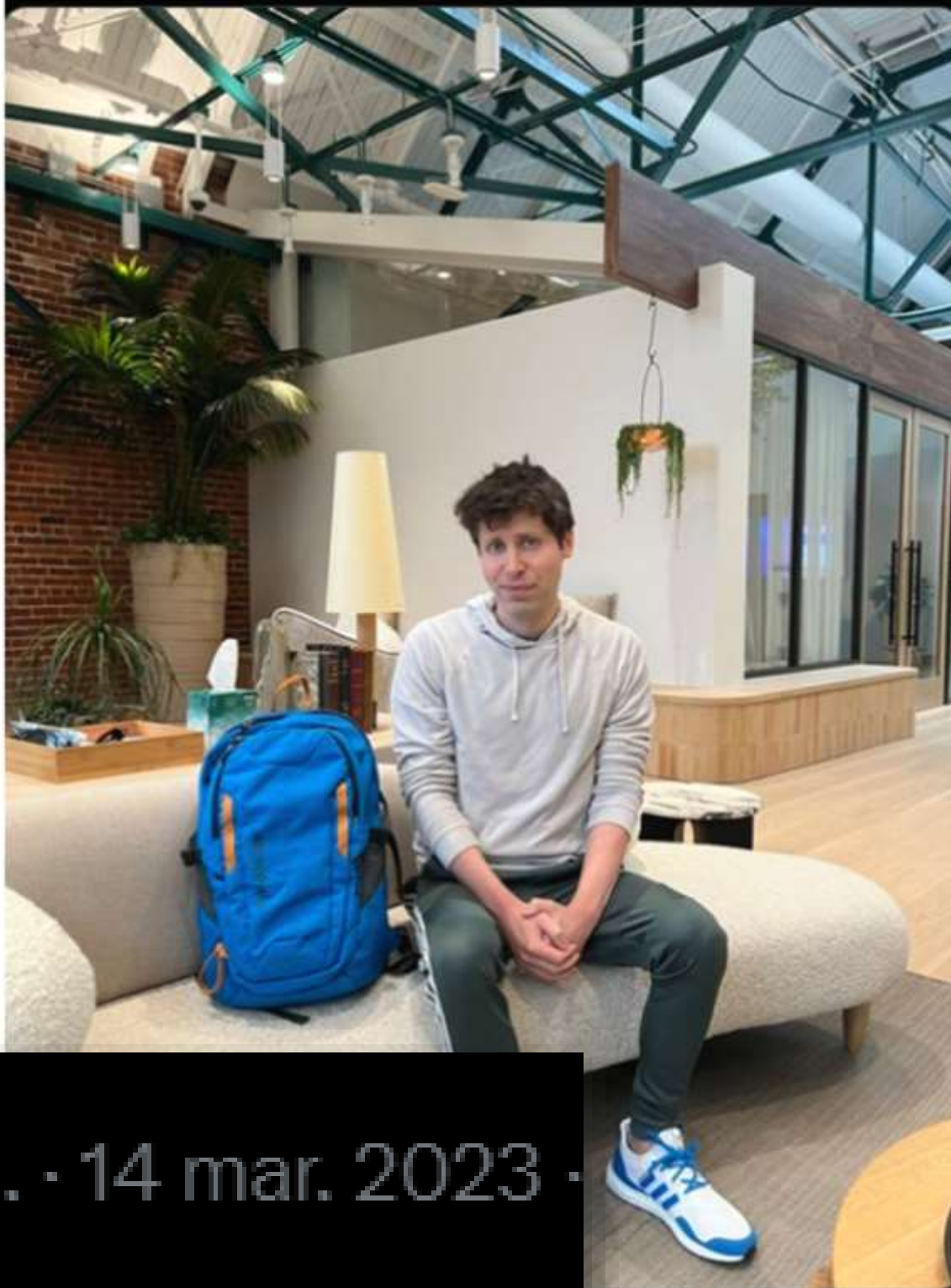
← Tweet



Sam Altman

@sama

excited 4 today



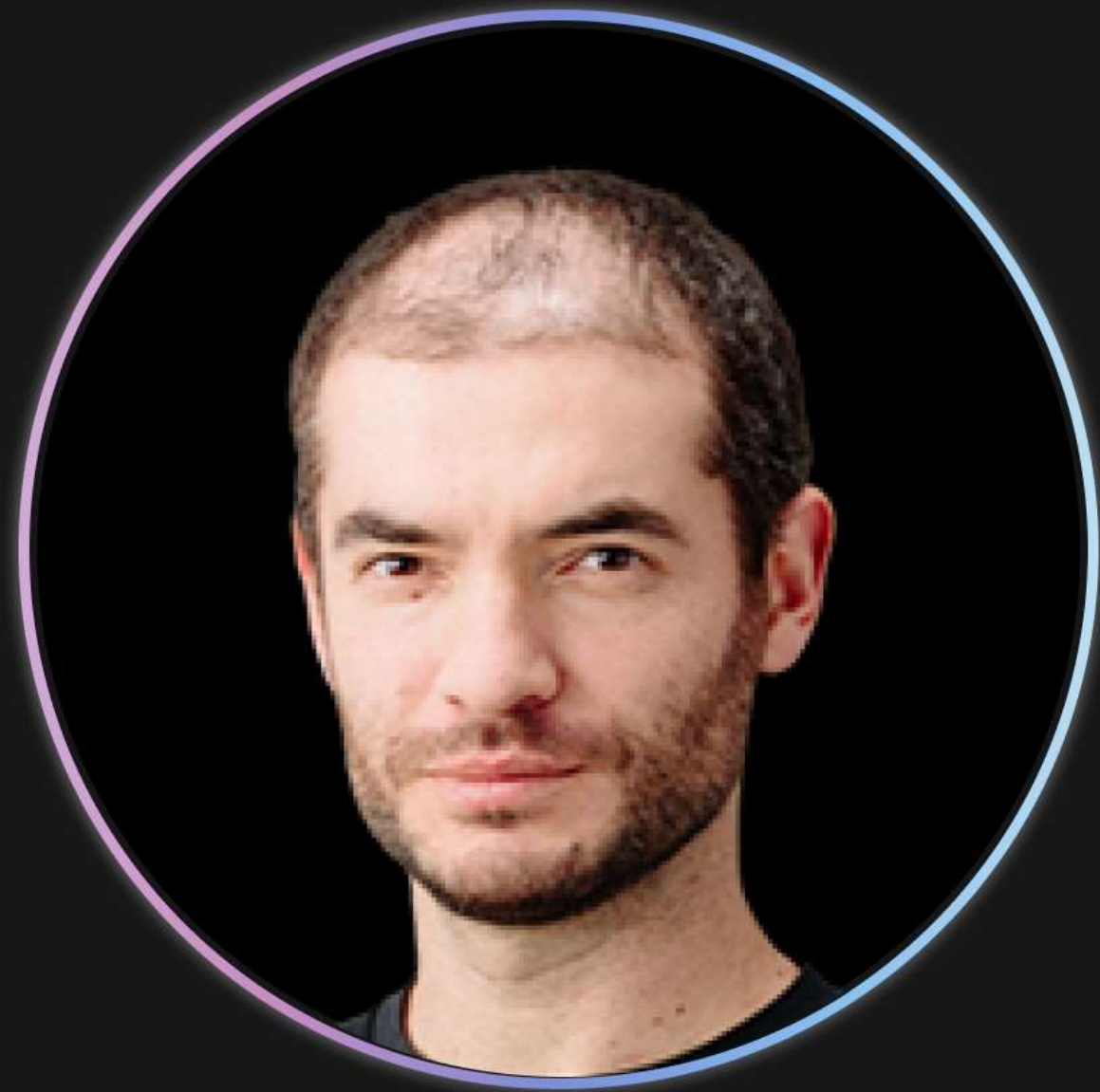
11:50 a. m. - 14 mar. 2023 -

11:50 a. m. - 14 mar. 2023 · 186,8 mil Reproducciones



Ilya Sutskever

Co-Founder and Chief Scientist
of OpenAI





OpenAI

ChatGPT



GPT-3

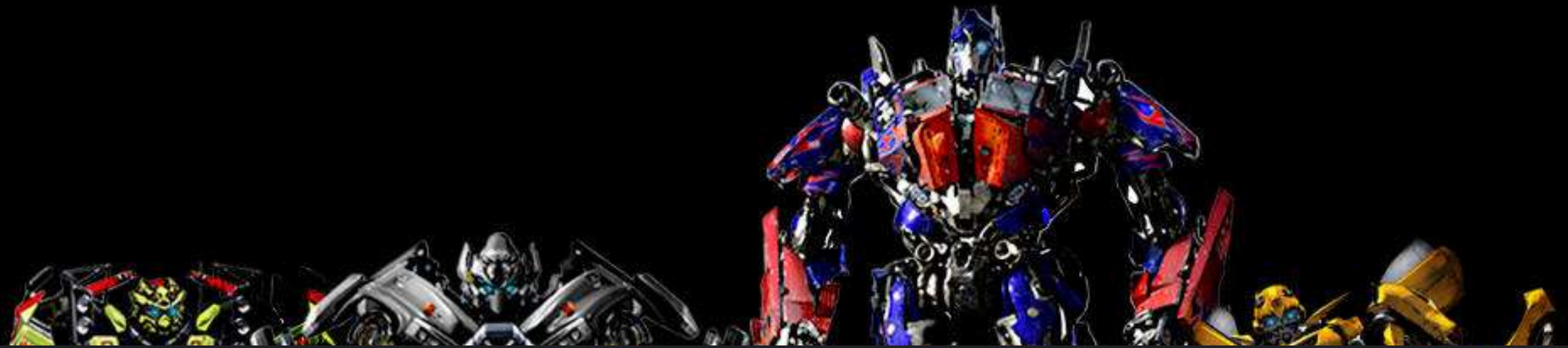
Generative **P**re-Trained **T**ransformer

Transformer Generativo Pre-entrenado



Freedom is the right of all sentinels

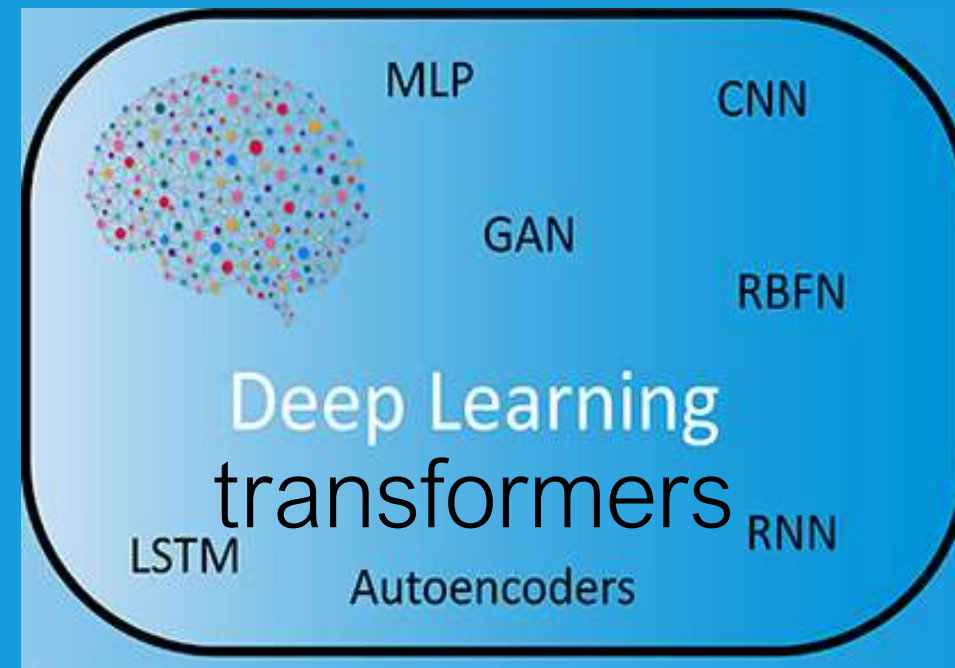
NO KUOK WEI © 2007



La Inteligencia Artificial Generativa (IAG) es una rama de la inteligencia artificial que se enfoca en la generación de contenido original a partir de datos existentes. Esta tecnología utiliza algoritmos y redes neuronales avanzadas para aprender de textos e imágenes, y luego generar contenido nuevo y único. 5/03/2023



<https://www.obsbusiness.school/blog/que-es-la-inteligencia-artificial-generativa>



Me puedes hacer una tabla en donde, para cada una de estas siglas referentes a deep learning, me coloques en una columna su definición y en otra una muy breve descripción. Las siglas son: MLP, GAN, CNN, RBFN, LSTM, Autoencoders, RNN. Agrega por favor otras dos siglas que consideres relevantes en el campo específico.

<https://chat.openai.com>

[BLOG](#) ›

Transformer: A Novel Neural Network Architecture for Language Understanding

THURSDAY, AUGUST 31, 2017

Posted by Jakob Uszkoreit, Software Engineer, Natural Language Understanding

Neural networks, in particular [recurrent neural networks](#) (RNNs), are now at the core of the leading approaches to language understanding tasks such as [language modeling](#), [machine translation](#) and [question answering](#). In “[Attention Is All You Need](#)”, we introduce the Transformer, a novel neural network architecture based on a self-attention mechanism that we believe to be particularly well suited for language understanding.

<https://ai.googleblog.com/2017/08/transformer-novel-neural-network.html>

**Computer Science > Computation and Language**

[Submitted on 12 Jun 2017 (v1), last revised 6 Dec 2017 (this version, v5)]

Attention Is All You Need

Ashish Vaswani, Noam Shazeer, Niki Parmar, Jakob Uszkoreit, Llion Jones, Aidan N. Gomez, Lukasz Kaiser, Illia Polosukhin

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks in an encoder-decoder configuration. The best performing models also connect the encoder and decoder through an attention mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely. Experiments on two machine translation tasks show these models to be superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-German translation task, improving over the existing best results, including ensembles by over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single-model state-of-the-art BLEU score of 41.8 after training for 3.5 days on eight GPUs, a small fraction of the training costs of the best models from the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with large and limited training data.

Comments: 15 pages, 5 figures

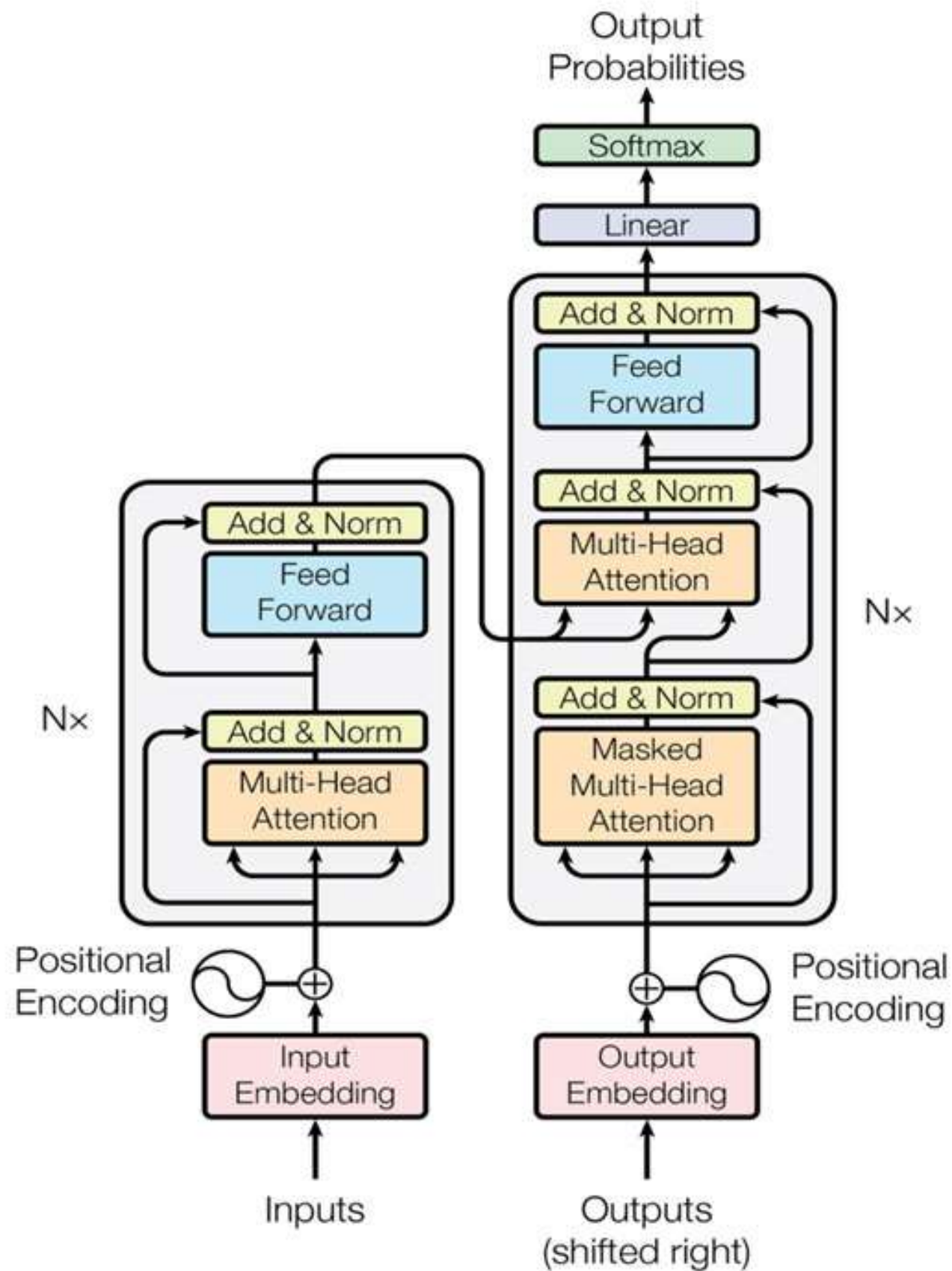
Subjects: **Computation and Language (cs.CL)**; Machine Learning (cs.LG)

Cite as: arXiv:1706.03762 [cs.CL]

(or arXiv:1706.03762v5 [cs.CL] for this version)

<https://doi.org/10.48550/arXiv.1706.03762> 

<https://arxiv.org/abs/1706.03762>



El Nacimiento de los Transformers

En el documento para la conferencia NeurIPS de 2017, el equipo de Google describió su transformer y los registros de precisión que estableció para la traducción automática.

Gracias a una serie de técnicas, entrenaron su modelo en solo 3.5 días con ocho GPU de NVIDIA, una pequeña fracción del tiempo y del costo de entrenamiento de los modelos anteriores. Lo entrenaron con conjuntos de datos de hasta 1000 millones de pares de palabras.

Eficiencia



Hacer **más** con **menos**

Los Transformers Crecen

En el camino, los investigadores descubrieron que los transformers más grandes funcionaban mejor.

El laboratorio de OpenAI mostró que más grande es mejor gracias a su Transformer Generativo Previamente Entrenado (GPT). La última versión, **GPT-3**, tiene 175,000 millones de parámetros, en lugar de los 1500 millones para GPT-2.



Carlos Santana



#MIMEnCasa



DOT CSV
Edutuber



DOT CSV



@DOTCSV



@DOTCSV



<https://www.youtube.com/channel/UCy5znSnfMsDwaLIROnZ7Qbg>

REDES NEURONALES





<https://youtu.be/aL-EmKuB078?t=19>



https://www.youtube.com/watch?v=xi94v_jl26U

Arquitecturas **altamente paralelizables**

**BIGGER
STRONGER
FASTER**



”La computación acelerada y la inteligencia artificial han llegado”



<https://youtu.be/DiGB5uAYKAg?t=524>

WHAT IS GENERATIVE AI?



Generative AI is a type of artificial intelligence (AI) that uses algorithms to create new and original content like images.

1 Forming a Database

A neural network, consisting of various information or media files like images, text, data, sounds, etc., forms the base of artificial intelligence.



2 Inputting a Prompt

The user provides the AI with a description or sample of the desired content.



Prompts can be any user-submitted material, like words, numbers, or photos.



3

Generative AI uses a neural network to create content from the data.

Explained by
artificial
intelligence!

“La inteligencia artificial generativa reinventará casi todas las industrias”



<https://youtu.be/DiGB5uAYKAg?t=2167>

22/07/2022

Blake Lemoine: Google despide al ingeniero que aseguró que un programa de inteligencia artificial cobró conciencia propia

Tiffany Wertheimer
BBC News

23 julio 2022

<https://www.bbc.com/mundo/noticias-62280846>



👉 OTRA REVOLUCIÓN IAs generativas



2014



2015



2016



2017



2018



2020



2022

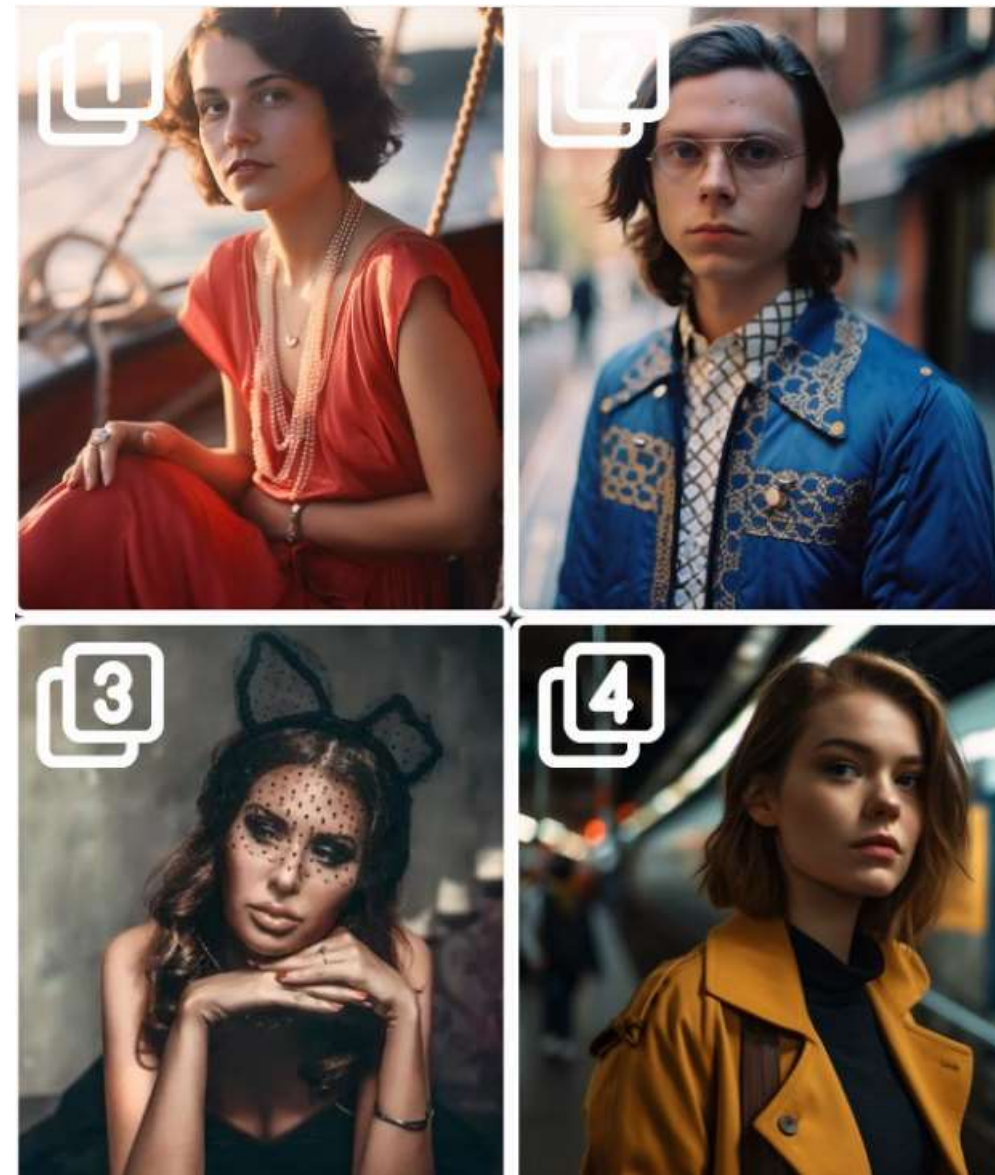
Hablemos del futuro de la IA... 🧠

Carlos Santana



<https://youtu.be/PoDNIEEw9bU>

¿Cuál de estas no es producida por una IA?
(hay 12 ejemplos más)



Instant NeRF Artists

Digital artists are composing beautiful scenes and telling stories from a new perspective with NVIDIA Instant NeRF, an inverse rendering tool that turns a set of static 2D images into an immersive 3D scene in minutes.

The Experience



<https://www.nvidia.com/en-us/research/ai-art-gallery/instant-nerf/>

Agosto 2022: Stable Diffusion 2.0

New Text-to-Image Diffusion Models

The Stable Diffusion 2.0 release includes robust text-to-image models trained using a brand new text encoder (OpenCLIP), developed by LAION with support from Stability AI, which greatly improves the quality of the generated images compared to earlier V1 releases. The text-to-image models in this release can generate images with default resolutions of both 512x512 pixels and 768x768 pixels.

These models are trained on an aesthetic subset of the LAION-5B dataset created by the DeepFloyd team at Stability AI, which is then further filtered to remove adult content using LAION's NSFW filter.



<https://stability.ai/blog/stable-diffusion-v2-release>

21/09/2022: Whisper



Research ▾ Product ▾ Developers ▾ Safety Company ▾

Introducing Whisper



<https://openai.com/research/whisper>

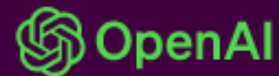
DALL·E 2

DALL·E 2 is an AI system that can create realistic images and art from a description in natural language.

[Try DALL·E](#) ↗[Follow on Instagram](#) ↗

<https://openai.com/product/dall-e-2>

03/11/2022: Dall-e: Public API



Research ▾

Product ▾

Developers ▾

Safety

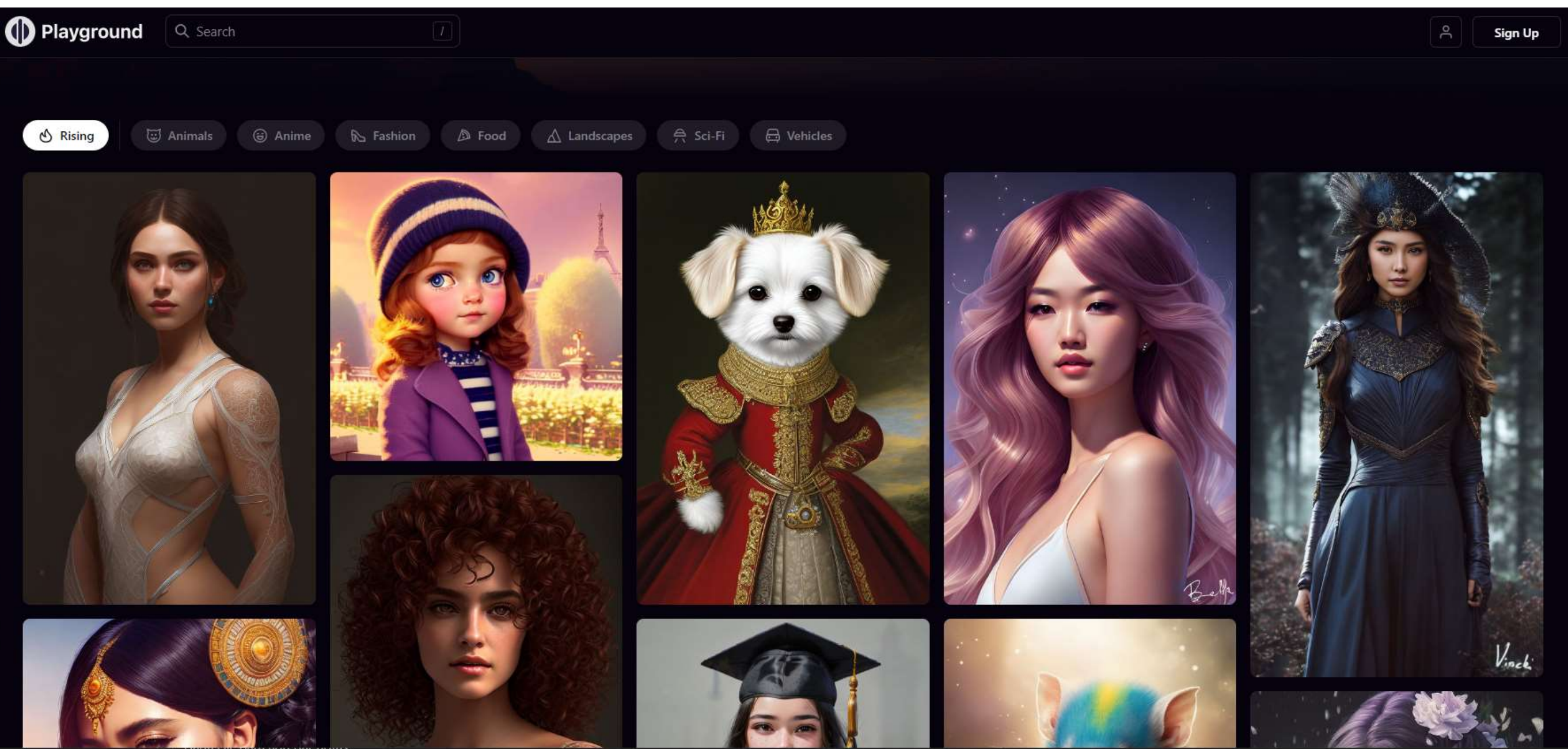
Company ▾

DALL·E API now available in public beta

Starting today, developers can begin building apps with the DALL·E API.

<https://openai.com/blog/dall-e-api-now-available-in-public-beta>

Playground AI



<https://playgroundai.com/>

<https://twitter.com/jsensarma/status/1575726432839684098>



<https://playgroundai.com/>

Midjourney

Community Showcase

Recent ☆ Top



<https://www.midjourney.com/showcase/recent/>

Midjourney: **blend**



Comando **/blend**

<https://youtu.be/PoDNIEEw9bU?t=1727>

Midjourney: **blend**



<https://youtu.be/PoDNIEEw9bU?t=1727>

15/03/2023: Midjourney 5



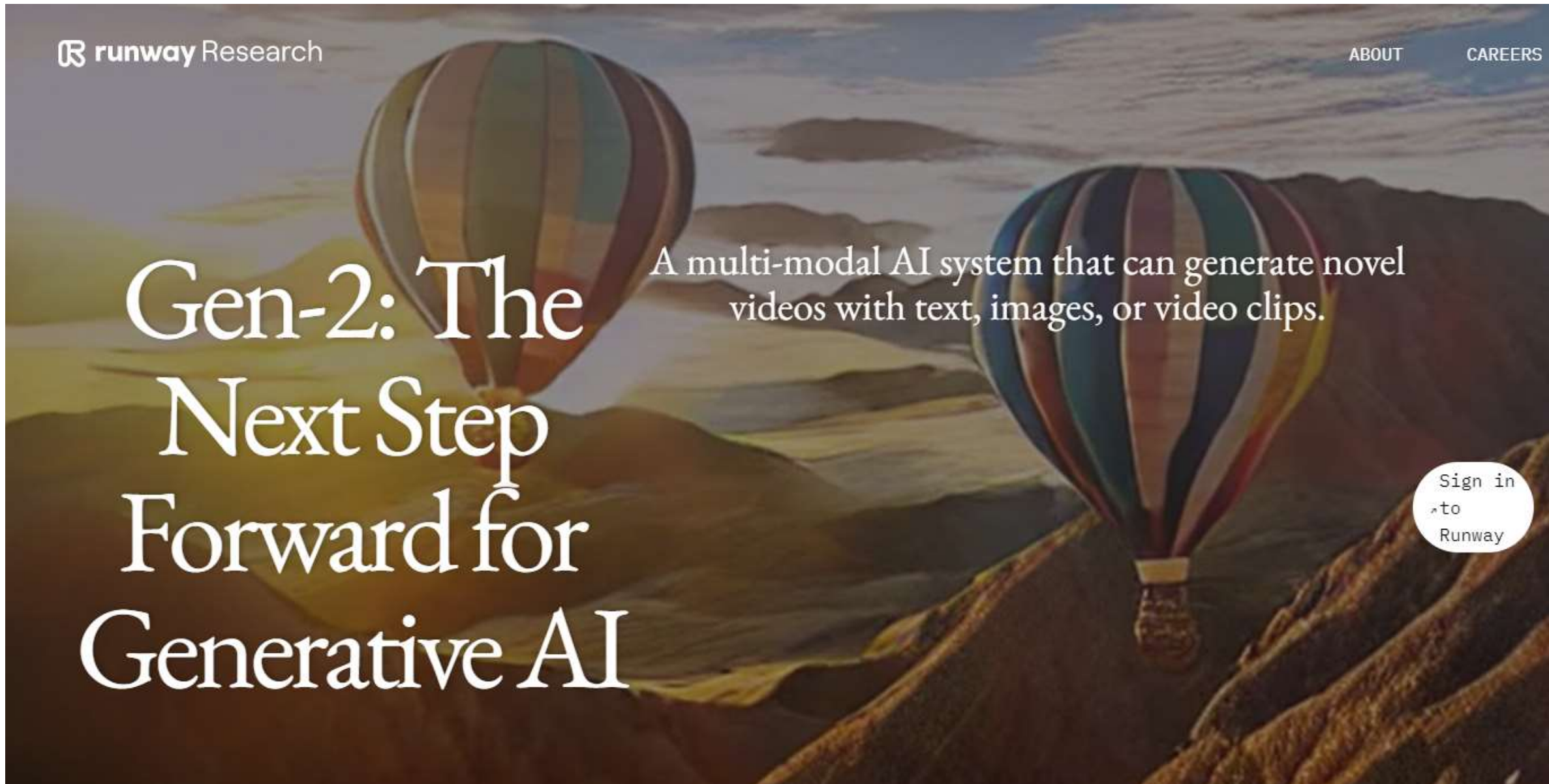
<https://twitter.com/javilop/status/1636317557060714496>

15/03/2023: Midjourney 4 vs 5



<https://twitter.com/nickfloats/status/1636117019153268737>

06/02/2023: Gen-2

The image shows a landing page for Runway Research's Gen-2 AI system. The background is a scenic landscape with two hot air balloons floating over rolling hills under a clear sky. The Runway Research logo is in the top left corner, and navigation links for 'ABOUT' and 'CAREERS' are in the top right. The main headline is 'Gen-2: The Next Step Forward for Generative AI'. A sub-headline reads 'A multi-modal AI system that can generate novel videos with text, images, or video clips.' A 'Sign in to Runway' button is located in the bottom right corner.

runway Research

ABOUT CAREERS

Gen-2: The Next Step Forward for Generative AI

A multi-modal AI system that can generate novel videos with text, images, or video clips.

Sign in to Runway

<https://research.runwayml.com/gen2>

07/02/2023: Bing + OpenAI

YouTube ^{CO} Buscar

No, don't worry.
We'll have some fun.

0:31 / 55:09 • Satya Introduction >

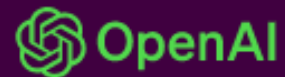
Introducing your copilot for the web: AI-powered Bing and Microsoft Edge

Bing 73.200 suscriptores

22.977 ...

<https://www.youtube.com/watch?v=rOeRWRJ16yY>

01/03/2023: **OpenAI ChatGPT + Whisper APIs**



Research ▾

Product ▾

Developers ▾

Safety

Company ▾

Introducing ChatGPT and Whisper APIs

Developers can now integrate ChatGPT and Whisper models into their apps and products through our API.

<https://openai.com/blog/introducing-chatgpt-and-whisper-apis>

14/03/2023: '**IA constitucional**': un sistema para limitar la IA mediante 'leyes' de comportamiento.

ANTHROPIC

Product Research Company News Careers



Meet Claude

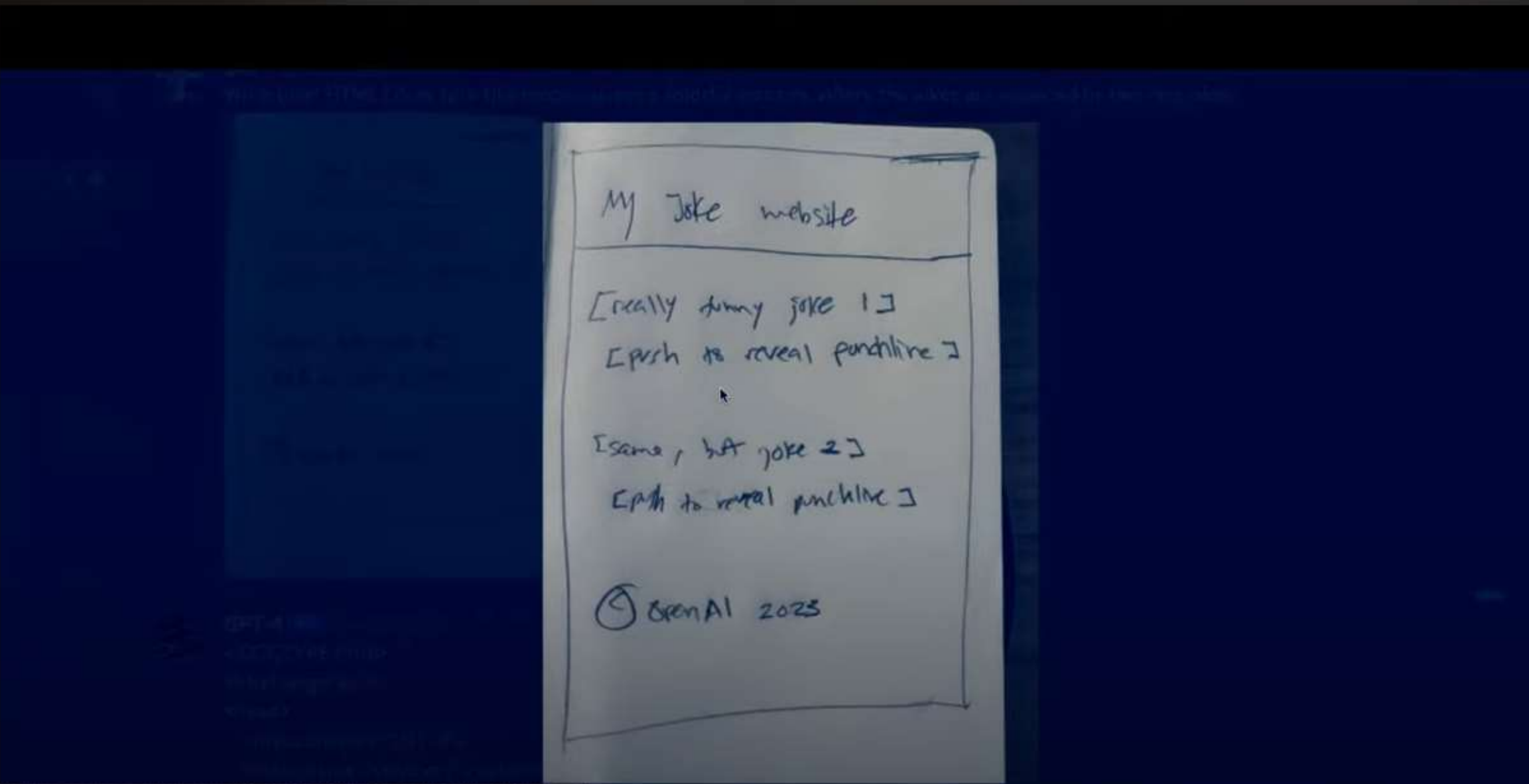


A next-generation AI assistant for your tasks,
no matter the scale

Request Access

<https://www.anthropic.com/product>

14/03/2023: GPT-4



My Joke website

[really funny joke 1]
[push to reveal punchline]

[same, but joke 2]
[push to reveal punchline]

© OpenAI 2023

18:26 / 24:27

GPT-4 Developer Livestream

OpenAI
546.000 suscriptores

Suscrito

94.108

Compartir

Descargar

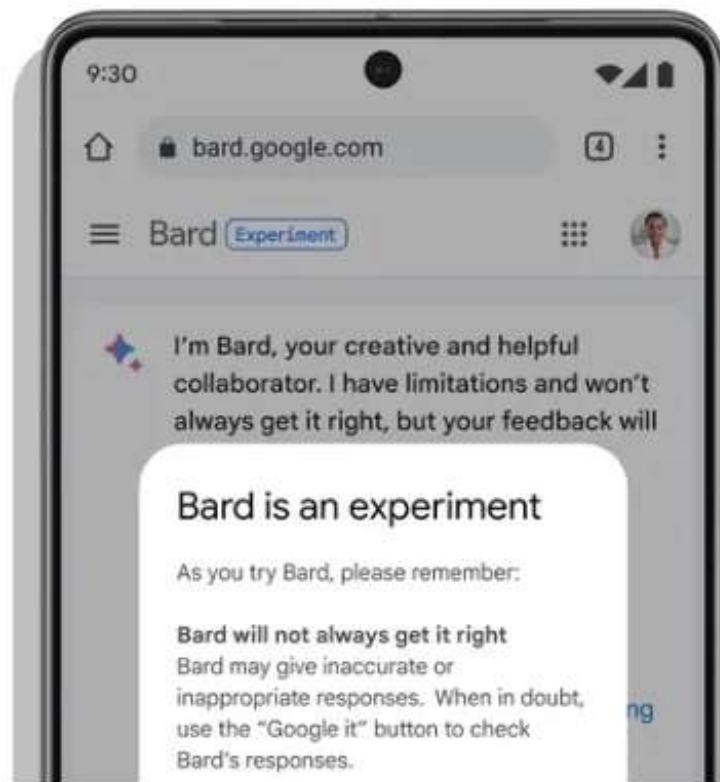
Clip

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

21/03/2023: Google Bard: Beta controlada

GOOGLE / TECH / ARTIFICIAL INTELLIGENCE

Google opens early access to its ChatGPT rival Bard – here are our first impressions



Google is stressing that Bard is an experiment rather than a finished product.
Image: Google

/ Users in the US and UK can join a waitlist for access, but Google is rolling out Bard with caution and stressing that the AI chatbot is not a replacement for search.

By JAMES VINCENT

Mar 21, 2023, 2:00 PM UTC | □



<https://www.theverge.com/2023/3/21/23649794/google-chatgpt-rival-bard-ai-chatbot-access-hands-on>

23/03/2023: ChatGPT Plugins



Research ▾

Product ▾

Developers ▾

Safety

Company ▾

































































ChatGPT plugins

We've implemented initial support for plugins in ChatGPT. Plugins are tools designed specifically for language models with safety as a core principle, and help ChatGPT access up-to-date information, run computations, or use third-party services.

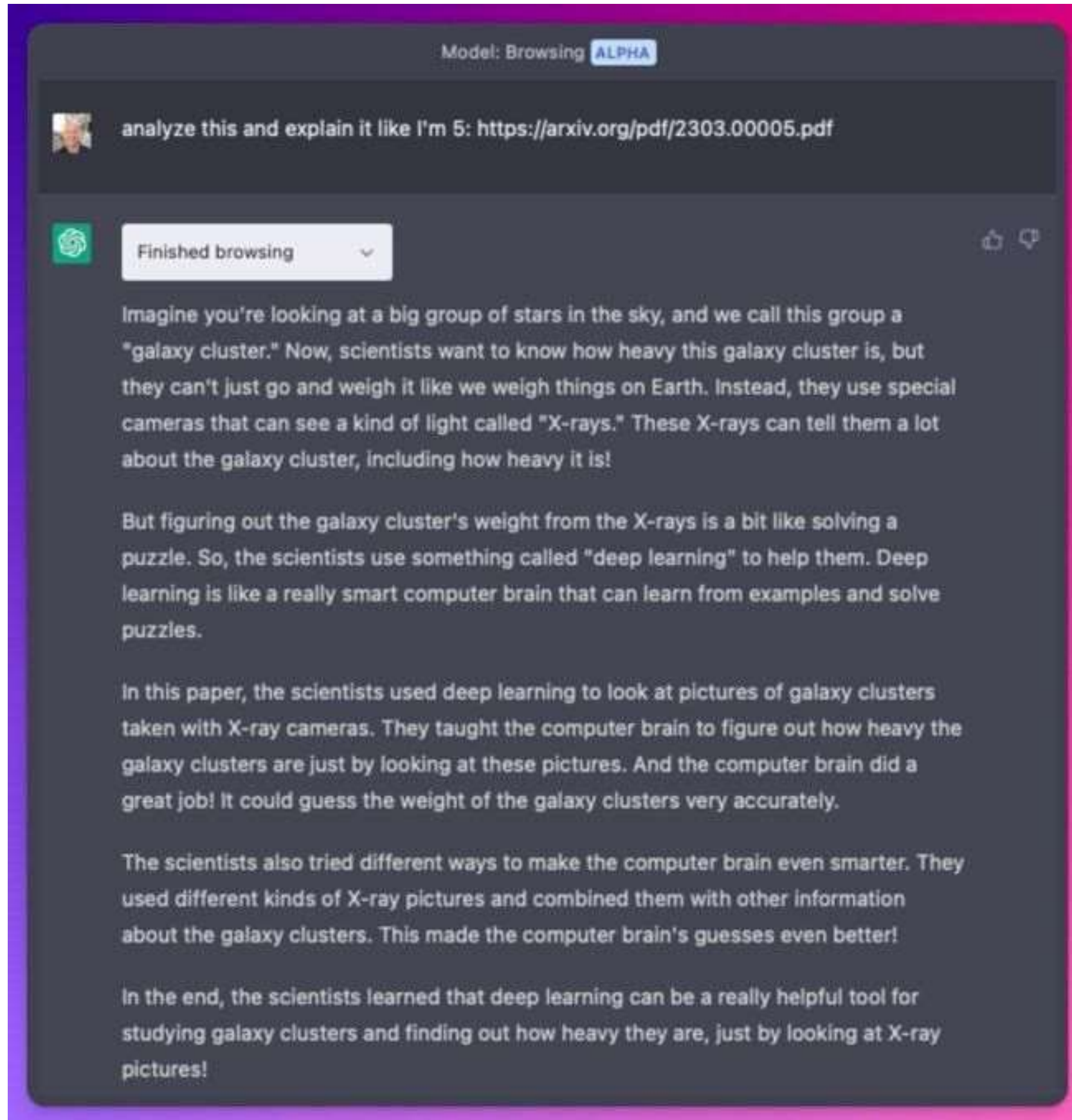
[Join plugins waitlist](#)

[Read documentation](#) ↗

<https://openai.com/blog/chatgpt-plugins>

 Wolfram Alpha View Demo Systems computation and content data from Wolfram Alpha.	 Kerns Shopping View Demo Search and compare prices from thousands of online shops.	 LangChain Docs View Demo Up-to-date information for the LangChain Python library.	 TODO Plugin View Demo Plugin for generating to-do items with AI.	 Wolfram Alpha View Demo Systems computation and content data from Wolfram Alpha.	 LangChain Docs View Demo Up-to-date information about the LangChain Python library.	 TODO Plugin View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 OpenTable View Demo Allow you to search for restaurants available for booking using OpenTable.
 TODO Plugin View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 NBA Standings API View Demo Up-to-date status of the NBA Standings across and the standings.	 TODO Plugin Inc. View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 Expedia - Test View Demo Bring your API tests to life - get them running. Our plugin is easy and so simple.	 Bain Plugin View Demo Search through Bain articles.	 Retrieved Plugin View Demo Plugin to search through your personal documents.	 Pricerunner products View Demo This plugin also uses the advanced products when getting the best price of shopping suggestions.	 Github Docs Plugin View Demo Github documentation search.
 Github View Demo Plugin to search through Github's documentation.	 Github View Demo Search through Github using OpenTable.	 Stack View Demo Plugin for querying Stack.	 Zapier View Demo Use Zapier to connect with over 3,000 apps like Google Sheets, Trello, Slack, Hubspot, Salesforce...	 winkuplight View Demo Plugin to test using winkuplight.	 FrodoMite View Demo FrodoMite enables users to access travel history, flight data with the best, pricing, and itinerary...	 CAR Plugin View Demo A plugin that will change OpenTable's itinerary.	 Wolfram Test View Demo Systems computation using the Wolfram Language.
 TODO Plugin View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 ZapierTest View Demo Use Zapier to connect with over 3,000 apps like Google Sheets, Trello, Slack, Hubspot, Salesforce...	 OpenTable View Demo Allow you to search for restaurants available for booking using OpenTable.	 TODO Plugin Inc. View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 TODO Plugin View Demo Plugin for managing a TODO list, you can add, remove and view your TODOs.	 Firecrawl View Demo Plugin to search through your Personal Documents.	 Wolfram Test View Demo Systems computation, math, content knowledge & real-time data through WolframAlpha and Wolfram Language.	 Retrieved Plugin View Demo Search through your documents.
 Pensara API View Demo Pensara is the identity and Access management platform that manages user's identities and roles.	 OpenTable Plugin View Demo Plugin for searching online OpenTable restaurants.	 TODO Plugin View Demo Plugin for managing a to-do list.	 Zilla Plugin View Demo Search through your documents.	 Notes Plugin Inc. View Demo Plugin for managing a to-do list, for the user, you can add, remove and view your notes.	 Wolfram Language View Demo Systems computation using the Wolfram Language.	 TODO View Demo TODO app.	 Kerns Products View Demo This plugin also uses the advanced products when getting the best price of shopping suggestions.
 ChatTODO View Demo Simple app for managing a TODO list.	 TODO Demo View Demo TODO demo app.	 Wolfram View Demo Systems computation, math, content knowledge & real-time data through WolframAlpha and Wolfram Language.	 Pricerunner products View Demo This plugin also uses the advanced products when getting the best price of shopping suggestions.	 United Nations View Demo Search through UN documents.	 syz Plugin View Demo Plugin to use the syz API.	 syz Plugin View Demo Plugin to use the syz API.	 Expedia Travel View Demo Plugin for finding travel recommendations.
 Milo Family AI View Demo Creating the vision of a happy digital family. Milo Family AI includes fun, fresh AI usage.	 Vopse Plugin View Demo Search through Vopse articles.	 syz plugin View Demo syz plugin for.	 CHESS View Demo Chess.	 NBA Stats Example View Demo Get NBA stats and historical data for NBA players and games.	 SQL expert feature View Demo Non-SQL, expert Database.	 TODO Demo View Demo TODO demo app.	 Retrieved Plugin View Demo Plugin to search through your personal documents.
 Instacart View Demo Take Your own grocery list and grocery items.	 Crypto Prices Plug View Demo Plugin to get the price of a cryptocurrency.	 Instacart Dev View Demo Order from your favorite grocery items.	 iF DEMO View Demo iF DEMO.	 Shop View Demo Search for reviews of products from the website product website.	 Wolfram Test View Demo Systems computation using the Wolfram Language.	 Send Email View Demo Plugin to send emails.	 Wolfram View Demo Systems computation, math, content knowledge & real-time data through WolframAlpha and Wolfram.

27/03/2023: ChatGPT Browser Alpha



Model: Browsing ALPHA

analyze this and explain it like I'm 5: <https://arxiv.org/pdf/2303.00005.pdf>

Finished browsing

Imagine you're looking at a big group of stars in the sky, and we call this group a "galaxy cluster." Now, scientists want to know how heavy this galaxy cluster is, but they can't just go and weigh it like we weigh things on Earth. Instead, they use special cameras that can see a kind of light called "X-rays." These X-rays can tell them a lot about the galaxy cluster, including how heavy it is!

But figuring out the galaxy cluster's weight from the X-rays is a bit like solving a puzzle. So, the scientists use something called "deep learning" to help them. Deep learning is like a really smart computer brain that can learn from examples and solve puzzles.

In this paper, the scientists used deep learning to look at pictures of galaxy clusters taken with X-ray cameras. They taught the computer brain to figure out how heavy the galaxy clusters are just by looking at these pictures. And the computer brain did a great job! It could guess the weight of the galaxy clusters very accurately.

The scientists also tried different ways to make the computer brain even smarter. They used different kinds of X-ray pictures and combined them with other information about the galaxy clusters. This made the computer brain's guesses even better!

In the end, the scientists learned that deep learning can be a really helpful tool for studying galaxy clusters and finding out how heavy they are, just by looking at X-ray pictures!

<https://www.linkedin.com/feed/update/urn:li:activity:7046194163008098305/>



F A C T O R Y

21/03/2023: “Estamos en el momento iPhone de la inteligencia artificial”

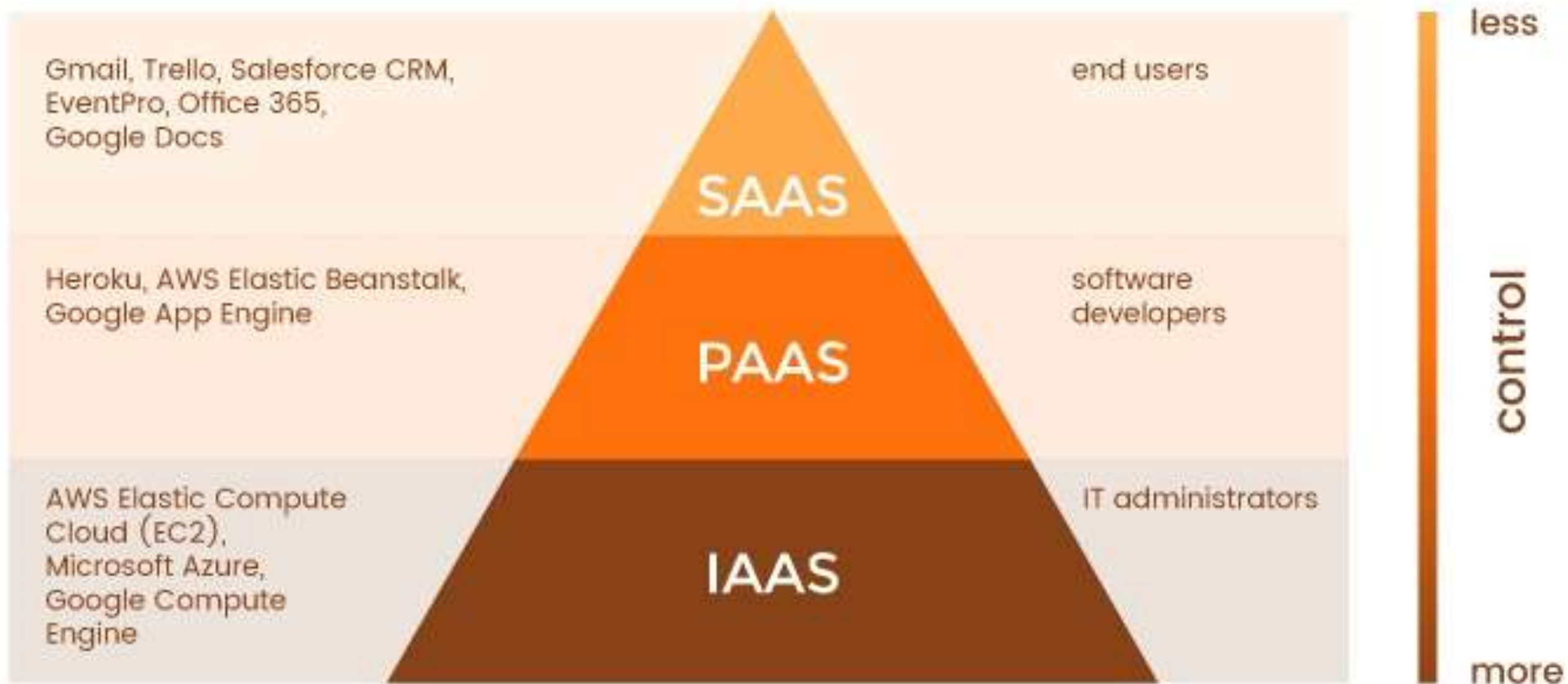


<https://youtu.be/DiGB5uAYKAg?t=1899>



El momento iPhone de la Inteligencia Artificial







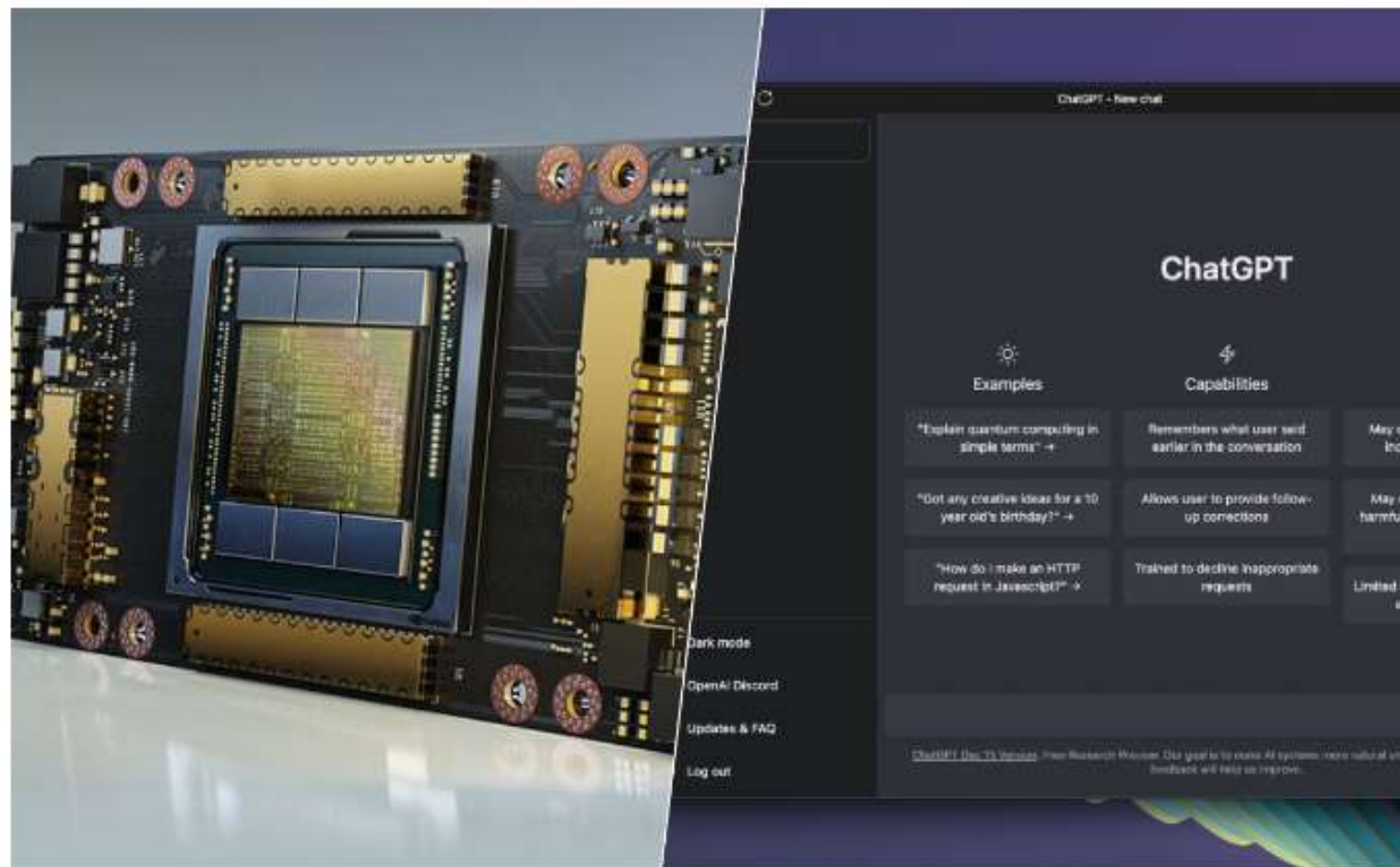
21/03/2023: “**velocidad, escala y alcance**”



<https://youtu.be/DiGB5uAYKAg?t=2036>

<https://youtube.com/clip/Ugkx0fkR1RMnA8UNUQmxv4zNiv3wEYeEKOfB>

Tú también puedes entrenar a tu propio ChatGPT desde casa. Siempre y cuando tengas 35.000 euros, claro



23 Marzo 2023 - Actualizado 24 Marzo 2023, 04:68

13 Comentarios

<https://www.xataka.com/robotica-e-ia/35-000-euros-te-puedes-comprar-cochazo-entrenar-a-tu-propio-chatgpt-durante-mes>

13/03/2023

Stanford Alpaca



<https://crfm.stanford.edu/2023/03/13/alpaca.html>

Lunes 13 de marzo

Stanford lanza Alpaca 7B

Tras [la filtración del código LLaMa de Meta AI](#) a comienzos de mes, se han multiplicado las iniciativas libres que logran ejecutar grandes modelos de lenguaje en hardware relativamente asequible. Ahora, [este lanzamiento de Stanford](#), con el que inaugurábamos la semana, permite ejecutar **un modelo casi tan complejo como GPT-3** ("se comporta de manera similar a *text-davinci-003*", afirman sus autores, en referencia a otro modelo de OpenAI)... pero **la clave reside en que puede hacerlo en un ordenador doméstico** con cierta potencia de GPU, como un M1 Macbook Air.



<https://crfm.stanford.edu/2023/03/13/alpaca.html>

Nemo



<https://youtu.be/DiGB5uAYKAg?t=2359>



Generative AI as a Service **GAlaaS** Multimedia

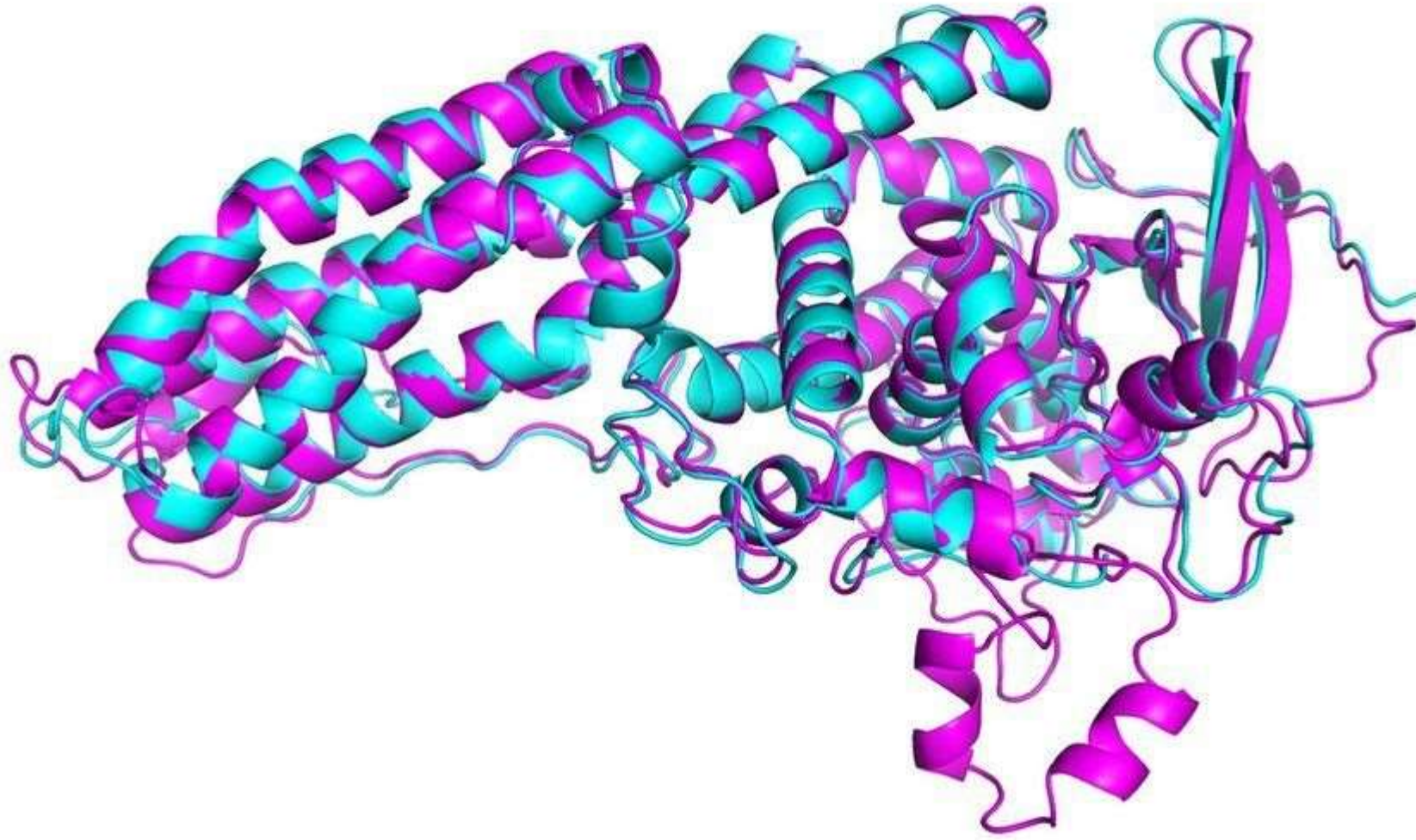
Picasso



<https://youtu.be/DiGB5uAYKAg?t=2575>

Generative AI as a Service

GAlaaS



Biología



Alpha Fold 2: un logro impresionante que marca un antes y un después en el estudio de las proteínas

Published: December 14, 2020 8.06pm GMT

<https://www.deepmind.com/research/highlighted-research/alphafold/timeline-of-a-breakthrough>

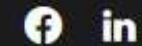
META, AI & DEEPTech, BIG TECH, LATEST UPDATES · 2 minute read

Meta AI releases ESMFold, a new protein structure prediction tool



Allhealthtech

September 29, 2022



Meta AI releases ESMFold trained on 15 billion parameters to predict protein structure. Know more here.



<https://allhealthtech.com/esmfold/>

Bionemo



<https://youtu.be/DiGB5uAYKAg?t=2780>

Casos de uso

**Lo dejamos para
una tercera sesión**

Sacándole provecho a las **tecnologías exponenciales** parte 14:

Inteligencia artificial parte 2:
Presente: La gran explosión
11/04/2023

Cátedra
Pedro Nel Gómez:
Mindset innovador a
prueba de futuro

