

Intelligence artificielle

Quand les algorithmes rencontrent la science

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ChatGPT **PLUS**

Help me pick

a gift for my dad who loves fishing

Brainstorm edge cases

for a function with birthdate as input, horoscope as ou...

Make up a story

about Sharky, a tooth-brushing shark superhero

Create a personal webpage for me

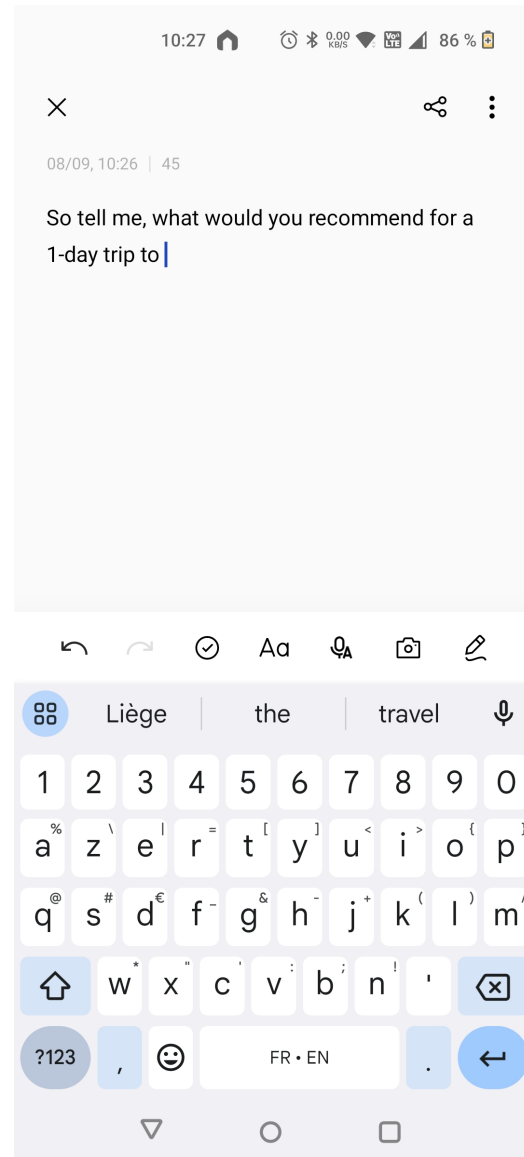
after asking me three questions

+ Send a message



Une idée simple:

Devinez le prochain mot



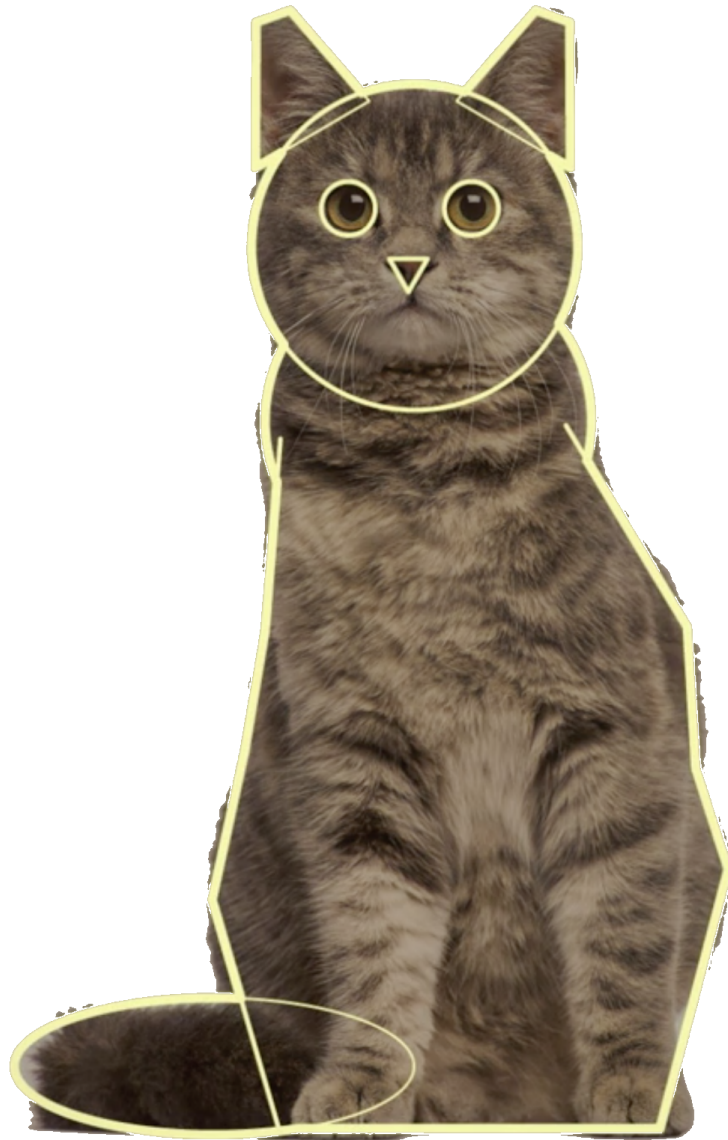
Ce soir, la présentation sera ____

Ce soir, la présentation sera sur ____

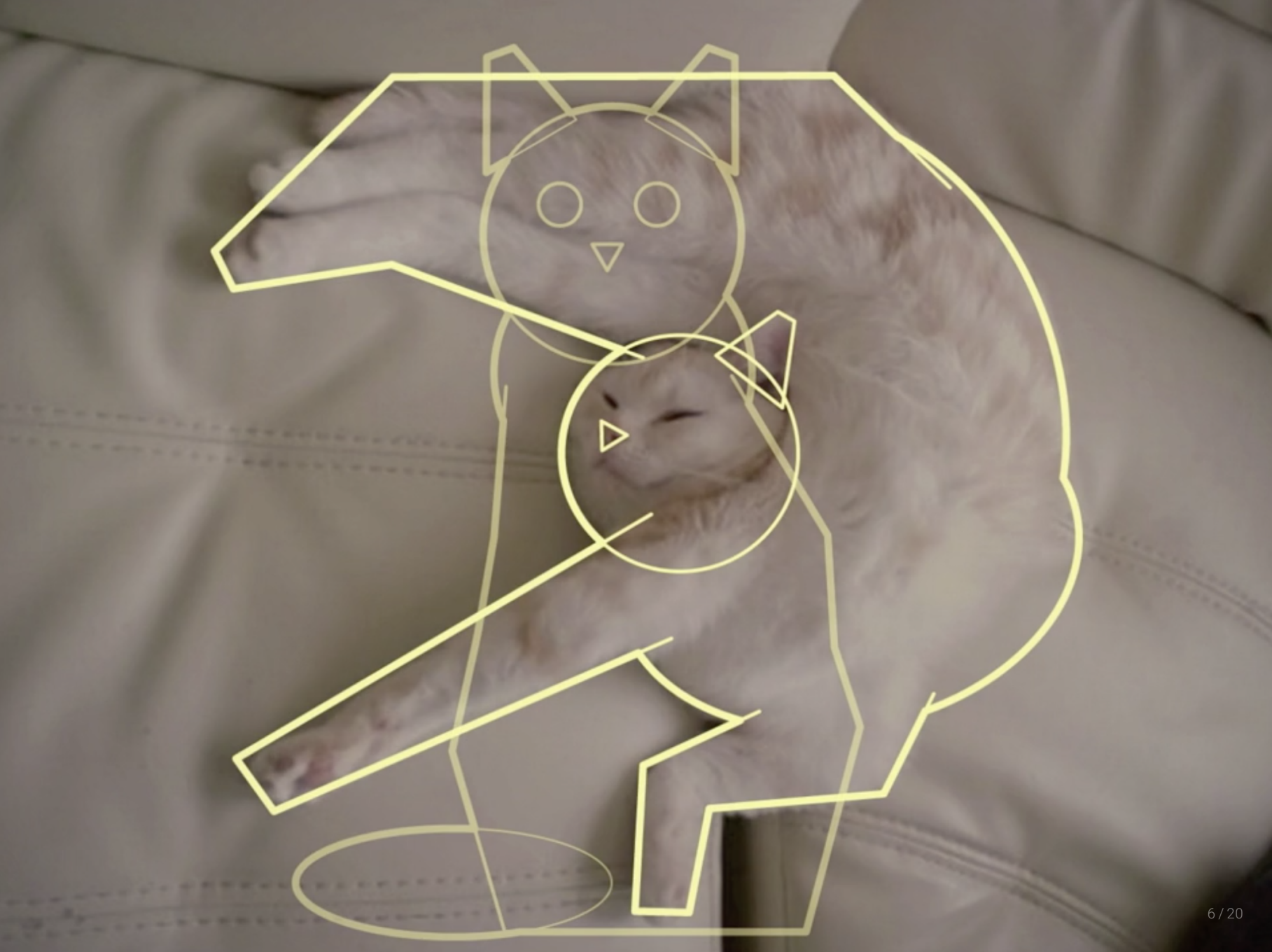
Ce soir, la présentation sera sur l'IA et ses ____

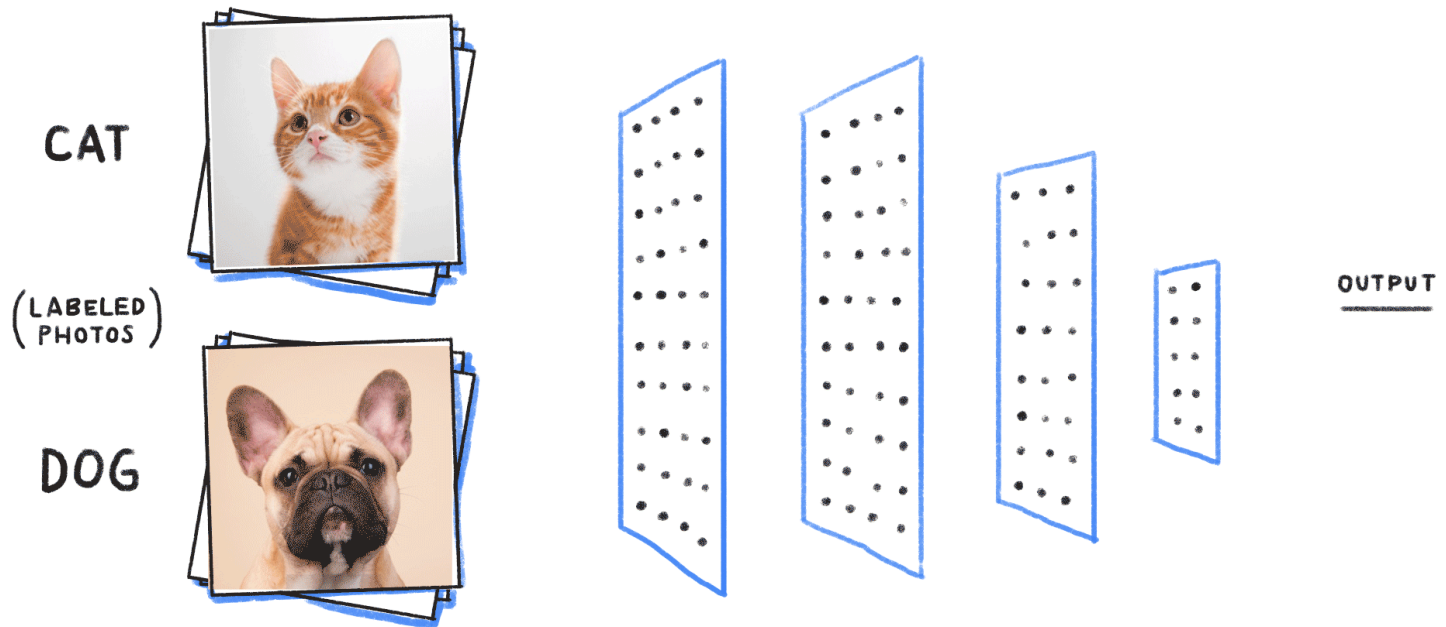
Mais comment ça marche?



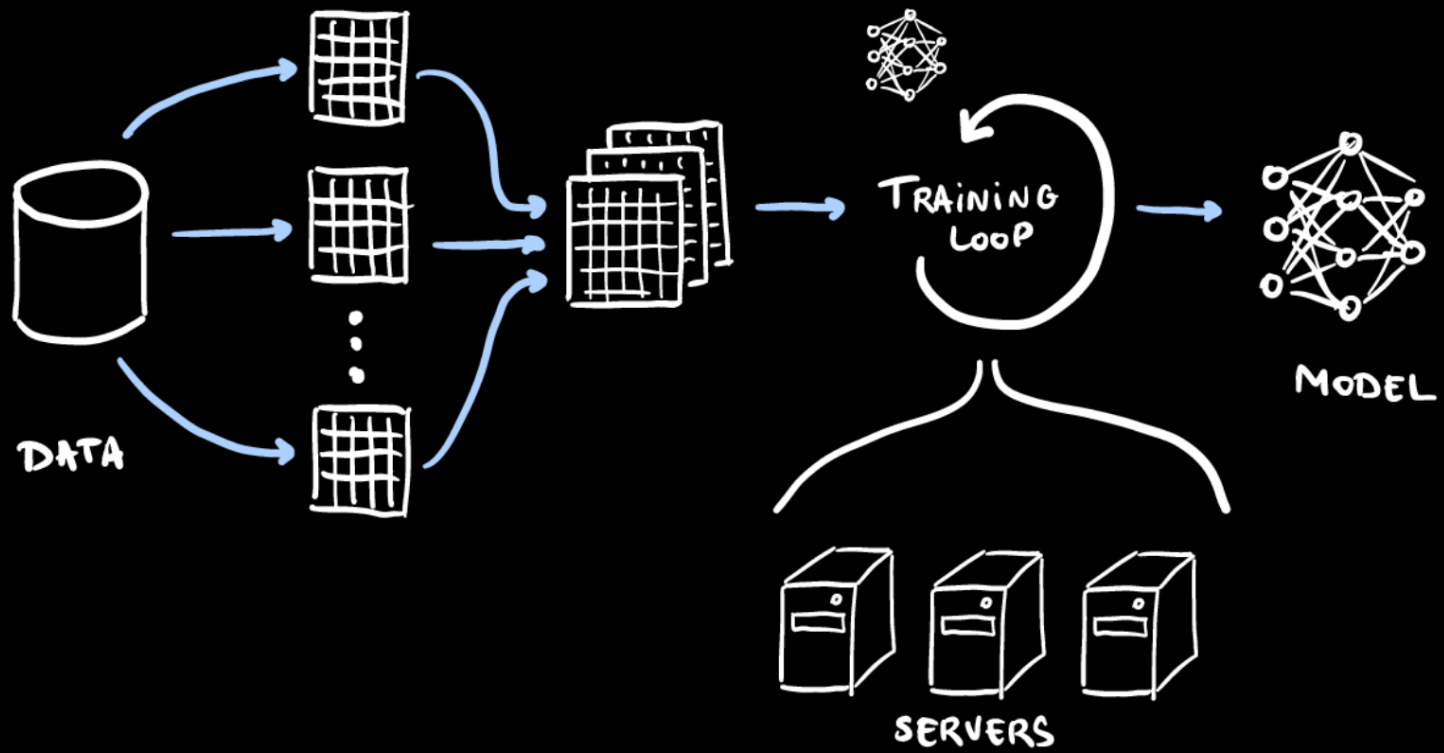


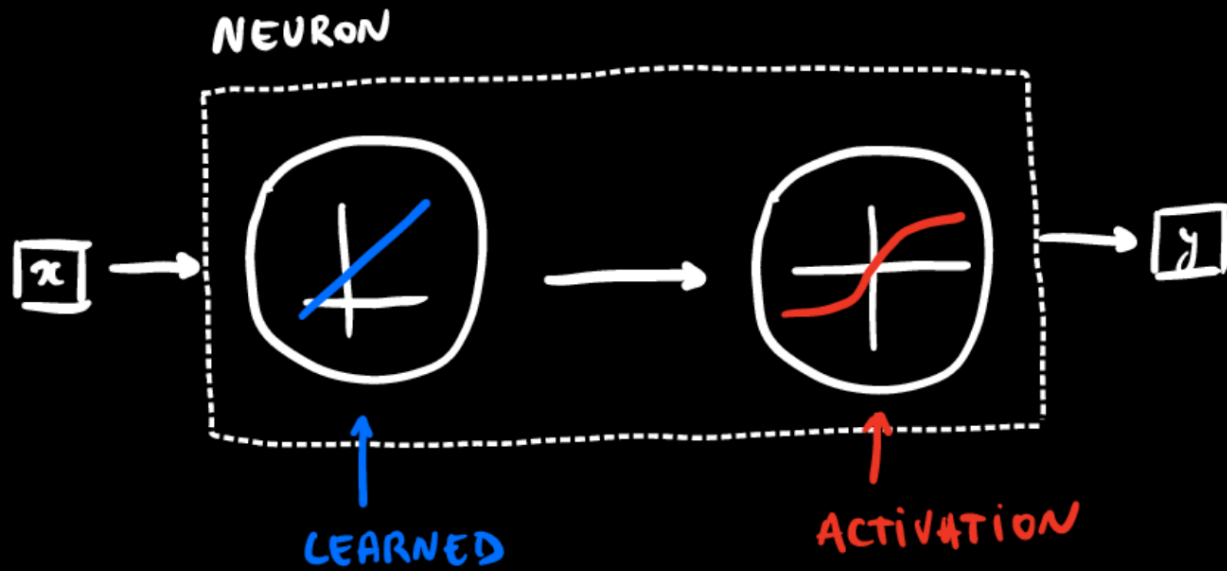


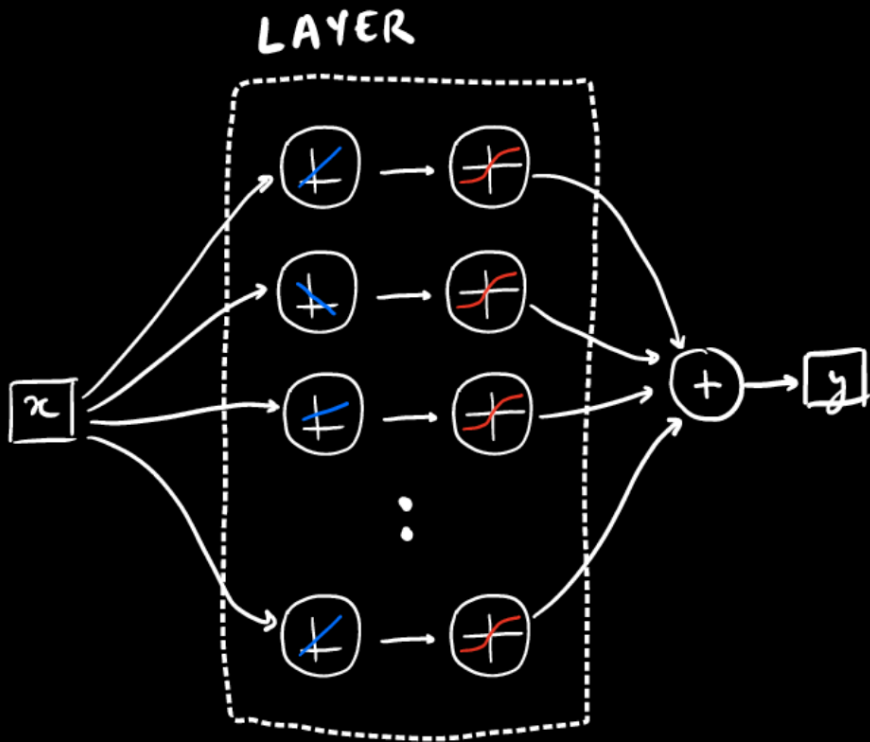


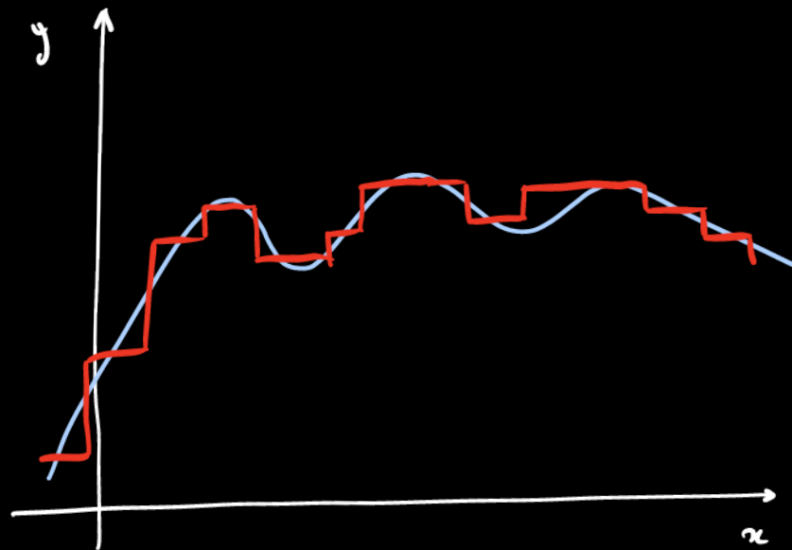
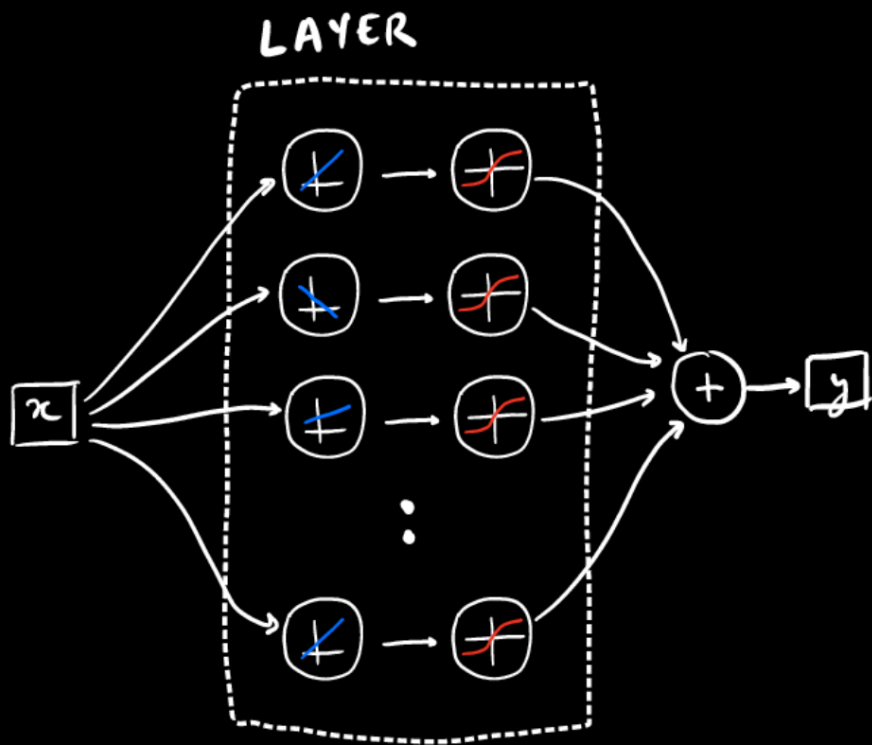


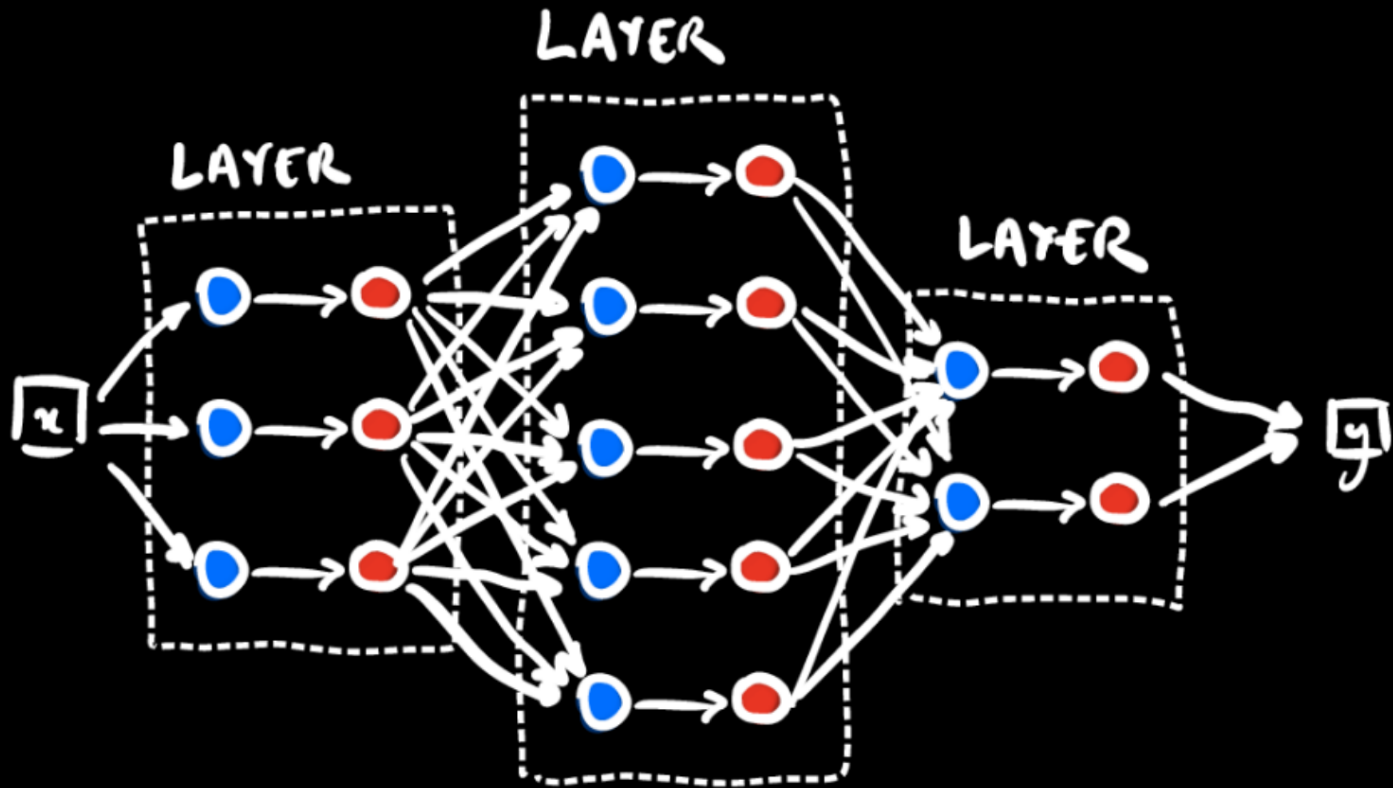
Le deep learning permet d'automatiser la construction de programmes informatiques capables de résoudre des tâches complexes.

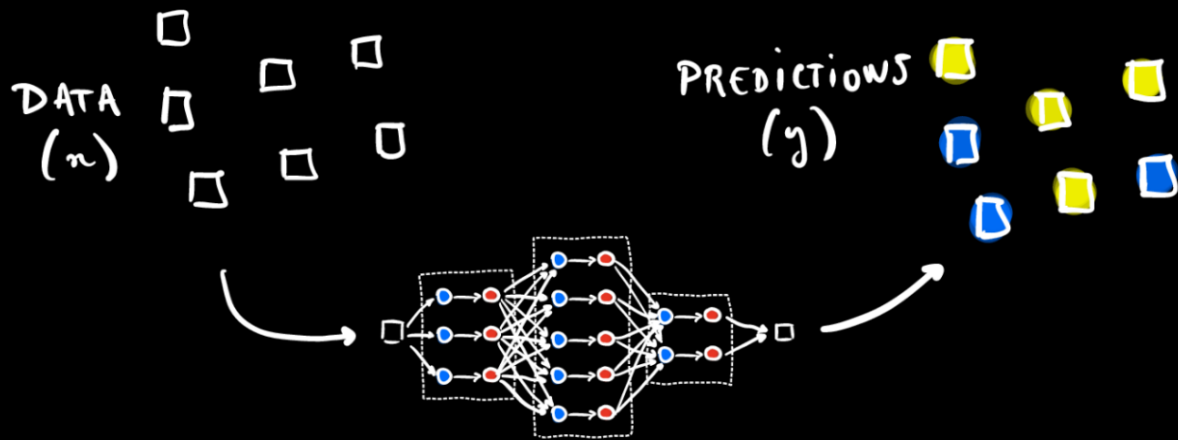


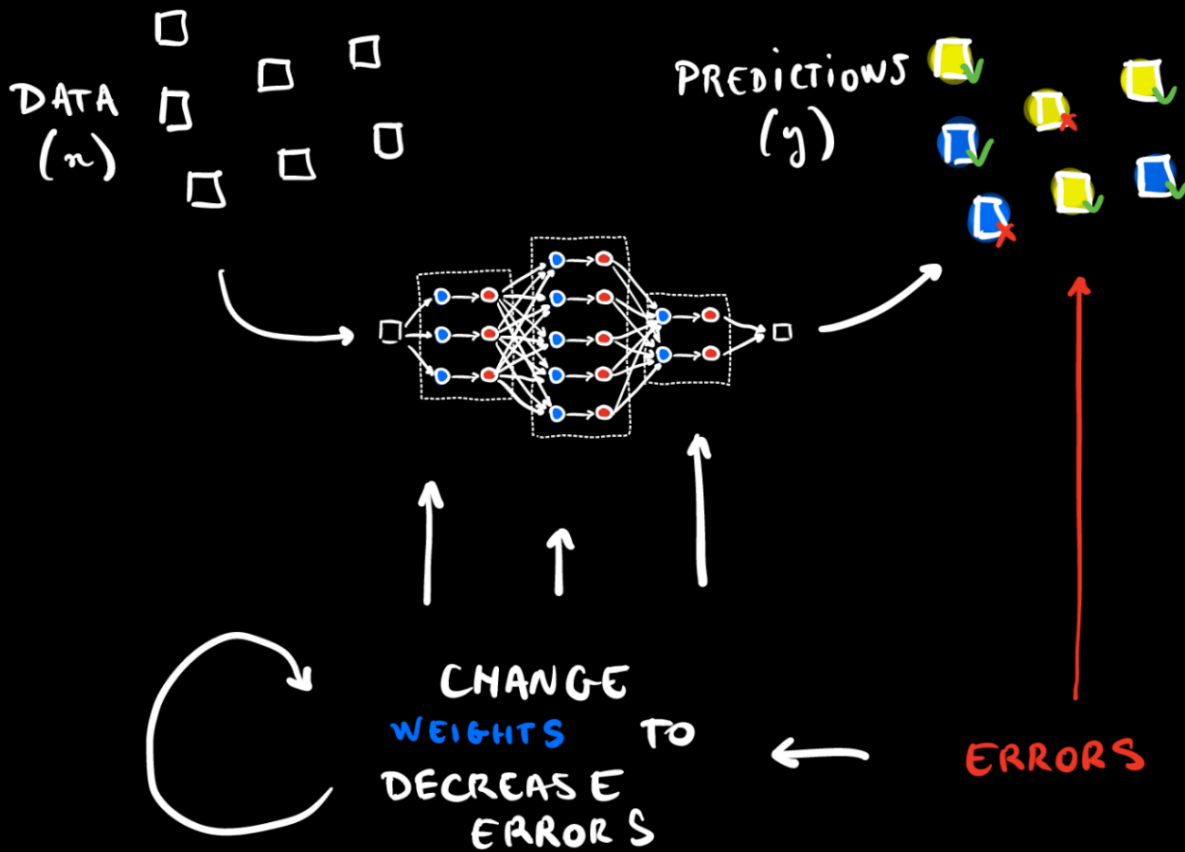






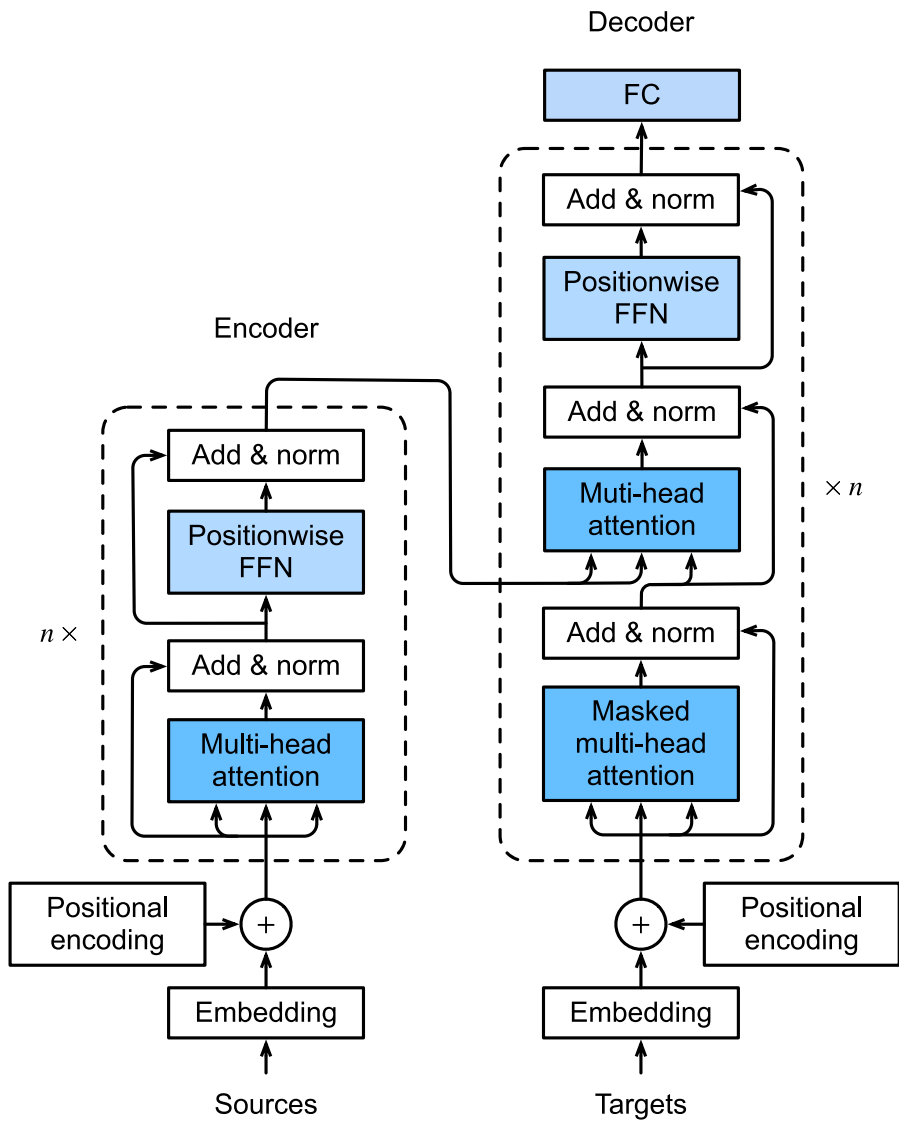








Training a neural network is **like tuning a guitar**, except it is run by a learning algorithm.

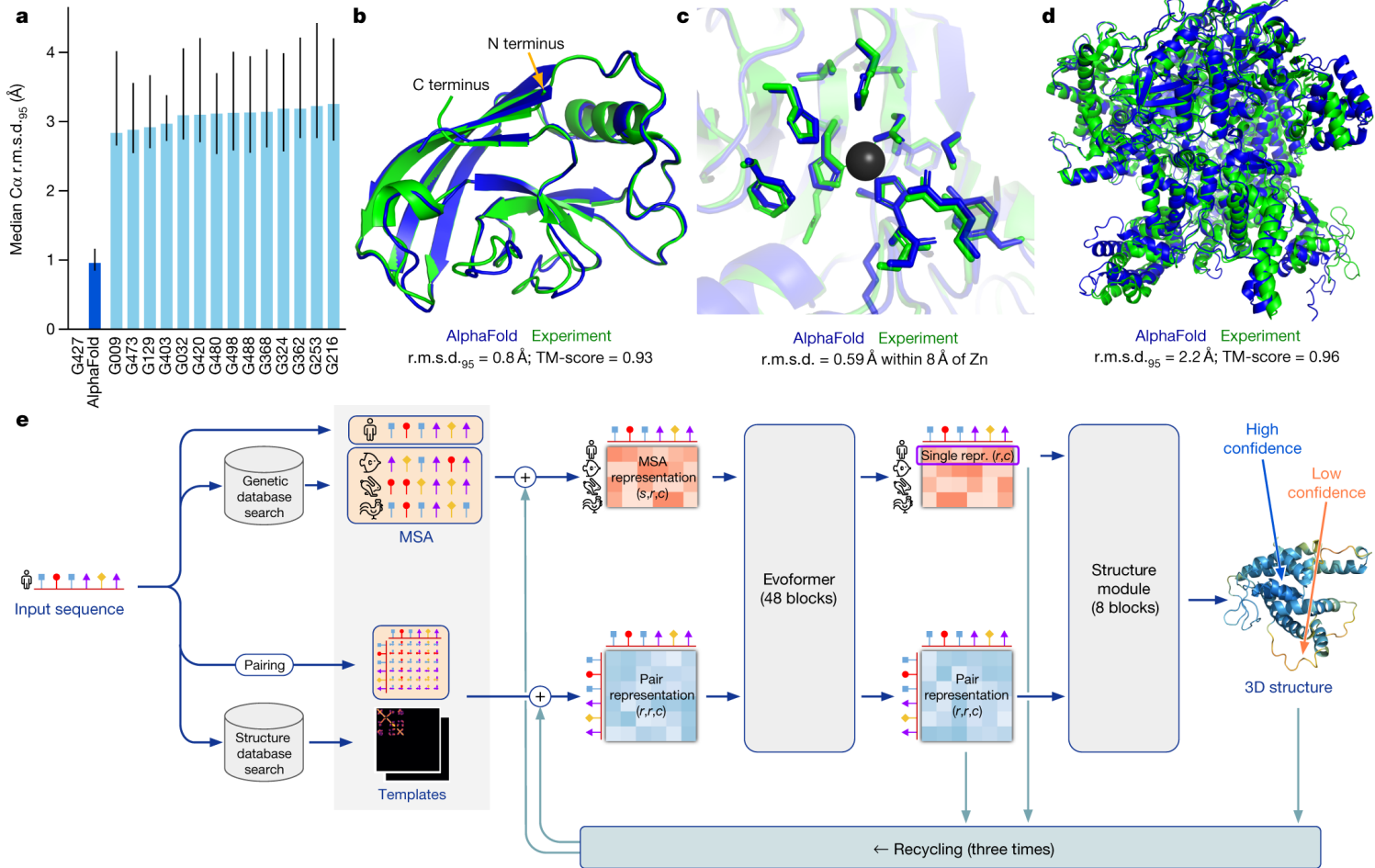


Mais ça sert à quoi?

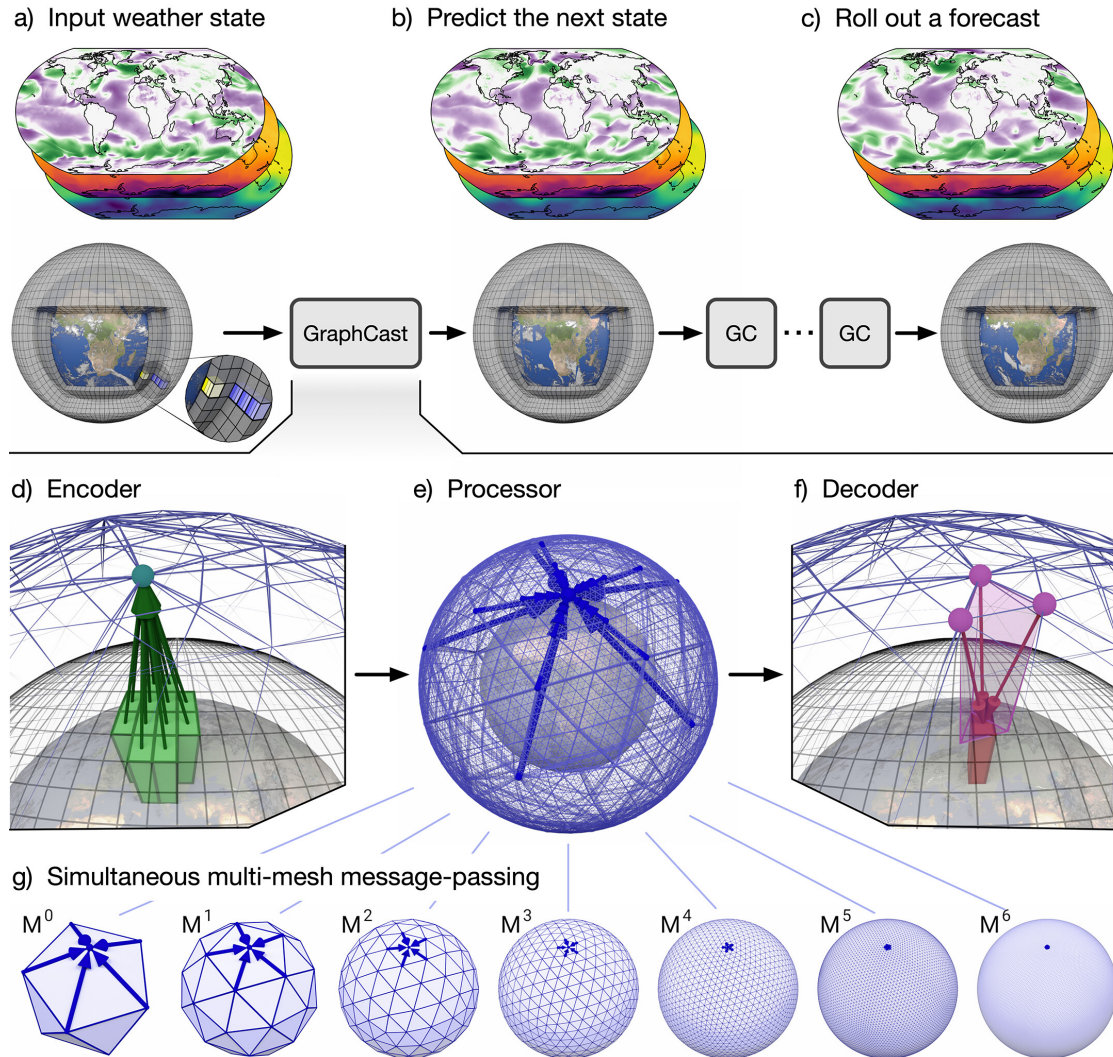
L'intelligence artificielle peut-elle...

- Traduire le chinois parlé en anglais parlé, en temps réel?
- Répondre à des questions à choix multiples aussi bien qu'un élève de primaire?
- Résoudre des problèmes mathématiques universitaires?
- Prouver des théorèmes mathématiques?
- Converser avec une personne pendant une heure?
- Jouer correctement aux échecs? Au Go? Au poker? Au football?
- Conduire une voiture sur un parking? À San Francisco? à Liège?
- Écrire du code informatique?
- Raconter une histoire drôle?
- Peindre comme Van Gogh? Composer de la musique?
- Faire preuve de bon sens?

AlphaFold: D'une séquence d'acides aminés à une structure 3D

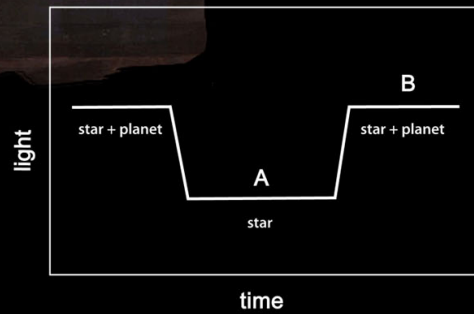
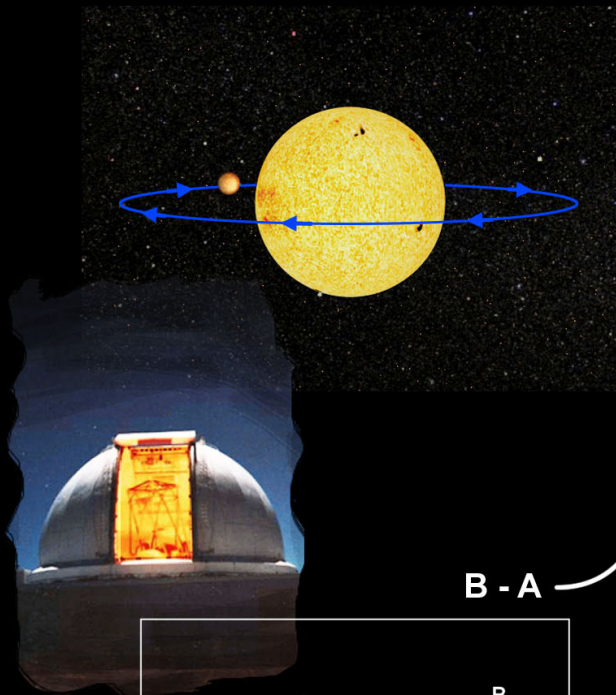


GraphCast: des prédictions météorologiques précises et rapides

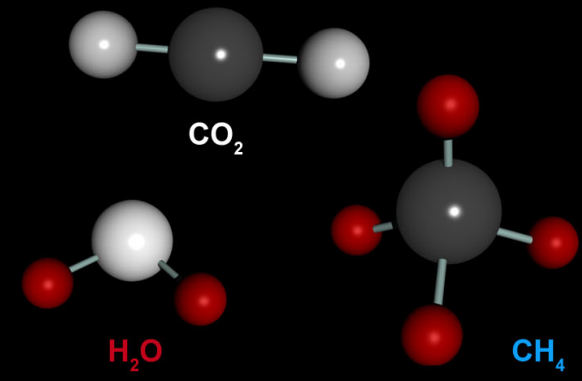
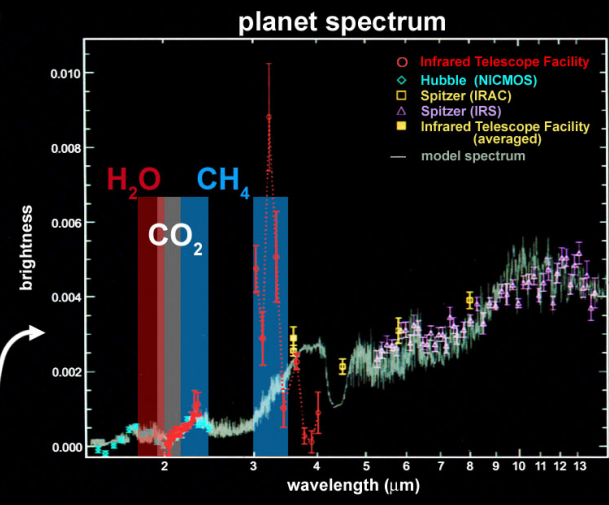




Caractériser les exoplanètes



B - A



Merci! Des ____?

Backups



Speech Recognition Breakthrough for the S...



Later bekij...



Delen



So, that one change that particular break through increased recognition rates by approximately thirty percent, that's a big deal.
That's the difference between going

Recognizability: 98%

Speech translation and synthesis (2012)



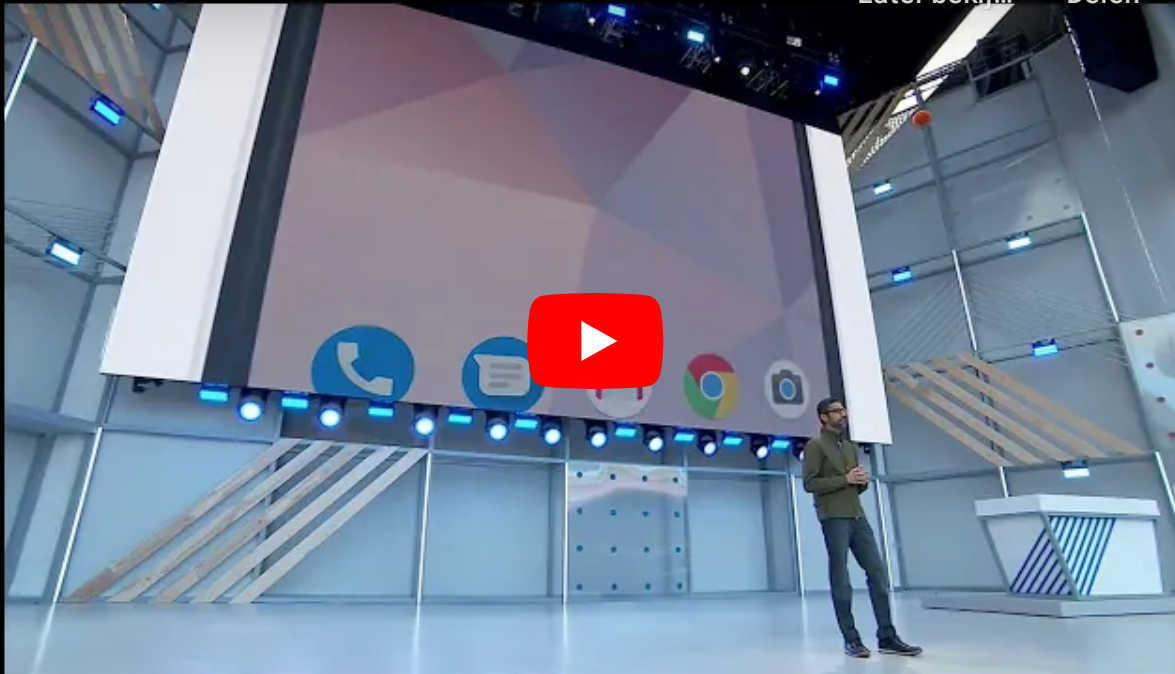
Google Assistant will soon be able to call re...



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Speech synthesis and question answering (Google, 2018)



Google DeepMind's Deep Q-learning playing...

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Playing Atari games (2013)



The computer that mastered Go



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Beat the best human Go players (2016)



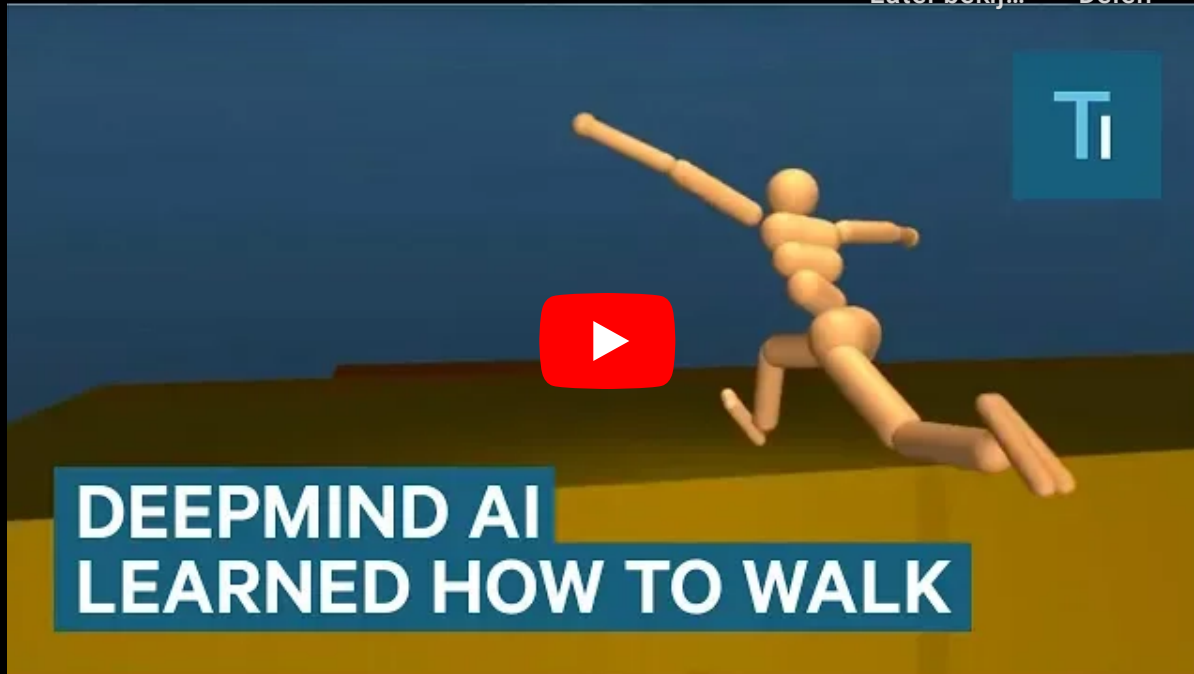
Google's DeepMind AI Just Taught Itself To ...



Later bekij...



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Learning to walk (2017)



RoboCup 2018 Humanoid AdultSize Final: ...



Later bekij...



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Playing soccer (2018)



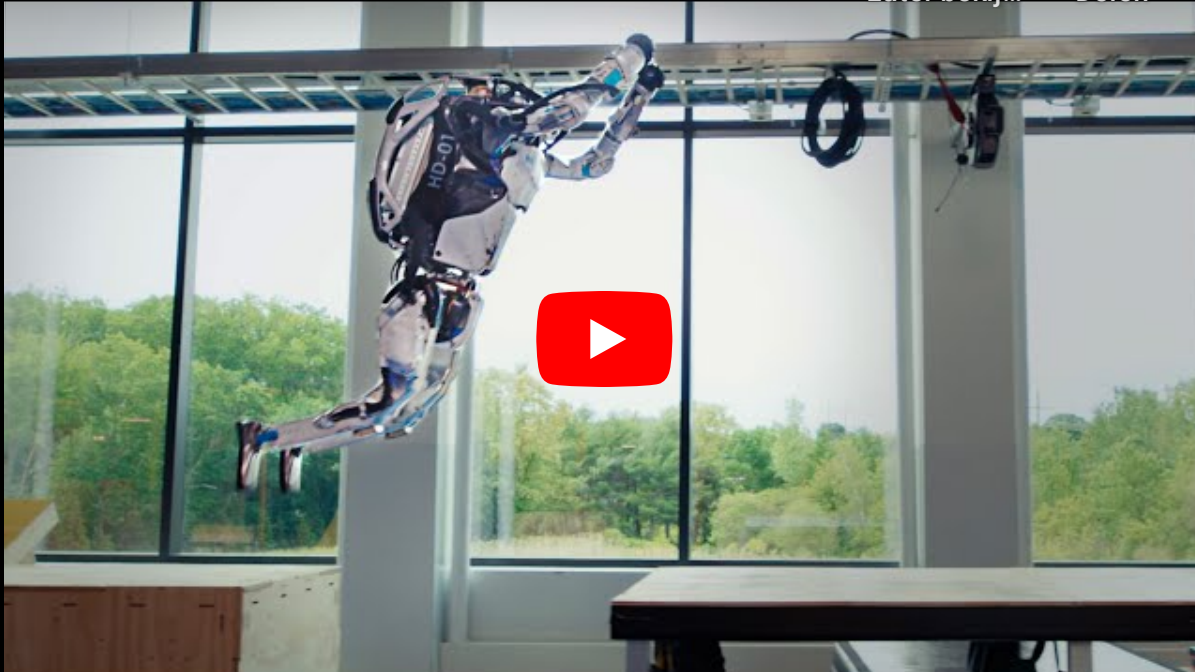
Atlas | Partners in Parkour



Later bekij...



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... although some robots might now do better (2021).



NVIDIA Autonomous Car



Later bekij...



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Driving a car (NVIDIA, 2016)



Sense, Solve, and Go: The Magic of the Wa...



Later bekij...



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Autonomous cars (Waymo, 2022)

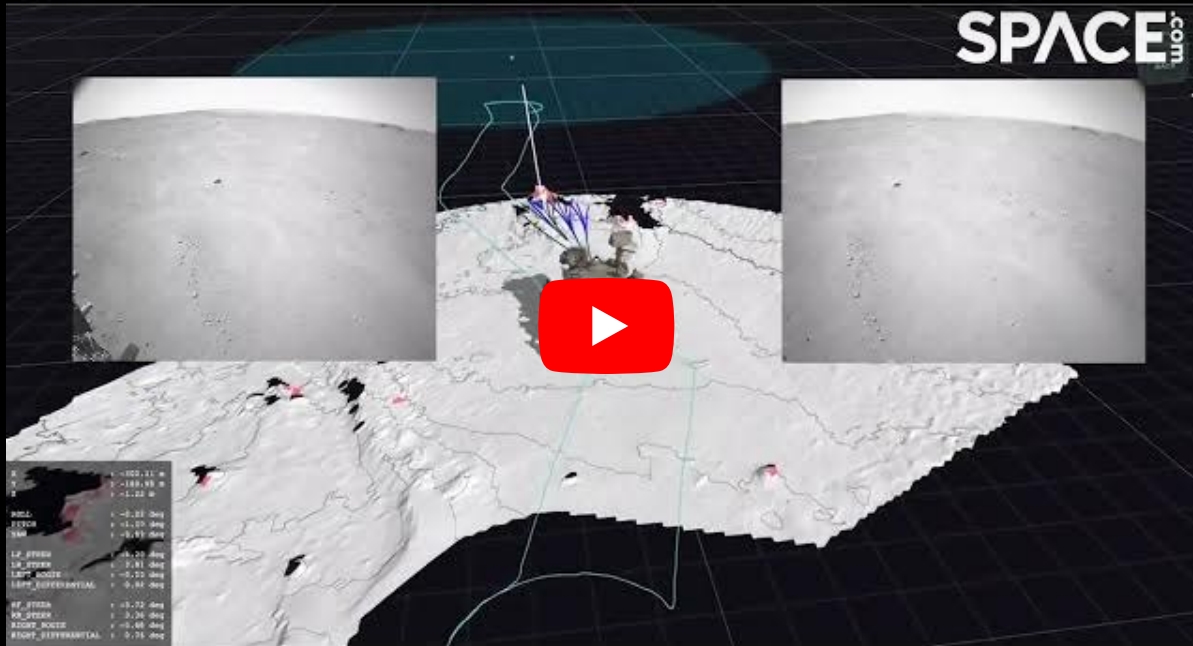
SPACE: Watch Perseverance drive itself on Mars in '...



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Driving on Mars (NASA/JPL, 2021)



NVIDIA

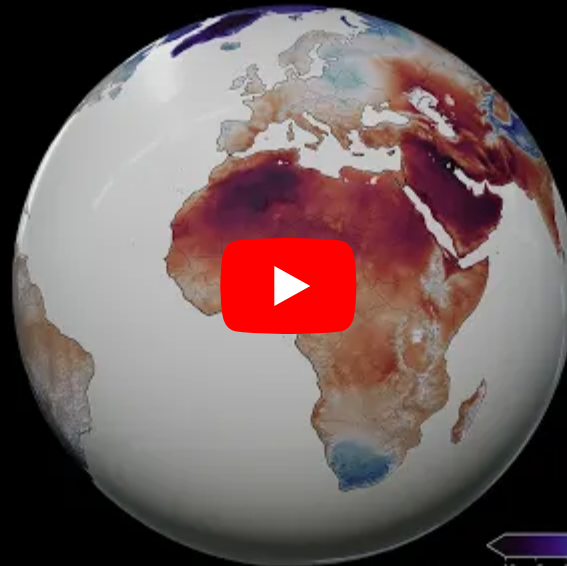
Predicting Extreme Weather Risk Three Weeks i...



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01-July-2018



Predicting extreme weather events (NVIDIA, 2023)



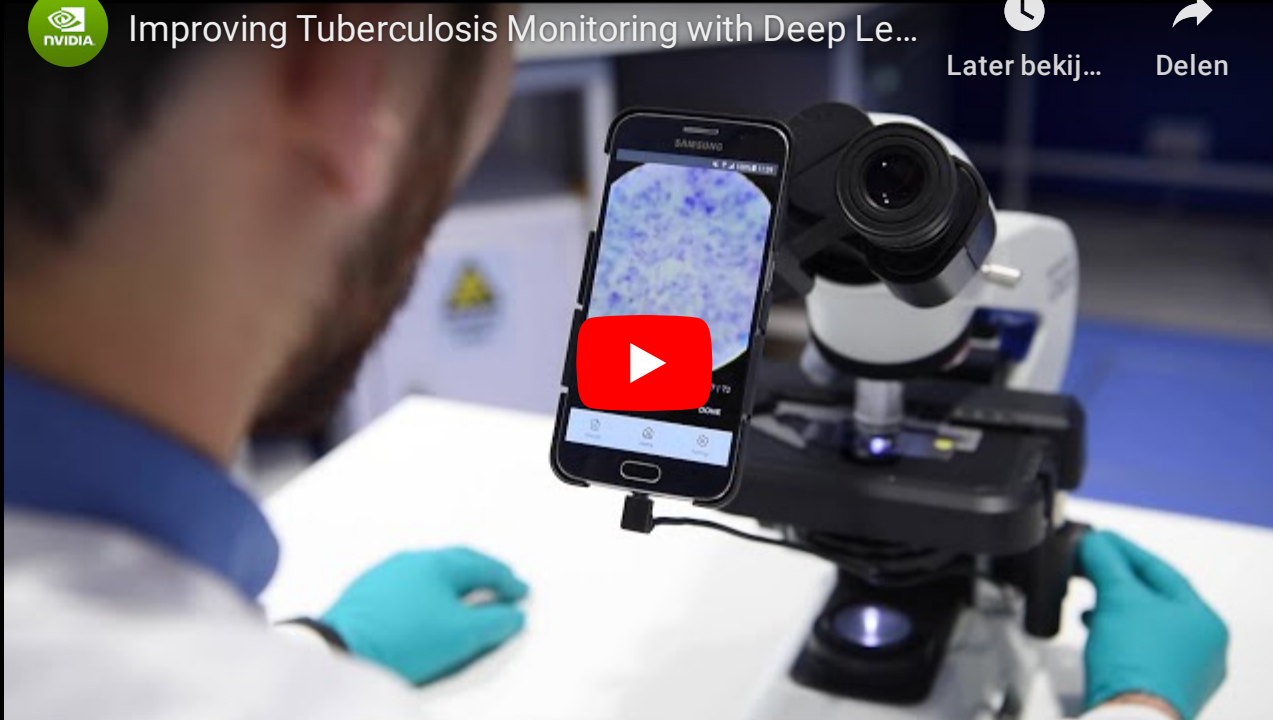
Improving Tuberculosis Monitoring with Deep Le...



Later bekij...



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Improving Tuberculosis Monitoring with Deep Learning (NVIDIA, 2020)



AlphaFold: The making of a scientific breakt...



Later bekij...



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Solving protein folding (Deepmind, AlphaFold, 2020)



Powering the Future of Clean Energy | I AM ...



Later bekij...



Delen



Powering the future of clean energy (NVIDIA, 2023)



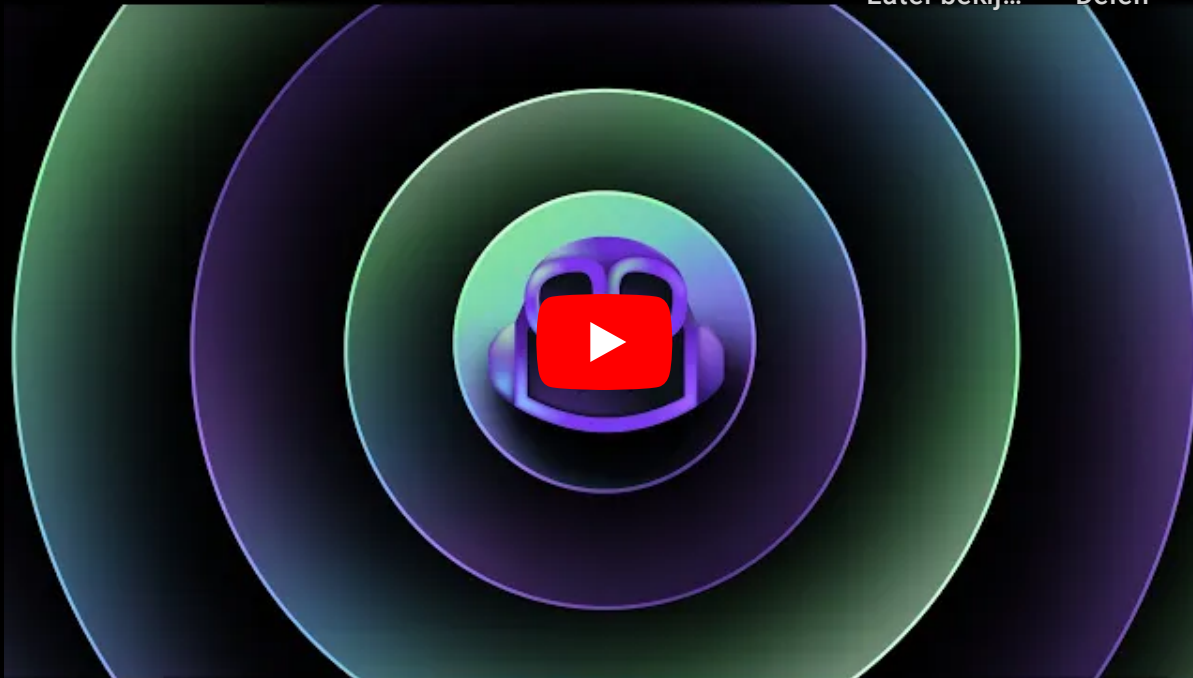
GitHub Copilot X



Later bekij...



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Write computer code (Github Copilot X, 2023)



PICK IT : mieux trier pour mieux recycler



Later bekij...



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Learning to sort waste
(ULiège, 2021)



TFE_DEMO_DEF



Link kopiër...



AMERD



Real-Time Behaviour Recognition

Cow behaviour recognition (Francois Lievens, ULiège, 2022)