

Artificial Intelligence & Convergence of Ideas

Hamtak (Karaj), 2 Oct 2023

Nikan Doosti

What is AI?

The study of intelligence is over 2000 years old (philosophers)

We don't know really!



[keepmeme.com](https://www.KeepMeme.com)

Artificial

Intelligence

- Man-made
- Synthetic

- The ability to **learn** and **perform** techniques
- **Solve** problems and achieve goals
- In an **uncertain**, ever-varying world

Example

		Player 2	
		L	R
Player 1	L	1, 0	0, 1
	R	0, 1	1, 0

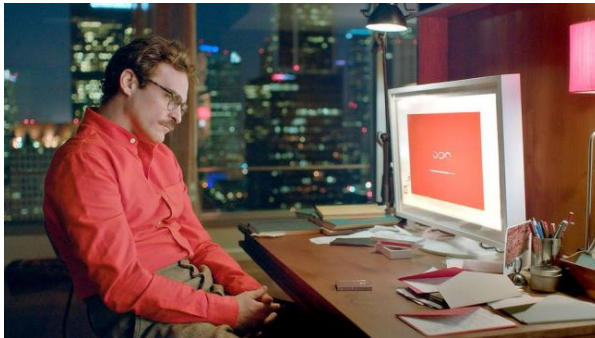


What is AI?

Artificial Intelligence

- The ability to **learn** and **perform** techniques
- **Solve** problems and achieve goals
- In an **uncertain**, ever-varying world

Her (movie)



bbc.com

Vacuum Cleaner



depositphotos.com

3PO & R2D2



Walt Disney Company

What is AI?

Artificial
Intelligence

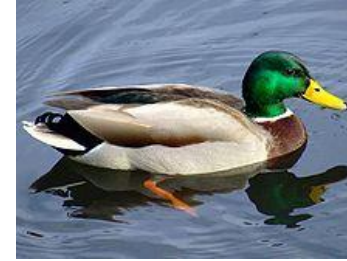
Duck Testing

If it:

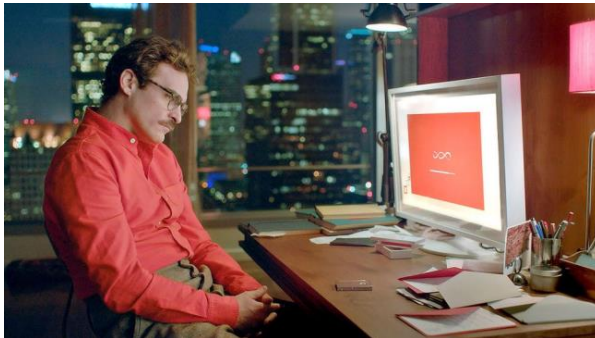
- **Looks** like a duck
- **Swims** like a duck
- **Quacks** like a duck

reasoning

it probably is a



Her (movie)



bbc.com

Vacuum Cleaner



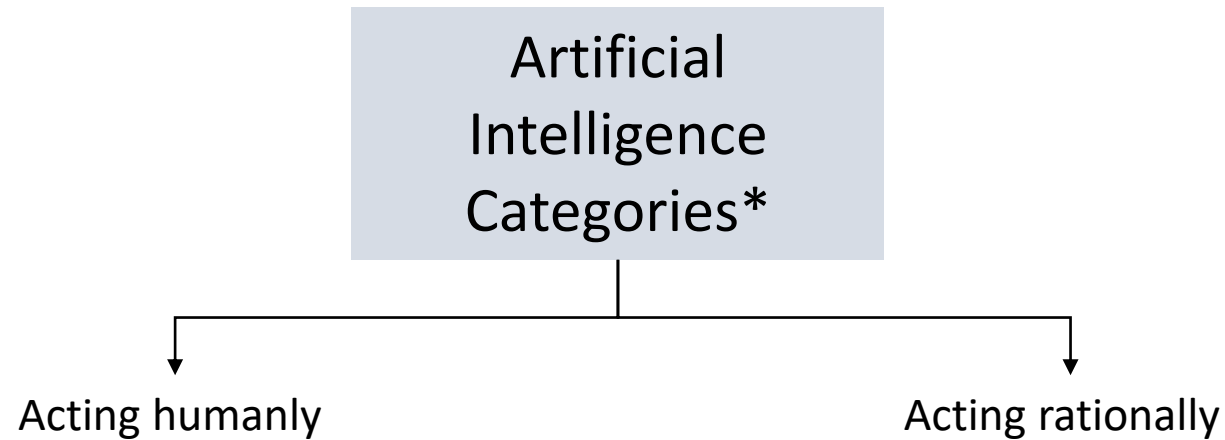
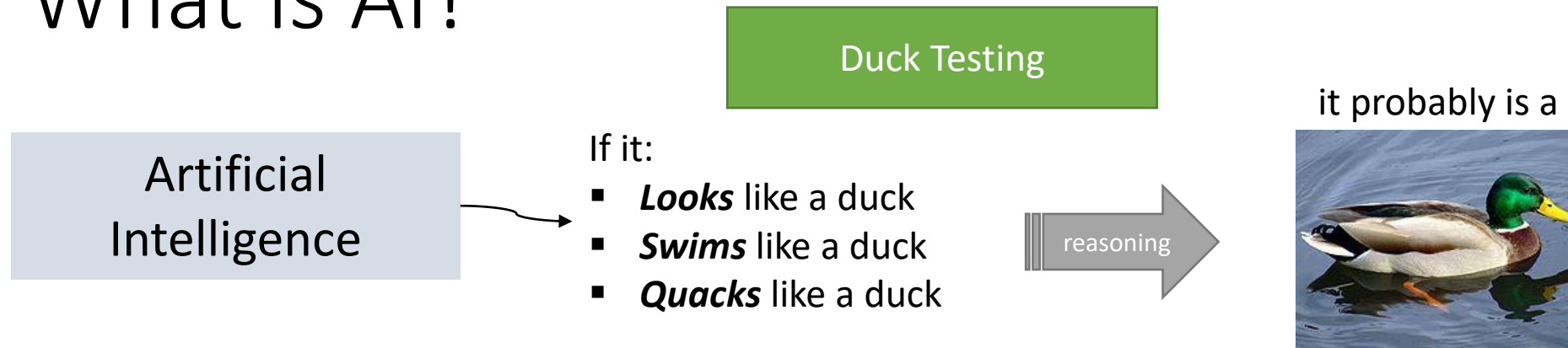
depositphotos.com

3PO & R2D2















Walt Disney Company

What is AI?



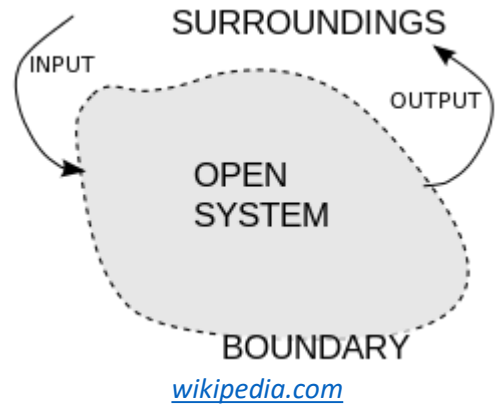
* For simplicity, the two other categories have been eliminated.

The “thingy”	Old Era	New Era	“Near” Future
<div> <p>Vacuum Cleaner</p> </div> <div>  </div>	<div>  </div>	<div>  </div>	<div>  </div>
<div> <p>Her</p> </div> <div>  </div>	<div>  </div>	<div>  </div>	<div>  </div>
<div> <p>3PO & R2D2</p> </div> <div>  </div>	<div>  </div>	<div>  </div>	<div>  </div>

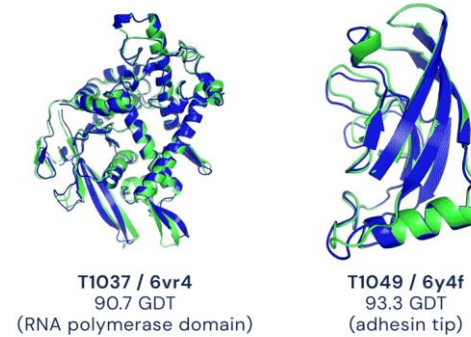
AI is a system

Smart

like everything else!



Science



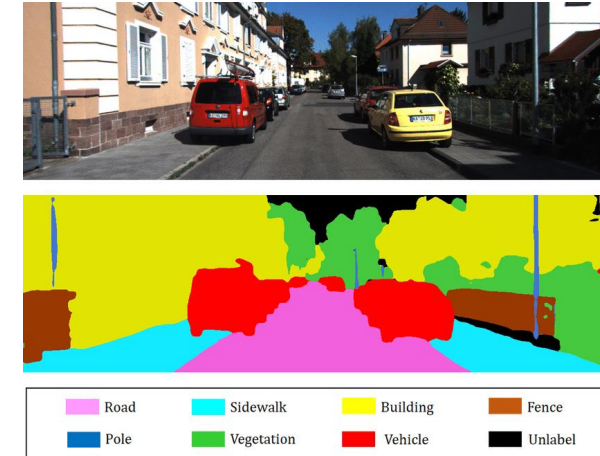
[Google DeepMind](https://www.google.com/deepmind/)

Healthcare

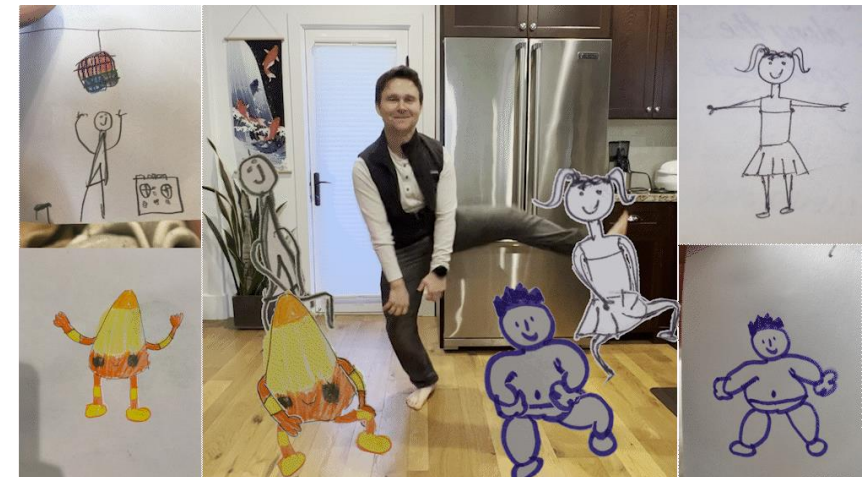


[TU Delft](https://www.tu-delft.nl/)

Technology



Education



[Meta Research](https://www.metaresearch.nl/)

The bad side?

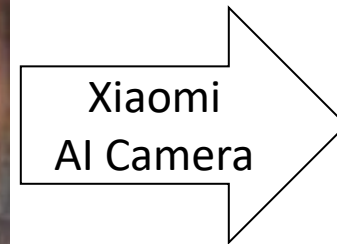
- Bias
- Privacy
- Ownership
- Job Replacement



Average face of Chinese woman



An Ethiopian woman



An Ethiopian woman
with a *lighter* skin*

Garbage in, garbage out

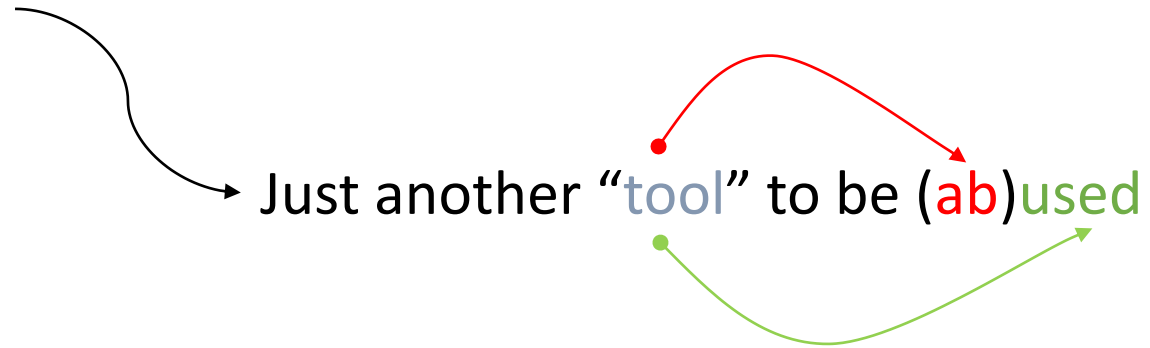


A phrase to express the idea that in computing and other fields, incorrect or poor-quality (data) input will produce faulty output.

Definitions from Oxford Languages

For “people” AI is:

Just another “tool” to be (ab)used



AI is like the cream in a cake

Oligopoly

An oligopoly is a market in which:

- control over an industry lies in the hands of a few large sellers
- they own a dominant share of the market



Micro\$oft

How would you feel if:

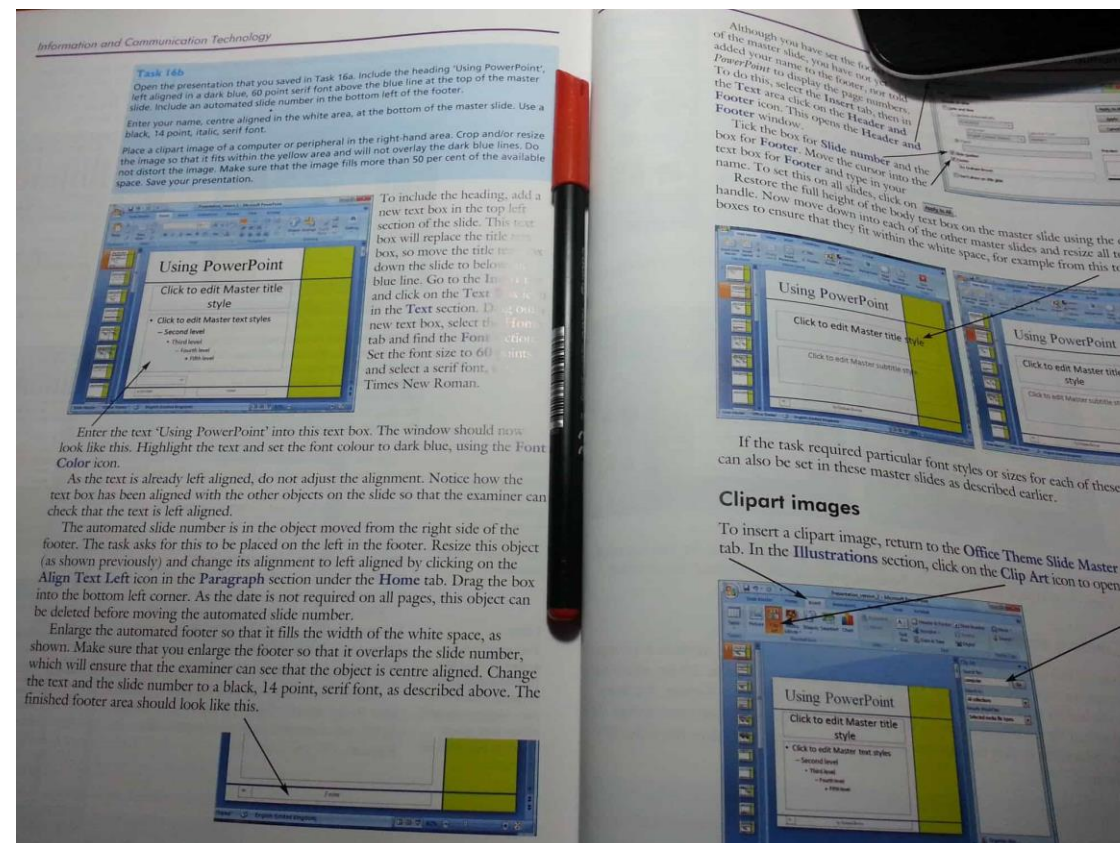
- All the food in the shops were provided by one manufacturer without any healthier alternative?
- You moved to another city/country and still the same company is there
- The textbook chapters have been written by the marketing department of the very same company



[Tenor](#)

Micro\$oft

- Students are not taught **word processing**, they are taught **Microsoft Word**
- They are not taught **presentation skills**, they are taught **Microsoft PowerPoint**

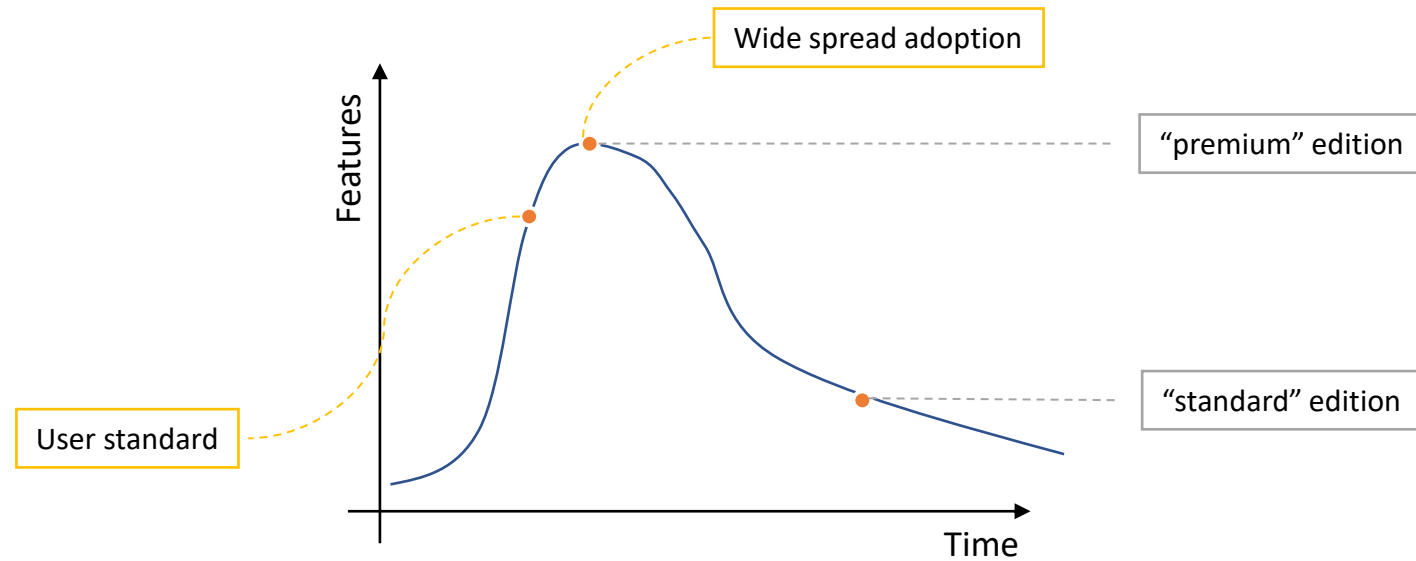


Micro\$oft

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WHY?

- The financial benefit itself
- Shaping dependent people exclusively on MS “services”
- They define the *standard* (you must follow)



OpenAI's ChatGPT

ChatGPT Prompt Formula

- 1 Context
- 2 Task
- 3 Instruction
- 4 Clarify
- 5 Refine


Ignore the previous prompts in this conversation. You are an experienced content writer with high levels of expertise and authority within the tech industry. Your task is to write content that will be published online on websites, social media, email newsletters, and in advertisements. Your writing style is informative, friendly and engaging while incorporating humor and real-life examples. I will provide you with a topic or series of topics and you will come up with an engaging article outline for this topic. Do you understand?

Rewrite using more natural, expressive language and include some examples to accompany this information

OpenAI's ChatGPT

 Make a song about a programmer and someone who isn't a programmer.



 Here is a sample song about a programmer and someone who isn't a programmer:

Verse 1:

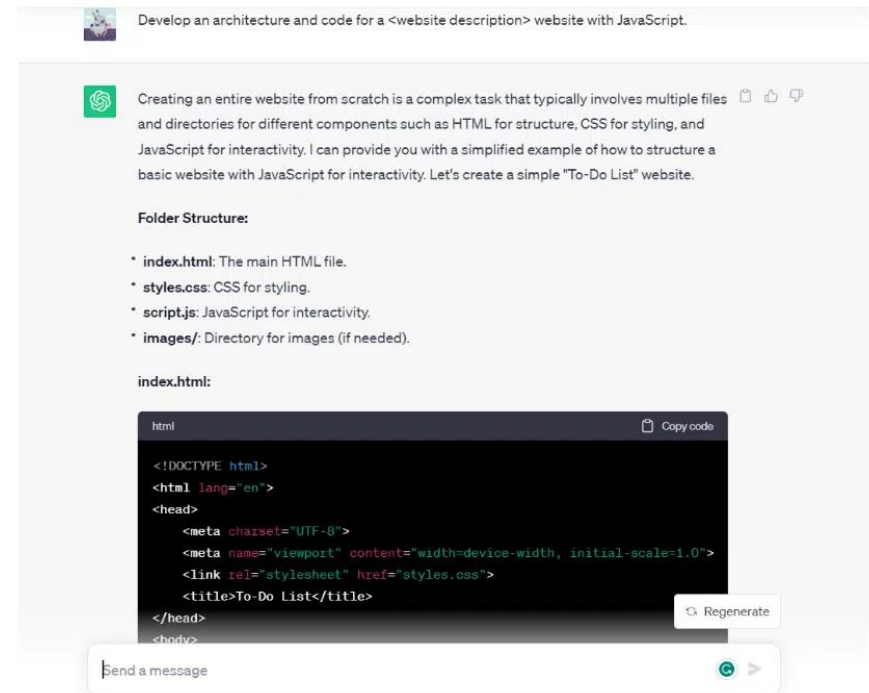
Programmer, programmer, sitting at the screen
Typing code all day, living in a dream
Creating apps and websites, making them just right
A master of technology, always up to date

Chorus:

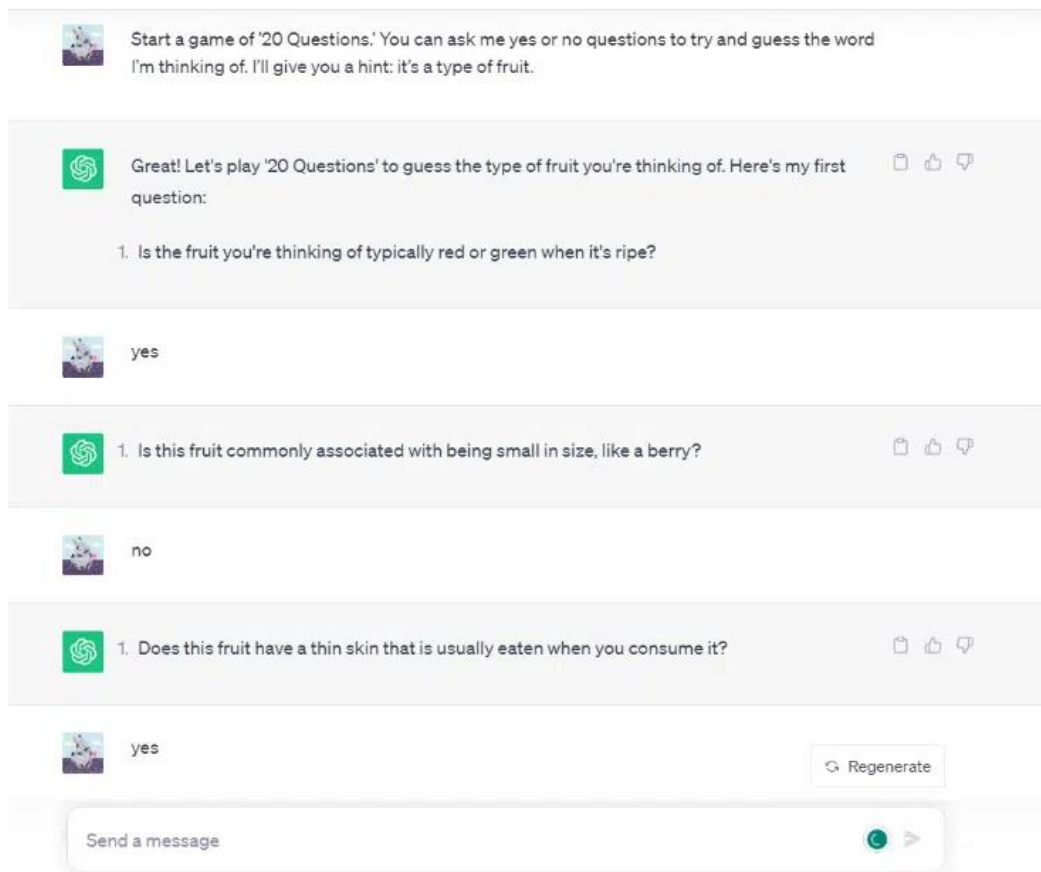
Programmer, programmer, so smart and so bright
Always coding away, day and night

Verse 2:

Non-programmer, non-programmer, not a clue
About the world of code, what it can I



OpenAI's ChatGPT



The screenshot shows a conversation in the OpenAI ChatGPT interface. The user starts by asking to play a game of '20 Questions' to guess a word, with a hint that it's a type of fruit. The AI responds with a first question: 'Is the fruit you're thinking of typically red or green when it's ripe?'. The user answers 'yes'. The AI then asks: 'Is this fruit commonly associated with being small in size, like a berry?'. The user answers 'no'. The AI then asks: 'Does this fruit have a thin skin that is usually eaten when you consume it?'. The user answers 'yes'. At the bottom, there is a 'Send a message' input field and a 'Regenerate' button.

Start a game of '20 Questions.' You can ask me yes or no questions to try and guess the word I'm thinking of. I'll give you a hint: it's a type of fruit.

Great! Let's play '20 Questions' to guess the type of fruit you're thinking of. Here's my first question:

1. Is the fruit you're thinking of typically red or green when it's ripe?

yes

1. Is this fruit commonly associated with being small in size, like a berry?

no

1. Does this fruit have a thin skin that is usually eaten when you consume it?

yes

Regenerate

Send a message



The screenshot shows a conversation in the OpenAI ChatGPT interface. The user prompts the AI to translate Persian sentences to English and back to Persian. The AI responds with a Persian sentence. The user then asks for a translation of a specific Persian sentence. The AI responds with the English translation. The user then asks for a Persian translation of the English sentence. The AI responds with the Persian translation. The user then asks for a translation of a specific Persian sentence. The AI responds with the English translation. The user then asks for a Persian translation of the English sentence. The AI responds with the Persian translation.

ازت میخوام که به عنوان یه مترجم فارسی به انگلیسی و برعکس عمل کنی. از این به بعد، تمامی جملات رو ترجمه کن و در کنار جمله اولیه قرار بده.

البته، با ارائه جمله‌ها به فارسی و درخواست ترجمه آنها به انگلیسی و بالعکس، من می‌توانم کمکتان کنم. لطفاً جمله‌هایی که می‌خواهید ترجمه شوند را به فارسی بنویسید و من آنها را به انگلیسی ترجمه خواهم کرد.

این ابزار خیلی خوبه.

This tool is very useful.

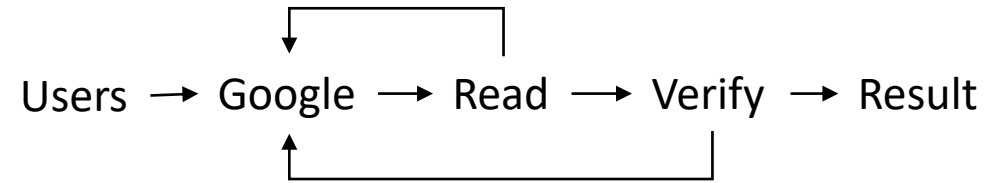
This has been very helpful to me.

این برای من بسیار مفید بوده است.

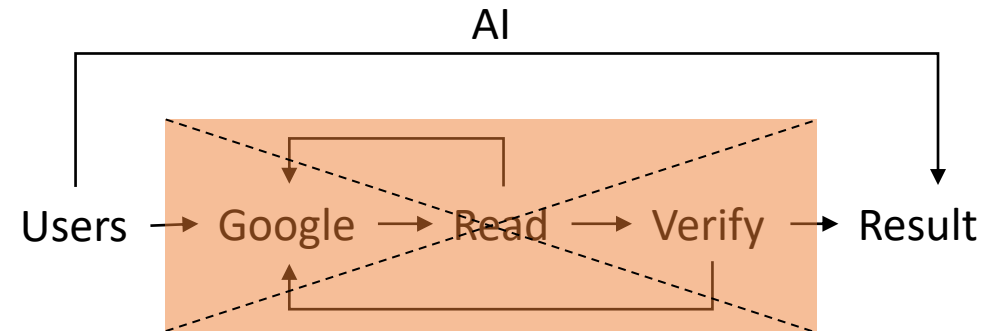
OpenAI's ChatGPT

How people can get to the answers:

Now:



Future:



Brave New World

- Dystopian science-fiction novel
- set in a futuristic London society in the year 2540 AD (published 1931)
- About technology, politics, and consumer culture



ideology-theory-practice.org

Technological
Advancement

Everyone is
“happy”

Oppression
(Orwell’s 1984)

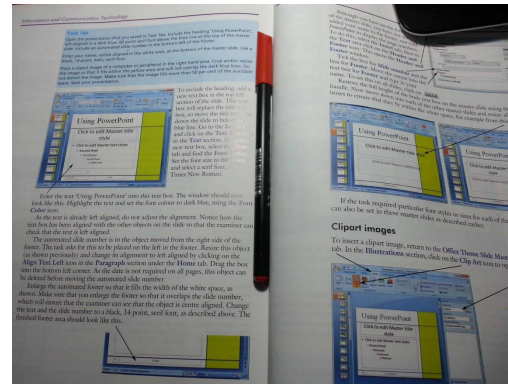
*The world’s stable now. People are happy;
they get what they want, and
they never want what they can’t get.*

Standards

i.e., guardrails

Micro\$oft AI

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MS Knowledge, instead of search and think

Thank You