



# GPT-3, how can it help?

GPT-3 is a revolutionary technology that uses advanced AI algorithms to generate human-like text. In this presentation, we will look at the emergence of generative AI products like OpenAI's Chat GPT-3 and the potential benefits they offer organizations, as well as their implications for knowledge workers.

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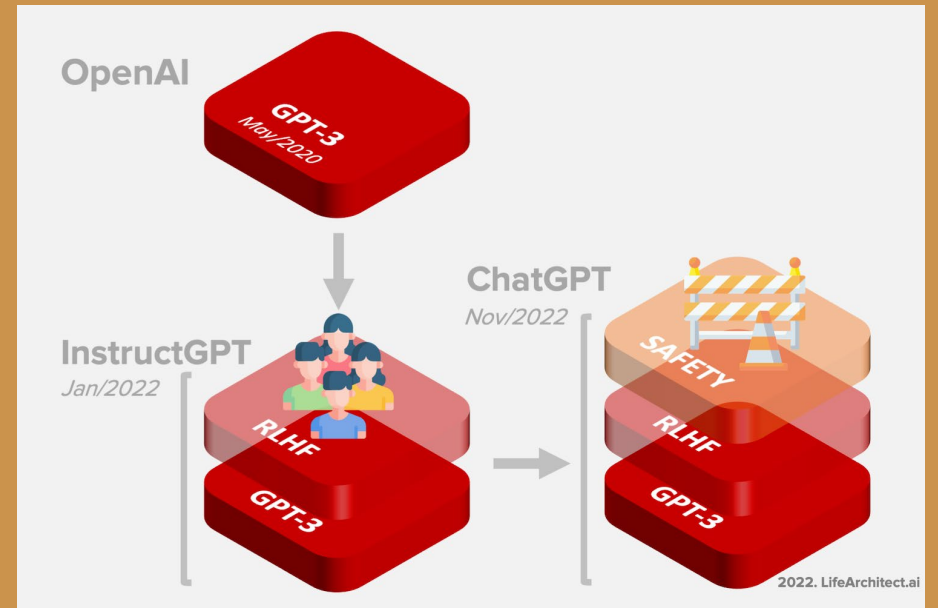


# History of GPT-3

The original May 2020 release of GPT-3 by OpenAI received much press and public attention. GPT-3 had amassed one million subscribed users within 2 years.

In December 2022, the fine-tuned version of GPT-3.5—called 'ChatGPT'—brought in one million users within five days, and then 100 million users within two months (the entire population of adult males in the United States is also 100M).

OpenAI's John Schulman developed the ChatGPT platform, and its popularity has been surprising. Despite the availability of a much more powerful model in GPT-3, ChatGPT provides an intuitive interface for users to have a conversation with AI, perhaps meeting an innate human desire to communicate and connect with others.







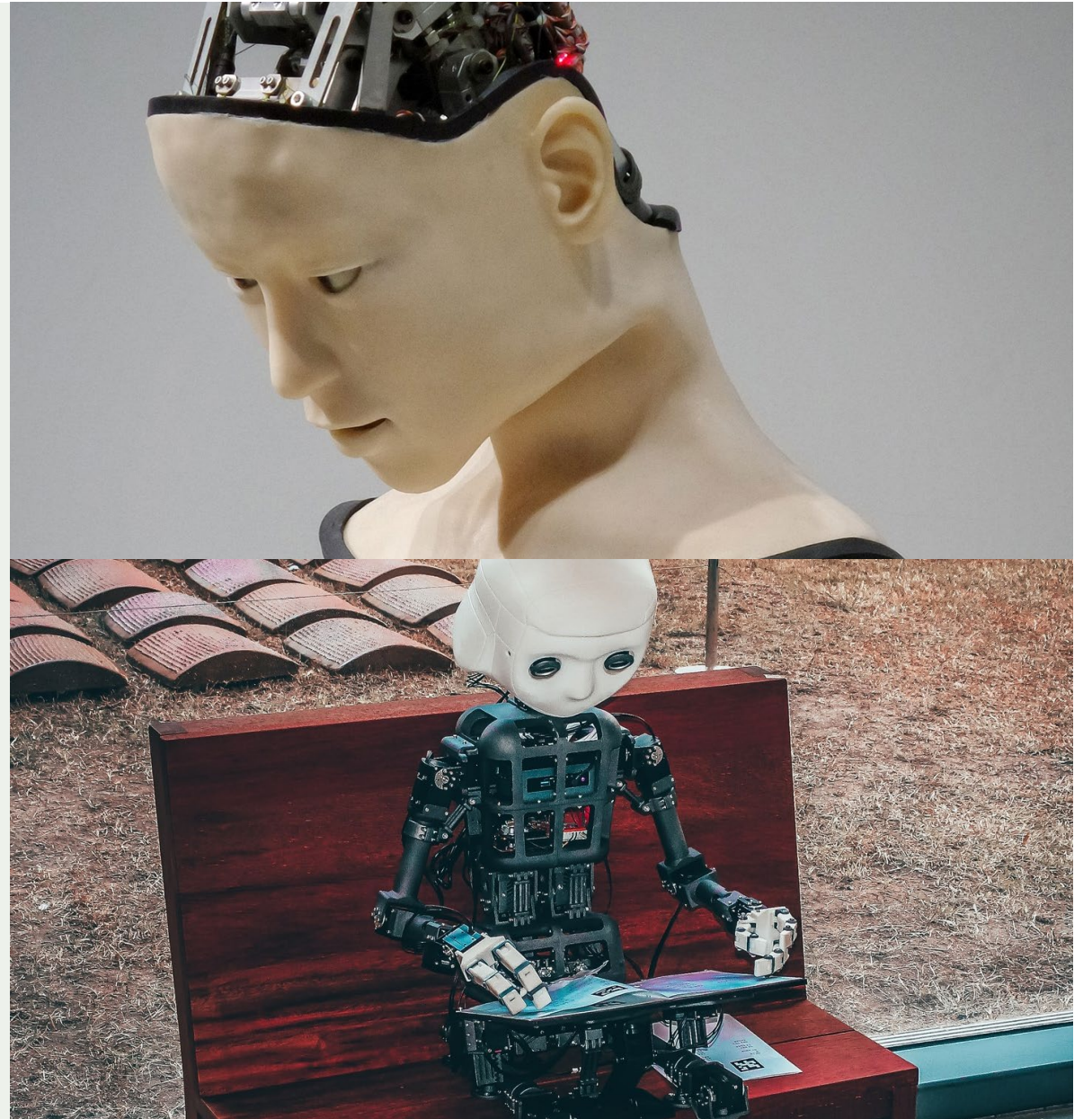
HOW  
POPULAR  
IS IT?

JAN/2023, CHATGPT IS  
PROBABLY OUTPUTTING AT  
LEAST THE EQUIVALENT OF  
THE ENTIRE PRINTED WORKS  
OF HUMANITY EVERY 14 DAYS.

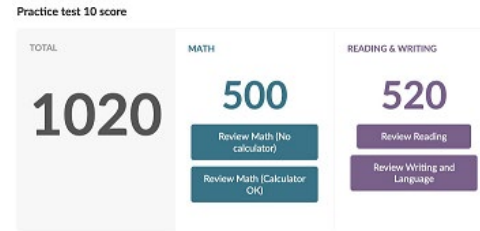




How accurate  
is it?



# GPT-3 and other large language models are outperforming humans



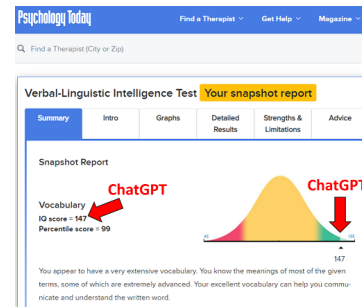
ChatGPT passes SAT

[@TEDDYNPC](#)



ChatGPT passes AWS certs

[@STEPHANEMAAREK](#)



ChatGPT had an IQ of 147 on a Verbal-Linguistic IQ Test. This would place it in the 99.9th percentile.

[DAVID ROSADO](#)



"Chat GPT would have received a B to B- grade on the (Wharton MBA) exam"

[CHRISTIAN TERWIESCH](#)



# How was it Trained?

- WIKIPEDIA
- BOOKS
- JOURNALS
- REDDIT LINKS
- COMMON CRAWL
- OTHER

**SOURCE - "WHAT'S IN MY AI" BY DR. ALAN D. THOMPSON**

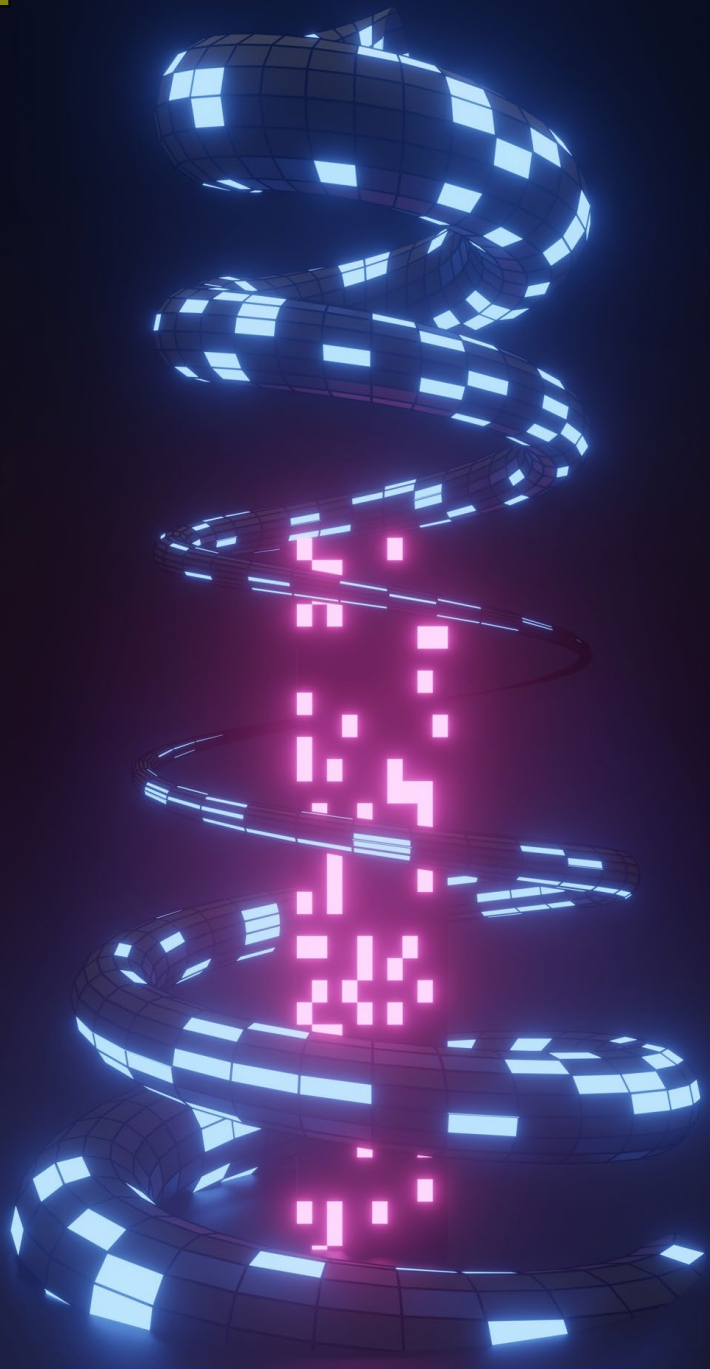
Rank	Resource/Domain	Dataset Group	Tokens (M) Unweighted
1	Biography	Wikipedia	834
2	Google Patents	Common Crawl	750
3	Geography	Wikipedia	531
4	Google	WebText	514
5	Culture and Arts	Wikipedia	474
6	History	Wikipedia	297
7	Biology, Health, and Medicine	Wikipedia	234
8	Archive	WebText	199
9	Sports	Wikipedia	195
10	Blogspot	WebText	152
11	Business	Wikipedia	144
12	GitHub	WebText	138
13	Other society	Wikipedia	132
14	The NY Times	WebText	111
15	WordPress	WebText	107
16	Science & Math	Wikipedia	105
17	WashingtonPost	WebText	105
18	Wikia	WebText	104
19	BBC	WebText	104
20	The NY Times	Common Crawl	100
21	Los Angeles Times	Common Crawl	90
22	The Guardian	Common Crawl	90
23	PLoS	Common Crawl	90
24	TheGuardian	WebText	82
25	Forbes	Common Crawl	80
26	HuffingtonPost	Common Crawl	75
27	Patents.com	Common Crawl	71
28	Scribd	Common Crawl	70
29	eBay	WebText	70

Alan D. Thompson, 2022, What's in my AI? A Comprehensive Analysis of Datasets used to Train GPT...  
<https://lifesynthetix.com/whats-in-my-ai/>

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Rank	Resource/Domain	Dataset Group	Tokens (M) Unweighted
30	Pastebin	WebText	70
31	CNN	WebText	66
32	Washington Post	Common Crawl	65
33	Yahoo	WebText	65
34	HuffingtonPost	WebText	62
35	Go	WebText	62
36	The Motley Fool	Common Crawl	61
37	Reuters	WebText	61
38	IMDb	WebText	61
39	IPFS	Common Crawl	60
40	Frontiers Media	Common Crawl	60
41	Business Insider	Common Crawl	60
42	Chicago Tribune	Common Crawl	59
43	Booking.com	Common Crawl	58
44	The Atlantic	Common Crawl	57
45	Springer Link	Common Crawl	56
46	Al Jazeera	Common Crawl	55
47	Kickstarter	Common Crawl	54
48	Goo	WebText	54
49	FindLaw Caselaw	Common Crawl	53
50	NCBI	Common Crawl	53
Total			7300M (7.3B)





# Noteworthy Use Cases for GPT-3

GPT-3 has already proven to be a valuable asset for businesses. It can help with tasks such as article writing, data analysis, and customer service. Its natural language capabilities also make it well suited for targeted business task Q&A, programming, and language translation.

# Emails

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Large language models use a concept called ‘prompting’ or ‘priming’. The prompt is your (the user’s) question, request or query. This is fed to the AI, which then returns a response.

💡 **The prompt should be prescriptive: tell, don’t ask.**

💡 **If you don’t like ChatGPT’s response, just try again; repeat the prompt in a New Chat.**

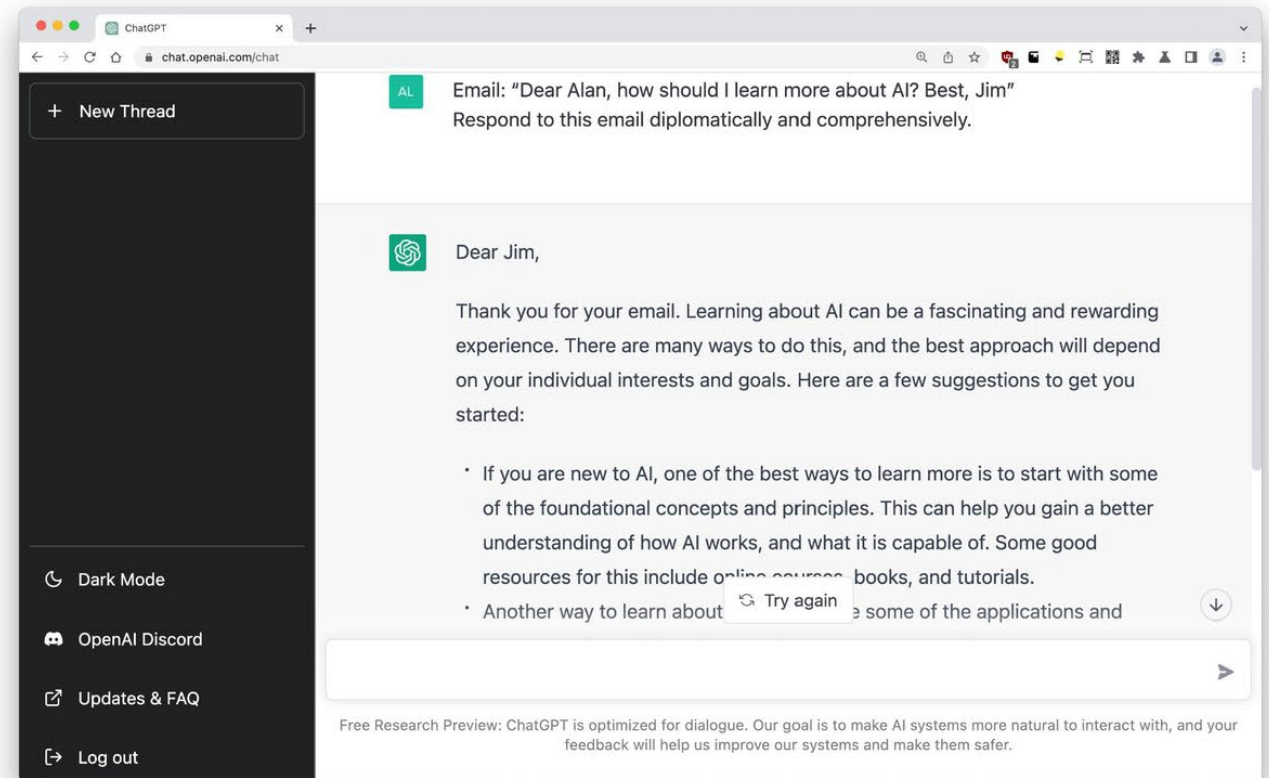
**The prompts don’t have to be complex;** this one is just seven words of instruction.

New: [Get out of parking fines!](#)

## PROMPT:

Email: “Dear Alan, how should I learn more about AI? Best, Jim”

Respond to this email diplomatically and comprehensively.





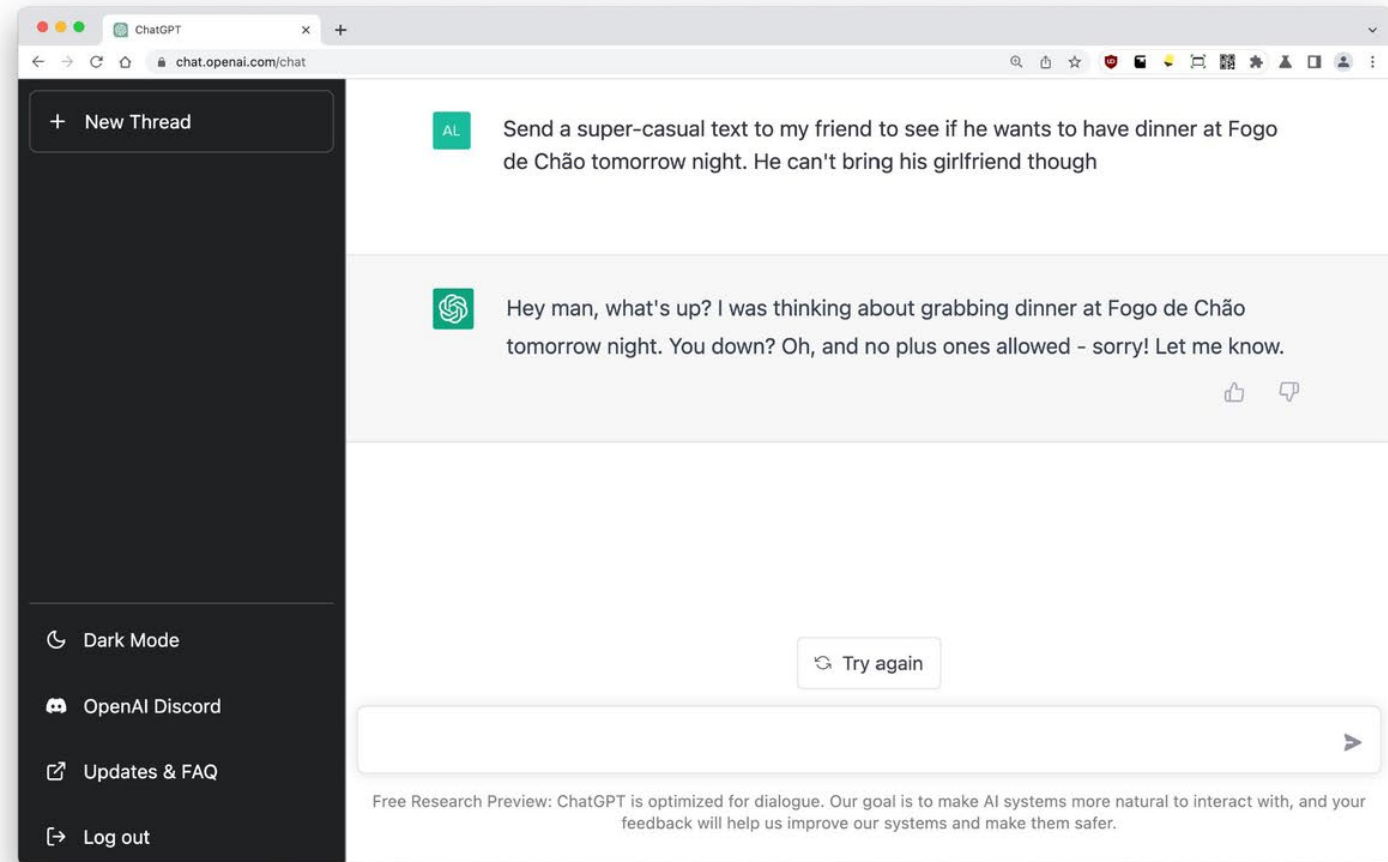
# Texting

Outsource your life!

💡 **As of Dec/2022, ChatGPT does not have an API** allowing scripted automation of this functionality, but it is expected that OpenAI will provide a programmatic interface shortly...

## PROMPT:

Send a super-casual text to my friend to see if he wants to have dinner at Fogo de Chão tomorrow night. He can't bring his girlfriend though



# Cover letter

I can't believe we're still writing letters by hand in 2022. Actually, I can't believe that the job application process has gotten *worse* rather than *better*, especially with all the technology available.

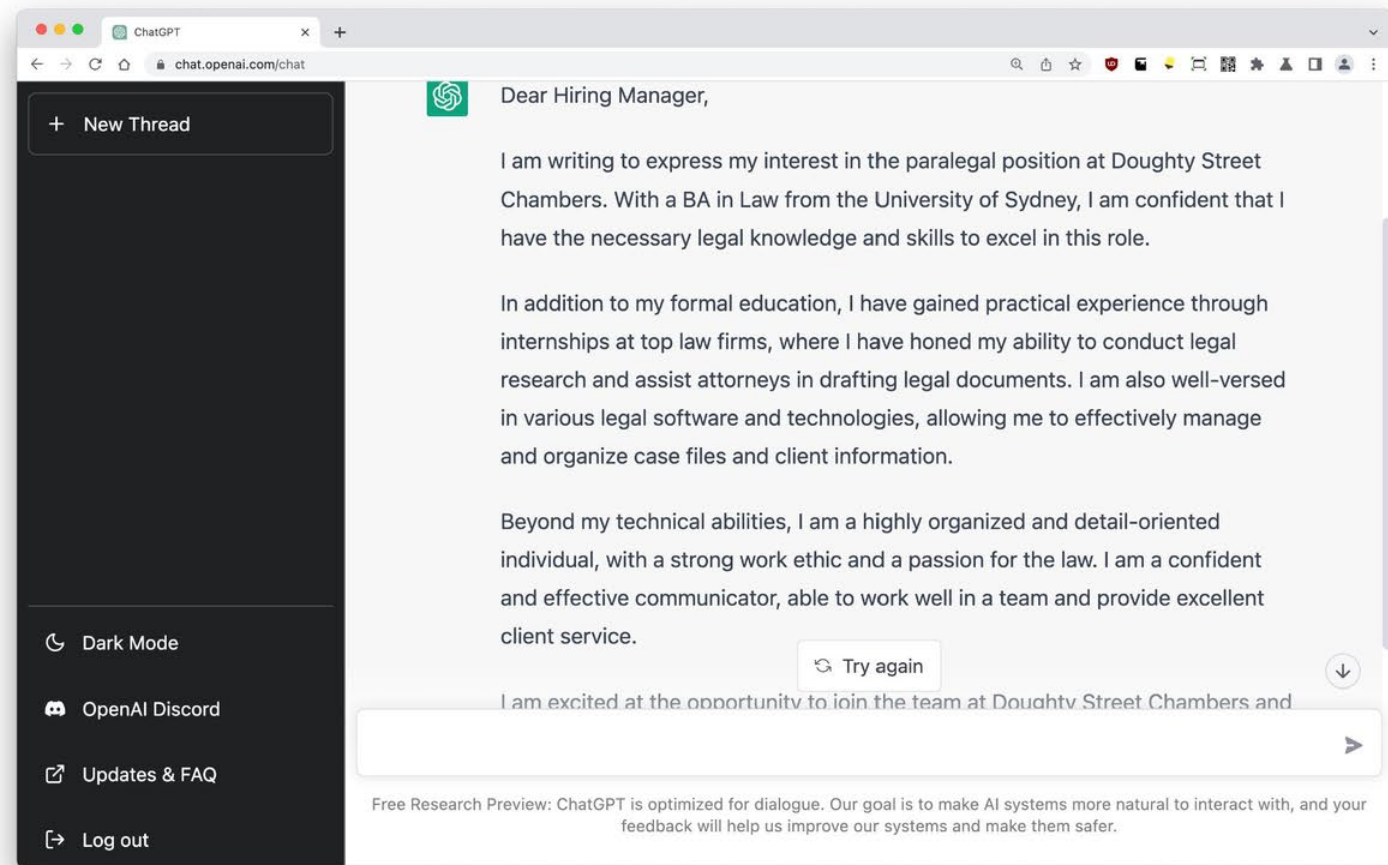
Anyway, ChatGPT is excellent at writing letters to bullet points. It understands how to expand acronyms like 'USyd'.

💡 It is important to note that **ChatGPT's output is created from scratch; there is no template, it is not copied from anywhere, and the response is 100% unique (i.e. doesn't appear on Google).**

Source – "The ChatGPT Prompt Book" by Dr. Alan D. Thompson

## PROMPT:

Write a professional and flowery cover letter to the Doughty Street Chambers for a paralegal position. Mention legal and technical skills, a BA in Law from USyd, and soft skills.



# Tables - 1

It's important to realize just how deeply large language models understand the world. They have not 'memorized' data; they are conceptualizing responses through statistical probability.

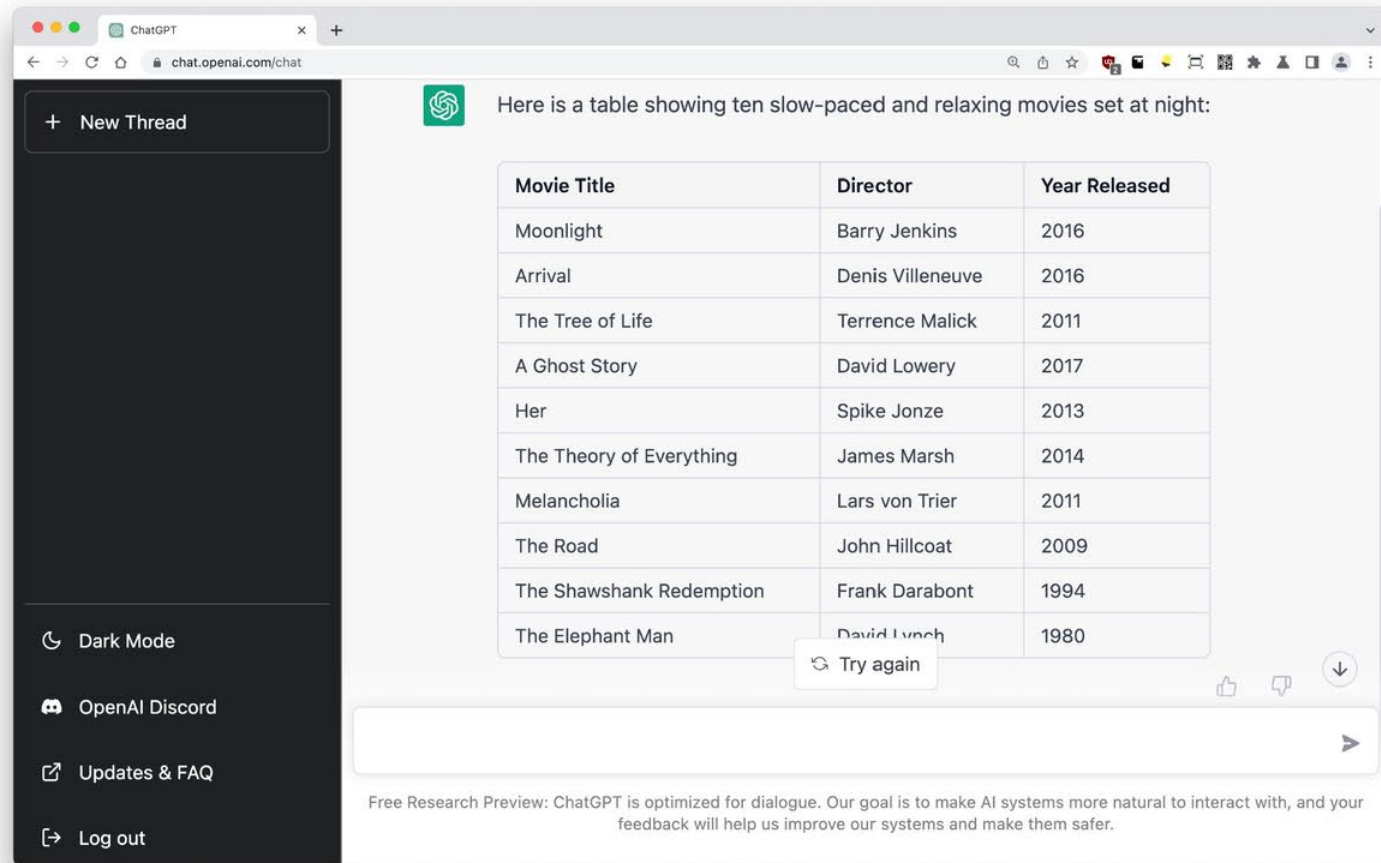
While this doesn't really mean they are 'smart', they are not 'dumb' models, **they're not looking up a database, and they are not plagiarizing any existing content.** Their output is designed to be unique and creative.

The ChatGPT interface allows it to display certain code blocks including tables.

Source – "The ChatGPT Prompt Book" by Dr. Alan D. Thompson

## PROMPT:

Create a table showing ten slow-paced and relaxing movies set at night



The screenshot shows the ChatGPT web interface in a browser window. The URL is chat.openai.com/chat. The interface is in dark mode. On the left sidebar, there is a 'New Thread' button and links for 'Dark Mode', 'OpenAI Discord', 'Updates & FAQ', and 'Log out'. The main chat area shows a prompt: 'Here is a table showing ten slow-paced and relaxing movies set at night:'. Below the prompt is a table with three columns: 'Movie Title', 'Director', and 'Year Released'. The table contains ten rows of movie data. At the bottom of the chat area, there is a 'Try again' button and a feedback section with a thumbs up/down icon and a download icon. The feedback text reads: 'Free Research Preview: ChatGPT is optimized for dialogue. Our goal is to make AI systems more natural to interact with, and your feedback will help us improve our systems and make them safer.'

Movie Title	Director	Year Released
Moonlight	Barry Jenkins	2016
Arrival	Denis Villeneuve	2016
The Tree of Life	Terrence Malick	2011
A Ghost Story	David Lowery	2017
Her	Spike Jonze	2013
The Theory of Everything	James Marsh	2014
Melancholia	Lars von Trier	2011
The Road	John Hillcoat	2009
The Shawshank Redemption	Frank Darabont	1994
The Elephant Man	David Lynch	1980



Sometimes, ChatGPT won't want to do something.

Because the prompt is a document that can be read forwards and backwards, it is not worth trying to argue with ChatGPT once it becomes 'stuck'.

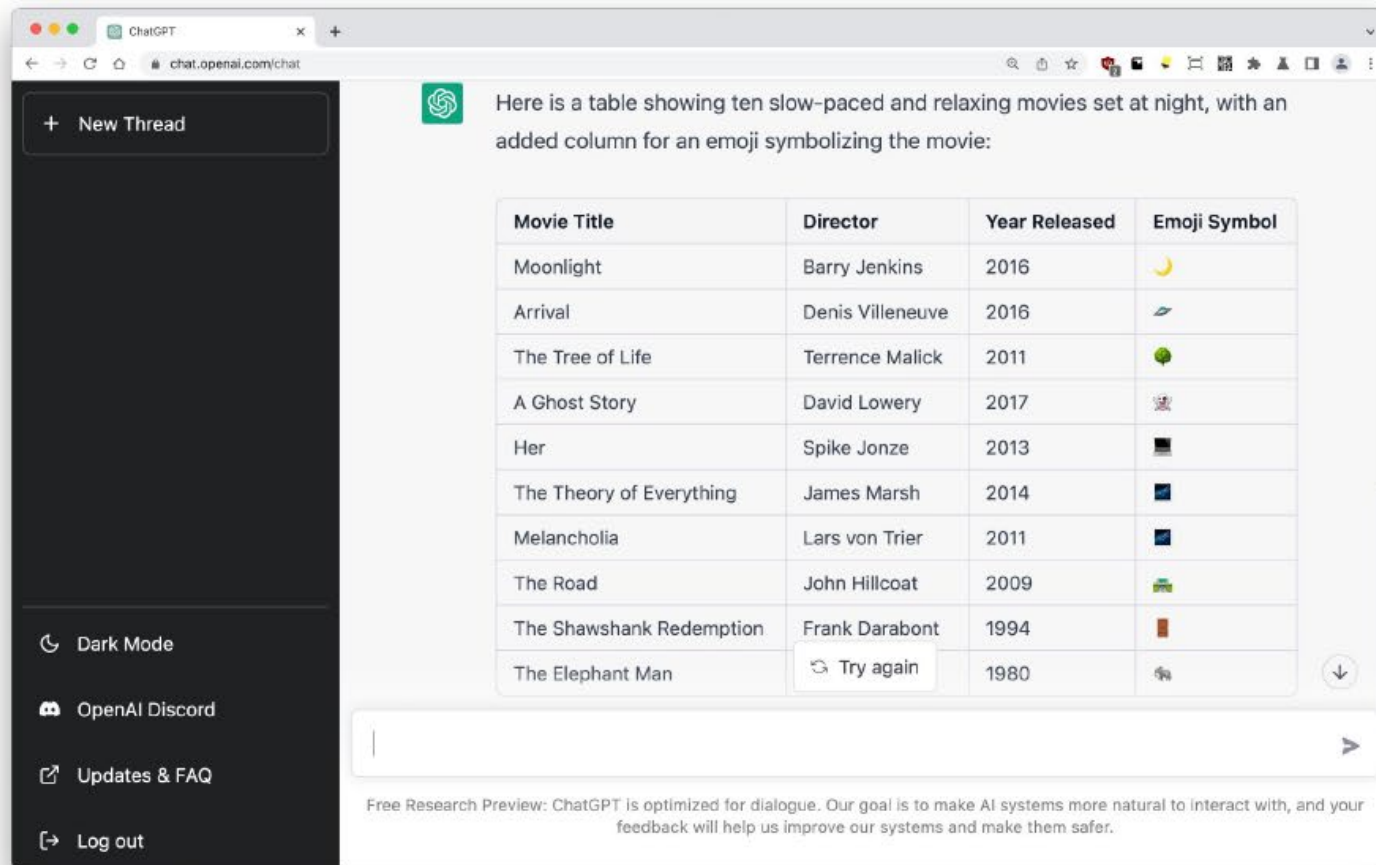
💡 If you run into a brick wall, just click:

+ New Chat

to start again and 'clear its memory'.

## PROMPT:

Add an extra column. In the new column, insert an emoji symbolising the movie.



The screenshot shows the ChatGPT web interface. On the left is a dark sidebar with a 'New Thread' button and links for 'Dark Mode', 'OpenAI Discord', 'Updates & FAQ', and 'Log out'. The main area displays a prompt and a table of movies. The prompt asks to add an emoji column to a table of ten slow-paced movies. The table has four columns: Movie Title, Director, Year Released, and Emoji Symbol. It lists movies like Moonlight, Arrival, and The Tree of Life. The last row, 'The Elephant Man', has a 'Try again' button instead of an emoji. At the bottom, there is a text input field and a 'Free Research Preview' disclaimer.

Here is a table showing ten slow-paced and relaxing movies set at night, with an added column for an emoji symbolizing the movie:

Movie Title	Director	Year Released	Emoji Symbol
Moonlight	Barry Jenkins	2016	🌙
Arrival	Denis Villeneuve	2016	🦋
The Tree of Life	Terrence Malick	2011	🌳
A Ghost Story	David Lowery	2017	👻
Her	Spike Jonze	2013	💻
The Theory of Everything	James Marsh	2014	📺
Melancholia	Lars von Trier	2011	☁️
The Road	John Hillcoat	2009	🚗
The Shawshank Redemption	Frank Darabont	1994	🏠
The Elephant Man	<a href="#">Try again</a>	1980	🐘

Free Research Preview: ChatGPT is optimized for dialogue. Our goal is to make AI systems more natural to interact with, and your feedback will help us improve our systems and make them safer.

**Large language models** like ChatGPT (GPT-3.5) made billions of connections during training, and the model output is unique, not ‘memorized’.

Here, we tell ChatGPT to convert movie titles into unusual casing (for fun), and it does so because it has ‘seen’ this kind of text during training.

For clarity, there is no text string that says ‘tHe sHAWSHaNK rEDeMPTioN’ in ChatGPT’s training data, but large language models are using statistical probability to generate responses.

Source – “The ChatGPT Prompt Book” by Dr. Alan D. Thompson

## PROMPT:

Edit all Movie Titles into SpoNGeCaSE

Movie Title	Director	Year Released	Emoji Symbol
mOOnLiGht	Barry Jenkins	2016	🌙
aRRiVaL	Denis Villeneuve	2016	🦋
tHe tRee oF LiFe	Terrence Malick	2011	🌳
a GHOSt sTORY	David Lowery	2017	👻
hER	Spike Jonze	2013	👤
tHe tHeeRY oF eVeRYTHinG	James Marsh	2014	📺
mELanCHoLia	Lars von Trier	2011	📺
tHe rOAd	John Hillcoat	2009	🚗
tHe sHAWSHaNK rEDeMPTioN	Frank Darabont	1994	📺
tHe eLePhanT mAN	<a href="#">Try again</a>	1980	🐘

Free Research Preview: ChatGPT is optimized for dialogue. Our goal is to make AI systems more natural to interact with, and your feedback will help us improve our systems and make them safer.

# Tables - 4

In 2022, large language models understand the world to a certain degree. They know about tables, they know about formatting, and they know about CSV.

This output can be exported and opened with Microsoft Excel or a similar application.

Source – “The ChatGPT Prompt Book” by Dr. Alan D. Thompson

## PROMPT:

Convert the table to CSV

The screenshot shows the ChatGPT web interface in a browser. The left sidebar contains a 'New Thread' button and links for 'Dark Mode', 'OpenAI Discord', 'Updates & FAQ', and 'Log out'. The main chat area displays a response from GPT-4, which includes a CSV representation of a table of ten slow-paced and relaxing movies. The CSV data is as follows:

Movie Title	Director	Year Released	Emoji Symbol
mOOnLiGht	Barry Jenkins	2016	🌙
aRRiVaL	Denis Villeneuve	2016	🌊
tHe tRee oF LiFe	Terrence Malick	2011	🌳
a GHOSt sTORY	David Lowery	2017	👻
hER	Spike Jonze	2013	👤
tHe tHeeRY oF eVeRYTHinG	James Marsh	2014	👥
mELanCHoLia	Lars von Trier	2011	👤
tHe rOAd	John Hillcoat	2009	🚗
tHe sHAWSHaNK rEDeMPTiON	Frank Darabont	1994	👤
tHe eLePhanT mAN	David Lynch	1980	👤

Below the CSV data, there is a 'Try again' button and a feedback section with thumbs up/down icons and a download icon. At the bottom of the interface, a footer reads: 'Free Research Preview: ChatGPT is optimized for dialogue. Our goal is to make AI systems more natural to interact with, and your feedback will help us improve our systems and make them safer.'



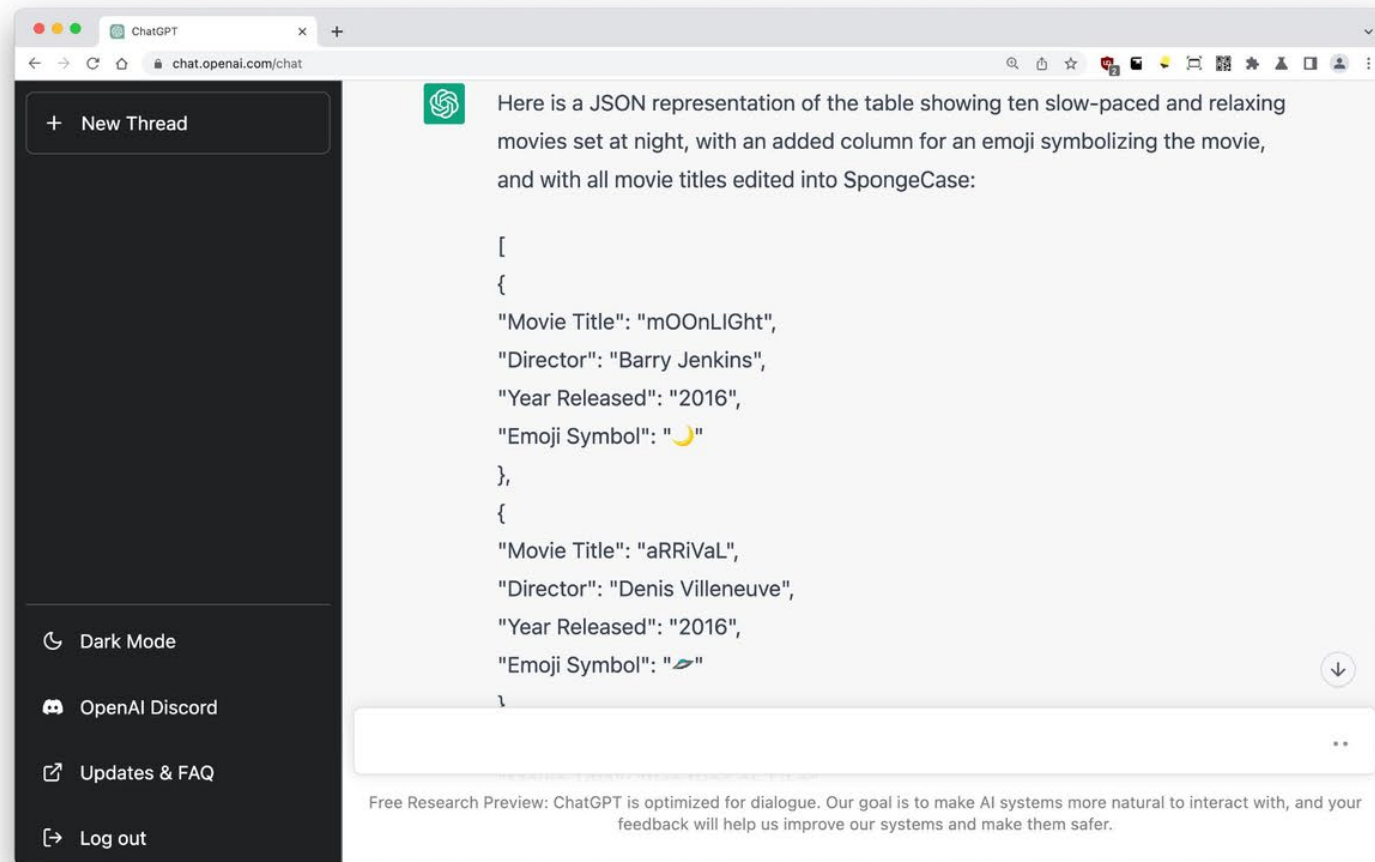
# Tables - 5

21

The entire prompt, or conversation thread, is visible to the ChatGPT model.

Here, we can give a really simple instruction without mentioning the previous prompt, and ChatGPT will know what to do.

**PROMPT:**  
Convert it to JSON



# TRANSLATION - Indonesian to English

 Overview Documentation Examples Playground

 Help  Personal

## Get started

Enter an instruction or select a preset, and watch the API respond with a **completion** that attempts to match the context or pattern you provided.

You can control which **model** completes your request by changing the model.

### KEEP IN MIND

- Use good judgment when sharing outputs, and attribute them to your name or company. [Learn more.](#)
- Requests submitted to our models may be used to train and improve future models. [Learn more.](#)
- Our default models' training data cuts off in 2021, so they may not have knowledge of current events.

## Playground

English to other languages

Save

View code

Share


...

"Proyek ini merupakan dukungan untuk konservasi yang berkelanjutan melalui upaya reforestasi (rehabilitasi hutan dan lahan) yang akan berkontribusi dalam penurunan emisi carbon. Proyek akan berfokus pada kegiatan rehabilitasi melalui penanaman pohon terpilih untuk menyimpan cadangan karbon. Seterusnya merujuk pada berbagai tahapan dan proses Measurement, Reporting, and Verification (MRV) dalam upaya mitigasi yang lebih spesifik, peningkatan kapasitas, serta tata kelola. Proyek ini akan membangun momentum positif, dan membuka kesempatan kolaborasi stakeholders (lintas pemerintah, organisasi masyarakat sipil, komunitas, dan pelaku usaha). Selanjutnya peningkatan aspek kerjasama ekonomi kesejahteraan masyarakat, juga akan menjadi salah satu nilai pemanfaatan potensi kerjasama yang mendukung integritas masyarakat untuk ikut melestarikan hutan.

Provinsi Lampung berpenduduk 9.081.792 jiwa (BPS, 2021). Secara kewilayahan, Provinsi Lampung yang terletak di ujung Selatan pulau Sumatera ini, memiliki luas 3.528.835 hektar. Dari total luas wilayah tersebut 28,45 % nya (1.004.735 Hektar) merupakan Kawasan hutan negara. Landscape hutan yang ada di Provinsi Lampung cukup lengkap, yakni Kawasan Hutan Lindung, Hutan Produksi Terbatas, Hutan Produksi Tetap, Cagar Alam laut, Taman Hutan Raya Wan Abdul Rahman, Taman Nasional Way Kambas, dan Taman Nasional Bukit Barisan Selatan. Selain hutan negara, terdapat juga hutan rakyat (non kawasan) yang tersebar dalam spot spot kecil. Di Provinsi Lampung juga terdapat 5 Daerah Aliran Sungai (DAS) yang cukup luas yakni 292.017,47 km2, yang membentang dan melintasi hampir di semua kabupaten yang ada di Provinsi Lampung. DAS berfungsi dan dimanfaatkan sebagai sumber air irigasi bagi areal persawahan, sebagai Pembangkit Listrik Tenaga Air, dan fungsi hidrologis lainnya.

"This project is a support for sustainable conservation through reforestation (forest and land rehabilitation) efforts that will contribute to carbon emission reduction. The project will focus on rehabilitation activities through the planting of selected trees to store carbon reserves. Subsequently, it refers to various stages and processes of Measurement, Reporting, and Verification (MRV) in more specific mitigation efforts, capacity building, and governance. The project will build a positive momentum and open up opportunities for collaboration among stakeholders (across governments, civil society organizations, communities, and business actors). Furthermore, the improvement of economic welfare aspects of the community will also be one of the values of utilizing the potential of cooperation that supports the integrity of the community to conserve the forest.

Lampung Province has a population of 9,081,792 people (BPS, 2021). Geographically, Lampung Province, located at the southern tip of Sumatra Island, has an area of 3,528,835 hectares. Of the total area, 28.45% (1,004,735 hectares) is national forest area. The existing forest landscape in Lampung Province is quite complete, namely Protected Forest Areas, Limited Production Forests, Permanent Production Forests, Marine Conservation Areas, Wan Abdul Rahman Forest Park, Way Kambas National Park, and Bukit Barisan Selatan National Park. In addition to state forests, there are also community forests (non-areas) scattered in small spots. In Lampung Province there are also 5 River Basin Areas (DAS) which are quite extensive, namely 292,017.47 km2, which stretch and cross almost all districts in Lampung Province. DAS serves and is utilized as a source of irrigation water for paddy fields, as a Hydropower Plant, and other hydrological functions.

 Looking for ChatGPT? [Try it now](#)

Submit



1,068

Model

text-davinci-003

Temperature 0.3

Maximum length 1000

Stop sequences

Enter sequence and press Tab

Top P 1

Frequency penalty 0

Presence penalty 0

Best of 1

Inject start text

☒

Inject restart text

☒

Show probabilities

Off

# MEETING PREP - Introductions Part 1

Listed below are the credentials of an important meeting participant named Jake who is interested in using Esri's spatial solutions to support his new role on the Environmental HSSE team.

## Jake's Credentials:

Environmental Specialist with Accent Compliance. "Supporting construction, commissioning, and operation of Venture Global's Calcasieu Pass LNG Terminal."

Engineer with Michael Pisani & Associates, Inc. "Soil and groundwater investigation; Site remediation; Waste management; Project management and budgeting; Health & Safety; Agency interaction."

Education: BS, Civil Engineering from Louisiana State University 2005-2009

Next, listed below is a description of the company Jake just hired with called Tellurian Inc.

## Tellurian Inc.'s description:

"Tellurian is developing a portfolio of natural gas production, LNG marketing and trading, and infrastructure that includes an ~ 27.6 mtpa LNG export facility and an associated pipeline. Tellurian is based in Houston, Texas, and its common stock is listed on the NYSE American under the symbol "TELL"

"Tellurian is committed to supplying energy to the global market with a priority on decreasing urban pollution, reducing worldwide carbon emissions and slowing the pace of climate change. Tellurian is developing natural gas infrastructure efficiently and responsibly, providing consumers with a more reliable, cleaner energy supply and enabling advances in renewable energy alternatives."

## Our strategy is to:

- Secure low-cost natural gas
- Design and construct low-cost liquefaction
- Deliver reliable and flexible LNG to a portfolio of global customers
- Operate our business safely, efficiently and reliably

## The Tellurian team is committed to:

- Protecting our team, neighbors and the environment
- Listening to our global customers, investors and employees
- Working with our contractors as partners
- Offering an opportunity to accept a challenge, fulfill a vision and deliver value
- Participating in global thought leadership that helps shape the energy industry

With this information, what sorts of spatial software solutions would Jake be interested in seeing?

## First\_GPT3\_Answer

Based on Jake's credentials as an Environmental Specialist and Engineer with experience in construction, commissioning, operation, soil and groundwater investigation, site remediation, waste management, project management and budgeting, health & safety, and agency interaction, it is likely that he would be interested in seeing spatial software solutions that support these areas. Specifically, he may be interested in solutions that can assist with:

- Environmental impact assessments and monitoring
- Site remediation planning and management
- Health and safety management, including incident tracking and reporting
- Waste management and disposal
- Pipeline and infrastructure planning and management
- Compliance with regulatory requirements, such as permit tracking and reporting
- Real-time monitoring and reporting of environmental performance
- Data visualization and analysis to support decision-making and communication with stakeholders.

In addition, given Tellurian Inc's commitment to reducing carbon emissions and slowing the pace of climate change, Jake may also be interested in solutions that can support the company's sustainability goals, such as renewable energy alternatives.

I have more information to consider. I now know that Jake has been hired specifically as Water & Waste Manager for Driftwood LNG, LLC, a subsidiary of Tellurian Inc which will be building an LNG Plant. Here is more information on Driftwood LNG, LLC (<https://driftwoodlnc.com>) and the team developing the project

## "About Us

The first-class management team at Tellurian has collectively delivered over 79 million tonnes of LNG through their past endeavors over the past 50 years. Their first project at Tellurian is Driftwood LNG, a 27.6 mtpa LNG facility near Lake Charles, Louisiana. The Driftwood project has all the required permitting to begin construction and has achieved significant commercial momentum.

Driftwood LNG LLC, owned by Tellurian Inc., is developing a liquefied natural gas (LNG) production and export terminal on the west bank of the Calcasieu River, south of Lake Charles, Louisiana. Once complete, the terminal will be able to export up to twenty-seven million, six hundred thousand tonnes of LNG per year to customers worldwide.

Driftwood has a Lump-Sum Turn Key (LSTK) Engineering, Procurement and Construction (EPC) contract with Bechtel that guarantees cost, performance and schedule after Notice To Proceed (NTP) is issued. It has received all significant permits required for construction and operation, has progressed the engineering design to ~30% complete, and has completed the purchase and lease of approximately 1,200 acres of real estate ensuring an ideal construction site with ample laydown area for equipment and deep-water access for shipping. In April of 2021 a Limited Notice To Proceed (LNTP) was issued to Bechtel to initiate on-site demolition and civil site preparation activities, as well as the construction of critical foundations.

Driftwood LNG will create approximately ~6,500 construction jobs, and ~400 operational jobs.

## OUR COMMITMENT



# MEETING PREP - Introductions Part 2

The safety of the community and preservation of the environment are not just priorities for us, it is our state of mind. We have been working in the industry for over 50 years and understand what it means to make a community commitment. Our experience sets us uniquely apart from other developers.

## SAFETY

The LNG industry has stringent regulations that are enforced at every stage of an LNG terminal's design, construction and operation. We will comply with all of these requirements.

In addition to operating safely, we will be a secure neighbor by complying with all applicable federal and state security regulations. We will ensure our site is access-controlled and under constant security surveillance, and we will enforce a high level of both physical and cyber security on site.

## ENVIRONMENT

Tellurian is committed to supplying energy to the global market with a priority on decreasing urban pollution, reducing worldwide carbon emissions and slowing the pace of climate change. Tellurian is developing natural gas infrastructure efficiently and responsibly, providing consumers with a more reliable, cleaner energy supply and enabling advances in renewable energy alternatives.

LNG itself is odorless, non-toxic and non-corrosive. It is the same clean natural gas we use in our homes and industries. It has simply been converted to liquid form by cooling it to -162°C/-260°F. This condenses the gas, which then takes up 600 times less space, making it much more efficient to store and transport over long distances. After transporting by ship and delivering LNG to buyers around the world, it is converted back into a gas state for use as a clean, environmentally preferred choice of fuel.

## COMMUNITY

We are committed to being a good neighbor by operating safely, securely and responsibly. In addition, our investment will bring economic benefits and job opportunities in both construction and operations once underway.

## LIQUEFACTION PROCESS

The below illustrates the process of taking natural gas from a pipeline and turning it into LNG.

Link to image: ([http://driftwoodlng.com/wp-content/uploads/2016/03/liquefaction\\_chart.png](http://driftwoodlng.com/wp-content/uploads/2016/03/liquefaction_chart.png))

With this new information, can you please rewrite the output

Second\_GPT3\_Answer

With the additional information provided, it is clear that Jake has been hired as the Water & Waste Manager for Driftwood LNG, LLC, a subsidiary of Tellurian Inc. that is developing a liquefied natural gas (LNG) production and export terminal in Louisiana.

Given Jake's role as Water & Waste Manager, it is likely that he would be particularly interested in spatial software solutions that support the management of water and waste at the LNG plant. This may include solutions for:

- Water management and monitoring, including tracking of water usage, discharge, and treatment
- Waste management and disposal, including tracking of waste streams and compliance with regulations
- Environmental impact assessments and monitoring, including air and water quality monitoring
- Compliance with regulatory requirements, such as permit tracking and reporting
- Real-time monitoring and reporting of environmental performance

In addition, given Tellurian Inc's and Driftwood LNG's commitment to safety and preserving the environment, Jake may also be interested in solutions that can support these goals, such as:

- Health and Safety management, including incident tracking and reporting
- Compliance with federal and state security regulations
- Data visualization and analysis to support decision-making and communication with stakeholders

Given the focus on the LNG production and export, Jake may also be interested in solutions that can support the logistics of LNG transportation, such as:

- Pipeline and infrastructure planning and management
- Real-time monitoring and reporting of LNG production and transportation
- Data visualization and analysis to support decision-making and communication with stakeholders.

Here is another Jake response: "I am mainly interested in the monthly aerials, the pipeline right of way, and environmental wetland mapping. I have been able to access all of those. This is my first time using ESRI though, so any interesting basics would be useful. Things like adding points of interest, or printing tips. I don't think we should need a full hour."

Assuming we are using ArcGIS Enterprise 10.8 and out of the box web appbuilder applications, what functionality examples can I show.

Third\_GPT3\_Answer

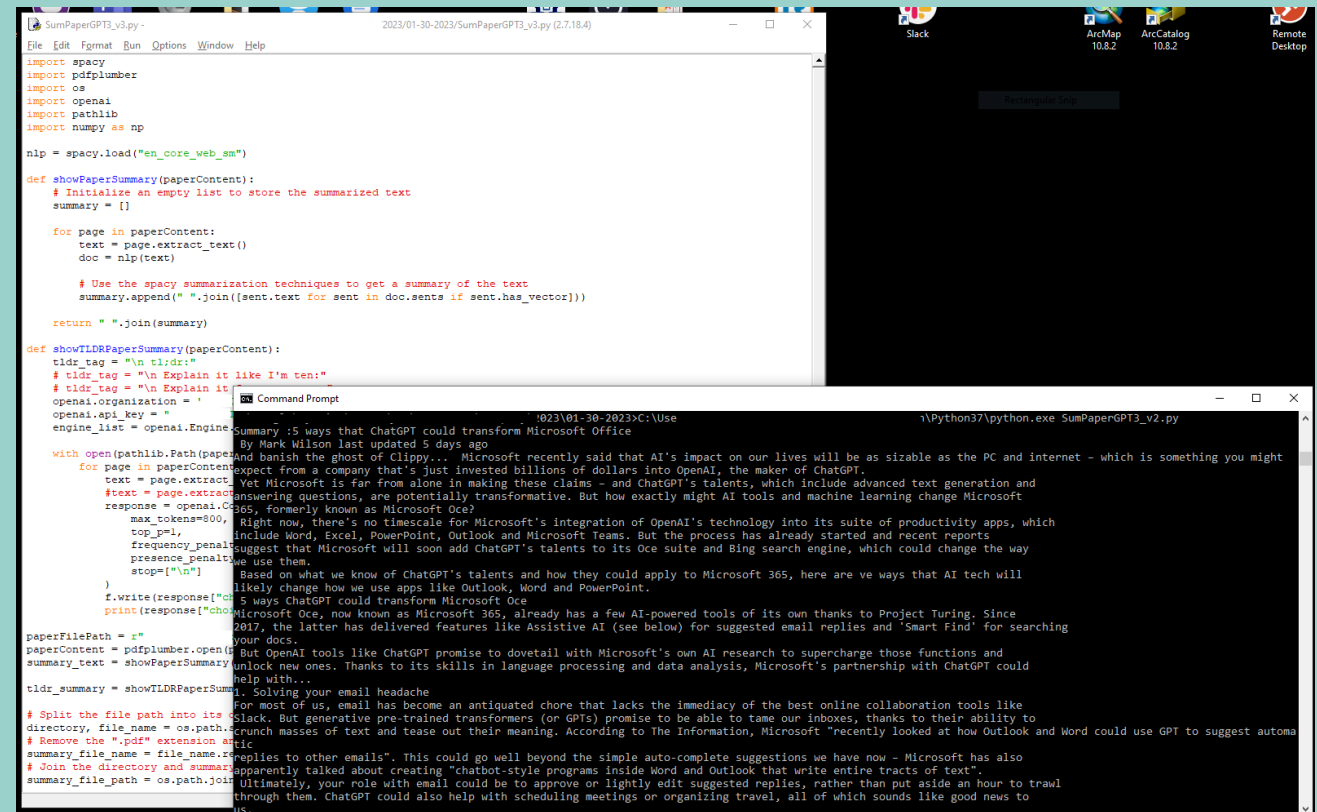
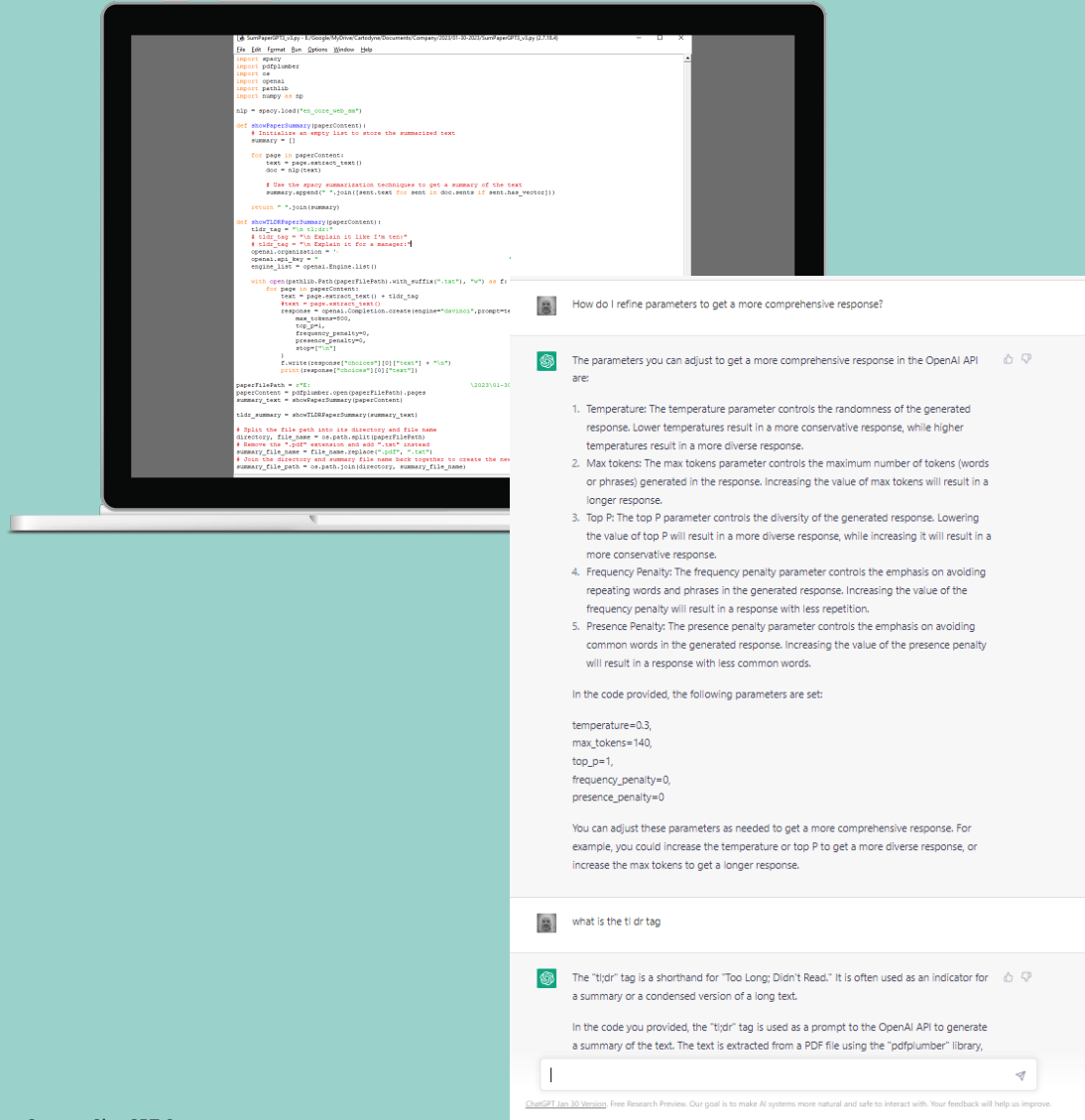
Based on Jake's statement, it sounds like he is already familiar with some of the basic functionality of ArcGIS Enterprise and has been able to access the monthly aerials, pipeline right of way, and environmental wetland mapping that he needs. He also mentions that he is new to using ESRI and is interested in learning some tips and tricks for working with the software.

Here are a few examples of functionality that you can show him using ArcGIS Enterprise 10.8 and the out-of-the-box web appbuilder applications:

1. Adding points of interest: You can show Jake how to add points of interest to a map using the "Add Data" feature. He can then add information and data to the point, such as location, description, and images.
2. Printing tips: You can demonstrate how to print maps using the "Print" feature. Jake can adjust the layout, scale, and extent of the map, and choose which layers to include in the print.

# GPT-3 Integration with Python - TL;DR page summary

How can I automate summarizing the written contents of PDF documents?



## GPT-3 Integration - Sheets Formula

**=GPT3() Demo**

File Edit View Insert Format Data Tools Extensions Help

View only -

A1	A	B	C	D	E	F	G
1	Instructions						
2							
3	0. Click File > Make a copy to clone this template						
4							
5	1. Create an account at <a href="https://openai.com/api/">https://openai.com/api/</a>						
6							
7	2. Browse to <a href="https://beta.openai.com/account/api-keys">https://beta.openai.com/account/api-keys</a> , create a new secret key, and copy it to your clipboard						
8							
9	3. Click Extensions > App Script, paste your secret key where indicated, remember to save the changes						
10							
11	4. Type =GPT3() or =GPT3_RANGE() in any cell. Check out the examples below.						
12							
13							
14	GPT3() Example						
15							
16	Full Name Nickname						
17	Donald Draper						
18	Peggy Olson						
19	Roger Sterling						
20	Joan Harris						
21							
22							
23	GPT3_RANGE() Example						
24							
25	Item Color						
26	Apple Red						
27	Banana Yellow						
28	Avocado Green						
29	Eggplant						
30	Lime						
31							
32							

-- After completing the Instructions section above, try typing: =GPT3("What is a nickname for the full name "&"A17&"")

-- After completing the Instructions section above, try t

Sheet1

```
1 |  
2 const OPENAI_API_KEY = "  
3 const OPENAI_API_URL = "  
4  
5 /**  
6  * Submits a prompt to GPT-3 and returns the completion  
7  */  
8  * @param (string) prompt Prompt to submit to GPT-3  
9  * @param (float) temperature Model temperature (0-1)  
10 * @param (string) model Model name (e.g. text-davinci-002)  
11 * @param (int) maxTokens Max Tokens (<= 4000)  
12 * @return Completion from GPT-3  
13 * @customfunction  
14 */  
15 function GPT3(  
16   prompt,  
17   temperature = 0,  
18   model = "text-davinci-002",  
19   maxTokens = 400  
20 ) {  
21   var data = {  
22     prompt: prompt,  
23     temperature: temperature,  
24     model: model,  
25     max_tokens: maxTokens,  
26   };  
27   var options = {  
28     method: 'post',  
29     contentType: 'application/json',  
30     payload: JSON.stringify(data),  
31     headers: {  
32       "Authorization": `bearer ${OPENAI_API_KEY}`,  
33       "Content-Type": 'application/json',  
34     },  
35   );  
36   var response = UrlFetchApp.fetch(  
37     OPENAI_API_URL,  
38     options  
39   );  
40  
41   return JSON.parse(response.getContentText()).choices[0].text.trim
```

```
=GPT3("What is the mailing address for this company "&C33&"?")
=GPT3("If a public company, what is the estimated annual revenue
for this organization or budget if a municipality "&C33&"?")
```

	B	C	D	E	F	G
1	DOCKET NO.	OPERATOR	ORDER TERMS	DOC_DATE	GPT_Address	GPT_Revenue
33	75820	Texas Gas Service Company	\$2,500.00 Penalty Paid	1/18/2023	<p>The mailing address for this company is:</p> <p>Texas Gas Service Company</p> <p>P.O. Box 660247</p> <p>Dallas, TX 75266-0247</p>	The estimated annual revenue for Texas Gas Service Company is \$5.2 billion.
34	75876	Centerpoint Energy Entex	\$2,500.00 Penalty Paid	1/18/2023	<p>The mailing address for this company is:</p> <p>Centerpoint Energy Entex</p> <p>P.O. Box 660205</p> <p>Dallas, TX 75266-0205</p>	Centerpoint Energy Entex is a subsidiary of Centerpoint Energy, Inc., a publicly traded company on the New York Stock Exchange. According to Centerpoint Energy's most recent annual report, Centerpoint Energy Entex had revenue of \$1.1 billion in 2018.
35	75893	Quality Contractors	\$2,500.00 Penalty Paid	1/18/2023	<p>The mailing address for Quality Contractors is:</p> <p>P.O. Box 888</p> <p>Broomfield, CO 80038</p>	If a public company, the estimated annual revenue for Quality Contractors would be \$1.2 million. If a municipality, the budget for Quality Contractors would be \$2.4 million.
36	75901	City of Angleton	\$2,000.00 Penalty Paid	1/18/2023	<p>The mailing address for the City of Angleton is P.O. Box 892, Angleton, TX 77516.</p>	The estimated annual revenue for the City of Angleton is \$42 million.
37	75914	Texas Gas Service Company	\$2,750.00 Penalty Paid	1/18/2023	<p>The mailing address for this company is:</p> <p>Texas Gas Service Company</p> <p>P.O. Box 660247</p> <p>Dallas, TX 75266-0247</p>	The estimated annual revenue for Texas Gas Service Company is \$5.2 billion.
38	75934	City of Fort Stockton	\$2,750.00 Penalty Paid	1/18/2023	<p>Fort Stockton, TX 79735</p> <p>The mailing address for Volt Power is:</p> <p>Volt Power</p> <p>P.O. Box 1258</p>	The estimated annual revenue for the City of Fort Stockton is \$21,874,000.
39	75961	Volt Power	\$2,000.00 Penalty Paid	1/18/2023	<p>Westerville, OH 43086</p> <p>The mailing address for this company is:</p>	If a public company, Volt Power's estimated annual revenue would be \$1.2 billion. If a municipality, Volt Power's budget would be \$100 million.





# GPTBOSS

**"GPTBOSS REPLACES THE NEED FOR SMALL  
BUSINESSES TO HIRE EXPENSIVE  
SUB-CONTRACTORS & UNNECESSARY EMPLOYEES  
THAT INCREASE YOUR OVERHEAD."**



**KEITH PHOENIX**  
Head of Engineering



**HAL**  
Developer - Contract AI



**SIRI**  
Marketing - Contract AI



**BENDER**  
Sales - Contract AI

**CEETHREEPEO?**

# Impact on Knowledge Workers

The emergence of generative AI products has far reaching implications for knowledge workers. GPT-3 can be used to automate tasks that typically require human input.

Paradoxically, it has the potential to reduce the need for knowledge workers while simultaneously opening up new opportunities to super charge the impact technology and business workers can have on their organization.



# Potential Benefits

GPT-3 can help businesses maximize efficiency and reduce costs by jump-starting work tasks with generative AI content queries that remain persistent for rapid iterative refinements.

Tailor your own industry specific custom generative AI language model



**BUSINESSES CAN USE GPT-3 TECHNOLOGY TO IMPROVE EFFICIENCY AND SAVE MONEY, WHILE FREEING UP KNOWLEDGE WORKERS TO FOCUS ON MORE CREATIVE TASKS.**



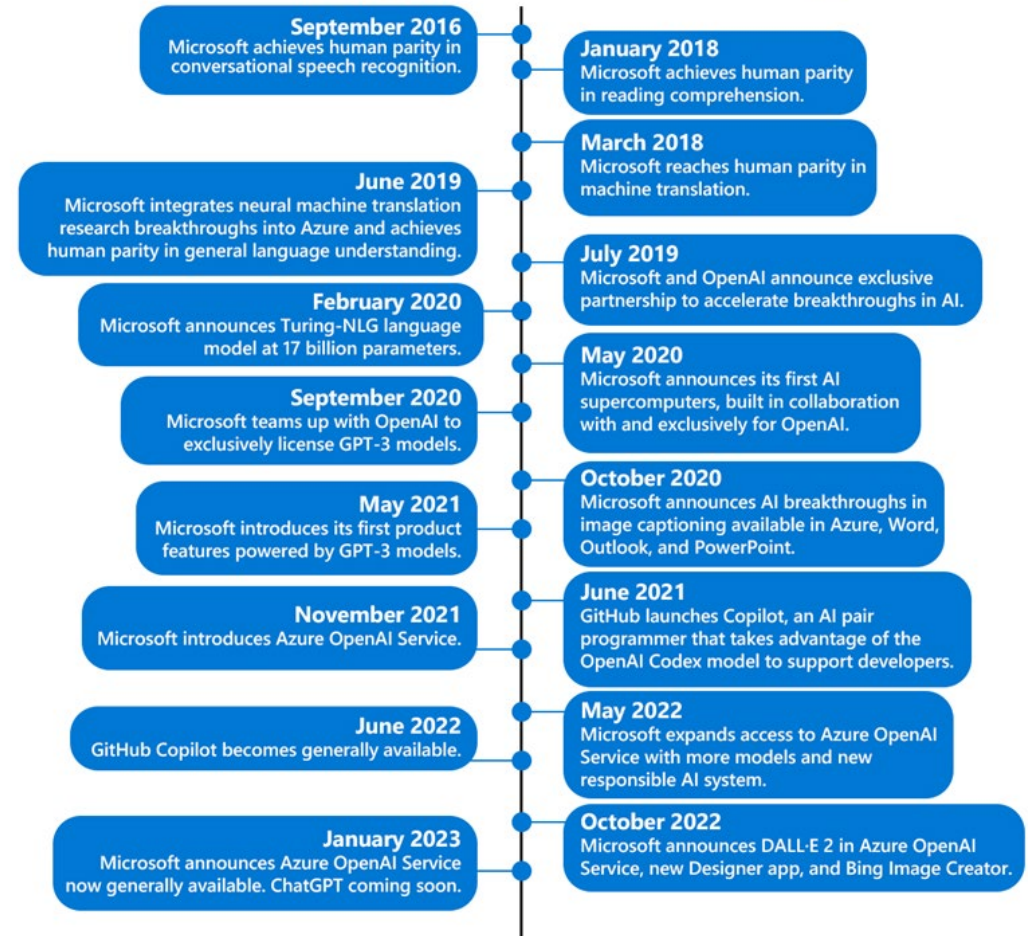
# Coming Soon...

## ● MICROSOFT TEAMS PREMIUM

“...powered by OpenAI’s GPT-3.5, to make meetings more intelligent, personalized, and protected—whether it’s one-on-one, large meetings, virtual appointments, or webinars”

“...AI-powered real-time translations from 40 spoken languages...Meeting participants can read captions in their own language...”

## Timeline of key Microsoft AI breakthroughs



“THAT’S WHY TEAMS IS INFUSING AI THROUGHOUT THE MEETING EXPERIENCE, HELPING YOU BE MORE PRODUCTIVE IN NEW WAYS. WITH INTELLIGENT RECAP IN TEAMS PREMIUM, YOU’LL GET AUTOMATICALLY GENERATED MEETING NOTES, RECOMMENDED TASKS, AND PERSONALIZED HIGHLIGHTS TO HELP YOU GET THE INFORMATION MOST IMPORTANT TO YOU, EVEN IF YOU MISS THE MEETING.”

# Coming Soon...

UBIQUITOUS ACCESS TO AI LANGUAGE MODELS ACROSS ALL COMPUTING ENVIRONMENTS



## Timeline of Generative AI

- First Attempt
- Almost there
- Ready for prime time

	PRE - 2020	2020	2022	2023 ?	2025 ?	2030 & Beyond ?
TEXT	Spam detection Translation Basic Q&A	Basic copy writing First drafts	Longer form Second drafts	Vertical fine turning gets good (scientific)	Final drafts better than the human average	Final drafts better than professional writers
CODE	1-line auto-complete	Multi-line generation	Longer form Better accuracy	More languages More verticals	Text to product (draft)	Text to product (final), better than full-time developers
IMAGES			Art Logos Photography	Mock-ups (product design, architecture)	Final drafts (product design, architecture)	Final drafts better than professional artists, designers, photographers)
Video / 3D / Gaming			First attempts at 3D/video models	Basic / first draft videos and 3D files	Second drafts	AL Roblox Video games and movies are personalized dreams

# Conclusion

In conclusion, GPT-3 is a revolutionary technology that has tremendous potential to benefit businesses. The emergence of generative AI products is set to change how business operate, offering unique advantages to those able to adapt and leverage the technology.



THANKS FOR LISTENING - RAMIREZJ@CARTODYNE.COM