

Words, Numbers, Images

Session 2



Etiquette



Cameras on — show your face



Mute yourself when not talking



Drop your questions in the chat + “raise” your hand during questions time



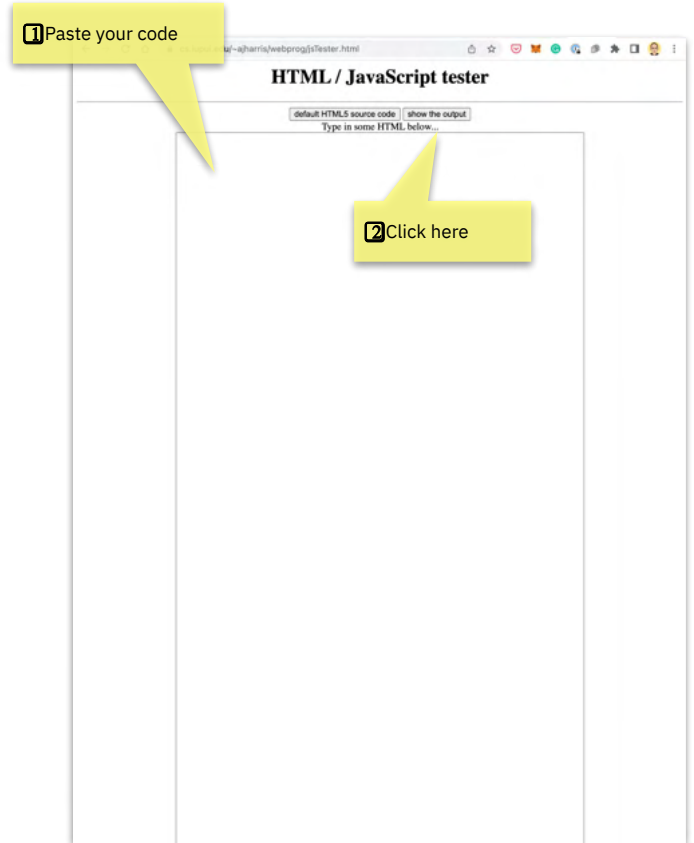
Don't give up: Something isn't clear? Get in touch.



Be nice!

Home Work: Build a Simple App

1. Generate code with ChatGPT. You can begin by asking it something like: “Generate an html snippet for an app that does....”
2. ChatGPT might give you two (or more) pieces of code for different files. If it does, ask it to provide a single snippet of code.
3. To test your code, go the [HTML / JavaScript Tester](#).
4. Click on “Show your output” at the top of the screen. See and test your result in the lower right corner.
5. Does it work? Want to make it even better? Go back to ChatGPT and instruct it on any changes you’d like.
6. Repeat until you’re happy with your app.
7. Once you’re done, post your code on the [Slack #show-your-work](#) channel.



Nice work!

Parkinson's Disease Diagnosis App

- Do you experience tremors or shaking in your hands or other body parts?
 Yes No
- Do you feel stiffness or rigidity in your limbs or trunk?
 Yes No
- Do you experience slowness of movement or difficulty?
 Yes No
- Do you have problems with balance or coordination?
 Yes No

Diagnose

Life Expectancy Calculator

Age:
43

Height (inches):
71

Weight (pounds):
190

Gender:
Male

Alcoholic drinks per week:
0

Stress level (1-10):

World Trivia Game

What is the capital of Malawi?

Game Over

Answer History

Question	Answer	Result	Correct Answer
What is the capital of France?	Lyon	incorrect	Paris
Which country is known as the 'Land of the Rising Sun'?	Japan	correct	
What is the largest country in the world by land area?	China	incorrect	Russia
Which country is famous for kangaroos and koalas?	Sweden	incorrect	Australia
What is the capital of Malawi?	Toronto	incorrect	Lilongwe

Keep going! You'll get it next time!

Lilongwe had a major tobacco industry in the 1920s.

The FOSS Dictionary of Design

Free Open Source Software Flashcard App for Learning Design and Innovation

Microinteractions

Small, focused design elements that provide feedback and enhance the user experience in specific moments or interactions.

Party Drink Calculator

Attendees

Number of Male Attendees:

Number of Female Attendees:

Age

Number of Attendees Older than 18:

Number of Attendees Older than 35:

Drink Quantities

Gin Tonic:

Vodka Tonic:

Book Recommendation App

Enter your mood:

nostalgic

Test Your Memory

56355

Surprise!

Can you write your name?

Cecilia

Congratulations, Cecilia! You know how to type your name!

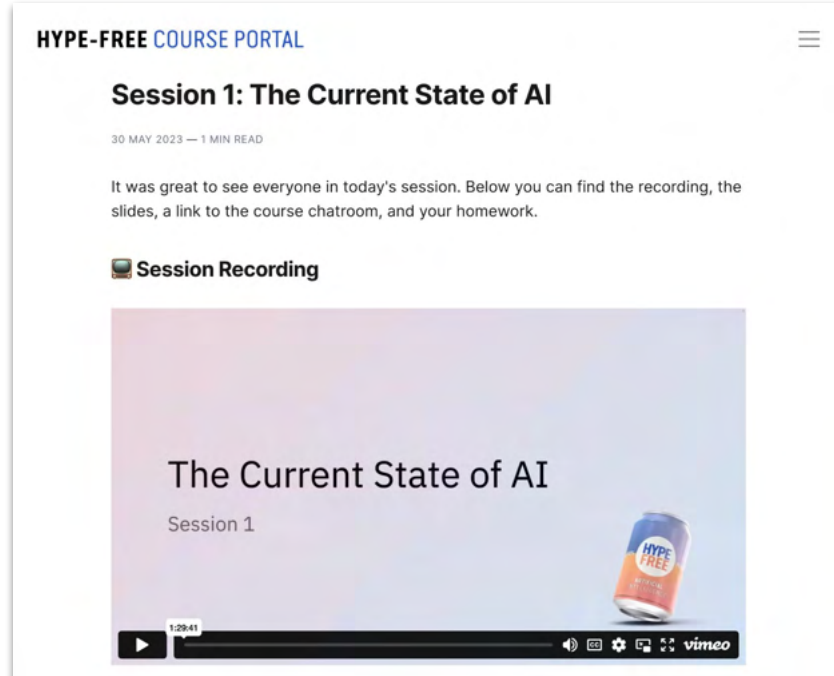


Commercial Property ROI Calculator

Property Value: Annual Income: Annual Expenses:

Course Portal

Log in with your email at <https://in.hypefree.com>



The screenshot shows a web page titled "HYPE-FREE COURSE PORTAL" with a hamburger menu icon in the top right. The main heading is "Session 1: The Current State of AI" with a sub-heading "30 MAY 2023 — 1 MIN READ". Below this is a paragraph: "It was great to see everyone in today's session. Below you can find the recording, the slides, a link to the course chatroom, and your homework." A section titled "Session Recording" with a video camera icon follows. The video player shows a slide titled "The Current State of AI" for "Session 1" with a "HYPE FREE" can on the right. The video player controls at the bottom show a play button, a progress bar at 1:29/41, and the Vimeo logo.

HYPE-FREE COURSE PORTAL

Session 1: The Current State of AI

30 MAY 2023 — 1 MIN READ

It was great to see everyone in today's session. Below you can find the recording, the slides, a link to the course chatroom, and your homework.

Session Recording

The Current State of AI

Session 1

1:29/41

vimeo

What we'll do?

 ~~Session 1: Fundamentals and orientation~~

 Session 2: Working with words, numbers, and images

 Session 3: Reinforcement & Support

 Session 4: Broader implications for industries and careers

 Session 5: Advanced skills, specialized tools, and automations

 Session 6: Reinforcement & Support

Understanding Tokens

- Token: A unit of text that the model reads and generates.
- Can be as short as one character, or as long as one word. For example, in the sentence "ChatGPT is great!", there are four tokens: "ChatGPT", "is", "great", and "!".
- Tokens are also the units by which the model learns during training: it learns to predict the next token in a sequence given the previous tokens.
- GPT 3.5 token limit: 2048; GPT-4: 8192 (or 32,768)

Tokenizer

The GPT family of models process text using **tokens**, which are common sequences of characters found in text. The models understand the statistical relationships between these tokens, and excel at producing the next token in a sequence of tokens.

You can use the tool below to understand how a piece of text would be tokenized by the API, and the total count of tokens in that piece of text.

GPT-3 Codex

Prior to the NBA draft, Tatum reluctantly showed up to work out with the Boston Celtics. He showcased some of his skills but didn't necessarily shoot the lights out. But during this short visit, he managed to showcase something else as well. As Coach Brad Stevens described it, "He would miss two in a row, and it wouldn't dissuade him from hitting the next one."



Clear Show example

Tokens	Characters
78	362

Prior to the NBA draft, Tatum reluctantly showed up to work out with the Boston Celtics. He showcased some of his skills but didn't necessarily shoot the lights out. But during this short visit, he managed to showcase something else as well. As Coach Brad Stevens described it, "He would miss two in a row, and it wouldn't dissuade him from hitting the next one."

TEXT TOKEN IDS

A helpful rule of thumb is that one token generally corresponds to ~4 characters of text for common English text. This translates to roughly 1/4 of a word (so 100 tokens ~ 75 words).

If you need a programmatic interface for tokenizing text, check out our [tiktoken](#) package for Python. For JavaScript, the [gpt-3-encoder](#) package for node.js works for most GPT-3 models.

Understanding prompts


Prompt: A text-based instruction or input given to a language model. It serves as a starting point or guidance for the model to generate a response or continuation based on the provided prompt. The prompt can be a question, statement, or incomplete sentence that helps to frame the desired output from the model.

 Questions so far?

Working with Words


Analyzing Text

Dror Poleg [About](#) [Keynotes](#) [Books](#) [AI Course](#) [Podcast](#) [Contact](#) [Account](#) [🔄](#) [🔍](#)



Talent, Scarcity, and Culture

How does talent distribution impact corporate culture and the future of work?

 Dror Poleg | 05 May 2023

Reviewing a Contract

EMPLOYMENT CONTRACT

This Employment Contract (this "Contract") is made effective as of March 01, 2022, by and between Hype-Free Media (DBA of Eloquent.li LLC) of _____ and _____ of _____, New York, _____.

A. Hype-Free Media (DBA of Eloquent.li LLC) is engaged in the business of online education and media production. _____ will primarily perform the job duties at the following location: ..., _____, _____.

B. Hype-Free Media (DBA of Eloquent.li LLC) desires to have the services of _____.

C. _____ is an at will employee of Hype-Free Media (DBA of Eloquent.li LLC). Either party is able to terminate the employment agreement at any time.

Therefore, the parties agree as follows:

1. EMPLOYMENT. Hype-Free Media (DBA of Eloquent.li LLC) shall employ _____ as a(n) Program Manager. _____ shall provide to Hype-Free Media (DBA of Eloquent.li LLC) duties as needed. _____ accepts and agrees to such employment, and agrees to be subject to the general supervision, advice and direction of Hype-Free Media (DBA of Eloquent.li LLC) and Hype-Free Media (DBA of Eloquent.li LLC)'s supervisory personnel.

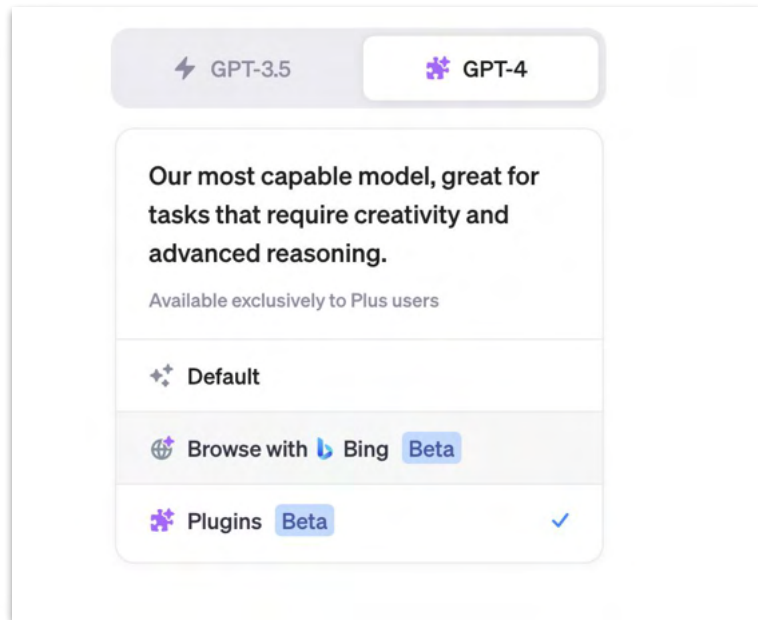
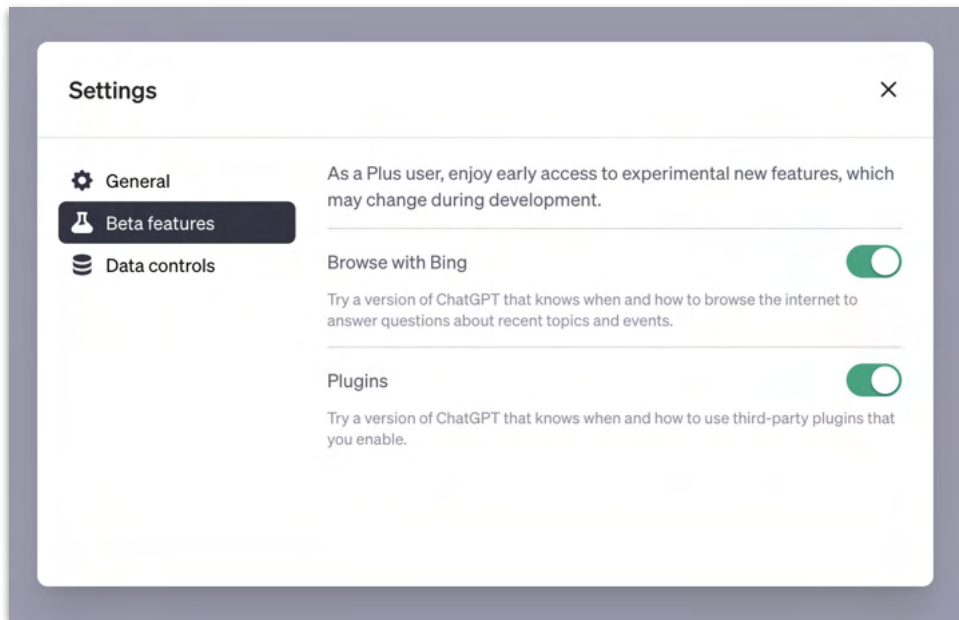
2. BEST EFFORTS OF EMPLOYEE. _____ agrees to perform faithfully, industriously, and to the best of _____'s ability, experience, and talents, all of the duties that may be required by the express and implicit terms of this Contract, to the reasonable satisfaction of Hype-Free Media (DBA of Eloquent.li LLC). Such duties shall be provided at such place(s) as the needs, business, or opportunities of Hype-Free Media (DBA of Eloquent.li LLC) may require from time to time.

Blood Test

Just for fun! Not medical advice!

Clinical Laboratory Report				
Patient Name DOE, JOHN	Date Drawn 12/20/10	Date Received 12/20/10	Date of Report 12/22/10	
Sex M	Age 31	Client Name / Address MEDICAL CENTER YOUR DOCTOR, M.D. 123 MAIN STREET ANYTOWN US 10023	I.D. Number 78987654	Account Number 12343
Ordering Physician SMITH 123094567			Specimen Number 918273	Time Drawn 11:00
Patient I.D./Soc. Sec Number				
TEST NAME	RESULT	UNITS	REFERENCE RANGE	
CHEM-SCREEN PANEL				
GLUCOSE	87	mg/dL	65 - 125	
SODIUM	140	mmol/L	136 - 144	
POTASSIUM	4.6	mmol/L	3.6 - 5.1	
CHLORIDE	106	mmol/L	99 - 109	
CARBON DIOXIDE (BICARBONATE)	28	mmol/L	21 - 31	
BUN (BLOOD UREA NITROGEN)	9	mg/dL	8 - 24	
CREATININE	0.9	mg/dL	0.7 - 1.3	
BUN/CREATININE RATIO	10.0			
URIC ACID	6.0	mg/dL	3.0 - 8.1	
PHOSPHATE	3.5	mg/dL	2.3 - 4.5	
CALCIUM	9.6	mg/dL	8.8 - 10.3	
MAGNESIUM	2.09	g/dL	1.50 - 2.50	
CHOLESTEROL	258	mg/dL	H 120 - 199	
HDL CHOLESTEROL	41	mg/dL	35 - 59	
CHOL/HDL RATIO	6.3		3.6 - 6.4	
LDL CHOL., CALCULATED	179	mg/dL	H 75 - 129	
TRIGLYCERIDES	231	mg/dL	H 40 - 200	
PROTEIN, TOTAL	8.3	g/dL	6.5 - 8.3	
ALBUMIN	4.5	g/dL	4.0 - 5.0	
GLOBULIN, CALCULATED	3.8	g/dL	H 2.1 - 3.6	
A/G RATIO	1.2		1.1 - 2.0	
BILIRUBIN, TOTAL	0.51	mg/dL	0.20 - 1.50	
BILIRUBIN, DIRECT	0.10	mg/dL	0.00 - 0.20	


Browsing the Web




ChatGPT Plugins

Plugin store ×


Popular New **All** Installed




Golden

Install 


Get current factual data on companies from the Golden knowledge graph.




HTTP Webhooks

Install 


Allows you to write, deploy, and manage HTTP Webhooks in JavaScript, right from the chat.




WebPilot

Install 


Browse & QA Webpage/PDF/Data. Generate articles, from one or more URLs.




Sakenowa

Install 


Find Sake and get detailed information in various ways.




TimeMachine

Install 


Enhances AI with real-time awareness, providing current time in various formats and timezones.




Paxi AI

Install 


Let AI tools speed up your tasks! Make it easy to find the right tool for the task.




Speechki

Install 

The easiest way to convert texts to ready-to-use audio — download link, audio player page, or embed!



edX

Install 

Find courses and content from leading universities to expand your knowledge at any level.

< Prev 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 Next > About plugins

Using BabyAGI “agents”

The screenshot shows the COGNOSYS web interface for creating an agent. On the left is a dark sidebar with navigation links: Home, Settings, and Agents. The main content area is titled "Create your agent" and contains the following fields and controls:

- Name:** A text input field with the placeholder text "Author".
- Objective:** A larger text area containing the text "Write a book about ChatGPT". A small icon of two speech bubbles is visible in the bottom right corner of this area.
- Mode:** Three buttons: "Search" (with a magnifying glass icon), "Default" (with a play button icon and highlighted with a green border), and "Coding" (with a code icon).
- Automatically generate tasks:** A toggle switch that is currently turned on.
- Start Agent:** A large blue button at the bottom of the form.

Below the form, the text "Or get started with a template" is displayed. Underneath, there are five template cards, each with a mode indicator (Search or Default) and a title:

- Search: Industry News Digest
- Search: Market Research
- Default: Business plan
- Default: Language Tutor
- Default: Fitness Coach

 Questions so far?

Group Activity – 7 minutes:

Introduce yourself and then use ChatGPT together to... convince me to buy this pen.

Use whatever you know about me, feel free to make assumptions, ask ChatGPT for help.



Group Activity – 7 minutes:

Introduce yourself and then use ChatGPT together to... convince me to buy this pen.

Use whatever you know about me, feel free to make assumptions, ask ChatGPT for help.



Working with Numbers

Financial Analysis

Rental Property Cashflow ☆ 📁 ☁

File Edit View Insert Format Data Tools Extensions Help

100% | \$ % .0_ .00 123 | Defaul... | - 10 + | B I 🔍 A

D15 | fx

	A	B	C	D	E	F	G
1	Year	Gross Rental Inc	Operating Exper	Net Operating Income	Debt Service	Cash Flow	
2	2023	30000	8000	22000	5000	17000	
3	2024	31500	8400	23100	5000	18100	
4	2025	33075	8820	24255	5000	19255	
5	2026	34729	9261	25468	5000	20468	
6	2027	36465	9714	26751	5000	21751	
7	2028	38289	10189	28100	5000	23100	
8	2029	40203	10698	29505	5000	24505	
9	2030	42213	11238	30975	5000	25975	
10	2031	44324	11799	32525	5000	27525	
11	2032	46540	12389	34151	5000	29151	
12	2033	48867	13009	35858	5000	30858	
13							
14							
15							
16							
17							
18							
19							
20							

Looking at Tesla's Financials

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549
FORM 10-Q

(Mark One)
 QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended June 30, 2022
 OR
 TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____
Commission File Number: 001-34756

Tesla, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

1 Tesla Road
Austin, Texas
(Address of principal executive offices)

91-2197729
(I.R.S. Employer Identification No.)

78725
(Zip Code)

(512) 516-8177
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock	TESLA	The Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 ("Exchange Act") during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer Accelerated filer
 Non-accelerated filer Smaller reporting company
 Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

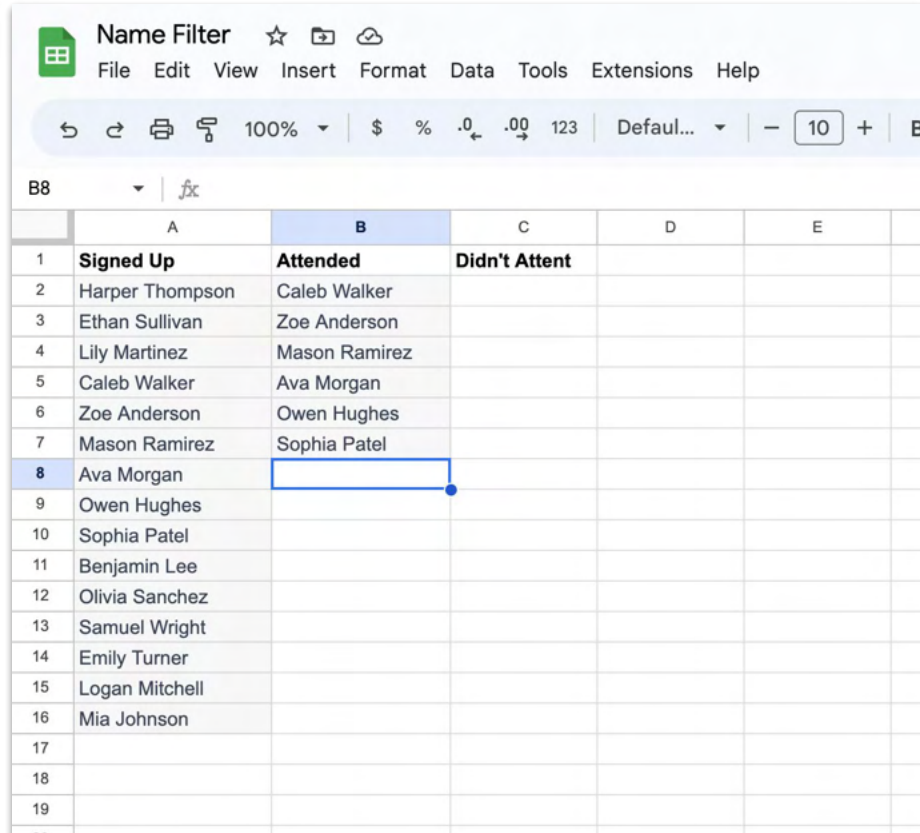
Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of July 19, 2022, there were 1,044,490,015 shares of the registrant's common stock outstanding.

Market Research



Coding in Excel / G Sheets



The screenshot shows a Google Sheet interface with the following elements:

- Title:** Name Filter
- Menu:** File, Edit, View, Insert, Format, Data, Tools, Extensions, Help
- Toolbar:** Undo, Redo, Print, Refresh, Zoom (100%), Currency, Percent, Decimals, Thousands, Default font, Font size (10), Bold.
- Cell Reference:** B8
- Table Structure:**

	A	B	C	D	E
1	Signed Up	Attended	Didn't Attend		
2	Harper Thompson	Caleb Walker			
3	Ethan Sullivan	Zoe Anderson			
4	Lily Martinez	Mason Ramirez			
5	Caleb Walker	Ava Morgan			
6	Zoe Anderson	Owen Hughes			
7	Mason Ramirez	Sophia Patel			
8	Ava Morgan				
9	Owen Hughes				
10	Sophia Patel				
11	Benjamin Lee				
12	Olivia Sanchez				
13	Samuel Wright				
14	Emily Turner				
15	Logan Mitchell				
16	Mia Johnson				
17					
18					
19					

Getting basic tax ideas
(not tax advice!)

 Questions so far?

Using the OpenAI API

The screenshot shows the OpenAI developer platform homepage. At the top, there is a navigation bar with links for Overview, Documentation, API reference, Examples, and Playground. On the right side of the navigation bar, there are links for Help and Personal. The main content area is titled "Welcome to the OpenAI platform" and is divided into several sections:

- Start with the basics**: This section contains two large colored boxes. The left box is titled "Quickstart tutorial" and includes the subtext "Learn by building a quick sample app". The right box is titled "Examples" and includes the subtext "Explore some example tasks".
- Build an application**: This section lists six different capabilities, each with a colored icon and a brief description:
 - Chat** (Beta): Learn how to use chat-based language models.
 - Text completion**: Learn how to generate or edit text.
 - Embeddings**: Learn how to search, classify, and compare text.
 - Speech to text** (Beta): Learn how to turn audio into text.
 - Image generation** (Beta): Learn how to generate or edit images.
 - Fine-tuning**: Learn how to train a model for your use case.
- Build a ChatGPT plugin**: This section lists two items:
 - Introduction** (Alpha): Learn the basics of building a ChatGPT plugin.
 - Examples** (Alpha): Explore ChatGPT plugin examples.

At the bottom of the page, there is a footer with three icons and their corresponding labels: a question mark icon for "Help center", a speech bubble icon for "Developer forum", and a status icon for "Service status".

What is an API?

API (Application Programming Interface): An API is a set of rules that allows different software applications to communicate with each other. It's like a menu in a restaurant: you (the software) make a request (place an order), and the kitchen (the system you're requesting information from) uses the instructions provided (the menu) to fulfill your request. APIs enable the different pieces of software you use every day to function together seamlessly.

What can it do? (a lot)

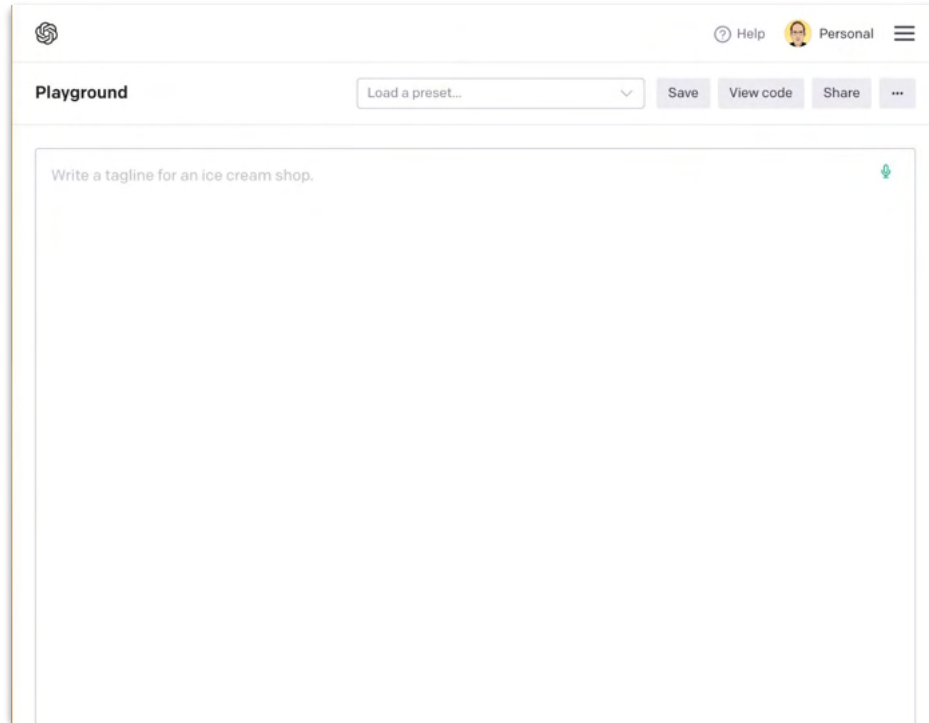
Examples

Explore what's possible with some example applications

Search... All categories

- Q&A**
Answer questions based on existing knowledge.
- Grammar correction**
Corrects sentences into standard English.
- Summarize for a 2nd grader**
Translates difficult text into simpler concepts.
- Natural language to OpenAI API**
Create code to call to the OpenAI API using a natural language instruction.
- Text to command**
Translate text into programmatic commands.
- English to other languages**
Translates English text into French, Spanish and Japanese.
- Natural language to Stripe API**
Create code to call the Stripe API using natural language.
- SQL translate**
Translate natural language to SQL queries.
- Parse unstructured data**
Create tables from long form text.
- Classification**
Classify items into categories via example.
- Python to natural language**
Explain a piece of Python code in human understandable language.
- Movie to Emoji**
Convert movie titles into emoji.
- Calculate Time Complexity**
Find the time complexity of a function.
- Translate programming languages**
Translate from one programming language to another.
- Advanced tweet classifier**
Advanced sentiment detection for a piece of text.
- Explain code**
Explain a complicated piece of code.
- Keywords**
Extract keywords from a block of text.
- Factual answering**
Direct the model to provide factual answers and address knowledge gaps.
- Ad from product description**
Turn a product description into ad copy.
- Product name generator**
Create product names from examples words.
- TL;DR summarization**
Summarize text by adding a 'tl;dr:' to the end
- Python bug fixer**
Find and fix bugs in source code.

Try it with the API playground



Please review and experiment!

Homework: Create a Zapier Account

The screenshot shows the Zapier website homepage. At the top, the navigation bar includes the Zapier logo, links for Product, Solutions, Resources & Support, and Pricing, along with a search icon, Contact Sales, Log in, and a prominent Sign up button. The main content area is split into two sections. The left section has a white background with the heading "Automate your social posts" and a sub-heading "Easily connect the apps you use for work—saving you time, no code required." Below this are two buttons: "Start free with email" and "Start free with Google". The right section has an orange background and features a large image of a man working at a laptop. Overlaid on the image is a workflow diagram with three steps: 1. "When I get a new lead" (Facebook icon), 2. "Let my team know about it" (Google Assistant icon), and 3. "Create a new deal in my CRM" (Salesforce icon). A final box indicates "2,546 leads automated monthly". At the bottom right of the image, a credit line reads "Yongjoon Kim, Design Systems Manager at Cottage".

zapier Product ▾ Solutions ▾ Resources & Support ▾ Pricing 🔍 Contact Sales Log in [Sign up](#)

Automate your social posts

Easily connect the apps you use for work—saving you time, no code required.

[Start free with email](#)

[Start free with Google](#)

When I get a new lead

Let my team know about it


Create a new deal in my CRM

2,546 leads automated monthly

Yongjoon Kim, Design Systems Manager at Cottage

Create a Pixar Character

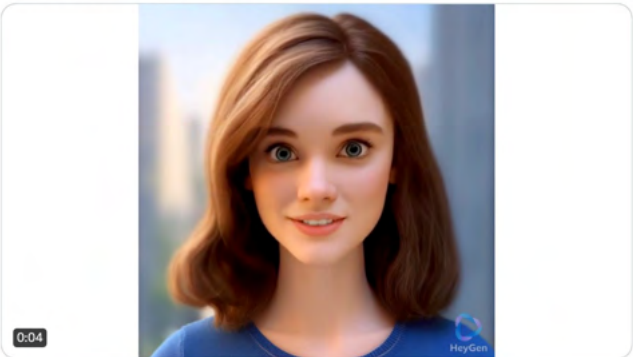
(and learn from a Tweet!)

 **Justine Moore** ✓
@venturetwins

I found the perfect long weekend project: turn yourself into a Pixar character.






It takes <15 minutes and three tools ([@midjourney](#), [@elevenlabs](#), [@HeyGen_Official](#)), all of which you can use in-browser.


And it's a real crowd pleaser with friends / family!



5:20 PM · May 28, 2023 · **815.6K** Views

397 Retweets **43** Quotes **2,536** Likes **4,420** Bookmarks


    

 Tweet your reply Reply

Next week:

 ~~Session 1: Fundamentals and orientation~~

 ~~Session 2: Working with words, numbers, and images~~

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 Session 4: Broader implications for industries and careers

 Session 5: Advanced skills, specialized tools, and automations

 Session 6: Reinforcement & Support

Thank you!

