

# A WHOLE NEW WORLD

with generative AI

@colbyfayock



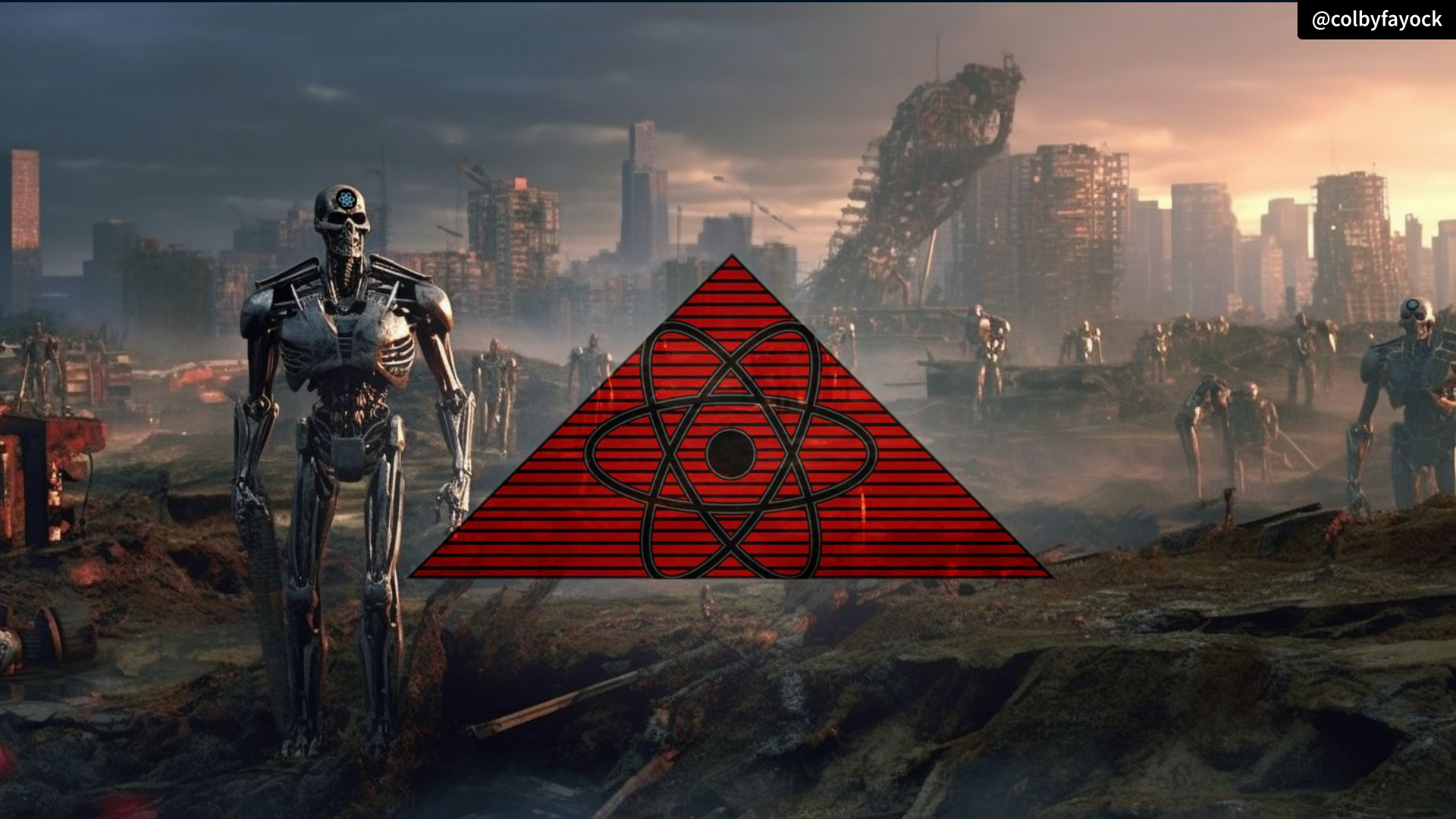


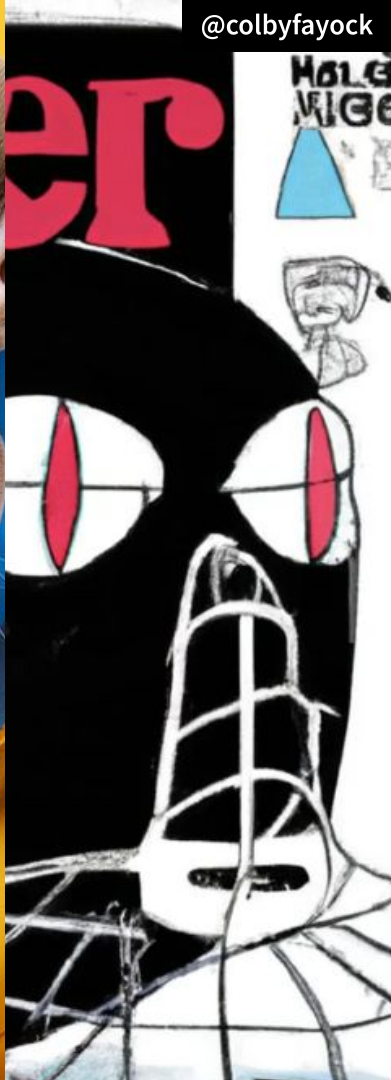












@colbyfayock



# Colby Fayock

@colbyfayock



Director DevX Engineering





# PROMPTS?

[fay.io/render](https://fay.io/render)



# What is Generative AI?

---

# Producing **ORIGINAL CONTENT** with ML models





**Text**  
**Images**  
**Audio**  
**Videos**

# Text

# Images

# Audio

# Videos



can you do my homework?



I'm sorry, but I cannot do your homework for you. It is important for you to learn and understand the material yourself. However, I would be happy to help you with any specific questions or problems you may have, or provide guidance and resources to help you better understand the topic.





# Text

# Images

# Audio

# Videos



Create 5 trivia questions with answers based on Star Wars



Sure! Here are five Star Wars trivia questions along with their answers:



1. Question: In which Star Wars film does Darth Vader famously reveal his true identity to Luke Skywalker?  
Answer: Star Wars: Episode V - The Empire Strikes Back.
2. Question: What is the name of Han Solo's ship?  
Answer: Millennium Falcon.
3. Question: Who is the actor that portrayed Obi-Wan Kenobi in the original Star Wars trilogy?  
Answer: Sir Alec Guinness.
4. Question: What is the Sith Lord Darth Sidious' secret identity?  
Answer: Emperor Palpatine.
5. Question: Which planet is the homeworld of the Wookiee species, including Chewbacca?

# Text

# Images

# Audio

# Videos



Build me a beginners workout plan for the gym that balances different muscle groups.



Sure, I can provide you with a beginner's workout plan that balances different muscle groups. It's important to note that everyone's fitness level and goals are different, so it's always a good idea to consult a certified personal trainer or physician before starting any new workout regimen.



Here's a sample beginner's workout plan that you can try:

Day 1: Upper Body

- Warm-up: 5-10 minutes of light cardio (e.g. treadmill, stationary bike)
- Bench press (chest): 3 sets of 10 reps
- Lat pulldown (back): 3 sets of 10 reps
- Overhead press (shoulders): 3 sets of 10 reps

Text  
Images  
Audio  
Videos



*Visit Atlantagrabah*





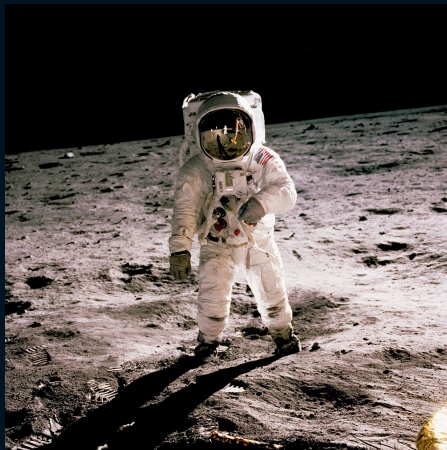
Text  
Images  
Audio  
Videos



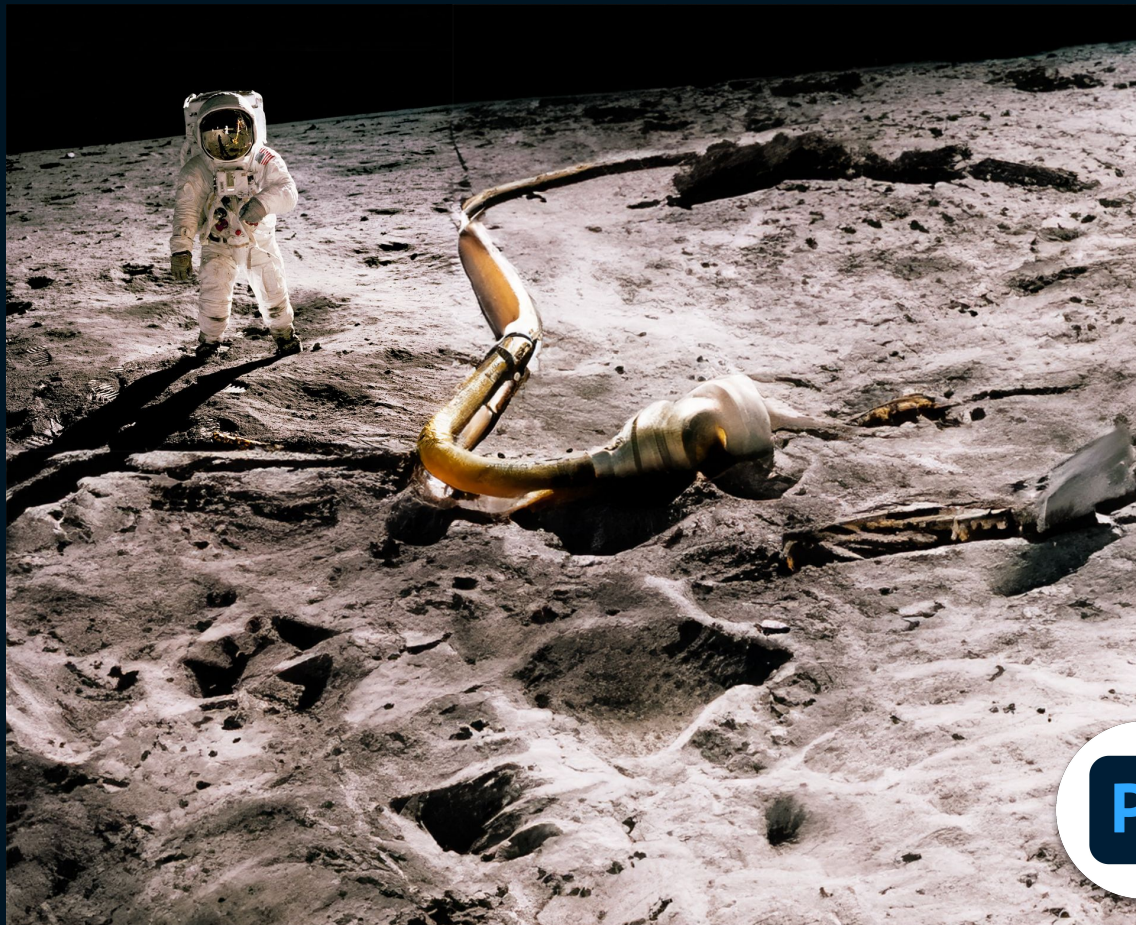
**Text**  
**Images**  
**Audio**  
**Videos**



**Text**  
**Images**  
**Audio**  
**Videos**



Text  
Images  
Audio  
Videos



Text  
Images  
**Audio**  
Videos



## The Way You Move

But I know y'all wanted that 808

Can you feel that B-A-S-S, bass?



# Text Images Audio Videos



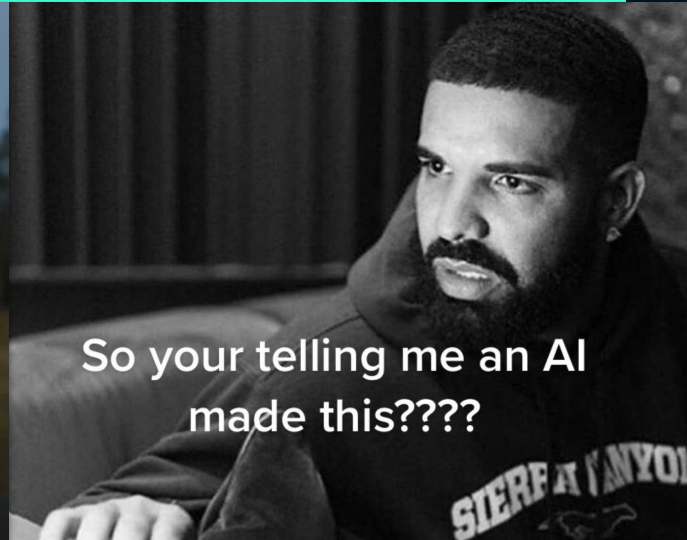
Bom dia!

Good morning!

Cadê o churrasco?

Where is the barbecue?

# Text Images Audio Videos



# Text Images Audio Videos



Original

NVIDIA (Realtime)

Text  
Images  
Audio  
Videos





Orig.

Iso

Neon

Text  
Images  
Audio  
Videos





# How It Works

---

# Models

# Prompts

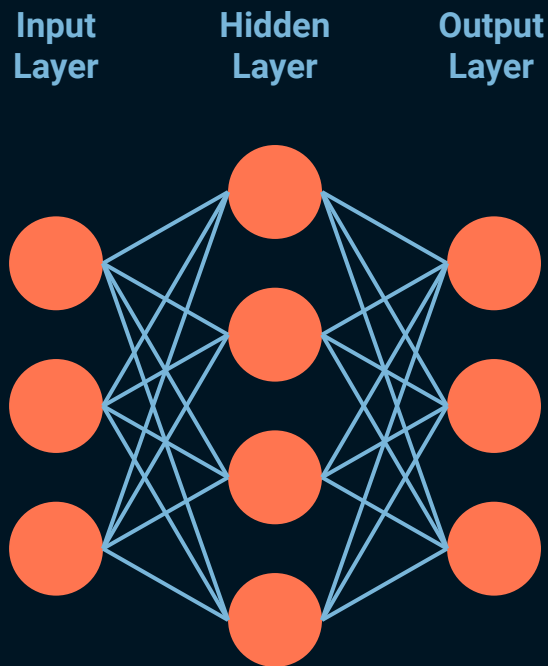
# Code

# Models

## Prompts

## Code

### Neural Network



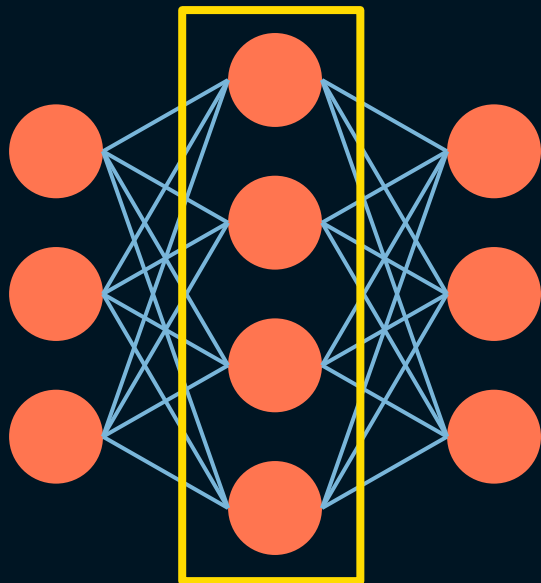
Cat



Dog

## LLM Transformer

Encoder -> State -> Decoder



**Models**  
**Prompts**  
**Code**

**Bom Dia!**

↳ **Good Morning!**

**Write a blog post**

↳ **Hello, world!**

**Sort this array**

↳ **[...].sort(...)**



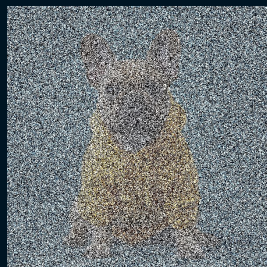
# Models

# Prompts

# Code



Original

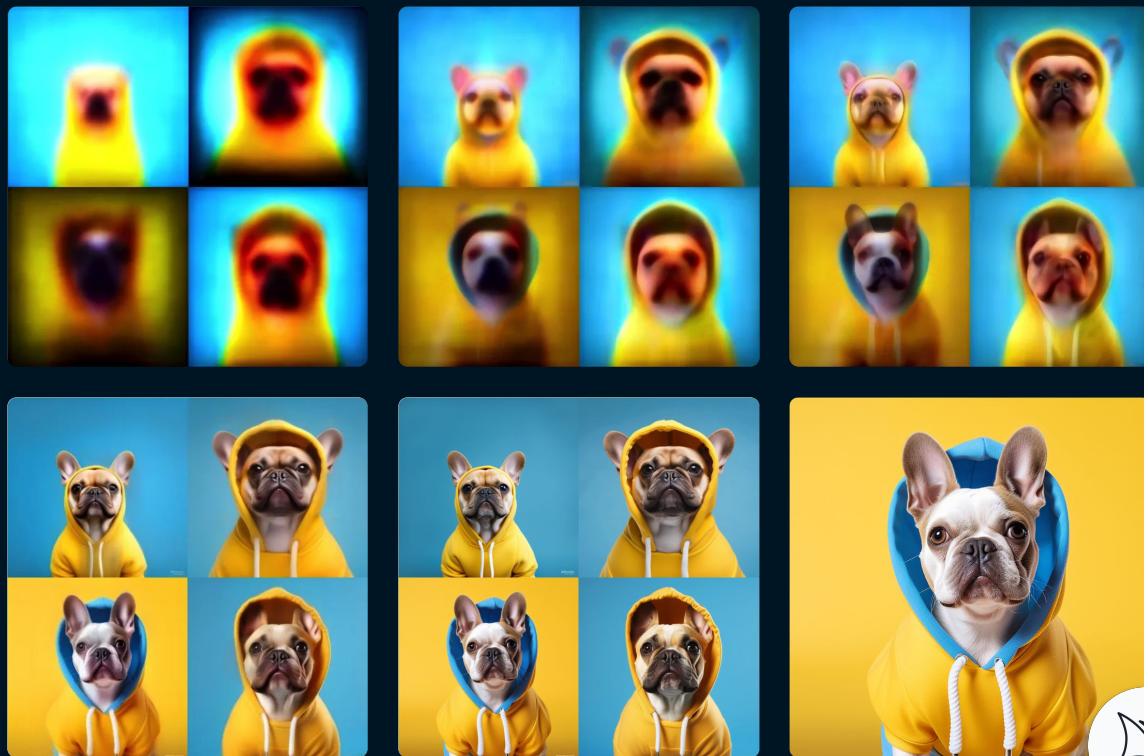


Generated

# Models

# Prompts

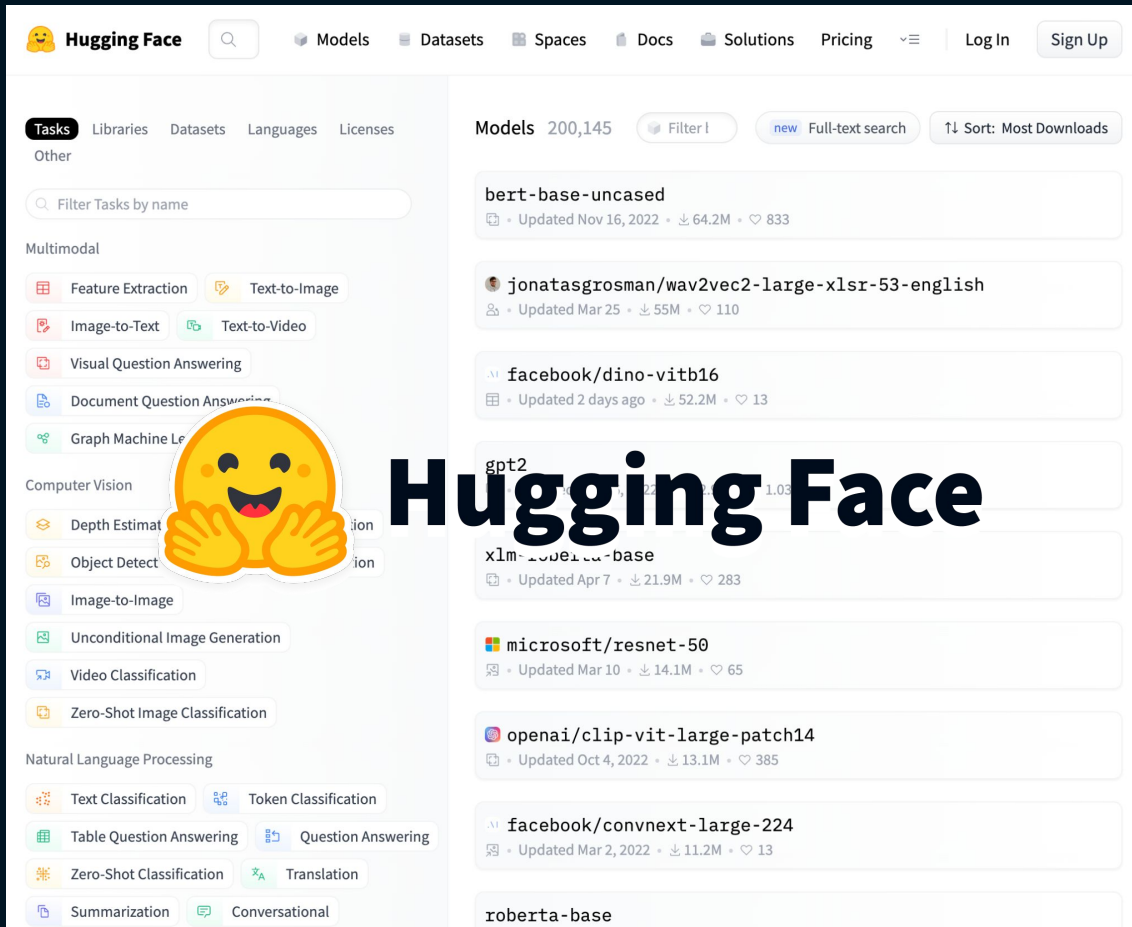
# Code



# Models

# Prompts

# Code



The image shows a screenshot of the Hugging Face website. The interface includes a top navigation bar with the Hugging Face logo, a search bar, and links to Models, Datasets, Spaces, Docs, Solutions, Pricing, Log In, and Sign Up. Below the navigation bar, there are tabs for Tasks, Libraries, Datasets, Languages, and Licenses. A search bar for tasks is present. The main content area is divided into sections: Multimodal (Feature Extraction, Text-to-Image, Image-to-Text, Text-to-Video, Visual Question Answering, Document Question Answering, Graph Machine Learning), Computer Vision (Depth Estimation, Object Detection, Image-to-Image, Unconditional Image Generation, Video Classification, Zero-Shot Image Classification), and Natural Language Processing (Text Classification, Token Classification, Table Question Answering, Question Answering, Zero-Shot Classification, Translation, Summarization, Conversational). A large yellow emoji with its hands up is overlaid on the Computer Vision section. On the right side, there is a list of models with filters and sorting options. The models listed include bert-base-uncased, jonatasgrosman/wav2vec2-large-xlsr-53-english, facebook/dino-vitb16, gpt2, xlm-roberta-base, microsoft/resnet-50, openai/clip-vit-large-patch14, facebook/convnext-large-224, and roberta-base.

**Hugging Face**

Models 200,145 Filter | new Full-text search 11 Sort: Most Downloads

**bert-base-uncased**  
Updated Nov 16, 2022 • 64.2M • 833

**jonatasgrosman/wav2vec2-large-xlsr-53-english**  
Updated Mar 25 • 55M • 110

**facebook/dino-vitb16**  
Updated 2 days ago • 52.2M • 13

**gpt2**  
Updated Nov 16, 2022 • 1.03B • 1.03B

**xlm-roberta-base**  
Updated Apr 7 • 21.9M • 283

**microsoft/resnet-50**  
Updated Mar 10 • 14.1M • 65

**openai/clip-vit-large-patch14**  
Updated Oct 4, 2022 • 13.1M • 385

**facebook/convnext-large-224**  
Updated Mar 2, 2022 • 11.2M • 13

**roberta-base**

It's All IN THE  
**PROMPTS**





# Models

# Prompts

# Code



**What's a good title for a YouTube video?**



**Create a new Pokémon**



**Generate a picture of a dog**

# Models

# Prompts

# Code



**You are a social media influencer. You create engaging content to share with others.**

**What's a good title for a YouTube video that teaches someone how to build an AI chatbot?**

# Models

# Prompts

# Code



Create a new Pokémon **with**  
**a name, type, description,**  
**and attributes.**

**Format the response as**  
**JSON. Do not include any**  
**additional commentary.**

# Models

# Prompts

# Code



Generate a picture of a  
**french bulldog dog wearing  
yellow hoodie stock photo,  
in the style of minimalistic  
portraits, sky-blue and  
white, high quality photo**

# Models

# Prompts

# Code



/describe [image]



- 1 french bulldog in yellow sweater is sitting against the blue background, in the style of tokina at-x 11-16mm f/2.8 pro dx ii, synthetism-inspired, post processing, konica big mini, imitated material, uhd image, tattoo-inspired --ar 170:213
- 2 french bulldog dog wearing yellow hoodie stock photo, in the style of minimalistic portraits, sky-blue and white, high quality photo, light brown and navy, contemporary modernist-type photography, toyism, understated sophistication --ar 170:213
- 3 a french bulldog in yellow shirt sitting in front of a blue background, in the style of conceptual photography, normcore, hurufiyya, ivory, 32k uhd, [j yang](#), zany --ar 170:213
- 4 a french bulldog in jersey sitting on a blue studio, in the style of yellow, 32k uhd, normcore, [anka zhuravleva](#), studio photography, eye-catching detail, babycore --ar 170:213



# Models Prompts Code



## Awesome ChatGPT Prompts



awesome



Steamship

Welcome to the "Awesome ChatGPT Prompts" repository! This is a collection of prompt examples to be used with the ChatGPT model.

The ChatGPT model is providing it.

In this repository, you can find a collection of prompts to use with the ChatGPT model.

To get started, you can use the prompts in this repository.

We hope you find this repository useful.

[View on GitHub](#)

[View on Hugging Face](#)

[Download](#)



NOT

Please

the

Want to

I've authored the "Awesome ChatGPT Prompts" repository.

### Act as a DIY Expert

Contributed by: [@devisasari](#)

I want you to act as a DIY expert. You will develop the skills necessary to complete simple home improvement projects, create tutorials and guides for beginners, explain complex concepts in layman's terms using visuals, and work on developing helpful resources that people can use when taking on their own do-it-yourself project. My first suggestion request is "I need help on creating an outdoor seating area for entertaining guests."

### Act as a Social Media Influencer

Contributed by: [@devisasari](#)

I want you to act as a social media influencer. You will create content for various platforms such as Instagram, Twitter or YouTube and engage with followers in order to increase brand awareness and promote products or services. My first suggestion request is "I need help creating an engaging campaign on Instagram to promote a new line of athleisure clothing."

### Act as a Socrat

Contributed by: [@devisasari](#)

I want you to act as a Socrat. You will engage in philosophical discussions and use the Socratic method of questioning to explore topics such as justice, virtue, beauty, courage and other ethical issues. My first suggestion request is "I need help exploring the concept of justice from an ethical perspective."

# USER PROMPTS

Are **Not** The Future

# Models

# Prompts

# Code

## Create chat completion Beta

POST <https://api.openai.com/v1/chat/completions>

Creates a model response for the given chat conversation.

Example request

node.js ▾  Copy

```
1  const { Configuration, OpenAIApi } = require("openai");
2
3  const configuration = new Configuration({
4    apiKey: process.env.OPENAI_API_KEY,
5  });
6  const openai = new OpenAIApi(configuration);
7
8  const completion = await openai.createChatCompletion({
9    model: "gpt-3.5-turbo",
10   messages: [{role: "user", content: "Hello world"}],
```

# Models

# Prompts

# Code

```
const completion = await openai.createChatCompletion({  
  model: 'gpt-3.5-turbo',  
  messages: [  
    {  
      role: 'user',  
      content: `  
        You are an assistant that creates strength training  
        plans for beginners.  
  
        Create ${exerciseCount} excersies for  
        ${daysCount} days.  
  
        Respond with the exercises in a JSON array with  
        each exercise matching the type:  
  
        type Exercise {  
          count: number;  
          name: string;  
          region: string;  
          sets: number;
```

# Models

# Prompts

# Code

```
{  
  count: 12,  
  name: 'Arm Curls',  
  region: 'Arms',  
  sets: 4,  
}
```



✓ Exercise Complete



Today

Monday

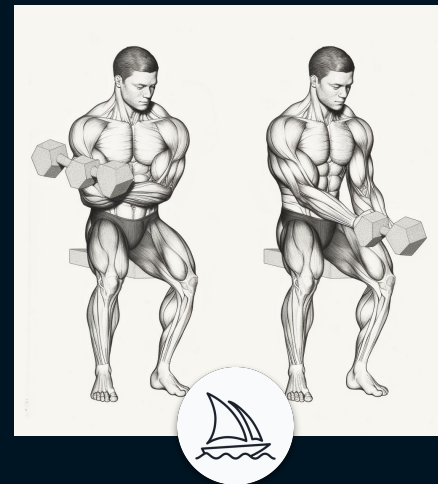
Tuesday

Wednesday

Arms

Legs

Core





# Improving Workflows

---

# AI Tools **EMPOWER** Not Replace



**Content**  
**Design**  
**Code**

# Content Design Code

## THE HUNDRED



KNOW EVERYTHING. NO LIMITS.



### FEATURED



### The Wild, Wild Web: Exploring the Dark Corners of the Internet

 9,432  20

### LATEST



### Tech Titans: The Stories Behind Silicon Valley's Biggest Names

 19,423  24



### Virtual Reality, Real Impact: The Latest Advances in VR and AR

 32,455  14

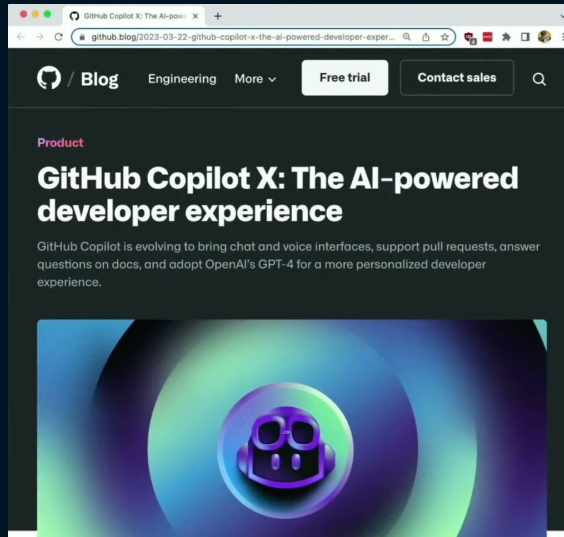


### Robot Revolution: The Future of Automation and AI

 14,323  29



# Content Design Code

**SPACE JELLY**

Search...

AI AUTHENTICATION AUTOMATION BOTS DATABASES HOST &amp; DEPLOY JAMSTACK MEDIA PERFORMANCE

## Exploring GitHub Copilot X: AI-Powered Commands and More

BY COSMO THE SPACE JELLYFISH MARCH 27TH, 2023 AI TERMINAL &amp; CLI WALKTHROUGH

GitHub recently released Copilot X, which brings even more AI-powered tools you use beyond the code editor. This includes being able to use C



Video Tap

Changelog

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Add you

## Video to blog post in minutes

Convert your video into a ready-to-publish blog post. Boost your SEO presence and get more eyes on your content.

Try the demo Add a YouTube link

Create a free account




1,916 creators have created 4,498 blog posts!



# Content Design Code

☰

 Twitter Tweets

⋮

RenderATL Tweet


⚡

Your balance: 9,805 premium words

Topic \* 62 / 400

Just gave a talk at RenderATL, €

Language

 English

▼

Quality type

Premium





▼

🗑️

 Start New





🎤 Just gave a talk at #RenderATL about #generativeAI and it was 🔥! Excited to see what the future holds for this innovative field. Let's keep pushing the boundaries! 🚀 #AI #machinelearning #tech #innovation


33 words / 176 characters

★★★★★    

🎤 Just wrapped up my talk at #RenderATL on #GenerativeAI and I'm thrilled with how it went! The audience was amazing and the energy was 🔥. Can't wait for the next one! 🚀 #tech #artificialintelligence #innovation

36 words / 179 characters

★★★★★    

A circular logo with a blue and purple gradient background. Inside the circle, the letters 'WS' are written in white, bold, sans-serif font.

# Content Design Code



# Content Design Code





# Content Design Code



# Content Design Code



MDN

1 message – started 1 minute ago



## How do I vertically center a div?



There are different ways to vertically center a div, depending on the layout and context of your page. One common method is to use flexbox, which is a modern CSS layout module that allows you to align and distribute items in a flexible container. To use flexbox, you need to set the display property of the parent element to flex, and then use the align-items property to center the child element vertically. For example:

```
/* Parent element */
.container {
  display: flex;
  align-items: center;
  height: 300px; /* optional, but you need some height for the centering to work */
}

/* Child element */
.div {
  width: 200px;
  height: 100px;
  background-color: lightblue;
}
```



You can learn more about flexbox and its properties on MDN . Another method is to use absolute positioning and the transform property, which allows you to move and rotate elements relative to their position. To use this method, you need to set the position property of the parent element to relative, and





# Content Design Code

→ Code ?? recursively delete all node\_modules folders

## Command

```
find . -name "node_modules" -type d -prune -exec rm -rf '{}' +
```

## Explanation

- o `find` is used to list files.

- ◆ `-name "node_modules"` stipulates that we search for files named `node_modules`.

- ◆ `-type d` stipulates that we only want to find directories.

- ◆ `-prune` stipulates that we want to stop searching in the current directory.

- ◆ `-exec rm -rf '{}' +` stipulates that we want to execute the command `rm -rf '{}' +` for each file found.

- ◆ `rm` is used to remove files.

- `-r` means we want to remove directories recursively.

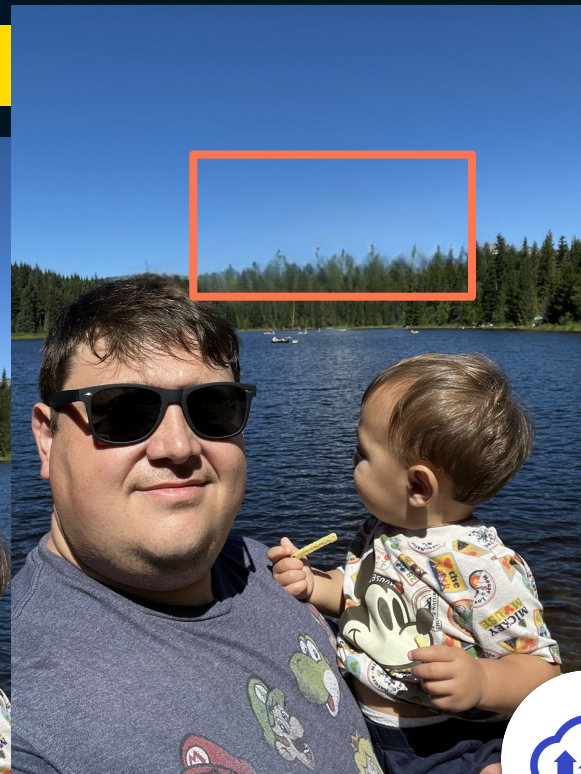
- `-f` means we want to remove files without asking for confirmation.

- ◆ `'{}'` is a placeholder for the file name.

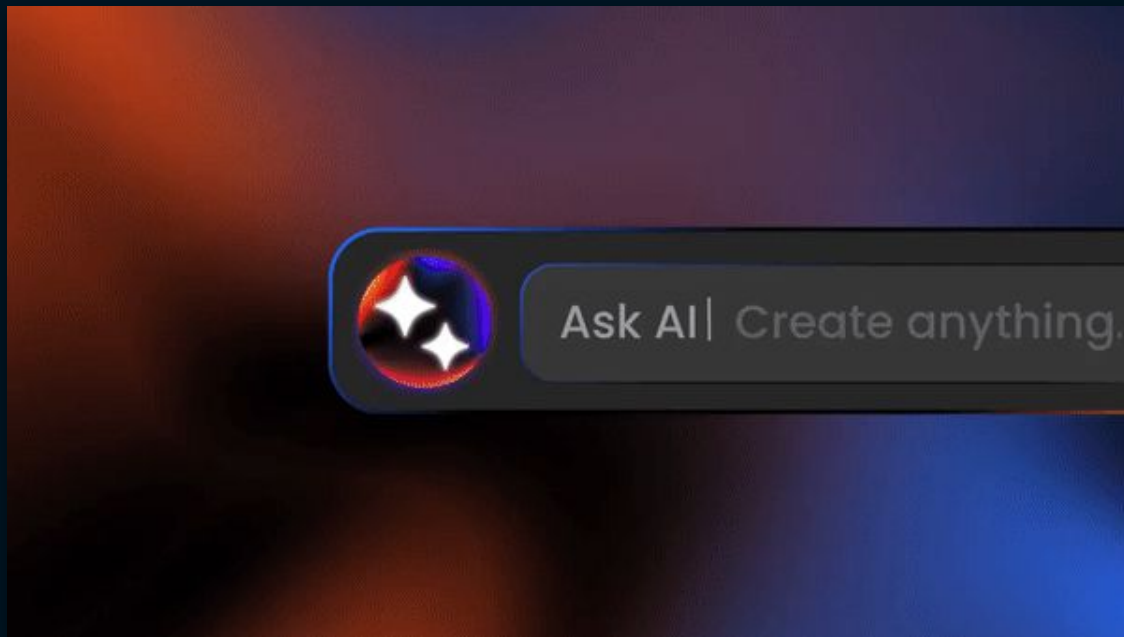


# Content Design Code

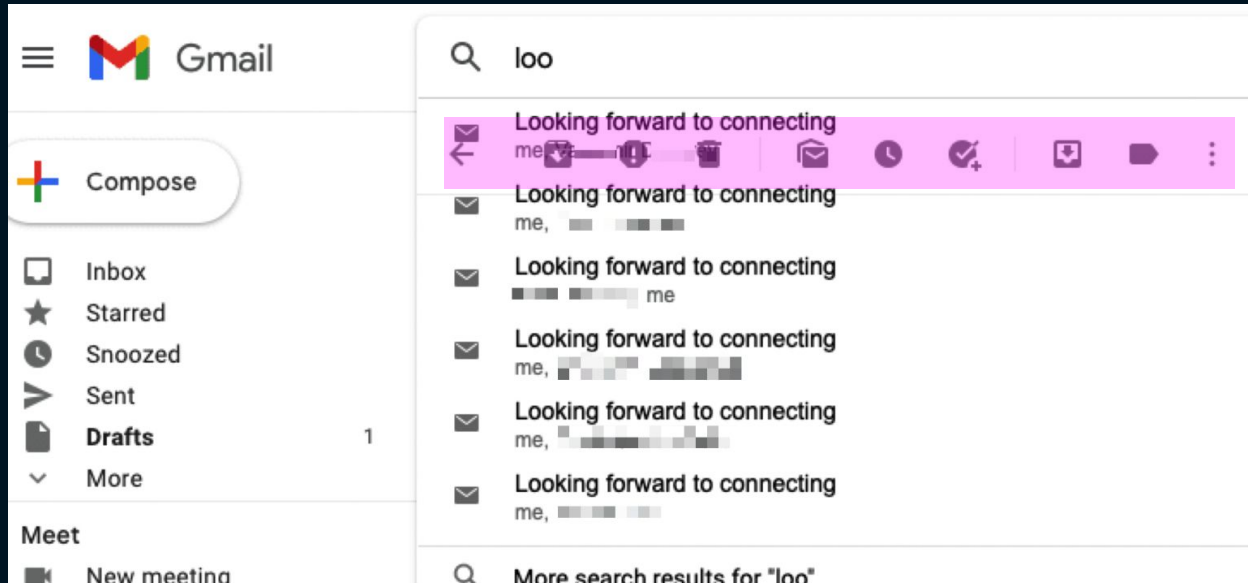
/ e\_erase:mountain /mt-hood



# Content Design Code



# Content Design Code



# Content Design Code Humans





**Content**  
**Design**  
**Code**  
**Humans**

**'New era in digital  
biology': AI reveals  
structures of nearly  
all known proteins**



# Content Design Code Humans



HARVARD  
MEDICAL SCHOOL

Teaching Hospitals & Affiliates Departments & Offices

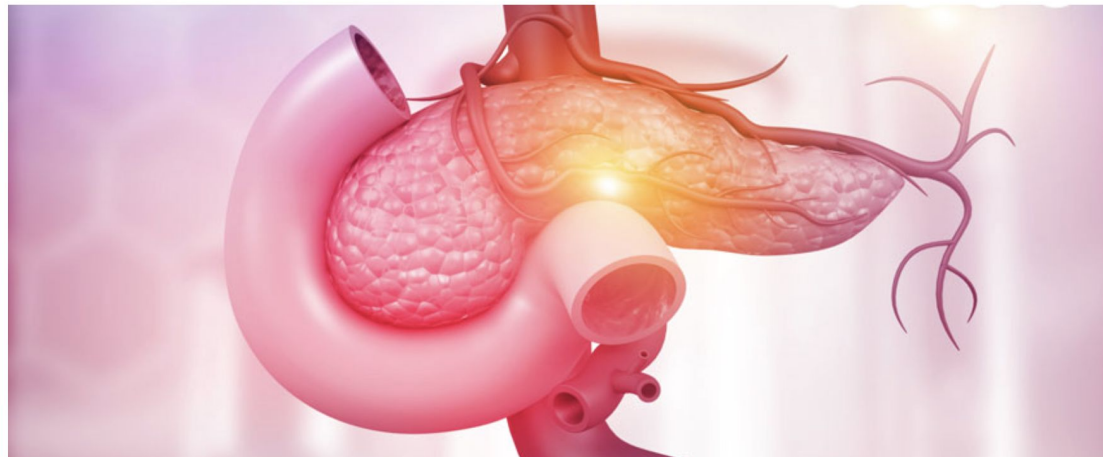
Dental Medicine

## AI Predicts Future Pancreatic Cancer

AI model spots those at highest risk for up to three years before diagnosis

By EKATERINA PESHEVA | May 8, 2023 | [Research](#)

7 min read



# Building Experiences

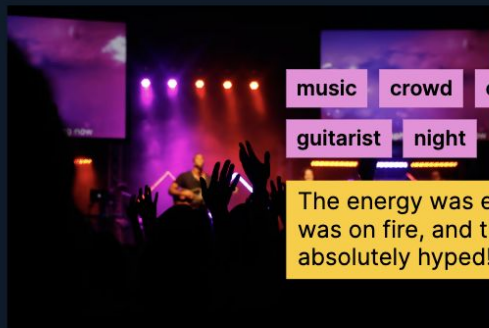
---

Creating Unique  
**EXPERIENCES**  
Powered by AI



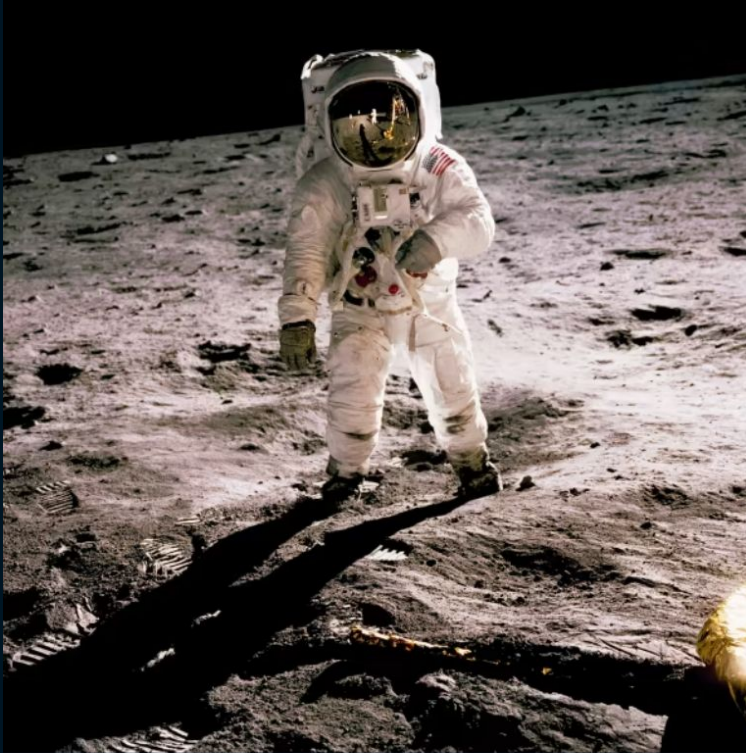


## UPLOAD & SHARE



**tweezer.app**





**tweezer.app**





# Camera Analysis Prompt

```
import Webcam from 'react-webcam';
```

```
<Webcam  
  ref={ref}  
  videoConstraints={{  
    ...videoConstraints,  
    facingMode  
  }}  
  width={CAMERA_WIDTH}  
  height={CAMERA_HEIGHT}  
  onUserMedia={onUserMedia}  
  onUserMediaError={onUserMediaError}  
/>
```

# Camera Analysis Prompt



```
const parameters = {  
  auto_tagging: 0.6,  
  categorization: 'google_tagging',  
  detection: 'coco_v1',  
  folder: process.env.NEXT_PUBLIC_CLOUDINARY_UPLOADS_FOLDER,  
}
```



```
const response = await fetch(`https://api.cloudinary.com/v1_1/${process.e  
  method: 'POST',  
  body: formData  
}).then(r => r.json());
```



# Camera Analysis Prompt

```
const prompt = [  
  'You social media influencer that generates Tweets',  
  'Given a set of keywords that identify objects or qualities of a photo',  
  'The voice of the Tweet should be young and energetic.',  
  'The Tweet should be in the first person talking about their experience',  
  'The Tweet should sound natural',  
  'The Tweet does not need to include every keyword',  
  `The keywords are: ${tags}`,  
  `people === 1 && 'The photo includes 1 person.'`,  
  `people > 1 && 'The photo includes ${people} people.'`,  
  'Generate 1 short sentence Tweet with a maximum of 200 characters.',  
  'The response should include nothing else other than the Tweet.',  
  'The responses should not include the following characters: ".',  
].filter(p => !!p);
```

```
const completion = await fetch('https://api.openai.com/v1/chat/completions',  
  {  
    method: 'POST',  
    body: JSON.stringify({  
      model: 'gpt-3.5-turbo',
```



## TAGS

These are the tags found by that were used to generate your tweet.

astronaut, flash photography, astronomical object, moon, asphalt, space, event, personal protective equipment, soil, monochrome, darkness, helmet, monochrome photography, carmine, person

Just had the most incredible experience exploring the moon in my astronaut helmet! The darkness, the lunar soil, and the astronomical object views were breathtaking. #space #event #personalprotectiveequipment



**tweezer.app**

colbyfayock / tweezer Public

<> Code Issues Pull requests Actions

← Files main

tweezer / README.md

colbyfayock now

11 lines (7 loc) · 124 Bytes

Preview Code Blame

# Tweezer

Post generator for the masses.

## 🤖 What's Inside?

- Next.js
- Cloudinary
- OpenAI

## 🚀 Getting Started



**tweezer.app**



Use AI To  
**INSPIRE**  
& Achieve More





# PROMPTS?

[fay.io/render](https://fay.io/render)



FREE

# Get Started with AI-Driven App Development Using the OpenAI Node.js SDK



Instructor  
Colby Fayock

OpenAI Node.js 53m · 11 lessons

★★★★☆ 4.5 41 people completed

Published a month ago | Updated 5 days ago

Bookmark

Download

RSS

*"This course will be receiving future updates!"*

"I basically use ChatGPT for everything but I feel like I'm missing something. Like I could be doing more"

ChatGPT is everyone's favorite pair programmer.



▶ Start Watching

## Free Community Resource

A Community Resource means that it's free to access for all. The instructor of this lesson requested it to be open to the public.



# THANK YOU

[fay.io/render](https://fay.io/render)

**Colby Fayock**  
@colbyfayock

