



Intro to Generative AI

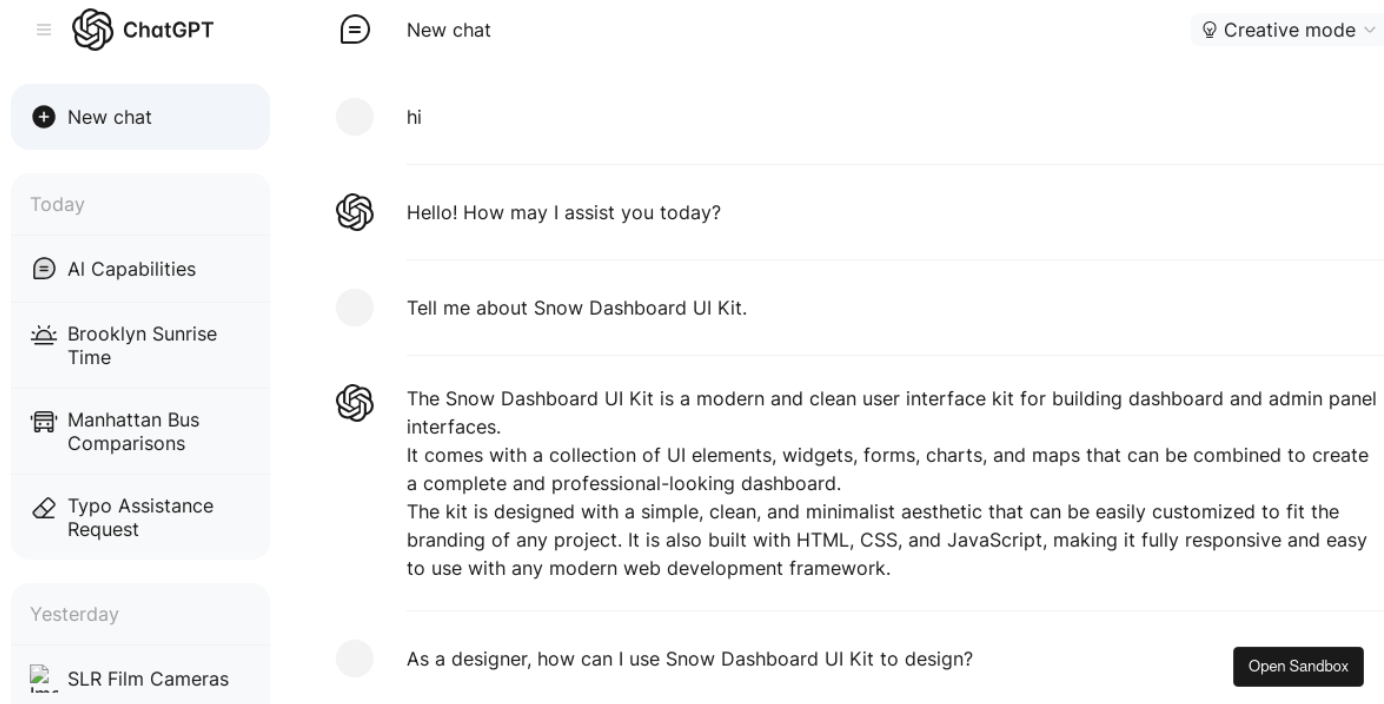
Generative AI?

- × A type of artificial intelligence that can create new content—such as text, images, music, videos, and even code—by learning patterns from existing data.
- × Typically relies on deep learning models.

Examples of Generative AI

Text Generation:

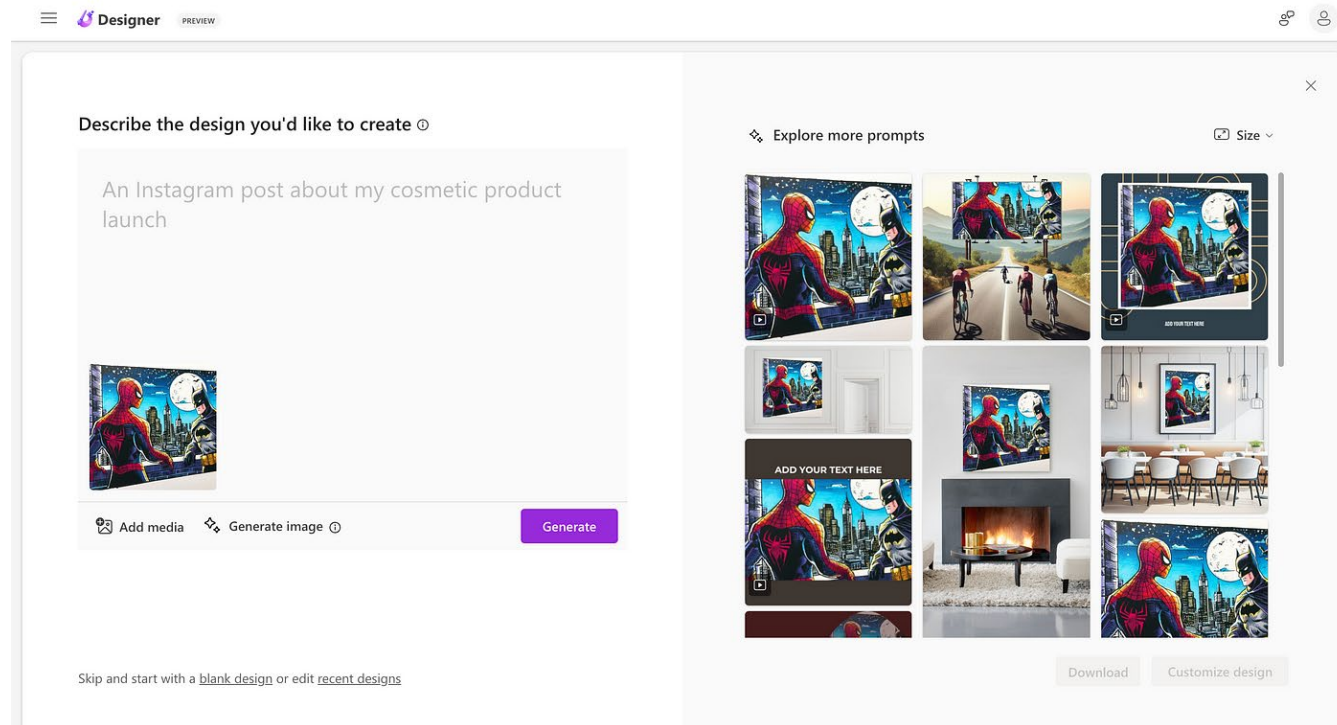
- × ChatGPT
- × Gemini
- × Claude
- × ...



Examples of Generative AI

Image Generation:

- × DALL·E
- × MidJourney
- × ...

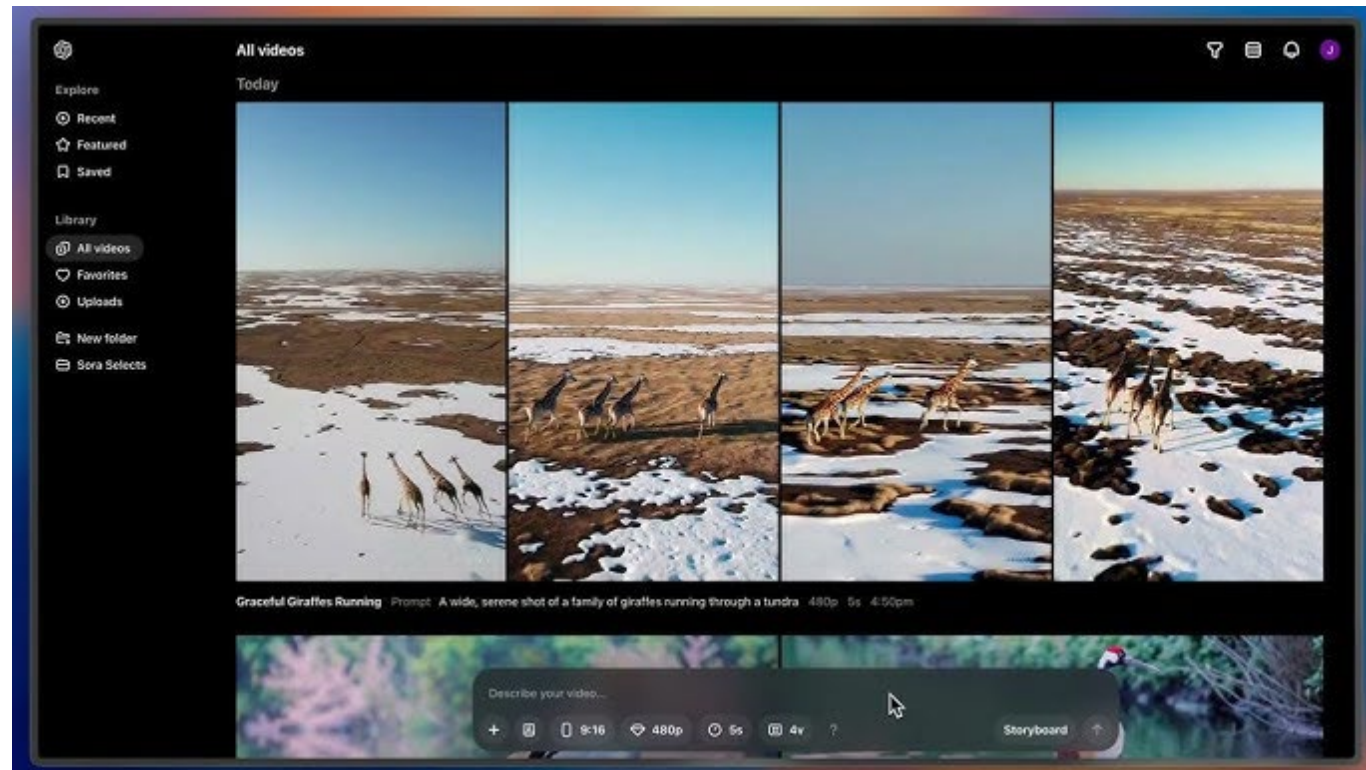


Examples of Generative AI

Video Generation:

× Sora

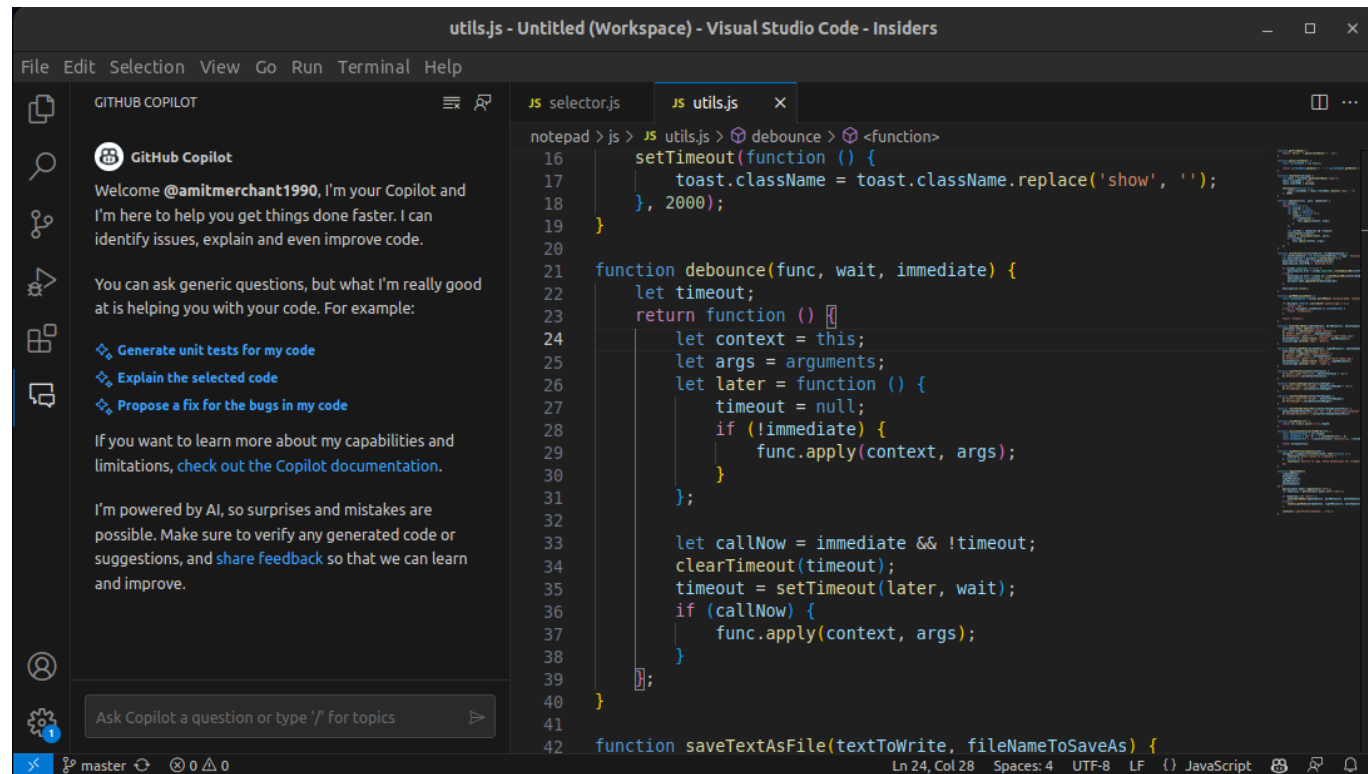
× ...



Examples of Generative AI

Code Generation:

- × GitHub Copilot
- × Cursor
- × ...



The screenshot shows the Visual Studio Code interface with the GitHub Copilot sidebar on the left. The sidebar contains a welcome message from GitHub Copilot, a list of suggested actions (Generate unit tests, Explain the selected code, Propose a fix), and a search bar. The main editor area displays a JavaScript file named 'utils.js' with the following code:

```
notepad > js > JS utils.js > debounce > <function>
16   setTimeout(function () {
17     toast.className = toast.className.replace('show', '');
18   }, 2000);
19 }
20
21 function debounce(func, wait, immediate) {
22   let timeout;
23   return function () {
24     let context = this;
25     let args = arguments;
26     let later = function () {
27       timeout = null;
28       if (!immediate) {
29         func.apply(context, args);
30       }
31     };
32
33     let callNow = immediate && !timeout;
34     clearTimeout(timeout);
35     timeout = setTimeout(later, wait);
36     if (callNow) {
37       func.apply(context, args);
38     }
39   };
40 }
41
42 function saveTextAsFile(textToWrite, fileNameToSaveAs) {
```

The status bar at the bottom indicates the current file is 'utils.js' at line 24, column 28, using UTF-8 encoding with 4 spaces.

Introducing ChatGPT

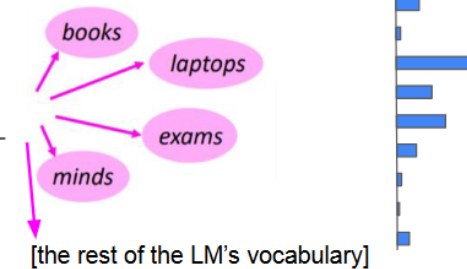
- × Advanced language model developed by OpenAI
- × What does it do:
 - × Answering questions
 - × Generating creative writing
 - × Helping with coding tasks

The ____

The students ____

The students opened ____

The students opened their ____





Chatting with
ChatGPT

ChatGPT and Coding

- × ChatGPT can assist with coding:
 - × Generating new code
 - × Debugging errors
 - × Explaining complex concepts

Hands-On Challenge

- × ChatGPT to generate Python code
- × Challenge options:
 - × Temperature conversion (Fahrenheit to Celsius)
 - × Sum numbers from 1 to 100
 - × Simple text-based adventure game

Ethics, Risks, and the Future of AI

- × What excites you about AI?
- × What are you concerned about?