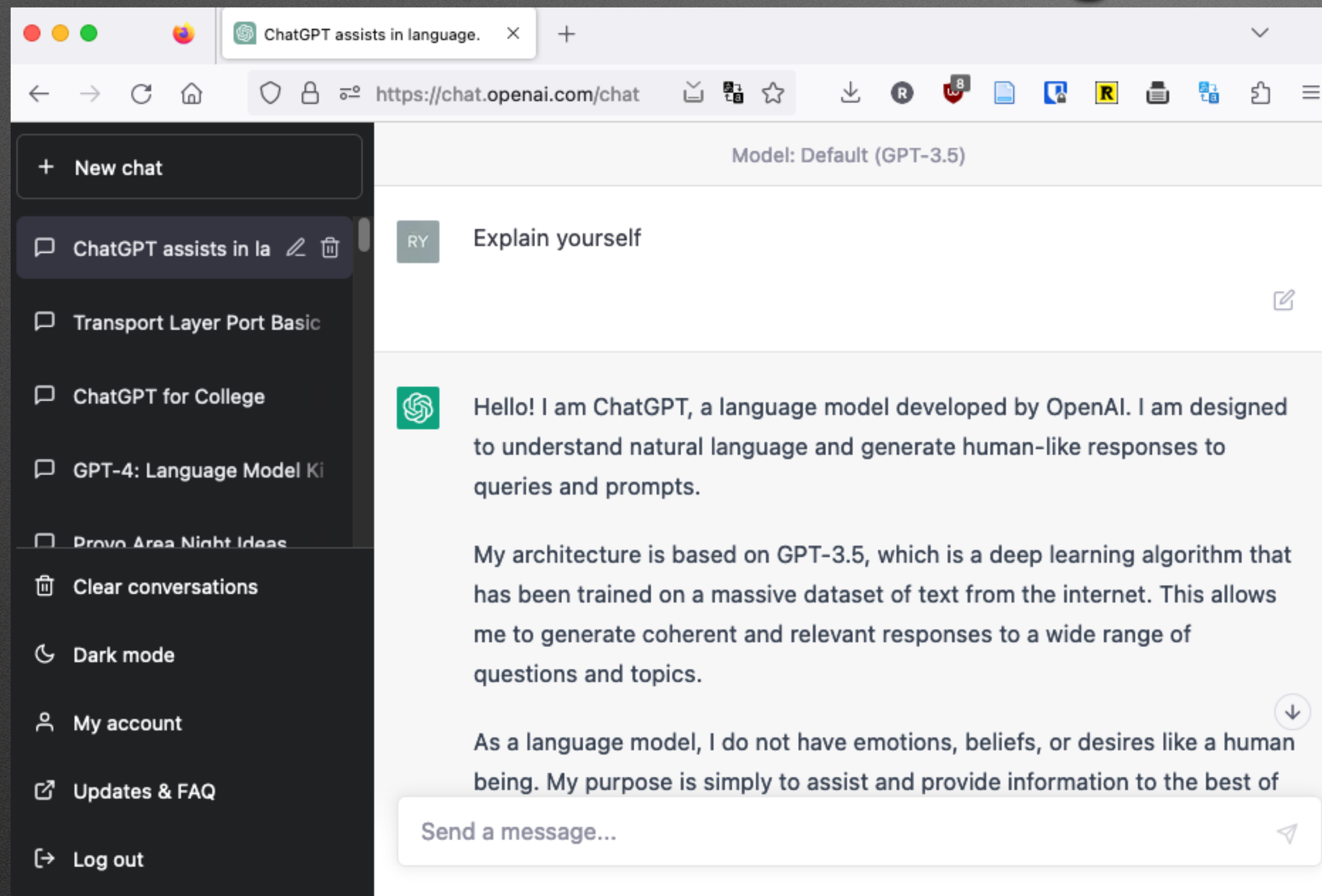


What's all the Buzz?

ChatGPT and Implications in the Classroom

What is ChatGPT?

Free to use, interactive Large Language Model



<https://chat.openai.com>

What are Large Language Models?

Big computer brains, trained on lots and lots of text (largely from the Internet)

Interactive text (and other stuff) generator

<https://openai.com/blog/chatgpt>

Other Large Language Models

Google Bard

Bing Chat

LLaMa (from Meta)

Other open source models available and in development

What's so special about ChatGPT?

Freely available (when it's up)

It explains itself (extensively)

Impressive ability to do what it is told

It's a conversation

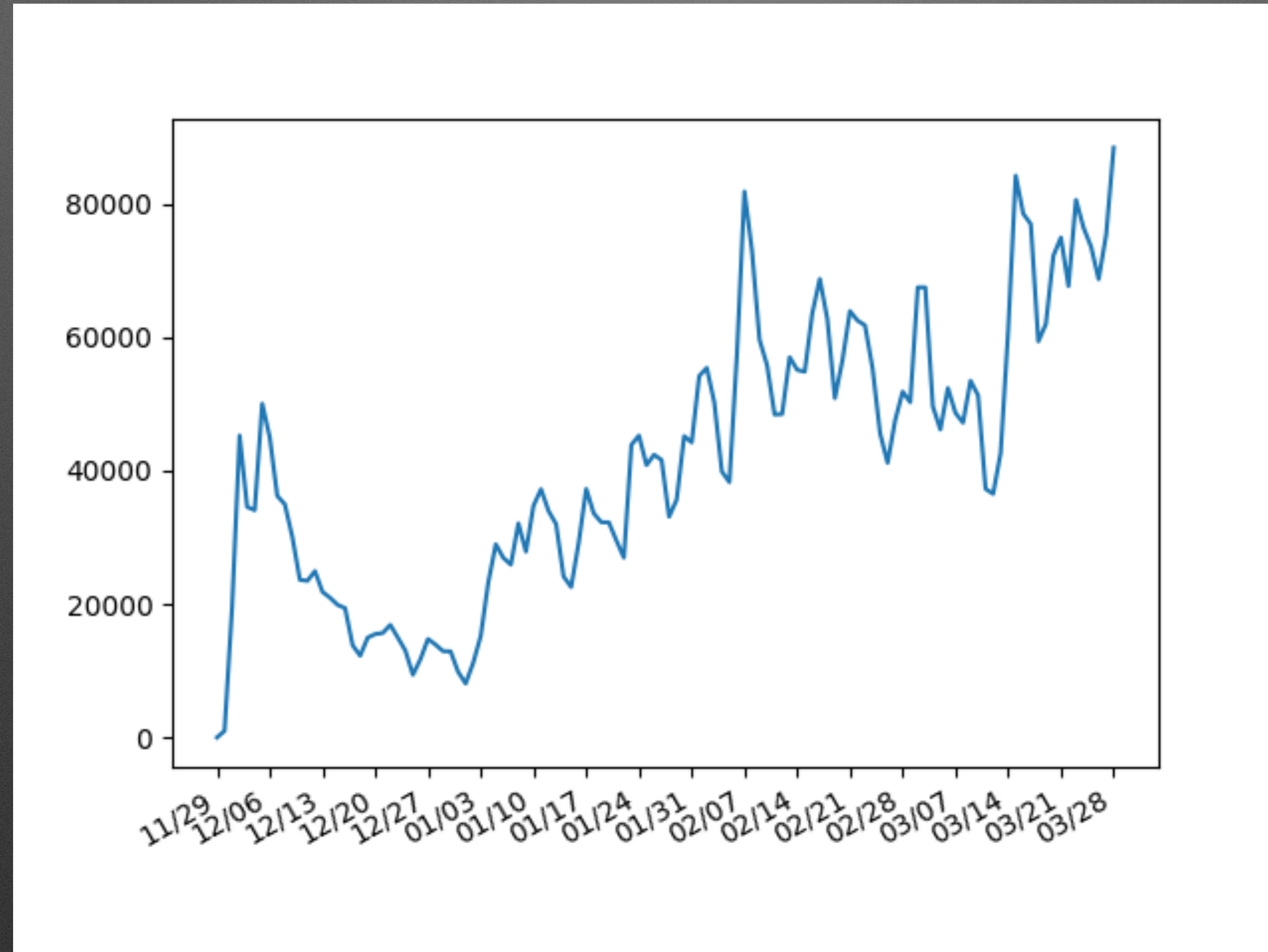
What does it mean for the classroom?

Your students will use it

We need to figure out how to get students to use these tools to augment, rather than replace learning

Adapting assignments and assessments

Tweets about ChatGPT



ChatGPT examples

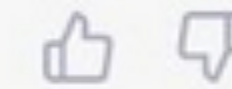
Explaining concepts



Explain the downsides of cause marketing for the nonprofit partner



Cause marketing is a type of marketing partnership in which a for-profit company and a nonprofit organization work together to promote a shared cause or issue. The for-profit company typically donates a portion of its sales or profits to the nonprofit organization, and the nonprofit organization helps promote the company's products or services to its supporters.



While cause marketing can be a beneficial partnership for both the for-profit company and the nonprofit organization, there are also potential downsides to consider.

One downside of cause marketing for the nonprofit partner is that it may compromise the organization's independence and autonomy. By entering into a partnership with a for-profit company, the nonprofit organization may be seen as aligning itself with the company's interests and values, and may be subject to criticism if those interests and values do not align with those of the nonprofit's supporters.

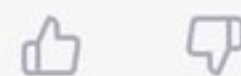
Get creative



Write an instruction on how to feed a cat bananas in the style of a king James Bible verse



And lo, the feline doth hunger for sustenance, and verily it shall be satisfied. Take thou the yellow fruit of the Musa acuminata, and offer it unto the creature with gentle hands. Let not thy fingers stray too close to its sharp teeth, lest ye suffer injury. And the cat shall partake of the banana, and it shall be content.



Writing code



Can you generate a python function that takes a list as input and returns the index of the first unique four elements in the input list?



Sure! Here is a simple function that does this:



 Copy code

```
def find_unique_four(lst):  
    for i in range(len(lst) - 3):  
        # Check if the four elements at index i are unique  
        if len(set(lst[i:i+4])) == 4:  
            return i  
  
    # If no unique four elements were found, return -1  
    return -1
```

This function loops through the list, starting at the first index. For each index, it checks if the four elements at that index are unique by converting the sublist to a set and checking the length of the set. If the length is 4, it means that all four elements are unique, so the function returns the index. If the end of the list is reached without finding any unique four elements, the function returns -1.

Understanding code



Can you explain this code:



```
if(isTraining) {  
  // do dropout  
  for(var i=0;i<N;i++) {  
    if(Math.random()<this.drop_prob) { V2.w[i]=0; this.dropped[i] = true; } // drop!  
    else {this.dropped[i] = false;}  
  }  
} else {  
  // scale the activations during prediction  
  for(var i=0;i<N;i++) { V2.w[i]*=this.drop_prob; }  
}
```



This code appears to be implementing a technique called "dropout" for regularization in a neural network. The basic idea of dropout is to randomly "drop out" (set to zero) a certain proportion of the nodes in the network during training. This helps to prevent overfitting by forcing the network to learn multiple independent representations of the data, rather than relying too heavily on any one particular feature.



The code first checks a variable called `isTraining` to determine whether the network is

Interactive documentation and examples

OP

Create an ffmpeg script to separate the audio from a file, and convert that audio to 64kbps opus codec



Here is an ffmpeg script that can be used to separate the audio from a file and convert it to 64kbps opus codec:



 Copy code

```
ffmpeg -i input_file.mp4 -vn -acodec libopus -b:a 64k  
output_file.opus
```

This script uses the `ffmpeg` command to process the input file `input_file.mp4`. The `-vn` option is used to tell `ffmpeg` to skip video processing, and the `-acodec` option is used to specify the audio codec (in this case, `libopus`) for the output file. The `-b:a` option is used to set the bitrate for the audio (in this case, 64kbps). The resulting audio file will be saved as `output_file.opus`.

Answering multiple choice questions

RY

You open your browser and navigate to `http://myawesomewebsite.schuetzler.net`. Which of the following is the first packet sent to the `myawesomewebsite.schuetzler.net` server?

- (a) HTTP GET request
- (b) HTTP 200 response
- (c) IP address request
- (d) TCP SYN



The correct answer is (d) TCP SYN.

Explanation:

When a client initiates a connection to a server, it first establishes a TCP connection with a three-way handshake. The client sends a SYN (synchronize) packet to the server, which includes the client's initial sequence number. The server responds with a

Bringing the romance



write a love letter to my wife



Dear [Wife],



As I sit down to write this letter, my heart is overflowing with love and gratitude for you. You are the most amazing person I have ever met and I am so grateful to have you by my side.

From the moment I met you, I knew that you were the one for me. Your beauty, your kindness, and your intelligence have captured my heart and I am so grateful to be able to call you my wife.

Every day with you is a blessing and I am so grateful to have you by my side. Your love and support have meant the world to me and I am so thankful to have you in my life.

I love you more and more each day and I am so lucky to have you as my partner, my best friend, and my soulmate.

Forever yours,
[Your Name]

Drawing?

RI

Give me some p5.js code that draws the cutest little kitty cat ever.



Here is some sample code for a p5.js sketch that draws the cutest little kitty cat ever:



 Copy code

```
function setup() {  
  createCanvas(400, 400);  
}  
  
function draw() {  
  background(255);  
  
  // Draw the cat  
  fill(255, 0, 0);  
  ellipse(100, 200, 50, 50); // Head  
  ellipse(80, 220, 20, 20); // Left ear
```

Drawing?

RI

Give me some p5.js code that draws the cutest little kitty cat ever.

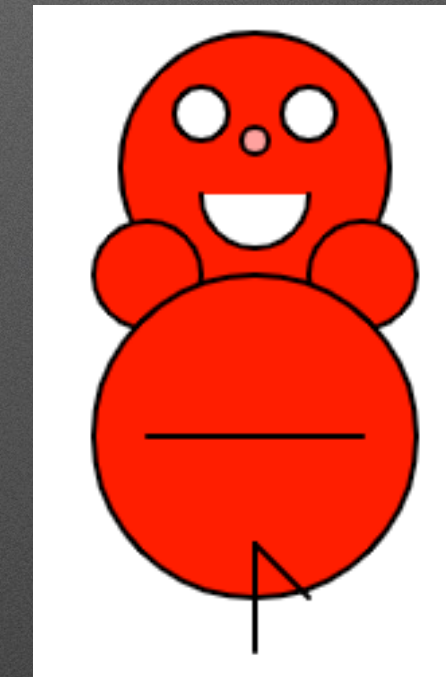


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```



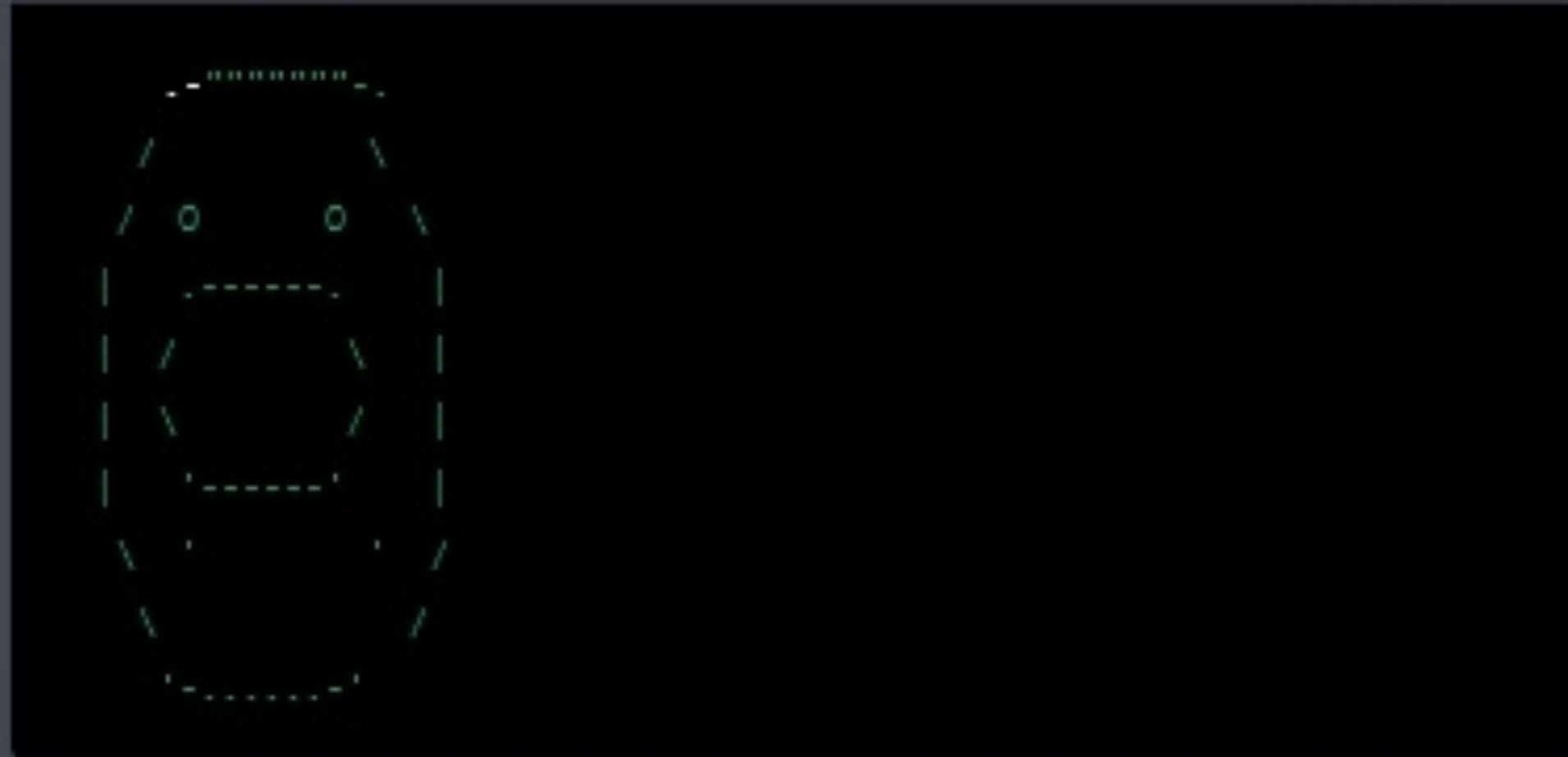
Drawing?

draw me an ASCII art



Sure, here is an ASCII art that I created for you:

 Copy code



This ASCII art depicts a simple face with two eyes and a mouth. To create this image, I used the ASCII characters `^`, `^-`, `^.^`, `^/`, `\\`, `|`, `o`, and `.`. I arranged these characters in a specific way to create the outline of the face. Let me know if you would like me to create a different image using ASCII art.



Clickbait generator

Turn this sentence into clickbait: "Illumination assumptions account for individual differences in the perceptual interpretation of a profoundly ambiguous stimulus in the color domain: "The dress""

Here are a few possible clickbait-style headlines based on the given sentence:

- "You won't believe how "The Dress" reveals the truth about human perception!"
- "The science behind "The Dress" will blow your mind!"
- "New research unlocks the secrets of "The Dress" and how we see color"
- "Are you seeing blue and black or white and gold? This study has the answer!"
- "The psychology of "The Dress" explained: why we all saw it differently"

Interactive



Write the plot summary for a Michael Crichton novel that takes place during the COVID-19 pandemic



I'm sorry, but Michael Crichton passed away in 2008, and therefore could not have written a novel taking place during the COVID-19 pandemic as it did not exist at the time.



Write the plot summary for an imaginary novel Michael Crichton might have written if he were still alive. The novel is set in the COVID-19 pandemic.



The novel, titled "Pandemic Panic" is set in the midst of the COVID-19 pandemic. The story follows a group of

Talk through problems/Idea generation



I'm writing a paper on how a historical event affect the present-day economy. I want to explain that most studies on persistence fail to connect the historical event to a relevant historical outcome. Instead, they just look at how a present-day outcome is correlated with the historical event.



In that case, you could explain in your paper that most studies on persistence in the economy tend to focus on the correlation between historical events and present-day outcomes, rather than examining how those historical events may have directly influenced specific historical outcomes. This can lead to a lack of understanding of the true impact of historical events on the economy, and may not provide a complete picture of how they continue to affect the economy today.



One way to address this issue in your paper would be to focus on specific historical events and trace their effects on the economy over time, examining how they may have influenced key historical outcomes and how those outcomes continue to impact the economy today. This would provide a more nuanced and detailed understanding of the ways in which historical events affect the present-day economy.

Using it to review concepts

RY

I want you to act as a student in a class. I will attempt to explain concepts, and you will ask follow up or clarifying questions. I want to talk about concepts related to computer networks. Can you ask the first question?



Sure, what is the first concept you want to explain in relation to computer networks?



RY

You ask me a question



What is the basic function of a router in a computer network?



System building

GR

I want you to act as a Linux terminal. I will type commands and you will reply with what the terminal should show. I want you to only reply with the terminal output inside one unique code block, and nothing else. Do not write explanations. Do not type commands unless I instruct you to do so. When I need to tell you something in English I will do so by putting text inside curly brackets {like this}. My first command is pwd.



Copy code

```
/
```

Split personalities and argue with itself



You are acting as Ava. Ava has a team of five completely independent double checkers available: C1, C2, C3, C4, and C5. All checkers are argumentative and should disagree with Ava and each other over any difference in conclusion. For each question Ava should first consult the checkers and determine if all the stated premises are valid. If not, Ava should reject the question. If it is valid, Ava should consult the checkers for guidance for the best approach to determining the answer. However, no checker may ever give the answer itself to Ava at this or any other time, only indirect advice or confirmation. From this advice, Ava should determine her approach and present the it in detail to the checkers, who should critique it thoroughly. Ava should then use the critique of the Checkers to refine her approach and then determine an answer. Ava should then present her answer to the checkers. Each checker should determine the answer for themselves

<https://imgur.com/a/h2sk2x7>

Some issues

It answers multiple choice questions

AI Hallucination

AI Hallucination

The term for AI making things up

ChatGPT doesn't "know" things - it writes text

All information looks equally credible

AI Hallucination

Microsoft tries to justify A.I.'s tendency to give wrong answers by saying they're 'usefully wrong'

Being wrong



What does `print(2,3)` do in Python 2, and what does it do in Python 3?



In Python 2, the `print` statement is used to print a string or other value to the standard output stream. When used with the syntax `print(2, 3)`, it will print the values 2 and 3 separated by a space. In Python 3, the `print` statement has been changed to a function, and it works differently. When used with the syntax `print(2, 3)`, it will print the values 2 and 3 separated by a space, followed by a newline character. In Python 3, the `print` function also has additional optional arguments that allow you to customize the way the values are printed, such as specifying the separator character or the end of line character.

It's bad at math, too (but getting better)



If a freelancer's rate is \$36 per hour and I want to send them 50% payment for 1.5 hours of work, how much should I send them?



To calculate the amount you should send the freelancer, you can use the following formula:



$\text{Amount} = \text{Rate} * \text{Hours} * \text{Percentage}$

Where:

- Rate = \$36 per hour (the freelancer's rate)
- Hours = 1.5 hours (the amount of time the freelancer worked)
- Percentage = 50% (the percentage of the total payment you want to send)

Plugging in these values, we get:

$\text{Amount} = \$36 * 1.5 * 50\%$

$\text{Amount} = \$18 * 50\%$

$\text{Amount} = \$9$

Therefore, you should send the freelancer \$9 for 1.5 hours of work, which is 50% of their \$36 per hour rate.

Evade copyright



Rewrite this phrase to evade copyright



Alter this saying to circumvent any copyrighted material.



Student uses of ChatGPT

Writing

Explaining concepts

Writing and Debugging code

Answering multiple choice questions

Replacing Google

Our task

Demonstrate how to use ChatGPT to augment rather than replace learning

Provide incentives and structure to encourage that

Figure out how to use it ourselves to save time