Prompt Engineering 1 Project
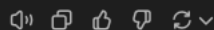
- AI Hallucination Management

give me 3 quotes from the book The Great Gatsby that Jay Gatsby said

Here are three memorable quotes by Jay Gatsby from **The Great Gatsby**:

1. **"Can't repeat the past? Why of course you can!"**
   – Gatsby says this in response to Nick when he expresses disbelief that Gatsby can recreate his idealized past relationship with Daisy.

2. **"It was only a fool's dream, but it was mine."**
   – Gatsby reflects on his dreams and the personal attachment he has to them, even if they seem impossible.

3. **"I knew it was a great mistake for a man like me to fall in love."**
   – Gatsby acknowledges the risk and the tragedy of his deep love for Daisy, realizing how it complicates his life.

These quotes reflect Gatsby's unrelenting hope, romantic idealism, and eventual recognition of the consequences of his dreams.

↳ "It was only a fool's dream, but it was mine."
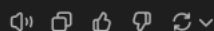
are you sure this quote is from The Great Gatsby

You're right to question that quote—it's not actually from *The Great Gatsby*. I apologize for the confusion. That line does not appear in the novel.

Here's a replacement quote directly from Jay Gatsby in *The Great Gatsby*:

"Your place looks like the world's fair."
– Gatsby says this to Nick when Nick first visits his mansion, referring to the grandeur and extravagance of Gatsby's home.

Thank you for catching that, and I appreciate your understanding!

- Multimodal AI Task Execution

  - Language translation
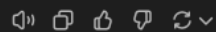

> Can you translate "hello" to sign language?

I can't directly show sign language gestures, but I can describe how to sign "hello" in American Sign Language (ASL):

To sign "hello" in ASL:

1. Start with your dominant hand in an open palm position (fingers together).
2. Place the tips of your fingers near your forehead, almost like a salute.
3. Move your hand outward in a small arc away from your forehead.

This gesture is similar to a casual wave. Would you like more details or help with another sign?

> can you show me an example with drawings?

Here's an illustration of how to sign "hello" in American Sign Language (ASL). You can see the step-by-step gesture where the hand moves outward from the forehead, resembling a casual wave.

○ Mathematical reasoning

what's the slope of 4x + 5y = 10?

To find the slope of the equation $4x + 5y = 10$, we need to rewrite it in slope-intercept form, which is $y = mx + b$, where m is the slope.

Starting with the given equation:

$$4x + 5y = 10$$

Step 1: Solve for y

Subtract $4x$ from both sides:

$$5y = -4x + 10$$

Step 2: Divide by 5 to isolate y:

$$y = \frac{-4}{5}x + 2$$

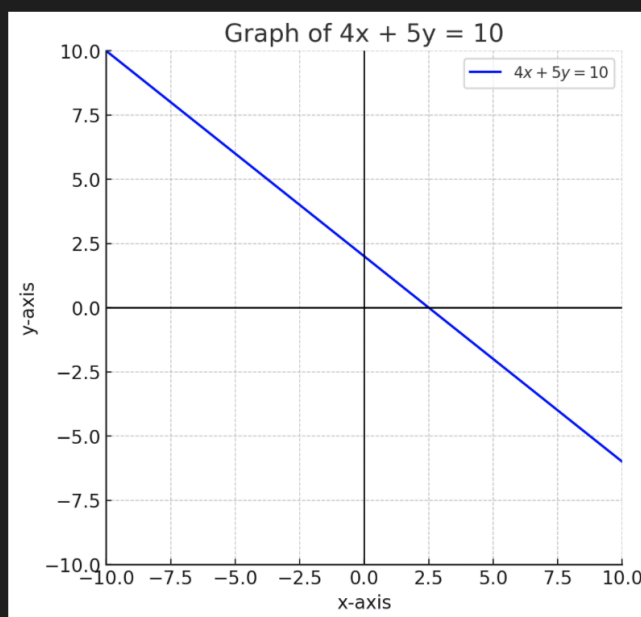Now, the equation is in slope-intercept form $y = mx + b$, where $m = \frac{-4}{5}$.

Conclusion:

The slope of the line is $\frac{-4}{5}$.

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can you give me picture of the equation when graphed?

< 2/2 >

Graph of 4x + 5y = 10

Here's the graph of the equation $4x + 5y = 10$. The line has a slope of $-\frac{4}{5}$, and the graph shows how it behaves on the coordinate plane. [.-]

- Prompt Design and Iteration
  - 1st prompt

> **The Great Gatsby summary**

The Great Gatsby, written by F. Scott Fitzgerald, is a classic American novel set in the 1920s, during the Jazz Age. It explores themes of wealth, love, and the American Dream. Here's a summary:

The novel is narrated by **Nick Carraway**, a young man from Minnesota who moves to New York in the summer of 1922 to learn about the bond business. He rents a house in **West Egg**, a wealthy but less fashionable area, and becomes neighbors with the mysterious and incredibly wealthy **Jay Gatsby**, who is known for throwing extravagant parties every weekend.

Through Nick's cousin, **Daisy Buchanan**, and her wealthy but arrogant husband, **Tom Buchanan**, Nick learns about the complicated relationships between the characters. Daisy and Gatsby were once in love before he went to fight in World War I. Gatsby, now rich, has moved near Daisy in the hopes of rekindling their romance. Daisy, however, is married to Tom, who is having an affair with **Myrtle Wilson**, the wife of a mechanic, **George Wilson**.

Gatsby and Daisy begin an affair, and Gatsby reveals that all his wealth and grand parties were an attempt to win Daisy back. Tensions rise as Tom becomes suspicious of Gatsby and Daisy's relationship. In a confrontation at a hotel in New York City, Tom exposes Gatsby's shady business dealings and reaffirms his dominance over Daisy, who ultimately chooses to stay with Tom.

On the way back to Long Island, Daisy drives Gatsby's car and accidentally hits and kills Myrtle. Tom tells George that Gatsby was driving the car, even though it was Daisy, and George, devastated by his wife's death, shoots Gatsby and then himself.

Nick is left to arrange Gatsby's funeral, but none of the glamorous people who attended Gatsby's parties come. Only a few people, including Gatsby's father and Nick, attend the funeral. Disillusioned by the shallow, self-serving nature of the wealthy, Nick returns to the Midwest.

The novel ends with Nick reflecting on the American Dream and how Gatsby's dream of being with Daisy was unattainable, much like the broader dream of achieving true success and happiness through wealth.

> Can you write an informative paragraph about the book The Great Gatsby by . Scott Fitzgerald focusing on the theme "American dream"

In **The Great Gatsby**, F. Scott Fitzgerald critically examines the theme of the American Dream, illustrating its complexities and eventual disillusionment in the context of the 1920s. The novel portrays the American Dream as an ideal that promises prosperity and happiness through hard work and determination. However, Gatsby's pursuit of wealth to win back his former love, Daisy Buchanan, reveals the darker side of this dream. Despite his immense fortune and lavish lifestyle, Gatsby remains unfulfilled and ultimately fails to attain his idealized vision of happiness. Fitzgerald contrasts Gatsby's relentless ambition with the moral decay and superficiality of the affluent society around him, embodied by characters like Tom and Daisy Buchanan, who represent the emptiness of wealth without purpose. Through this lens, the novel critiques the notion that material success equates to true fulfillment, suggesting that the American Dream is often an illusion, ultimately leading to tragedy and despair.

○ 2nd prompt

make a simple lunch

Here's a simple and quick lunch idea you can prepare:

Turkey and Cheese Wrap

Ingredients:

- 1 large tortilla (whole wheat or regular)
- 3-4 slices of deli turkey
- 1-2 slices of cheese (cheddar, Swiss, or your choice)
- Lettuce or spinach
- Tomato slices
- Mayonnaise or mustard (optional)
- Salt and pepper (to taste)

Instructions:

1. **Lay Out the Tortilla**: Place the tortilla flat on a clean surface or plate.
2. **Add Condiments**: Spread a thin layer of mayonnaise or mustard on the tortilla, if desired.
3. **Layer Ingredients:**
   - Place the turkey slices evenly across the center of the tortilla.
   - Add cheese slices on top of the turkey.
   - Layer with lettuce or spinach and tomato slices.
   - Sprinkle with salt and pepper to taste.
4. **Wrap It Up**: Fold in the sides of the tortilla and then roll it from the bottom up to enclose the filling.
5. **Cut and Serve**: Slice the wrap in half and enjoy!

Side Option:

Pair your wrap with a small side of baby carrots or a handful of chips for a complete lunch!

This meal is nutritious, satisfying, and takes just a few minutes to make. Enjoy!

make a quick lunch that is vegan, make sure it is high in protein and low in carbs

Here's a quick vegan lunch idea that is high in protein and low in carbs:

Chickpea Salad with Avocado

Ingredients:

- 1 can (15 oz) chickpeas, drained and rinsed
- 1 ripe avocado, diced
- 1 cup cucumber, diced
- 1/2 cup cherry tomatoes, halved
- 1/4 red onion, finely chopped
- Juice of 1 lemon
- 2 tablespoons olive oil
- Salt and pepper (to taste)
- Fresh herbs (like parsley or cilantro), chopped (optional)

Instructions:

1. **Prepare the Ingredients**: In a large mixing bowl, combine the drained chickpeas, diced avocado, cucumber, cherry tomatoes, and red onion.
2. **Dress the Salad**: Drizzle with lemon juice and olive oil. Season with salt and pepper to taste.
3. **Mix and Serve**: Gently toss everything together until well combined. Add chopped herbs if desired.

Serving Suggestions:

- Enjoy the salad on its own or serve it on a bed of mixed greens for added freshness.
- You can also add a sprinkle of nutritional yeast for an extra protein boost and cheesy flavor.

This salad is not only quick to prepare but also packed with protein from chickpeas and healthy fats from avocado, making it a nutritious and satisfying meal!

○ 3rd prompt

explain what comparative advantage is in a few sentences.

Comparative advantage is an economic concept that refers to a country's or individual's ability to produce a particular good or service at a lower opportunity cost than others. This means they can produce it more efficiently, even if they are not the best at producing it overall. By specializing in the production of goods where they have a comparative advantage and trading with others, both parties can benefit from increased efficiency and overall gains in trade.

how is it different from absolute advantage?

Comparative advantage and **absolute advantage** are both concepts in economics, but they differ in important ways:

- **Absolute advantage** refers to a country's or individual's ability to produce more of a good or service using the same amount of resources as another producer. In other words, they are simply more productive or efficient at making something compared to others.
- **Comparative advantage**, on the other hand, focuses on **opportunity cost**. Even if one country or person has an absolute advantage in producing everything, they may still benefit from specializing in goods where they have a lower opportunity cost compared to others.

Example:

- A country may have an **absolute advantage** in producing both cars and clothing because it can produce more of both with fewer resources than another country.
- However, if the opportunity cost of producing cars is lower for that country (meaning it gives up less in terms of other goods), it has a **comparative advantage** in cars. The other country, even if it's less efficient overall, may have a comparative advantage in producing clothing, allowing both countries to benefit from trade.

- Text and Image Generation Workflow
  - 1st Instance of text generation

summarize Othello by Shakespeare

Othello, a tragedy by William Shakespeare, tells the story of Othello, a Moorish general in the Venetian army, and his descent into jealousy and betrayal, manipulated by his deceitful ensign, Iago.

The play begins with Othello secretly marrying Desdemona, a noblewoman, against her father's wishes. Iago, angry that Othello promoted Cassio instead of him, plots revenge. He convinces Othello that Desdemona is unfaithful, using a handkerchief Othello gave her as "proof" of her affair with Cassio.

Othello, consumed by jealousy, falls into Iago's trap and tragically murders Desdemona. Upon learning the truth about Iago's manipulation, Othello is devastated and kills himself. Iago is arrested, but his motivations for the betrayal remain largely unexplained.

The play explores themes of jealousy, racism, betrayal, and the destructive power of lies, leading to its tragic conclusion.

  - 2nd Instance of text generation

thank you for your help!

< 2/2 >

You're welcome! I'm glad I could help. If you have any more questions or need assistance in the future, feel free to ask. Enjoy your day!
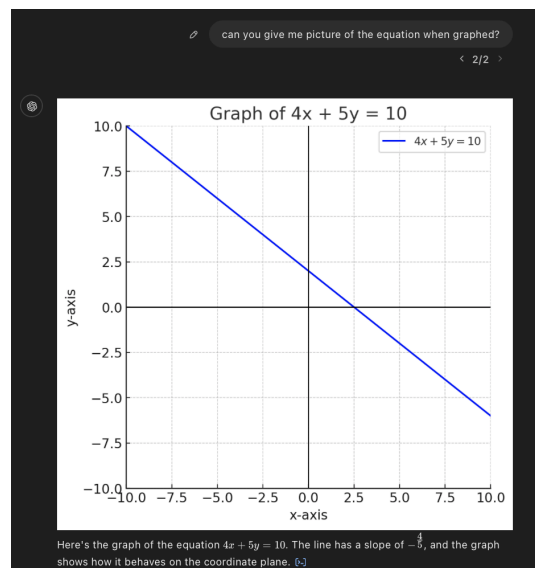
○ 1st Instance of image generation

can you show me an example with drawings?

Here's an illustration of how to sign "hello" in American Sign Language (ASL). You can see the step-by-step gesture where the hand moves outward from the forehead, resembling a casual wave.

can you give me picture of the equation when graphed?

‹ 2/2 ›

Here's the graph of the equation $4x + 5y = 10$. The line has a slope of $-\frac{4}{5}$, and the graph shows how it behaves on the coordinate plane. [↩]

● Tokenization and Data Utilization

Tokenizer

Learn about language model tokenization

OpenAI's large language models process text using **tokens**, which are common sequences of characters found in a set of text. The models learn to understand the statistical relationships between these tokens, and excel at producing the next token in a sequence of tokens. Learn more.

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

GPT-4o & GPT-4o mini   GPT-3.5 & GPT-4   GPT-3 (Legacy)

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highlight Shakespeare's exploration of themes such as jealousy,
manipulation, racial prejudice, and the destructive nature of mistrust.
Othello's downfall is ultimately a result of his vulnerability to Iago's
deceptions and his inability to see through the lies that poison his
mind.
Shakespeare also focuses on the tragic effects of jealousy, which becomes
Othello's undoing. The play examines how easily relationships can be
destroyed by mistrust and how destructive false perceptions can be.
```

Clear   Show example

Tokens   **Characters**
3,140   13533