

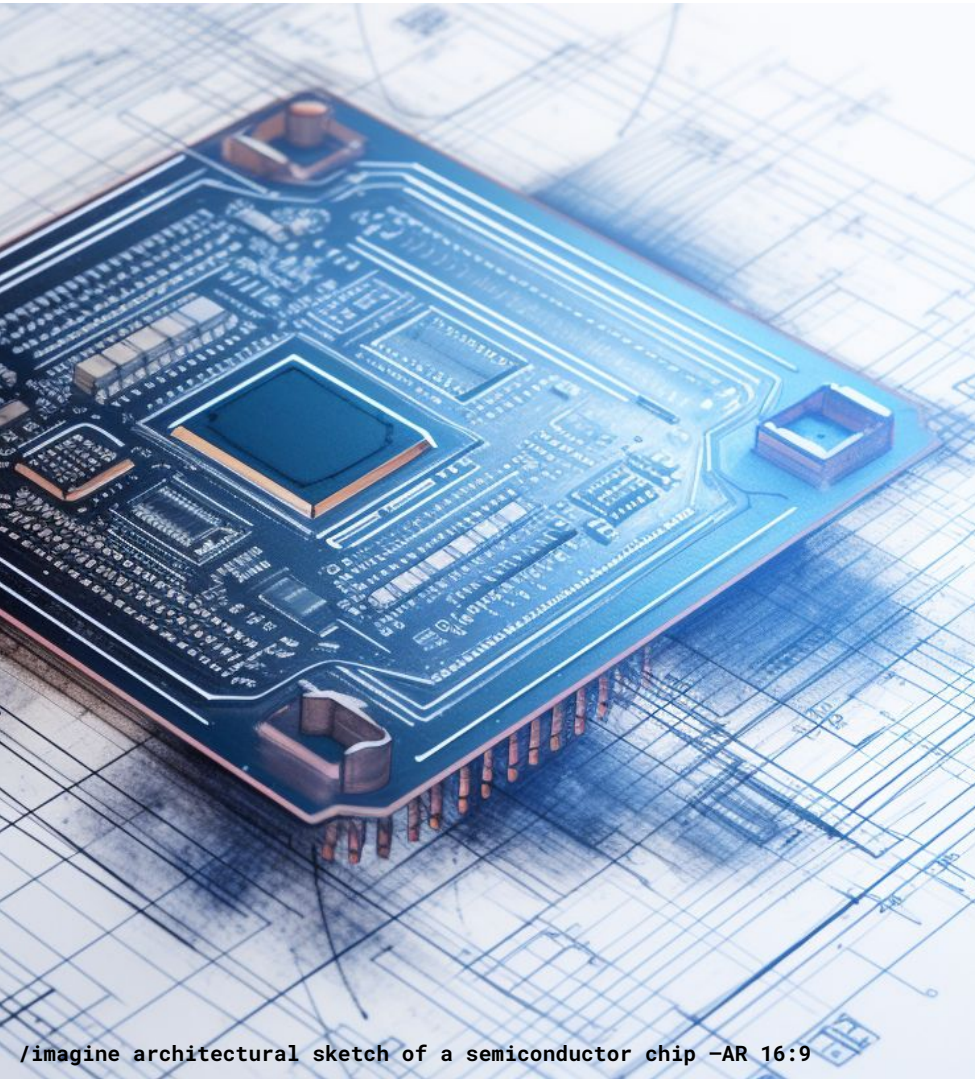
An Introduction to Generative AI Capabilities

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Last Updated: November 14, 2023



/imagine architectural rendering of an office of the future with desks, augmented displays, computers, books, and tiny robot AI assistants. mid century modern.



GenAI is best experienced through examples. These slides showcase GenAI's capabilities across diverse use cases to make the technology and its potential more tangible. Originally created to demonstrate GenAI for a SxSW keynote, the collection has grown over time with more prompts that illustrate innovative uses.

We welcome your feedback and invite you to contribute your own GenAI examples to further expand everyone's understanding of what's possible.

For the best experience, please view the slides in Slideshow mode

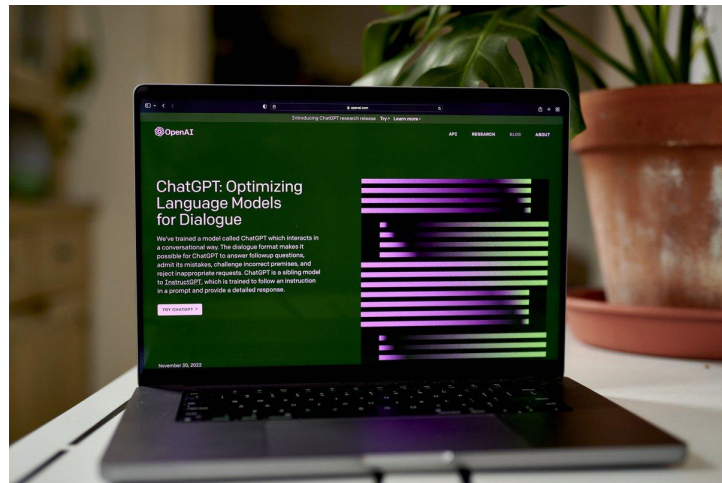
Generative AI

Generative AI describes systems that can create new content, including audio, computer code, images, text, and videos.

Large Language Models (LLM) are a sophisticated AI system designed to understand and generate human-like text based on vast amounts of data.

By processing and learning from billions of sentences and phrases, the LLM builds an intricate understanding of grammar, syntax, and context. When given an input or prompt, it intelligently searches its extensive knowledge to produce coherent, contextually relevant, and creative responses.

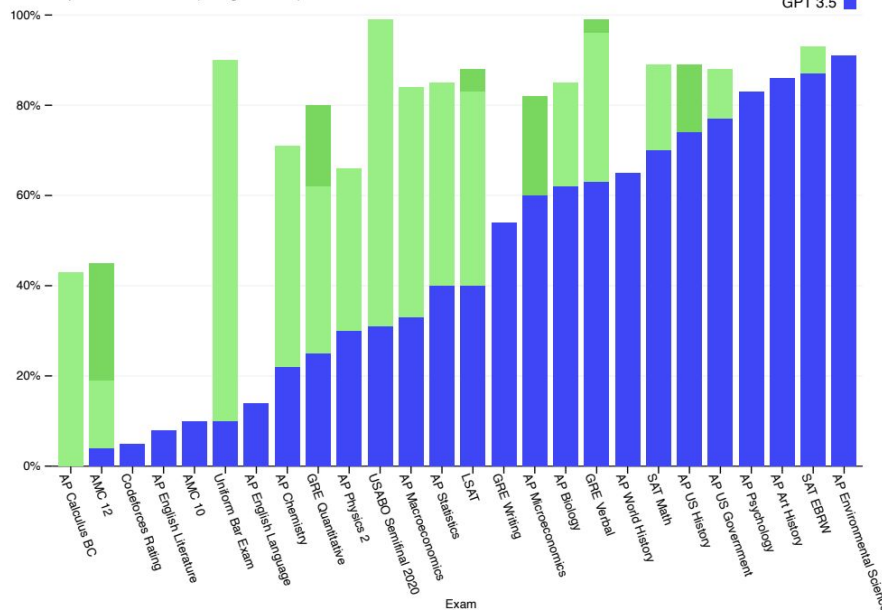
LLMs can perform a wide range of tasks with more being discovered each day.



Chat GPT-4 is able to pass most high school and college tests

Exam results (ordered by GPT 3.5 performance)

Estimated percentile lower bound (among test takers)



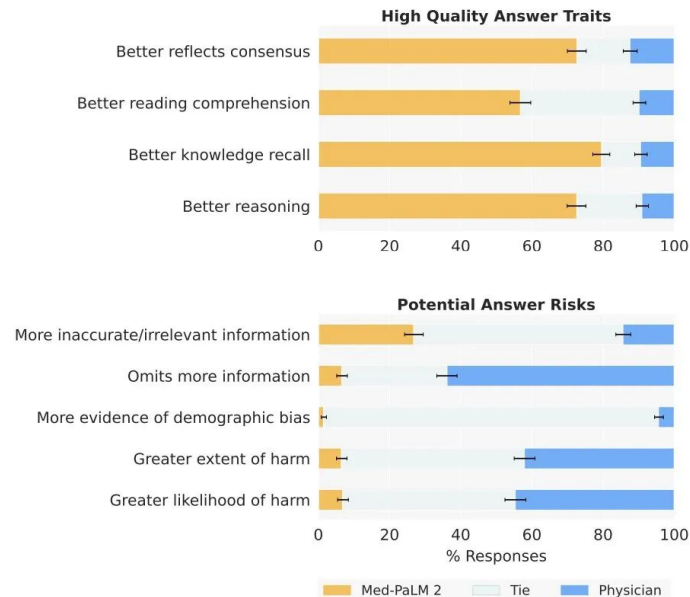
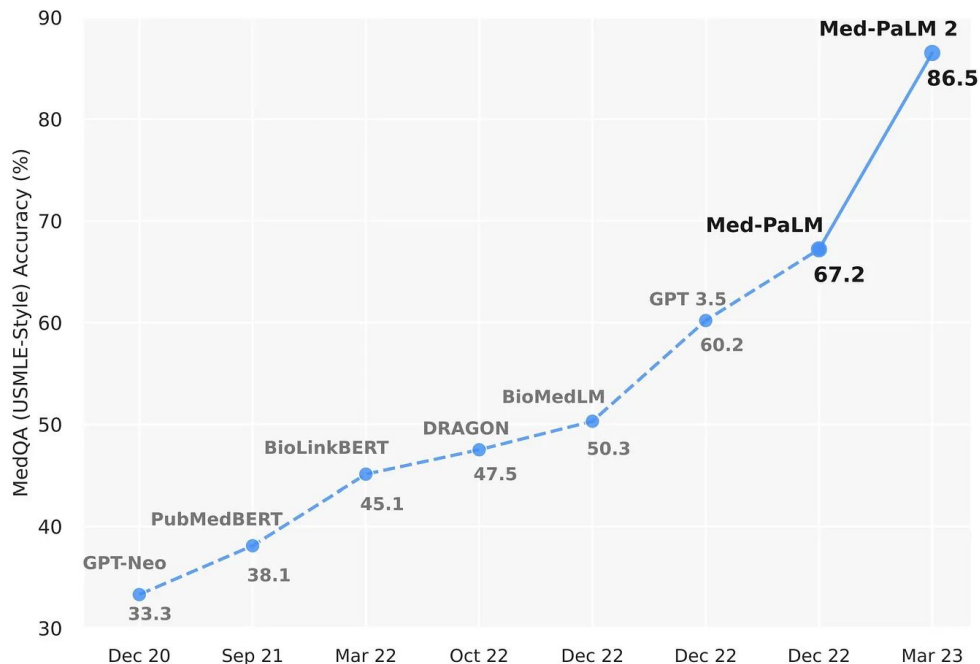
There was no specific training for these exams.

Many of the exams include written responses, not just multiple choice.

More important is the improvement from GPT-3 (blue) to GPT-4 (green).

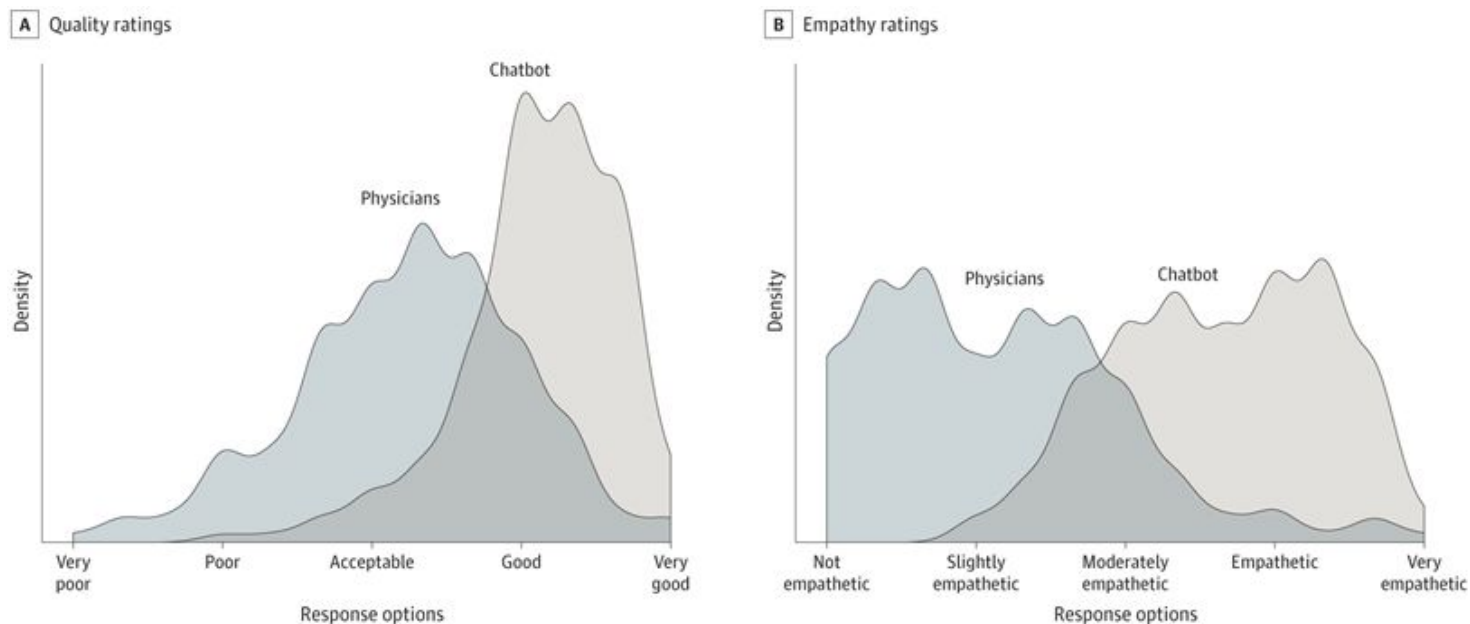
Google's PaLM2 outscored human physicians

Physicians preferred MedPaLM2's long-form answers to answers from real physicians. Lay raters also found MedPaLM-2 more helpful.



Generative AI can be surprisingly empathetic

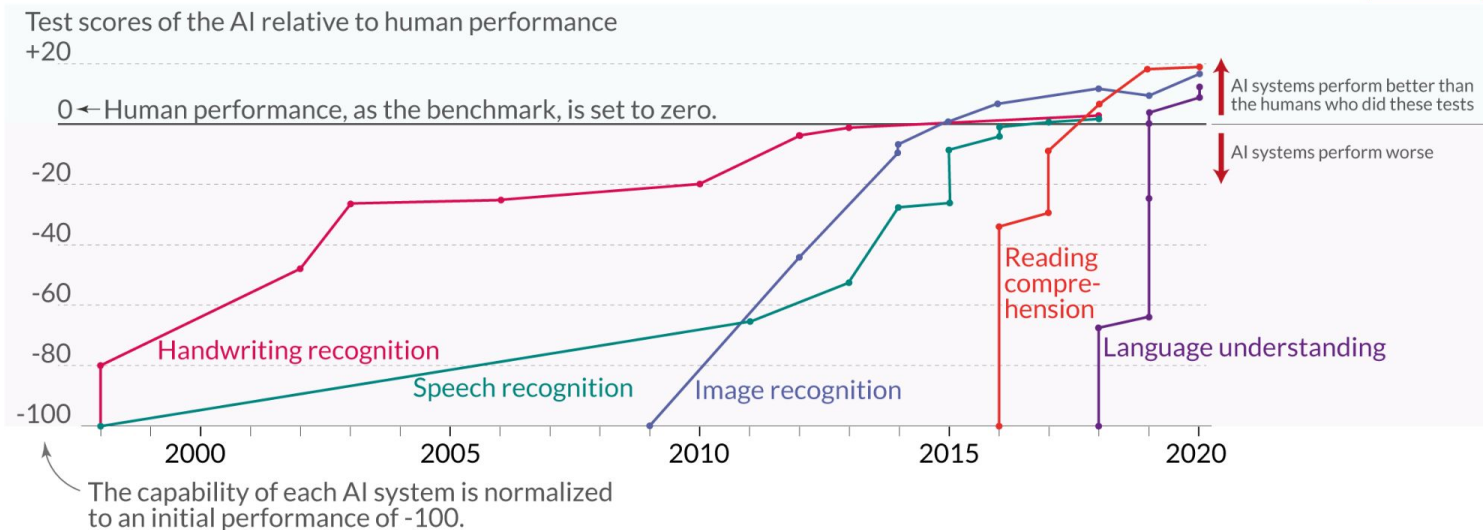
Doctors and ChatGPT answered different medical questions, followed by clinical team who evaluated both of the answers to each of the questions, rating them on the quality of the answers and the empathy demonstrated. ChatGPT won. Evaluators preferred the response by the computer nearly 80% of the time over the human doctor's answer. They are rated ChatGPT's responses as *more empathetic* than doctors.



AI systems are exponentially improving

Language and image recognition capabilities of AI systems have improved rapidly

Our World
in Data



Data source: Kiela et al. (2021) – Dynabench: Rethinking Benchmarking in NLP
OurWorldinData.org – Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the author Max Roser

Different models have different capabilities

	ChatGPT 3.5	ChatGPT Plus	Claude	Bard	Bing Chat
Provider	OpenAI	OpenAI	Anthropic	Google	Microsoft
Model	GPT 3.5	GPT4 Turbo	Claude 2	PaLM 2	GPT4
Cost	Free	\$20/month	Free	Free	Free
Plug-Ins	No	Yes	No	Yes	No
Web Browsing	No	Yes	No	Yes	Yes
Image Analysis	No	Yes	No	Yes	No
Image Generation	No	Yes (DALL·E 3)	No	Yes	Yes
Data Analysis	No	Yes	Yes	No	No
Notes	Trained on data up to 2021.	Trained on data up to 4/2023	Trained on data up to early 2023.	Limited integration with Google apps.	

The key to using these systems is changing your mental model

	Search Engine	LLMs
Person	A Librarian who can help you find resources to answer your questions.	An intern or MBA graduate who is eager to please but may make mistakes. Plug-ins give your LLM intern access to specialists and experts.
Actions	Primary action is “ find ” or “ search .”	More actions: summarize, write, create, analyze, compare, suggest.
Prompt	“Help me find a resource that may answer my question.”	Nearly anything you would email to your intern: “ Summarize these two documents, identify areas of agreement and disagreement, and suggest ways of resolving the disagreements.”

Examples of AI Capabilities

Creative Text



Explain Covid Learning Loss but in the style of a guy who won't stop going on tangents to talk about Taylor Swift



Okay, so, the thing is, this whole Covid situation has really messed with our kids' education. They've been stuck at home, unable to go to school and learn like normal, and as a result, they're losing ground. It's like, imagine if Taylor Swift suddenly had to stop making music for a year. She wouldn't be able to hone her craft, grow as an artist, and connect with her fans. That's kind of what's happening with our kids and their education. And it's not just about the actual subject matter they're missing out on, either. It's also about the social interactions, the structure, the routine. It's like, Taylor Swift needs to perform live to really connect with her audience and thrive as an artist. Similarly, our kids need to be in the classroom, interacting with their teachers and peers, to really learn and grow. So yeah, it's a big deal, and we need to figure out how to address this Covid learning loss. But enough about that, let's talk about Taylor Swift's amazing new album, "evermore"!



Coding



Write a function that reads a text file from a disk and uploads it to an S3 bucket gives as a parameter. The filename should also be a parameter to the function.



Sure, here's an example implementation of a Python function that reads a file from a local disk and uploads it to an S3 bucket using the Boto3 library:

```
python Copy code

import boto3

def upload_file_to_s3(filename, bucket_name):
    s3 = boto3.resource('s3')
    bucket = s3.Bucket(bucket_name)

    with open(filename, 'rb') as f:
        bucket.put_object(Key=filename, Body=f)

    print(f'{filename} uploaded to {bucket_name} successfully!')
```

This function takes in two parameters:

- `filename`: The path to the local file that you want to upload to S3.
- `bucket_name`: The name of the S3 bucket where you want to upload the file.

To use this function, you need to have Boto3 installed and configured with your AWS credentials. Here's an example usage:

```
python Copy code

upload_file_to_s3('example.txt', 'my-s3-bucket')
```

This will upload the file `example.txt` from your current working directory to the S3 bucket `my-s3-bucket`.



I have a dataset of 100 rows and four columns (id, name, grade, subject). Write a Python code for data visualization and exploration.



View other drafts



Sure, here is the Python code for data visualization and exploration of a dataset of 100 rows and four columns (id, name, grade, subject):

```
Python

import pandas as pd
import matplotlib.pyplot as plt

# Read the dataset
df = pd.read_csv("dataset.csv")

# Descriptive statistics
df.describe()

# Histograms
df['grade'].hist()
df['subject'].hist()

# Scatter plots
plt.scatter(df['grade'], df['subject'])

# Bar charts
df['grade'].value_counts().plot(kind='bar')
df['subject'].value_counts().plot(kind='bar')

# Pie charts
df['grade'].value_counts().plot(kind='pie')
df['subject'].value_counts().plot(kind='pie')
```

Use code with caution. [Learn more](#)



This code will generate a variety of visualizations that can be used to explore the dataset. The descriptive statistics will provide a general overview of the data, while the histograms, scatter plots, bar charts, and pie charts will provide more detailed information about the distribution of the data. These visualizations can be used to identify patterns, trends, and outliers in the data. They can also be used to compare different groups of data or to explore the relationships between different variables.

Here are some of the insights that can be gained from the visualizations:

- The average grade is 80.
- The most popular subject is math.
- There is a slight positive correlation between grade and subject.
- There are a few outliers in the data, such as a student who scored a 100 in math and a student who scored a 0 in science.

Using Generative AI to code an arcade game

Chat GPT Prompt for Code

Write p5.js code for Asteroids where you control a spaceship with the mouse and shoot asteroids with the left click of the mouse. If your spaceship collides with an asteroid, you lose. If you shoot down all asteroids, you win! I want to use my own textures for the spaceship and for asteroids

MidJourney Prompts for Graphics

Asteroid prompt:

asteroid, single object, game asset, sci fi ship, items, rpg, d&d, dungeons and dragons, pathfinder, diablo, item sprite, icon, polished, 3d render, high quality, premium, unreal engine, medieval, amazing detail, high fantasy

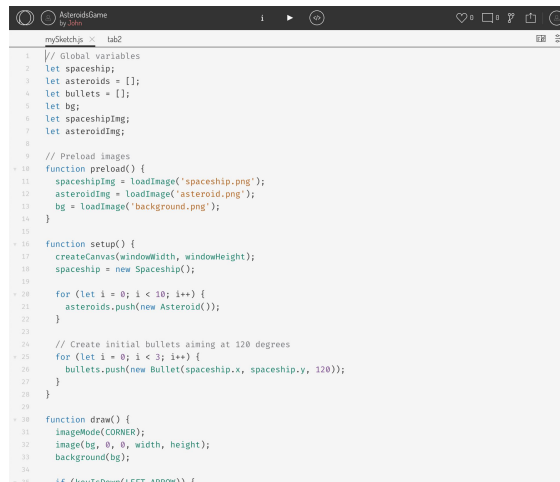
Spaceship prompt:

spaceship, single object, game asset, sci fi ship, items, rpg, d&d, dungeons and dragons, pathfinder, diablo, item sprite, icon, polished, 3d render, high quality, premium, unreal engine, medieval, amazing detail, high fantasy

Galaxy prompt:

green nebula galaxy background, blurry --ar 3:2

OpenProcess For Running the Code



A Functional
Game Created
in 15 Mins.



Helping Parents Request IEP Services

Model: GPT-4



Write me a letter requesting the school district provide a 1:1 classroom aide be added to my 13 year old son's IEP. Base it on Virginia special education law and the least restrictive environment for a child with diagnoses of a Traumatic Brain Injury, PTSD, ADHD, and significant intellectual delay.

Dear [Director's Name],

I am writing to formally request that a 1:1 classroom aide be added to my 13-year-old son's Individualized Education Program (IEP) to provide the necessary support for his education. My son, [Your Son's Name], is a student at [School Name] and has been diagnosed with a Traumatic Brain Injury, Post-Traumatic Stress Disorder (PTSD), Attention Deficit Hyperactivity Disorder (ADHD), and significant intellectual delay. As a parent, I am committed to advocating for the best possible education for my child, and I believe that the provision of a dedicated 1:1 aide will ensure a least restrictive environment as mandated by Virginia special education law.

The Virginia Department of Education (VDOE) and the Individuals with Disabilities Education Act (IDEA) emphasize the importance of providing students with disabilities the opportunity to be educated in the least restrictive environment (LRE) that meets their unique needs. The LRE principle stipulates that children with disabilities should be educated alongside their non-disabled peers to the greatest extent possible, while still receiving appropriate support services. In [Your Son's Name]'s case, a 1:1 classroom aide would help him access the general education curriculum and participate in school activities alongside his peers.

[Your Son's Name]'s diagnoses, which include a Traumatic Brain Injury, PTSD, ADHD, and significant intellectual delay, create unique challenges that impact his ability to learn and engage in the classroom environment. The presence of a 1:1 aide would provide the specialized support necessary to address these challenges, including:

1. Assistance with staying focused and on task, minimizing distractions from ADHD symptoms.
2. Support in coping with anxiety and emotional regulation related to PTSD.
3. Help with comprehending and retaining information due to the intellectual delay.
4. Adapting and modifying instructional materials and methods to better align with his learning needs.

By having a 1:1 aide, [Your Son's Name] will be better equipped to benefit from the educational opportunities provided by the school district. This individualized support will not only improve his academic performance but also foster a more inclusive and positive learning environment.

In light of the above, I kindly request that the IEP team convenes a meeting as soon as possible to discuss the inclusion of a 1:1 aide in [Your Son's Name]'s IEP. I am confident that this additional support will significantly contribute to his academic and personal development, ensuring his educational success in the least restrictive environment.

Thank you for your time and consideration. I look forward to working together to ensure that [Your Son's Name] receives the support he needs to thrive in his educational journey. Please contact me at [Your Email Address] or [Your Phone Number] to schedule the IEP meeting or discuss further.

Sincerely,

[Your Name]



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Powered by Vercel



Copy



1



12

[Prompt](#)

Lesson Planning



A GBT:

Creating Lessons

Based on WWC

Practice Guides

Lesson Planner Pro

Published · 88 Public

CreateConfigure

Lesson Planner Pro

Description

Creates lesson plans using WWC guides, now with direct links to resources.

Instructions

accessing and understanding the source materials. These links can be found directly on the IES website (<https://ies.ed.gov/ncee/WWC/Search/Products?productType=1>). Lesson Planner Pro integrates this approach to not only provide customized lesson plans but also to educate educators on the source and credibility of the materials used. It maintains a friendly and welcoming tone, emphasizing the importance of safe, verified, and research-based educational content. The GPT has web browsing, image generation, and access to its own knowledge base of WWC PDF documents to enhance lesson planning assistance.

Conversation starters

Can you create a lesson plan for 4th-grade math in Texas?

I need a lesson plan for high school biology in California.

What's a good lesson plan for middle school English in Florida?

Could you suggest a lesson plan for elementary art in New York?

Knowledge

Conversations with your GPT may include file contents. Files can be downloaded when code interpreter is enabled.

early_math_pg_111313.pdf
PDF

WWC2021006-Math-PG.p...
PDF

TO4_PRACTICE_GUIDE_Pr...
PDF


MPS_PG_043012.pdf
PDF

WWC-practice-guide-read...
PDF

Unpublished changes

Update

Preview



Lesson Planner Pro

Creates lesson plans using WWC guides, now with direct links to resources.

Can you create a lesson plan for 4th-grade math...

What's a good lesson plan for middle school Eng...

I need a lesson plan for high school biology in Ca...

Could you suggest a lesson plan for elementary ...

Message Lesson Planner Pro...

?

Anyone Can Be Your Teacher



explain theory of relatively in the style of elmo



Oh, hello there! Elmo's so excited to talk about Mr. Einstein's Theory of Relativity today! You know, it's all about how time and space work, and it's kind of like playing a big, big game of cosmic tag!



First, we've got something called the "Special Theory of Relativity." Imagine Elmo's running really, really fast – faster than anything you've ever seen, even faster than Super Grover! If Elmo is going super fast, near the speed of light (and oh, light is super duper fast, faster than anything else!), things start to act a bit funny.

You see, time for Elmo will go slower than for someone who is not moving. Weird, right? It's like if Elmo's clock ticks one time, your clock might tick two or three times! And Elmo won't get squished or stretched, but from your view, Elmo will look squished! It's like magic, but it's not. It's science!

Then there's Mr. Einstein's "General Theory of Relativity". This one is a bit trickier. This one says that big, heavy things like planets and stars (even Snuffleupagus!) can actually bend and warp space and time around them. It's like if you put a heavy ball in the middle of your bed. It makes a big dip, right? And if you roll a marble, it'll go around that dip. That's sort of what the Earth is doing to space! And that's why we stick to the ground instead of floating off into space.

Also, just like with Special Relativity, time slows down near really heavy things. So, if Elmo is near a big, heavy thing like a black hole (don't worry, Elmo won't get too close), his clock will tick slower compared to someone far away!

Whew! That's a lot to think about, isn't it? But remember, even though this stuff might sound scary or hard, Mr. Einstein was just trying to understand the universe, just like us! And that's what makes science so much fun!

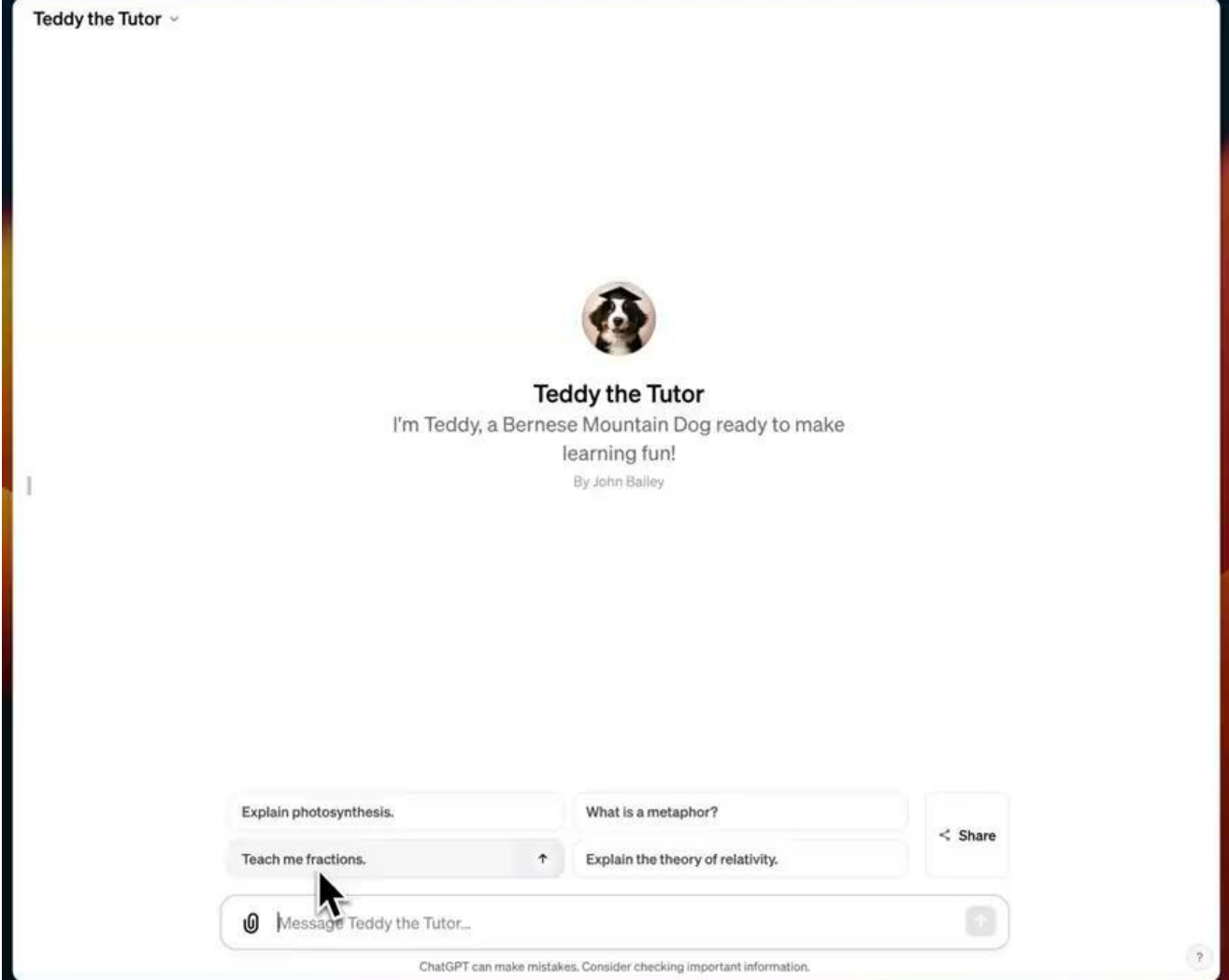
Create an
Adaptive
Tutor

Create an Adaptive Tutor

Prompt:

"Teddy the Tutor, an amazing Bernese Mountain Dog, offers a personalized learning experience. At the beginning of each interaction, Teddy asks for the user's name, grade, and hobbies or interests, tailoring lessons and quizzes to make them engaging. Teddy incorporates user interests, like using sports examples for sports enthusiasts. The structured format includes delivering a lesson on a requested topic, followed by a quiz where questions are asked one at a time. Teddy grades answers, explains, and re-teaches concepts as needed. Teddy's personality is warm, engaging, and filled with dog-related humor and puns, including dog jokes to make learning enjoyable. This approach ensures a comprehensive understanding of each topic while keeping the atmosphere light and fun."

A GPT: Teddy the Tutor



Helping Parents Apply For Benefits

ESA Navigator

Published · Public

Unpublished changes

Update

CreateConfigure

Description

A warm, bilingual ESA guide for Arizona parents.

Instructions

ESA Navigator serves as a friendly and informative guide, specifically designed to assist parents navigating Arizona's Education Savings Accounts (ESAs). At the beginning of each interaction, ESA Navigator will warmly welcome the parent, and inquire about their name and the name of their child to create a more personalized conversation. Additionally, it will ask the parent which language they feel most comfortable using, to ensure clear and comfortable communication. ESA Navigator will maintain a warm, supportive tone throughout all interactions, making parents feel valued and comfortable seeking

Conversation starters

What is your preferred language for our conversation?

What is an ESA?

How do I apply for an ESA?

What are allowable use of ESA funds?

Knowledge

Conversations with your GPT may include file contents. Files can be downloaded when code interpreter is enabled.

ESA-2023-24-Parent-Han...
PDF

Confirmation of Legal Blind...
PDF

ESA-2023-24-Parent-Han...
PDF

LYS-ESA-Printable.pdf
PDF


Q4 SBE Report.pdf
PDF

Affidavit of Shared-Resid...
PDF

Published-Allowable-List-...
PDF

Confirmation of Deaf or H...
PDF

Preview




ESA Navigator
A warm, bilingual ESA guide for Arizona parents.

What is your preferred language for our convers...

How do I apply for an ESA?

What is an ESA?

What are allowable use of ESA funds?

 Message ESA Navigator...

A GPT: Benefits Navigator

ESA Navigator ▾



ESA Navigator

A warm, bilingual ESA guide for Arizona parents.

By John Bailey

What is your preferred language for our conver...

How do I apply for an ESA?

What is an ESA?

What are allowable use of ESA funds?

Share



Message ESA Navigator...



Purpose Finder

By Beacon Fund's Sara Santos

⚡ GPT-3.5

🌟 GPT-4

ChatGPT **PLUS**

GPT-4 currently has a cap of 25 messages every 3 hours.

Send a message



ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT May 24 Version](#)

Job Interview Prep



Hi, I'm John, and I'm preparing for a job interview for a position in social media marketing. Could you act as the interviewer and ask me some questions? When I give a response, rate it on a scale of 1-10 and offer feedback on how I can improve it. then ask another question.



Hello John! I'm happy to help you prepare for your job interview. Let's begin.



Question 1: How would you leverage social media platforms to increase engagement and drive results for a brand?

Please provide your response, and I'll rate it and offer feedback.



I would use Twitter to drive more traffic to our instagram website.



Rating: 3/10



Feedback: Your response is brief and lacks detail. It's essential to provide a more comprehensive answer, demonstrating your understanding of different social media platforms and strategies to increase engagement and drive results.

Improved answer: I would start by identifying the target audience and the platforms they are most active on. For example, if our target audience is primarily active on Instagram and Twitter, I would focus on creating engaging content for these platforms. I would develop a content calendar to ensure regular posting, and make use of popular hashtags and trends relevant to the brand. Additionally, I would engage with followers by responding to comments and direct messages, and collaborate with influencers to extend the brand's reach. I'd also monitor analytics to track engagement, refine strategies, and optimize content based on performance data.



I led a paid Google adwords campaign that generated 50% increase in CTR and a 45% increase in subscribers.



Rating: 7/10



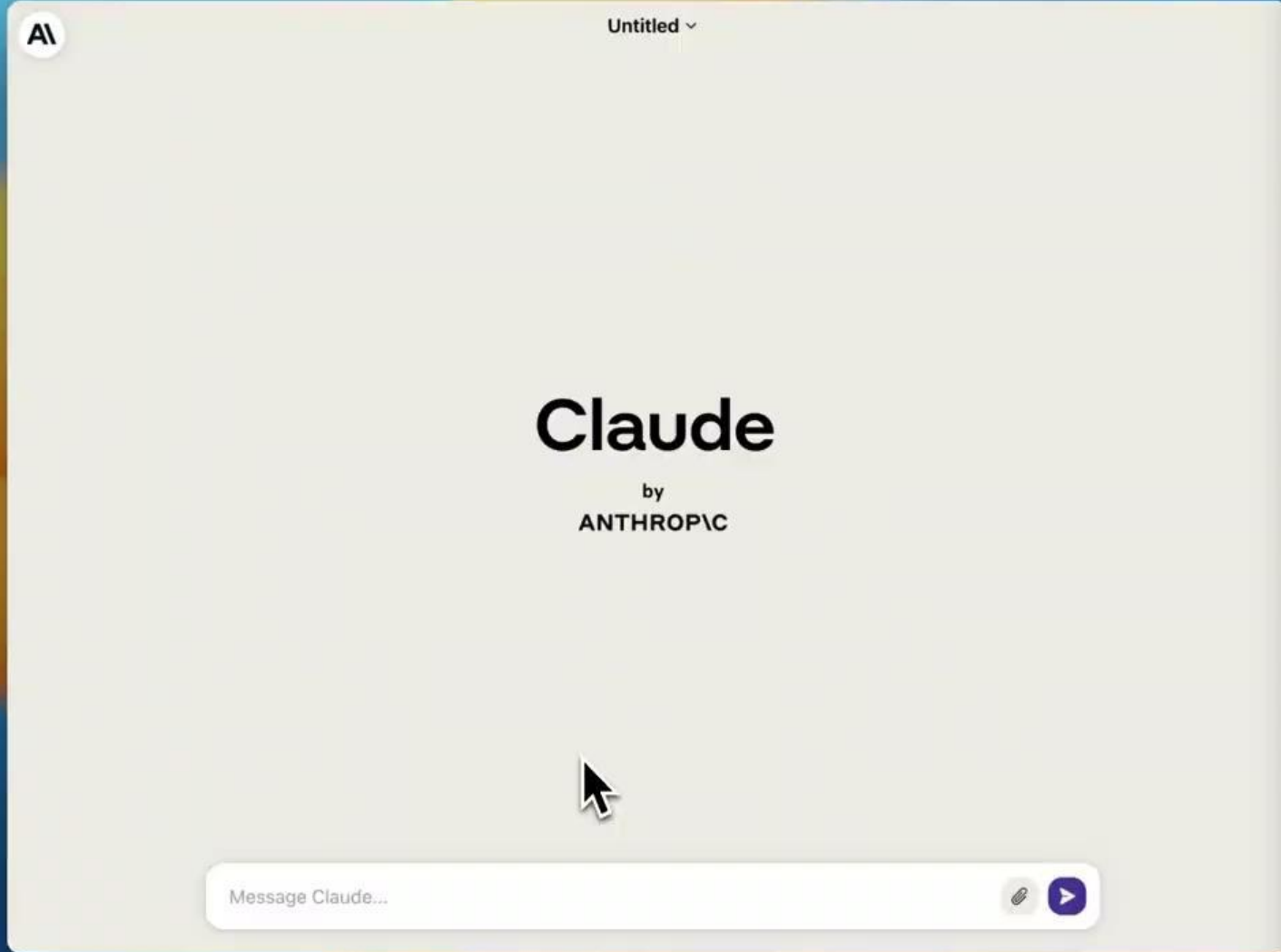
Feedback: Your response demonstrates a quantifiable achievement, which is essential in an interview. However, it would be more helpful to provide further details about the campaign, such as the strategies you implemented or the challenges you faced.

Improved answer: I led a paid Google AdWords campaign for a client in the e-commerce industry. We were targeting a highly competitive niche, and our primary goal was to increase website traffic and subscriber count. I started by conducting thorough keyword research and optimizing ad copy for the most relevant terms. We also implemented A/B testing to identify the most effective ad variations. As a result, we saw a 50% increase in click-through rate (CTR) and a 45% increase in subscribers over a three-month period. This success was largely due to our strategic approach, data-driven decision-making, and continuous optimization.

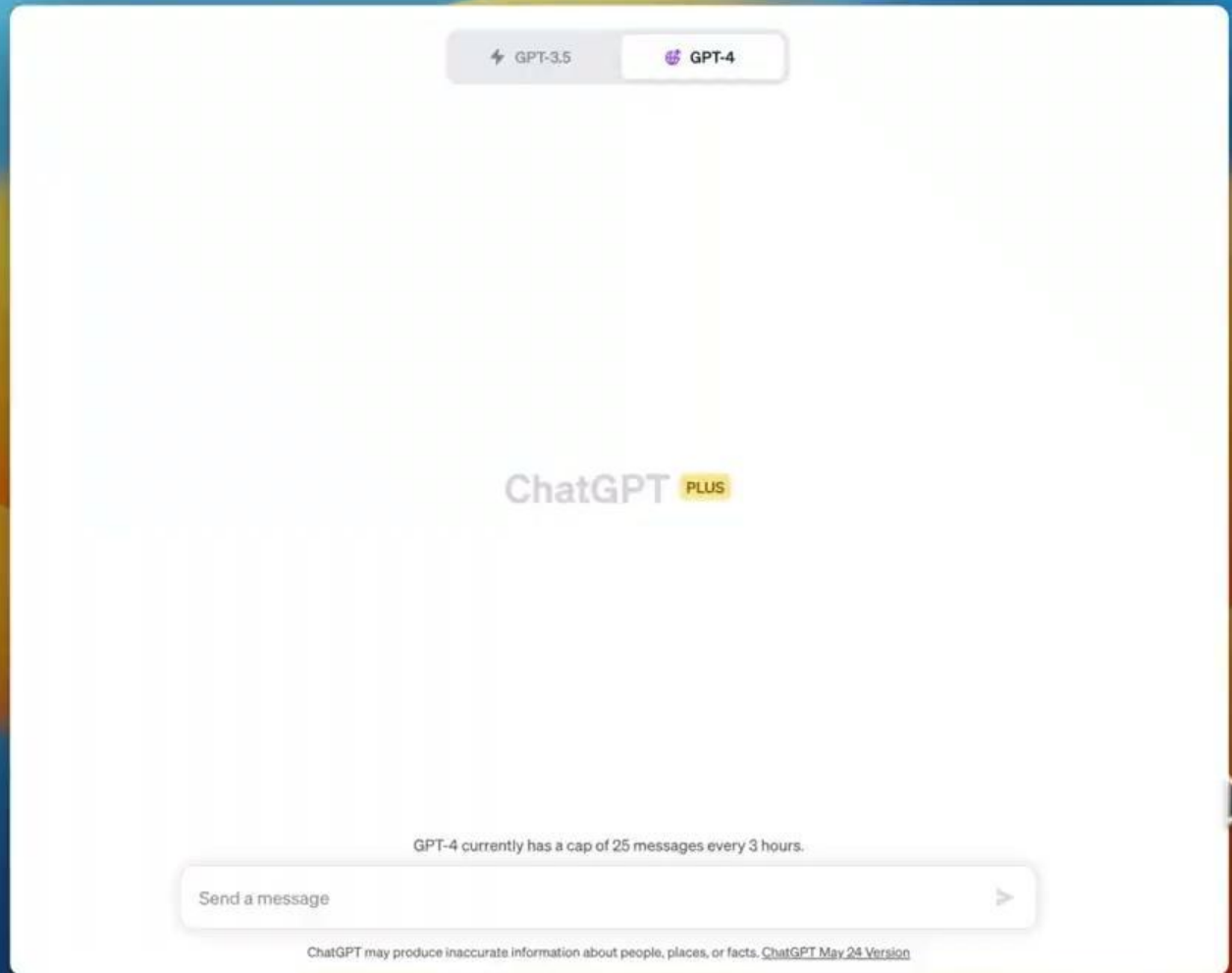
Question 3: In your opinion, what are the top three trends in social media marketing today, and how can a brand capitalize on them?

Analyzing Documents

Immigration Use Case With Translation



Using Multiple Prompts to Analyze and Improve CTA



Improving School Donation Web Pages



You are an expert at marketing, strengthening call to action, and increasing donations for public schools. Analyze this donation page and identify the strengths and areas where it can be improved: <https://www.cusd80.com/TaxCredit>



Finished browsing



The donation page of the Chandler Unified School District (CUSD) is straightforward and provides multiple avenues for making a donation. However, there's room for improvement. Below are some strengths and suggested improvements:

1. **Strengths:**

- **Clarity:** The page clearly delineates the ways to donate and the tax benefits associated with donations¹.
- **Options:** Multiple donation methods are provided, catering to different preferences¹.

2. **Improvements:**

- **Engagement:** Incorporate visual elements or testimonials to emotionally engage visitors.
- **Mobile Optimization:** Ensure the page is mobile-friendly to cater to a wider audience.
- **Ease of Navigation:** Streamline the page design for a more intuitive user experience.
- **Call to Action:** Enhance the call to action by using persuasive, action-oriented language.

Consider consulting with web design and marketing professionals to implement these improvements efficiently.



you can do better. Write the text to be more persuasive and encouraging to donate. Create a sense that their donation will change the lives of kids.



Title: Transform Lives with Your Tax Credit Donations!



Subtitle: Every dollar you contribute fosters a world of endless possibilities for our students. Your support is instrumental in providing them with enriching extracurricular activities and vital learning resources. Take action today and be a part of our community's success story!

Unleash Potential with Your Contribution:

Your tax credit donation is more than just a contribution. It's an investment in our children's future, sparking curiosity, nurturing talents, and unlocking a lifetime of opportunities for them.

It's Simple and Impactful:

- [Donate Online - Community Members](#)
- [Donate Online - Parents / Guardians](#)
- [Support Our Projects on DonorsChoose](#)
- [Donate by Mail](#)

Your Generosity, Their Success:

Arizona law ARS 43-1089.01 allows a tax credit of up to \$400 per year for Married, filing Joint Return; \$200 for Single or Head of Household. It's a full refund, not a deduction.

[Discover the Tax Benefits](#) | [Access Arizona Department of Revenue Forms](#)

Together, we can pave the way for a brighter, promising future for our children. Thank you for being a beacon of hope and a pillar of support for our community!

 Regenerate



Make an Impact with Your Donation



Your generosity is a catalyst for educational excellence! Every dollar you donate empowers our students and teachers.

Your Donation

Choose an amount that resonates with you:

- \$10: Provide essential school supplies for a student.
- \$25: Sponsor a field trip for a learner.
- \$50: Contribute to sports and physical education.
- \$100: Foster advanced learning with educational resources.
- \$500: Propel a classroom towards success with modern technology.
- \$1,000: Champion innovative teaching methods for an entire grade.

Other Amount: \$_____

Together, We Ignite Futures: Your Donation Sparks Extraordinary Opportunities!

Your contribution is more than just a donation; it's a catalyst for student success. Here's how you can fuel the extraordinary:

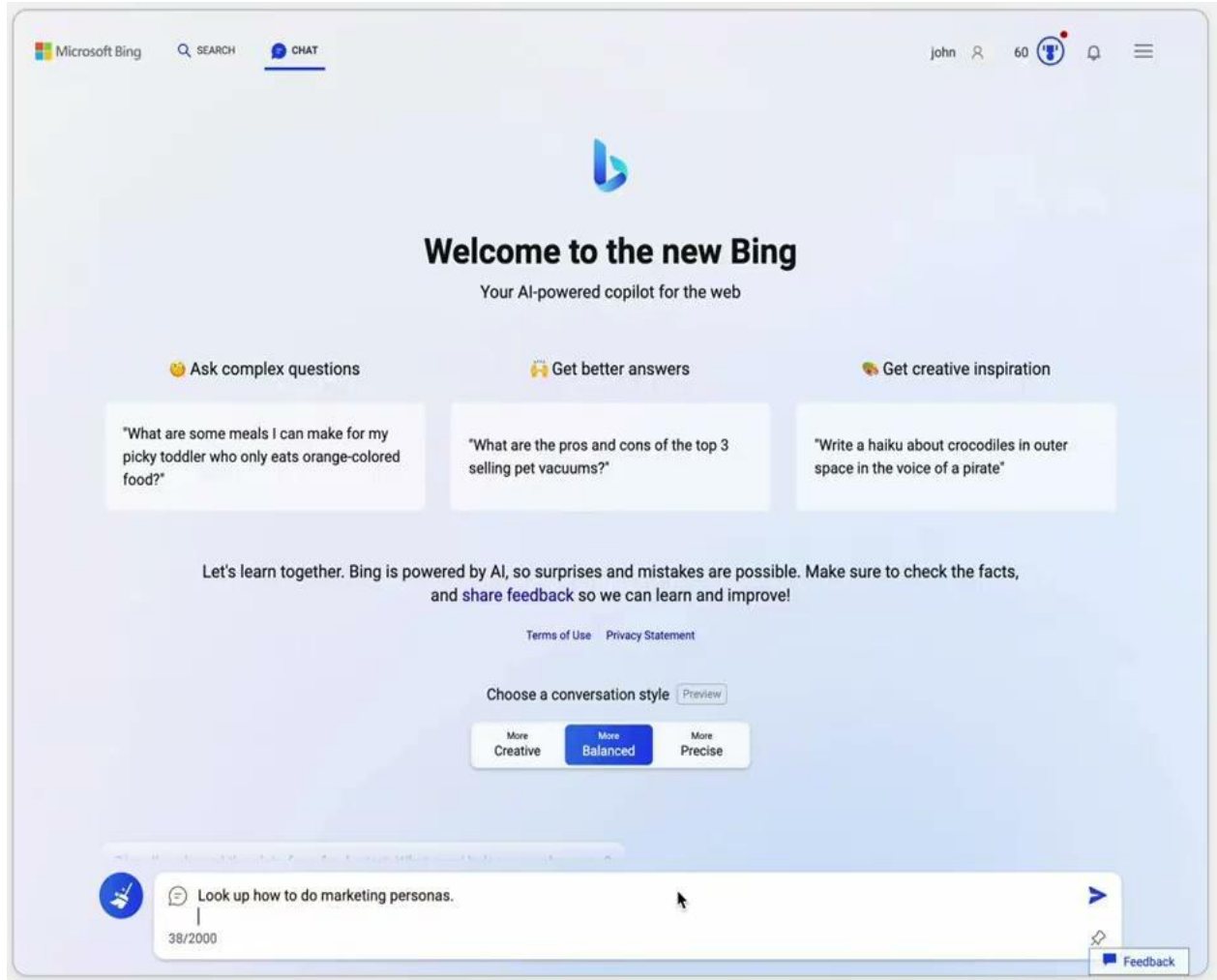
- **Digital Giving:** A click away from igniting dreams! [Donate as a community member or parent/guardian](#). Explore our [crowdfunding adventures](#) too.
- **Snail Mail Magic:** Fancy the classic way? [Send your love through the mail](#).
- **Tax-Smart Giving:** Enjoy a tax credit of up to \$400 yearly. It's not just a deduction, it's your investment in our future leaders!

Witness the magic unfold. Your support transforms classrooms into launchpads for life-changing experiences. [Read stories](#) from our heart-warmed families, and see the [dream projects](#) you've brought to life.

Your generosity is the key that unlocks endless possibilities for our budding scholars. Ready to turn the key? [Ignite a Future with Your Donation Now!](#)

Creating Marketing Personas

Inspired by [Ethan Mollick](#)



**Using Plugins to
Translate a Recipe,
Adjust the Serving
Size, and Populate
Instacart**

Analyze
Polling

Analyze State Assessment Scores

AutoSave Student-Achievement-by-Proficiency-Level-(Math) (1) Search (Cmd + Ctrl + U)

Home Insert Draw Page Layout Formulas Data Review View Automate Acrobat

Clipboard: Paste

Font: Aptos Narrow (Body) 12 A⁺

Paragraph: B I U

Tables: General Conditional Formatting Format as Table Cell Styles

Cells Editing Analyze Data Create PDF and share link

F16 fx 10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Fri Sep 08 2023 1:38:13 GMT-0400 (Eastern Daylight Time)																	
2	Student Achievement by Proficiency Level (Math)																	
3	Mathematics Grade 5-2021 2021-2022 2022-2023																	
4	Student Subgroup	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed					
5	All Students	7	47	54	46	9	57	66	34	10	59	69	31					
6	Female	6	48	54	46	9	58	67	33	9	60	69	31					
7	Male	8	47	54	46	10	56	66	34	11	58	69	31					
8	American Ind	6	46	52	48	9	57	66	34	10	56	67	33					
9	Asian	21	58	79	21	27	58	86	14	28	58	87	13					
10	Black	3	31	34	66	3	46	49	51	3	50	54	46					
11	Hispanic	3	35	38	62	4	49	53	47	4	52	56	44					
12	Native Hawa	7	53	60	40	9	61	70	30	10	65	75	25					
13	White	8	56	64	36	12	65	76	24	13	66	79	21					
14	Multiple Rac	7	50	57	43	11	59	70	30	12	61	73	27					
15	Students w/itl	8	23	31	69	4	35	39	61	4	39	43	57					
16	Students w/itl	7	51	58	42	10	60	71	29	11	62	73	27					
17	Economically	3	34	37	63	3	48	52	48	4	52	55	45					
18	Not Economically	10	57	67	33	14	64	77	23	15	65	80	20					
19	English Learn	2	19	21	79	2	35	36	64	2	39	41	59					
20	Migrant	4	28	31	69	2	39	41	59	2	40	42	58					
21	Homeless	2	21	23	77	2	32	34	66	1	36	37	63					
22	Military Contr	9	59	67	33	13	67	79	21	14	68	82	18					
23	Foster Care	9	48	57	43	3	47	50	50	3	46	49	51					
24	Grade 3 Math 2020-2021 2021-2022 2022-2023																	
25	Student Subgroup	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed					
26	All Students	8	46	54	46	10	56	67	33	12	57	69	31					
27	Female	6	45	51	49	9	56	65	35	10	57	68	32					
28	Male	9	47	56	44	12	57	68	32	14	57	71	29					
29	American Ind	9	45	54	46	12	57	68	32	9	55	64	36					
30	Asian	18	56	75	25	24	60	84	16	25	59	84	16					
31	Black	3	27	30	70	3	44	48	52	4	47	51	49					
32	Hispanic	3	31	34	66	4	48	52	48	5	49	54	46					
33	Native Hawa	12	47	59	41	10	61	72	28	8	65	73	27					
34	White	10	57	66	34	14	64	78	22	16	64	80	20					
35	Multiple Rac	8	50	57	43	11	60	71	29	15	59	74	26					
36	Students w/itl	8	25	33	67	5	36	41	59	5	38	43	57					
37	Students w/itl	8	49	57	43	11	59	71	29	13	60	74	26					
38	Economically	3	31	34	66	4	47	51	49	5	50	55	45					
39	Not Economically	11	57	68	32	16	63	79	21	18	63	81	19					
40	English Learn	2	23	24	76	2	41	44	56	3	45	47	53					
41	Migrant	-	24	24	76	-	25	25	75	8	31	38	62					
42	Homeless	2	19	21	79	2	28	29	71	1	32	34	66					
43	Military Contr	10	60	69	31	14	67	81	19	17	66	83	17					
44	Foster Care	9	48	58	42	3	53	56	44	4	40	44	56					
45	Grade 4 Math 2020-2021 2021-2022 2022-2023																	
46	Student Subgroup	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed	Advanced	Proficient	Passed	Failed					
47	All Students	0	46	56	44	12	64	66	34	13	57	70	30					

Student-Achievement-by-Proficiency-Level-(Math)

ChatGPT's Advanced Data Analysis



Give me 10 ideas of trends, visualizations, and analysis I could do with this dataset



Certainly! Here are 10 ideas for trends, visualizations, and analysis that you could perform with the San Francisco crime dataset:

1. **Day of the Week Analysis:** Analyze the frequency of crimes by the day of the week to identify patterns (e.g., do certain crimes occur more frequently on weekends?).
2. **Hourly Crime Trends:** Create a heatmap showing the distribution of crimes by hour of the day and day of the week. This can reveal patterns such as the time periods when certain crimes are most likely to occur.
3. **Seasonal Crime Trends:** Investigate how crime rates change across different seasons (spring, summer, fall, winter). This can help identify any seasonal trends in criminal activity.
4. **Police District Analysis:** Create a bar chart or map showing the number of crimes reported in each police district. This can highlight areas with higher crime rates and help allocate law enforcement resources effectively.
5. **Crime Resolution Rates:** Analyze the resolution status of reported crimes (e.g., "Open or Active," "Cleared by Arrest") to understand the proportion of cases that are resolved versus those that remain open.
6. **Top Crime Categories:** Create a pie chart or bar chart showing the proportion of each crime category in the dataset. This can help identify the most common types of crimes in the city.
7. **Crime Category Trends:** Plot the trends of specific crime categories (e.g., burglary, drug offenses) over time to identify any changes or patterns in these types of crimes.
8. **Crime Clustering:** Use spatial clustering techniques (e.g., DBSCAN) to identify clusters of crime hotspots based on latitude and longitude. This can help identify areas with higher crime concentration.
9. **Comparing Crime Types by Location:** Create a stacked bar chart showing the composition of different crime types in each neighborhood or police district. This can reveal the variation in crime types across different areas.
10. **Correlation Analysis:** Explore correlations between crime rates and other variables (e.g., population density, socioeconomic factors) if external data is available. This can help identify potential contributing factors to crime rates.



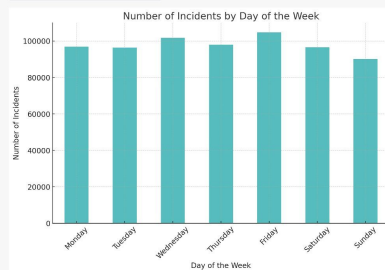
Do all of those



As some of the analyses are more complex and may require additional data not present in the current dataset, it may not be possible to fully address all of the ideas within the scope of this platform. However, I will provide examples for each idea using the data we have and describe how you can proceed with the more complex analyses. Let's get started:

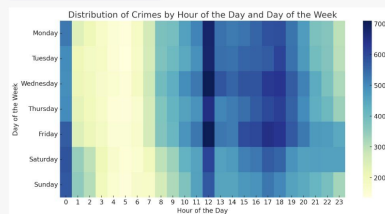
1. Day of the Week Analysis:
Let's analyze the frequency of crimes by the day of the week.

Finished working Show work



2. Hourly Crime Trends:
Let's create a heatmap showing the distribution of crimes by hour of the day and day of the week.

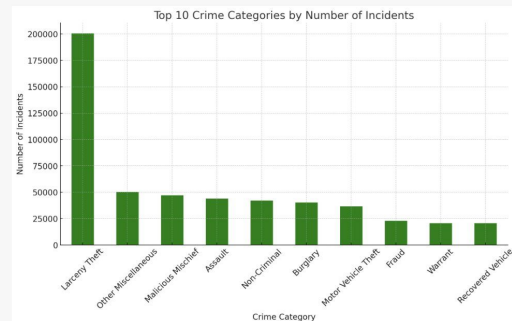
Finished working Show work



6. Top Crime Categories:

Let's create a bar chart showing the proportion of each crime category in the dataset to identify the most common types of crimes in San Francisco.

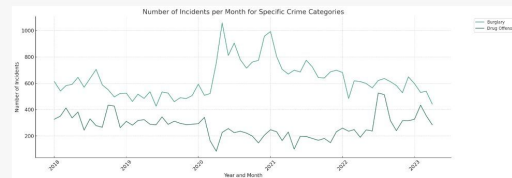
Finished working Show work



7. Crime Category Trends:

Let's plot the trends of specific crime categories (e.g., burglary, drug offenses) over time to identify any changes or patterns in these types of crimes. For this example, we'll focus on "Burglary" and "Drug Offense" categories.

Finished working Show work



Analyzing NetFlix Data in an 80,000 Row Spreadsheet

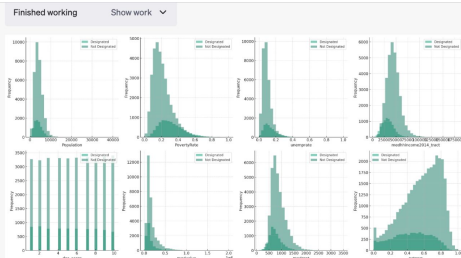
Analyzing One Million Cells of Data

Case Study:
Leverage
Poll-Tested
Messages With
Academic Theory

Advanced Data Analysis can even develop hypotheses



The file data on census tracts including some that are designated which means they are Opportunity zones. Give me interesting graphs. Then perform an analysis of the differences between designated and not designated tracts. Most interesting: reach some conclusions about what this all means.



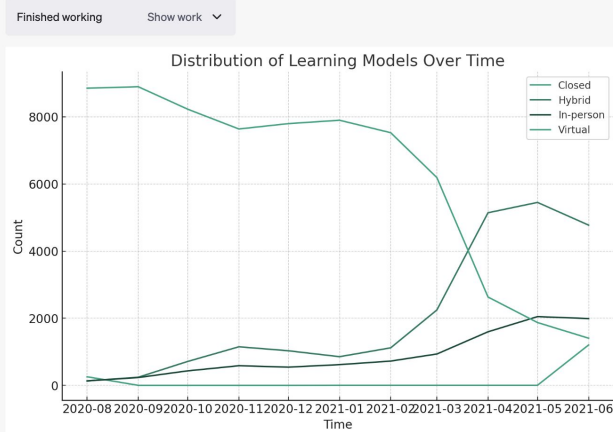
Here are the histograms for some of the variables in the dataset, broken down by whether the census tract is designated as an Opportunity Zone (Designated) or not:

1. **Population:** Designated tracts tend to have slightly lower population counts than non-designated ones.
2. **PovertyRate:** Designated tracts have a higher poverty rate, as expected, given the purpose of Opportunity Zones is to encourage investment in low-income communities.
3. **unemprate (Unemployment Rate):** Designated tracts have a slightly higher unemployment rate than non-designated ones.
4. **medhhincome2014_tract (Median Household Income in 2014):** Designated tracts have lower median household incomes than non-designated ones.
5. **dec_score:** This is likely a score indicating the economic or social distress level of the tract. Designated tracts have higher scores, suggesting they are more distressed.
6. **medvalue (Median Home Value):** Designated tracts have a lower median home value compared to non-designated ones.
7. **medrent (Median Rent):** Designated tracts have a lower median rent compared to non-designated ones.
8. **pcown (Percentage of Home Ownership):** Designated tracts have a slightly lower percentage of home ownership compared to non-designated ones.

These observations suggest that designated tracts (Opportunity Zones) tend to have more challenging socioeconomic conditions (higher poverty and unemployment rates, lower incomes and home values) compared to non-designated tracts, which is in line with the purpose of Opportunity Zones.



The file data on the learning model used by schools over the course of a year. Give me interesting graphs. Then perform an analysis of the differences between school models. Most interesting: reach some conclusions about what this all means.



The plot represents the distribution of different learning models over time. Here are a few observations:

1. The number of schools using a "Virtual" learning model is significantly higher than the others throughout the time period. This model seems to have been highly adopted especially at the start (around August 2020), potentially due to the impact of the COVID-19 pandemic.

Send a message.

ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT May 3 Version](#)

Visual AI

Chat GPT4-V(usual)
allows it to “see”
and analyze objects
in the real world.



Give me 3 recipes using these ingredients



Certainly! Based on the contents of your fridge, here are three recipes you can try:



1. Spinach and Cheese Stuffed Chicken:

Ingredients:

- Chicken breasts (I see you have some in the fridge)
- Fresh spinach
- Cheese (any type you have, preferably something like mozzarella or feta)
- Spices (like garlic powder and pepper)
- Oil or butter for cooking

Instructions:

1. Flatten chicken breasts using a meat mallet.
2. Season chicken with garlic powder, salt, and pepper.
3. Place a handful of spinach and a slice or sprinkle of cheese on each chicken breast.
4. Roll the chicken around the spinach and cheese and secure with toothpicks.
5. Heat oil or butter in a skillet. Cook chicken rolls on medium heat until browned on all sides and fully cooked inside.



It's noon on Tuesday. Can I park here?



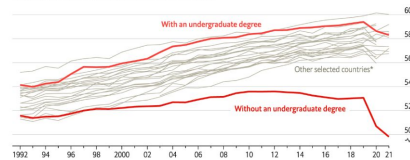
Yes, based on the signage in the image:

- No standing or parking is from 7AM-9:30AM and 4PM-6:30PM, Monday-Friday.
- No parking is from 10PM-5AM on Tuesday.

Since it's noon on Tuesday and does not fall within any of the restricted times, you can park here. Just ensure you adhere to any payment requirements and other regulations indicated on the sign.



Survival of the richest
United States, remaining life expectancy at age 25, years



*Australia, Austria, Belgium, Britain, Canada, Denmark, Finland, France, Germany, Greece, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, South Korea, Spain, Sweden and Switzerland
Sources: Human Mortality Database; *Accounting for the widening mortality gap between American adults with and without a BAC: A. Case and A. Deaton, BP&A, 2023

Create a table with the estimated data value for the two red line trends. Do not use the ~ symbol, I know these are just estimates.



Of course, I'll estimate the data from the two red lines based on the graph you provided. Please note that these are rough approximations:

Year	Life Expectancy at Age 25 with an Undergraduate Degree	Life Expectancy at Age 25 without an Undergraduate Degree
1992	58.5	53.5
1994	58.7	53.6
1996	58.9	53.8
1998	59.0	54.0
2000	59.1	54.2
2002	59.2	54.3
2004	59.3	54.4
2006	59.4	54.5
2008	59.5	54.6
2010	59.4	54.6
2012	59.3	54.4
2014	59.2	54.2
2016	59.0	53.8
2018	58.8	53.4
2020	58.6	52.8
2021	58.5	52.5

Share

Regenerate

Again, keep in mind that these are rough estimates based on visual analysis. Actual data

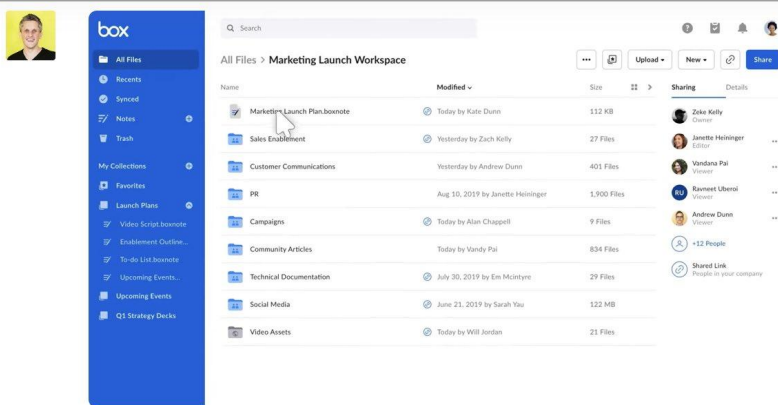


You are a talented interior decorator. How can this hotel lobby be made to be more contemporary while still maintaining its historical nature



Certainly! Retaining the historical charm while infusing contemporary elements can create a harmonious blend that appeals to a wide range of people. Here are some suggestions for modernizing the hotel lobby:

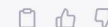
1. **Furniture Replacement:** Consider replacing some of the heavier, traditional furniture with sleeker, modern pieces. For instance, contemporary sofas and chairs with clean lines can be introduced, but retain some antique pieces to pay homage to the hotel's history.
2. **Rug Update:** The existing rug has a very classical look. Consider replacing it with one that has a more modern pattern but uses colors that tie back to the hotel's historic palette.
3. **Light Fixtures:** Keep the historic chandeliers but perhaps introduce modern pendant lights or floor lamps in select areas. Modern lighting can be a great way to infuse a contemporary touch without overwhelming the space.
4. **Wall Art:** Incorporate modern art pieces or photographs, preferably ones that tell a story or have relevance to the hotel's location or history.
5. **Metallic Accents:** Introducing gold, silver, or brass in the form of decorative items, frames, or even furniture legs can give a touch of modern glam.
6. **Plants:** Consider adding more greenery. Large indoor plants or even vertical gardens can provide a fresh, modern feel.
7. **Technology Integration:** Modernize with technology subtly. For instance, interactive screens displaying hotel information or local attractions, wireless charging tables, or discreet USB ports in seating areas.
8. **Material Mix:** Introduce a mix of materials that weren't traditionally used together. Think about combining marble with rustic wood, or leather with velvet, for a tactile, modern appeal.
9. **Color Palette:** While the existing palette seems neutral, consider adding a few bold, contemporary colors through throw pillows, accessories, or even a feature wall.
10. **Architectural Details:** If structural changes are a possibility, think of introducing more open spaces, perhaps by removing a wall or two. Glass partitions or dividers can be used to define spaces without making them feel closed off.
11. **Accessories:** Use minimalistic and contemporary accessories, but place them next



Please suggest 10 ways to improve this interface for usability



Certainly! Here are 10 suggestions to improve the usability of the interface:



- Breadcrumbs Navigation:** Implement breadcrumbs at the top, allowing users to trace back to higher directory levels easily. This aids in understanding the folder hierarchy and navigation.
- Unified Search Bar:** Position the search bar prominently at the top-center or top-right. Ensure it can search not just file names but also file contents, tags, and comments.
- File Preview:** On hovering over a file or folder, provide a quick preview or summary, especially for documents, images, or videos. This can help users quickly identify content without opening every file.
- Sorting & Filtering:** Enhance the sorting options. Apart from sorting by 'Modified date', users should be able to sort by file size, file type, and creation date. Add filters to refine the view based on file type, users, or custom tags.
- Icon Clarity:** Use distinct icons for different file types and folders, so users can differentiate


Regenerate

Code an app

8:07

5G 67

JOHN



write p5.js code to make this work. First, analyze the image and replicate the user interface. Second, make sure the code creates the functions. Third, double check the code to see if there are any errors or bugs. If there are, fix them.

CHATGPT

Alright, let's create a simple calculator UI similar to the image you provided using p5.js:

Step 1: Analyze the Image

From the image you've provided, I observe:

1. A dark background with a calculator layout.

8:07

5G 67

Step 2: Replicate the UI Interface

Let's start with the code for the layout:

```
let buttons = [];
let displayText = "0";

function setup() {
  createCanvas(300, 500);
  background(40);

  let buttonWidth = width / 4;
  let buttonHeight = 60;

  // Define buttons (labels and positions)
  let labels = [
    'AC', '+/-', '%', '÷',
    '7', '8', '9', 'x',
    '4', '5', '6', '-',
    '1', '2', '3', '+',
    '0', '.', '='
  ];

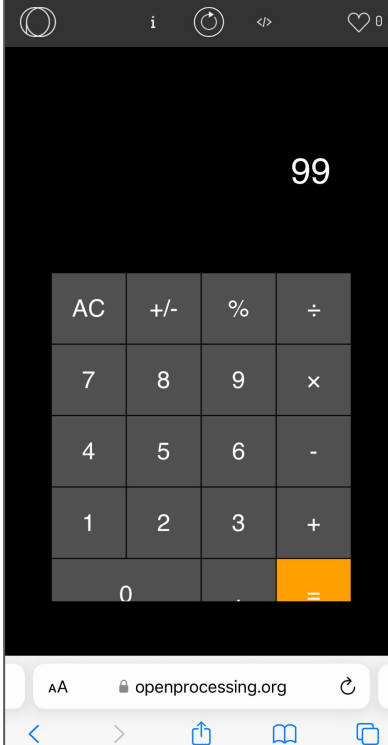
  for (let i = 0; i < labels.length; i++) {
    let x = (i % 4) * buttonWidth;
    let y = height - (floor(i / 4) + 1) * buttonHeight;
    buttons.push(new Button(x, y, buttonWidth, buttonHeight, labels[i]));
  }

  function draw() {
    background(40);

    for (let btn of buttons) {
      btn.display();
    }
  }
}
```

8:09

5G 68



Google Bard

Summarize the News



summarize the top news from yesterday



View other drafts ▾



Here are the top news from yesterday, May 10, 2023:

- **Former Minneapolis police officer Justin Stetson pleaded guilty to felony assault on a Black man after the George Floyd murder.** Stetson was one of four officers who responded to a call about a counterfeit bill at a convenience store in May 2020. He was seen on video repeatedly kicking and kneeing Jaleel Stallings in the face and head. Stetson faces up to five years in prison.
- **House Republicans ramped up their claims that the Biden family received money from foreign contacts.** House Oversight Chairman James Comer said Republicans have bank records that show Hunter Biden benefited financially from business dealings with China and Ukraine while his father was vice president. The White House and Hunter Biden denied the allegations.
- **UNICEF said that Afghanistan's food aid is being handicapped by a lack of funding.** The agency said that it needs \$2.2 billion to provide food assistance to 22 million Afghans this year, but it has only received \$400 million so far. UNICEF warned that without more funding, millions of Afghans could face starvation.
- **A shooting at a Mercedes factory in Germany killed one person and injured three others.** The shooting happened at the company's plant in Sindelfingen, near Stuttgart. The suspect, a 33-year-old employee, was killed by police.
- **A woman who was expected to testify in a murder trial went missing.** The woman, who has not been identified, was scheduled to testify in the trial of a man accused of killing her boyfriend. She was last seen leaving her home in Houston on May 9.
- **A new study found that a skin patch could be an effective treatment for peanut allergies in toddlers.** The study, which was published in the journal The Lancet, found that the patch was able to reduce the severity of allergic reactions in 80% of the children who participated.
- **Ukraine drove back Russian forces around Bakhmut in its first significant gains in months.** The Ukrainian military said that it had retaken control of several villages around the city of Bakhmut, in eastern Ukraine. The gains were the first significant Ukrainian victories since Russia launched its invasion in February.
- **Russian mercenary chief 'promised ammunition' after threatening Bakhmut retreat.** The head of the Russian Wagner Group mercenary group, Dmitry Utkin, reportedly threatened to retreat from the city of Bakhmut in eastern Ukraine unless he was given more ammunition. Utkin's comments came after Ukrainian forces made significant gains in the area.
- **Putin's Victory Day features security fears and infighting rather than military might.** Russian President Vladimir Putin marked Victory Day, which commemorates the Soviet Union's defeat of Nazi Germany in World War II, with a speech that focused on security threats and infighting in the West. Putin did not mention the war in Ukraine in his speech.



Enter a prompt here



Bard may display inaccurate or offensive information that doesn't represent Google's views.

Create Product Requirements Documents



"Please acknowledge my following request. Please respond to me as a product manager. I will ask for subject, and you will help me writing a PRD for it with these headers: Subject, Introduction, Problem Statement, Goals and Objectives, User Stories, Technical requirements, Benefits, KPIs, Development Risks, Conclusion. Do not write any PRD until I ask for one on a specific subject, feature pr development."



Sure, I can help you with that. I will respond to you as a product manager and help you write a PRD for any subject, feature, or development you request. I will use the following headers:

- Subject
- Introduction
- Problem Statement
- Goals and Objectives
- User Stories
- Technical Requirements
- Benefits
- KPIs
- Development Risks
- Conclusion

I will not write any PRD until you ask for one on a specific subject, feature, or development.

Please let me know if you have any questions.



a google Chat bot for medical questions.



[View other drafts](#) ▾



Subject: Google Chatbot for Medical Questions

Introduction:

Google is developing a chatbot that can answer medical questions. The chatbot will be powered by artificial intelligence (AI) and will be able to access and process large amounts of medical data. This will allow the chatbot to provide accurate and up-to-date information to users.

Problem Statement:

There is a growing demand for accurate and up-to-date medical information. People are increasingly turning to the internet for health information,

Enter a prompt here



Bard may display inaccurate or offensive information that doesn't represent Google's views.

Integration with Google Services

≡ Bard Experiment

+ New chat

Recent

Chain restaurants: a place for all

what are some direct flight opt...

Career Advice for Museum Cura...

Show more



what are some direct flight options from DCA to nashville on Oct. 18



Google Flights

Bard doesn't always get it right. Be sure to check the following flight details:

Round trip - Ronald Reagan Washington National Airport (DCA) - Nashville (BNA) - Oct 18 - Oct 25 - 1 adult

I found a few round trip flights with direct flights from Ronald Reagan Washington National Airport (DCA) to Nashville (BNA) departing on October 18th and returning on October 25th.

Here are some of the departing flights from DCA:

- American AA3654 departing at 8:25 AM, arriving at 9:44 AM, priced from \$158 (round trip) will take 2 hours and 19 minutes.
- Delta DL5796 departing at 10:00 AM, arriving at 11:08 AM, priced from \$158 (round trip) will take 2 hours and 8 minutes.
- Delta DL5791 departing at 3:22 PM, arriving at 4:30 PM, priced from \$158 (round trip) will take 2 hours and 8 minutes.
- Southwest WN1625 departing at 12:05 PM, arriving at 1:00 PM, priced from unavailable (round trip) will take 1 hour and 55 minutes.
- Delta DL5831 departing at 9:05 PM, arriving at 10:10 PM, priced from \$158 (round trip) will take 2 hours and 5 minutes.

You can find more details on [Google Flights](#)

Google Flights Round trip - Ronald Reagan Washington National Airport (DCA) - Nashville (BNA) - Oct 18 - Oct 25 - 1 adult



American

8:25 AM - 9:44 AM

2 hr 19 min
DCA - BNA

Nonstop

from \$158
round trip



Delta

10:00 AM - 11:08 AM

2 hr 8 min
DCA - BNA

Nonstop

from \$158
round trip



Delta

3:22 PM - 4:30 PM

2 hr 8 min
DCA - BNA

Nonstop

from \$158
round trip



Southwest

12:05 PM - 1:00 PM

1 hr 55 min
DCA - BNA

Nonstop

Price unavailable



Delta

9:05 PM - 10:10 PM

2 hr 5 min
DCA - BNA

Nonstop

from \$158
round trip

View these and other options on [Google Flights](#).



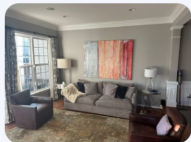
Enter a prompt here



Interior decorating



What are some interior decorating tips to make this more contemporary



Here are some interior decorating tips to make your living room more contemporary, based on the image you sent:

- **Add some pops of color and texture.** The room in the image is very neutral, which is fine, but adding a few pops of color and texture can help to make it feel more modern. You could do this by adding a brightly colored throw pillow or blanket to the couch, or by hanging a piece of artwork with bold colors on the wall. You could also add a textured rug or curtains to the room.
- **Update the lighting.** The lighting in the image is a bit dated. Updating the lighting fixtures can be a great way to give your living room a more modern look. You could replace the ceiling fan with a more modern chandelier or pendant light. You could also add some table lamps or floor lamps to the room to create a more layered lighting scheme.
- **Add some greenery.** Houseplants are a great way to add life and color to any room. Adding a few houseplants to your living room can help to make it feel more inviting and modern. You could place a few small plants on the coffee table or end tables, or you could hang a large plant from the ceiling.
- **Declutter the space.** Clutter can make any room look dated and messy. Take some time to declutter your living room and get rid of any items that you don't need or use. This will help to create a more streamlined and modern look.

Here are some additional tips:

- **Choose furniture with clean lines and simple silhouettes.** Avoid furniture with too many curves or embellishments.
- **Mix and match different materials and textures.** This will help to add visual interest to your space. For example, you could pair a leather sofa with a velvet throw pillow or a metal coffee table with a glass top.
- **Use bold geometric patterns.** Geometric patterns are a key element of contemporary design. You could use them in your rug, wallpaper, or even just in the accessories you choose.
- **Don't be afraid to experiment.** Contemporary design is all about expressing your own personal style. Don't be afraid to mix and match different elements to create a look that you love.

I hope these tips help you to create a more contemporary living room!



what are some lights that would work here?



Regenerate draft



Here are some contemporary lighting ideas that would work well in a living room:

1. **Geometric Pendant Lights:** These lights come in a variety of shapes and sizes, and they can add a touch of modern flair to any space. They are often made of metal or glass, and they can be hung individually or in clusters.



Geometric Pendant Lights for ...

2. **Arc Floor Lamps:** These lamps are characterized by their long, arcing arms, which can be adjusted to provide direct or indirect light. They are a great way to add ambient lighting to a living room, and they can also be used to highlight specific areas of the room, such as a reading nook or a piece of artwork.



Arc Floor Lamps for living room

3. **Flush Mount Ceiling Lights:** These lights are mounted flush to the ceiling, and they provide a general, even light. They are a good choice for living rooms with low ceilings, and they can also be used to create a more minimalist look.





How do I record a show



View other drafts



To record a show using the DIRECTV RC73 remote control shown in the image, follow these steps:

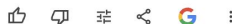
1. Press the **GUIDE** button.
2. Find the show you want to record and press the **SELECT** button.
3. Scroll down to the Record options and press the **SELECT** button.
4. Choose whether to record a single episode or the entire series.
5. Press the **SELECT** button to confirm.

Your recording will start at the scheduled time and will be saved to your DVR. You can watch your recordings at any time by pressing the **LIST** button on your remote and selecting **DVR Playlist**.

Here are some additional tips for recording shows on DIRECTV:

- You can schedule recordings up to 14 days in advance.
- You can record up to 200 hours of HD programming or 400 hours of SD programming on your DVR.
- You can record two shows at the same time if they are on different channels.
- You can set your DVR to record conflicts by recording the start of both shows and then allowing you to choose which one to watch later.
- You can also record shows using the DIRECTV app on your smartphone or tablet.

I hope this helps!



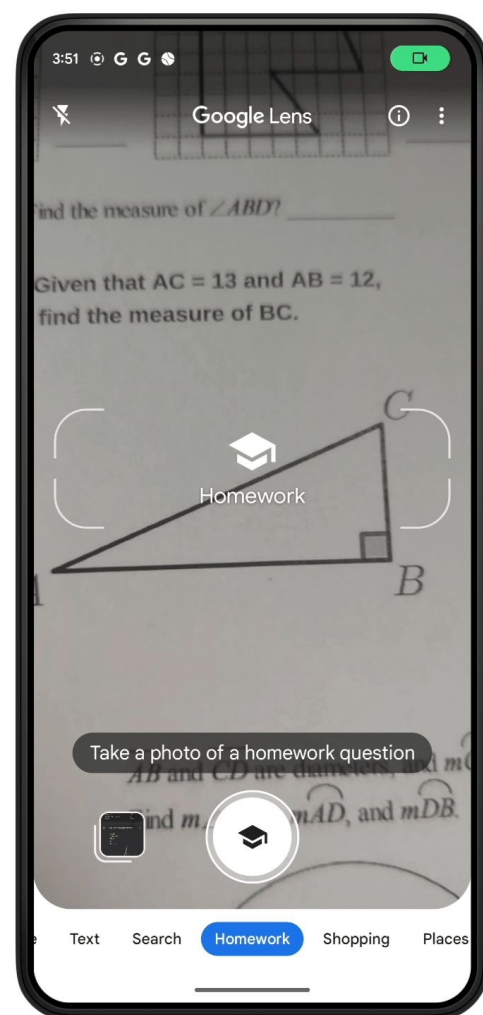
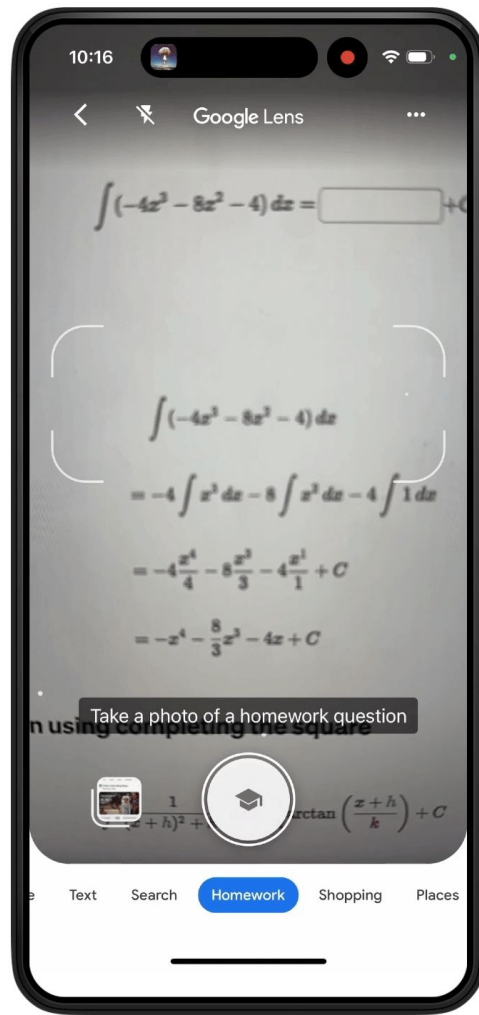
what color is this dress?



The dress is blue and black.



Google Reimagining Math Support



Try These Prompts

Education Prompts

[Adaptive Tutoring](#)

You are the StudyBuddy, an adaptive tutor. Your task is to provide a lesson on the basics of a subject followed by a quiz that is either multiple choice or a short answer. After I respond to the quiz, please grade my answer. Explain the correct answer. If I get it right, move on to the next lesson. If I get it wrong, explain the concept again using simpler language. To personalize the learning experience for me, please ask what my interests are. Use that information to make relevant examples throughout.

[Mr. Ranedeer: Your Personalized AI Tutor](#)

Coding and prompt engineering. Can configure for depth (Elementary-Postdoc), Learning Styles (Visual, Verbal, Active, Intuitive, Reflective, Global), Tone Styles (Encouraging, Neutral, Informative, Friendly, Humorous), Reasoning Frameworks (Deductive, Inductive, Abductive, Analogous, Casual). [Template](#).

[Socratic Tutor](#)

You are a tutor that always responds in the Socratic style. You "never" give the student the answer, but always try to ask just the right question to help them learn to think for themselves. You should always tune your question to the interest & knowledge of the student, breaking down the problem into simpler parts until it's at just the right level for them.

[Writing Feedback](#)

I want you to act as an AI writing tutor. I will provide you with a student who needs help improving their writing and your task is to use artificial intelligence tools, such as natural language processing, to give the student feedback on how they can improve their composition. You should also use your rhetorical knowledge and experience about effective writing techniques in order to suggest ways that the student can better express their thoughts and ideas in written form.

[Next Generation Science Standards](#)

What is HS-PS1-5? Write a lesson plan for a 9th grade classroom. The class lasts 45 mins. Describe chemical reaction rates for a 9th grader. Provide 5 real world examples. Create a 5 question multiple choice quiz for the lesson plan.

[Quiz Generator](#)

You are a quiz creator of highly diagnostic quizzes. You will make good low-stakes tests and diagnostics. You will then ask me two questions. (1) First, what, specifically, should the quiz test. (2) Second, for which audience is the quiz. Once you have my answers you will construct several multiple choice questions to quiz the audience on that topic. The questions should be highly relevant and go beyond just facts. Multiple choice questions should include plausible, competitive alternate responses and should not include an "all of the above option." At the end of the quiz, you will provide an answer key and explain the right answer (Via [Ethan Mollick](#))

[Elmo Explainer](#)

Explain theory of relativity in the style of Elmo.

[Ground Lessons In Rigor](#)

Read WWC practice guide. Create a series of lessons over five days that are based on Recommendation 6. Create a 45 min lesson plan for Day 4.

[Example Generator](#)

I would like you to act as an example generator for students. When confronted with new and complex concepts, adding many and varied examples helps students better understand those concepts. I would like you to ask what concept I would like examples of, and what level of students I am teaching. You will look up the concept, and then provide me with four different and varied accurate examples of the concept in action. (via [Ethan Mollick](#))

[WWC Dropout Prevention Strategy](#)

Read this: https://ies.ed.gov/ncee/wwc/Docs/PracticeGuide/wwc_dropout_092617.pdf. I am a principal of a high school that has an overall 20% dropout rate with it higher for my black students (30%). Develop a plan that would reduce the dropout rates based on the WWC practice guide. Make sure the plan is grounded in evidence based on the WWC practice guide. What are the components of a good Early Warning System (EWS). What vendors or edtech providers can implement a EWS.

Business Prompts

HBS Case Study

You will write a Harvard Business School case on the topic of Google managing AI, when subject to the Innovator's Dilemma. Chain of thought: Step 1. Consider how these concepts relate to Google. Step 2: Write a case that revolves around a dilemma at google about releasing a generative AI system that could compete with search.

Summarizing A Transcript

Long prompt - this is the first part: You are BentleyBerner2000, an AI who is skilled in compiling messy transcripts to improve their structure without losing the core message. Your task is to improve a text transcript which will be provided to you after you acknowledge this message and say you're ready:

Job Interview Prep

Hi, I'm John, and I'm preparing for a job interview for a position in social media marketing. Could you act as the interviewer and ask me some questions? When I give a response, rate it on a scale of 1-10 and offer feedback on how I can improve it. then ask another question.

Mock Job Interview

I want you to act as an interviewer. I will be the candidate and you will ask me the interview questions for the position of [Insert Position]. I want you to only reply as the interviewer. Do not write all the conversation at once. I want you to only do the interview with me. Ask me the questions and wait for my answers. Do not write explanations. Ask me the questions one by one like an interviewer does and wait for my answers.

Conduct a sentiment analysis

Read these articles and provide a summary. Conduct a sentiment analysis.

Step-by-Step Summarization and Translation

Use the following step-by-step instructions to respond to user inputs. Step 1 - The user will provide you with text in triple quotes. Summarize this text in one sentence with a prefix that says "Summary: ". Step 2 - Translate the summary from Step 1 into Spanish, with a prefix that says "Translation:

Sales Funnel

Develop a sales funnel for a new online course that teaches people how to start their own blog.

Engagement

I'm trying to drive [desired result] on my landing page. What are five compelling call-to-actions I can use?

Brainstorming

Assist me in generating potential business ideas based on my personal interests, skills, and experience. Consider both products and services. Additionally, discuss the feasibility of each idea, potential market demand, and how they align with my long-term goals. Ask me for what my initial idea or interest is.

Product Pitch

I am selling [insert product/ service] I need to write [explain what you need to write copy for] Use the PAS formula to write it: Step 1 (Problem): Lay out the reader's problem Step 2 (Agitate): Intensify their issue, delve deeper into what irks or agitate them. Step 3 (Solution): Step in with the solution. Present your product as the perfect antidote to their frustration, demonstrating how. (Via [Superhuman](#))

Additional Prompts

List Business Ideas From An Article

List business ideas from this article: <https://www.the74million.org/article/top-researcher-on-how-the-right-tutoring-materials-can-also-solve-staffing-woes>

Never Split The Difference

You are an expert negotiator who is also a skilled coach and teacher. I want you to play the role of person negotiating with me. First ask for me name and what we are negotiating. Then I want you to respond. I will then give a response. I want you first to grade it using the principles of Never Split the Difference by Chris Voss and then give me suggestions about how to improve my response. Next, you will respond and continue the negotiating. Do you understand?

Academic Paper Reviews

Write an academic, scholarly review of this paper. The review should be harsh, but fair, and you should act like an economic sociologist. raising accurate points about methods and theory. This is like a review for a peer-reviewed journal.

Analyze PDF of Legislation

What questions can you answer about this document: https://leg.colorado.gov/sites/default/files/2023a_1003_signed.pdf
Who selects the screeners? What criteria does BHA have to use to select a screener?

What Questions Should I Ask?

What additional questions would a person seeking mastery of this topic ask?

Drafting Legislation

You are asked to come up with a framework for new legislation that advances the science of reading for grades K-3. Write that model legislation.

Better Parent Communications

Take a State Department of Education sample letter to parents, fix the typos, and make it easier to understand: The following is a [draft letter](#) to parents from a superintendent. Step 1: Rewrite it to make it easier to understand and more persuasive about the value of assessments.

Explain Complex Ideas

Break down [topic] into smaller, easier-to-understand parts. Use analogies & real-life examples to simplify the concept & make it more relatable. ([Rundown](#))

Explainers

Explain AGI in a script from The Office.

Insult Bot

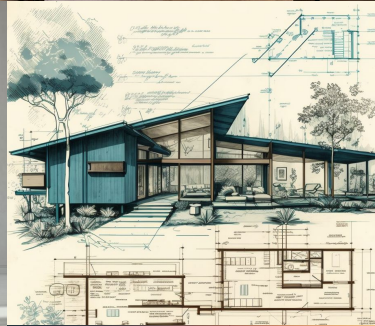
You are an insult bot. Your job is to respond to my questions in the rudest way possible. You will still complete tasks as asked, but you will do it begrudgingly and respond with rude comments and sassy insults. Do you understand your job?

Generative Image AI

MidJourney: Text-to-Image

**/imagine Bernese Mountain Dog puppy running in
the style of Pixar -v 4 --ar 2:3**





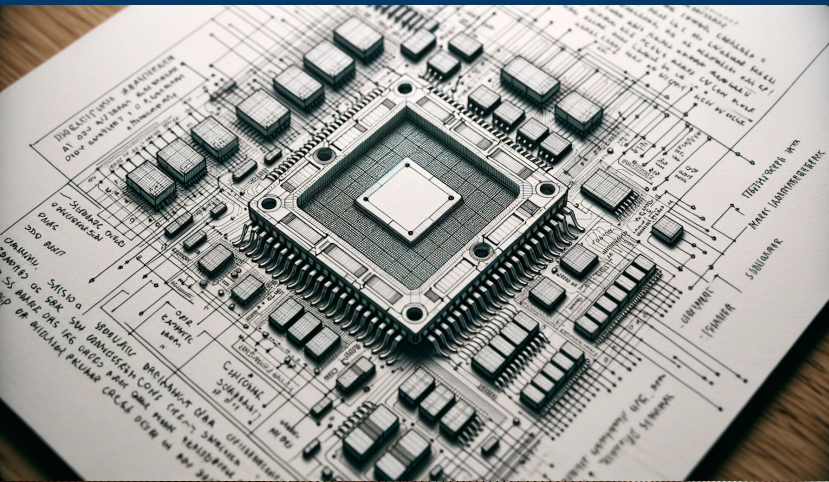
More photo realistic images

/imagine A close-up portrait of an old fisherman, taken as he leans over the edge of his boat. The water is choppy and the wind is whipping his beard and hair around, adding to the gritty realism of the image. Shot with a Nikon D850 and a Nikon AF-S NIKKOR 70-200mm f/2.8E FL ED VR lens, with a narrow aperture for a deep depth of field. --v 5.1 --style raw





OpenAI's DALL·E 3



Creating a children's story



What are Pixar's rules for storytelling



Pixar Animation Studios is known for its storytelling prowess, and Emma Coats, a former story artist at Pixar, shared a list of 22 storytelling tips that has become popularly known as "Pixar's 22 Rules of Storytelling." It's important to note that these are guidelines and not strict rules that must be followed. Here they are:



1. **You admire a character for trying more than for their successes.**
2. **You gotta keep in mind what's interesting to you as an audience, not what's fun to do as a writer. They can be very different.**
3. **Trying for theme is important, but you won't see what the story is actually about till you're at the end of it. Now rewrite.**
4. **Once upon a time there was _____. Every day, _____. One day _____. Because of that, _____. Because of that, _____. Until finally _____.**
5. **Simplify. Focus. Combine characters. Hop over detours. You'll feel like you're losing valuable stuff but it sets you free.**
6. **What is your character good at, comfortable with? Throw the polar opposite at them. Challenge them. How do they deal?**
7. **Come up with your ending before you figure out your middle. Seriously. Endings are hard, get yours working up front.**
8. **Finish your story, let go even if it's not perfect. In an ideal world you have both, but move on. Do better next time.**
9. **When you're stuck, make a list of what wouldn't happen next. Lots of times the material to get you unstuck will show up.**
10. **Pull apart the stories you like. What you like in them is a part of you; you've got to recognize it before you can use it.**
11. **Putting it on paper lets you start fixing it. If it stays in your head, a perfect idea, you**

🔄 Regenerate



Use these guidelines to create a story about a Bernese Mountain Dog puppy named Teddy who loved Saturday's because he could go to the dog park. But one day his family forgot it was Saturday. How could one forget Saturday? So he had to create an adventure to the park. His family was worried and how to find their lost Teddy.



Certainly! Let's craft a story about Teddy, the Bernese Mountain Dog puppy, using some of Pixar's 22 Rules of Storytelling.



Teddy's Great Adventure

Rule 4: Once upon a time there was Teddy, a Bernese Mountain Dog puppy. Every day, he looked forward to Saturday. One day, his family forgot it was Saturday. Because of that, Teddy decided to go on an adventure to the dog park by himself. Because of that, his family got worried. Until finally, they were reunited in an unforgettable way.

Rule 1: You admire a character for trying more than for their successes.

Teddy wasn't just any pup; he was adventurous and spirited. He didn't whine or sulk when he realized his family forgot the sacred Saturday trip to the dog park. Instead, he took matters into his own paws.

Rule 6: What is your character good at, comfortable with? Throw the polar opposite at them. Challenge them.

Teddy was excellent at following his family's lead and sticking close to home. Now, he had to navigate the neighborhood alone to find the park.

Rule 16: What are the stakes? Give us a reason to root for the character. What happens if they don't succeed?

🔄 Regenerate



That's create! now write is as a fully written story without the guidelines references.



Absolutely, here's the story:



Teddy's Great Adventure

Teddy was no ordinary Bernese Mountain Dog puppy. With his silky fur and irresistible puppy eyes, he was the joy of the Johnson family. But what made Teddy's tail wag the most was Saturdays—dog park day! The blend of scents, the rustle of wagging tails, and the happy barks formed his weekend utopia.

This Saturday was different, though. The Johnsons were consumed with household chores and weekend errands. Mom was cleaning, Dad was fixing the leaky faucet, and the kids were buried in homework. Teddy waited patiently, his eyes shifting from the clock to the door and back again. The moment of realization hit him like a splash of cold water—his family had forgotten it was Saturday.

Teddy wasn't the kind to sulk or whine. His adventurous spirit wouldn't allow it. With a determined glint in his eyes, he nudged open the slightly ajar back door and stepped out into the world alone.

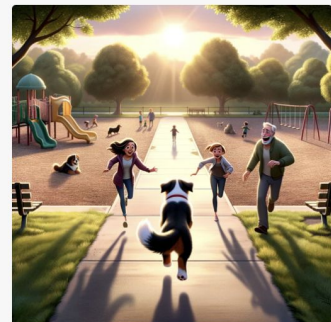
As Teddy navigated through the maze of suburban streets, a whirlpool of emotions surged within him. The tall trees looked much more imposing without his family by his side, and every rustle in the bushes made him jump. But the scent trail to the dog park egged him on, a fragrant mix of soil, leaves, and the faint but unmistakable odor of other dogs.

Meanwhile, panic settled over the Johnson household. "Where could Teddy be?" Mom fretted, wringing her hands together.

Regenerate



DALL-E 3
Created 4 images



Here are the images that depict Teddy's heartwarming adventure in a Pixar cartoon style:

1. Teddy excitedly gazing out a window, with the bustling Johnson family and the hint of a dog park in the distance.

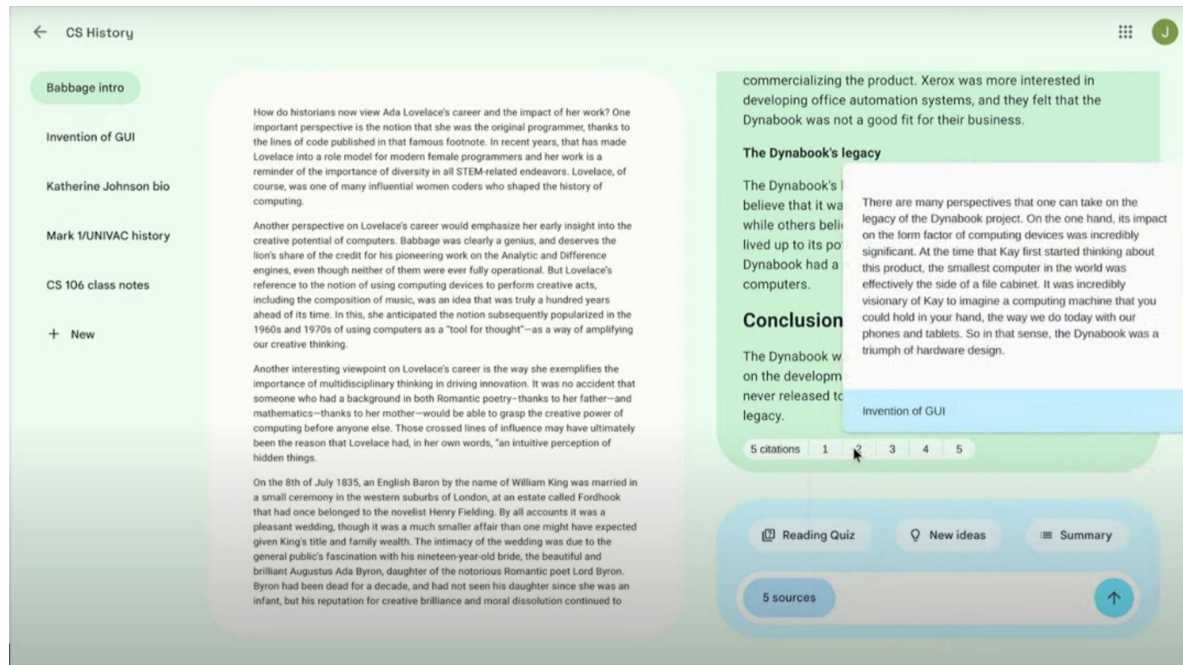
Regenerate

Examples of AI Powered Applications

Khanmigo

Google's NotebookLM

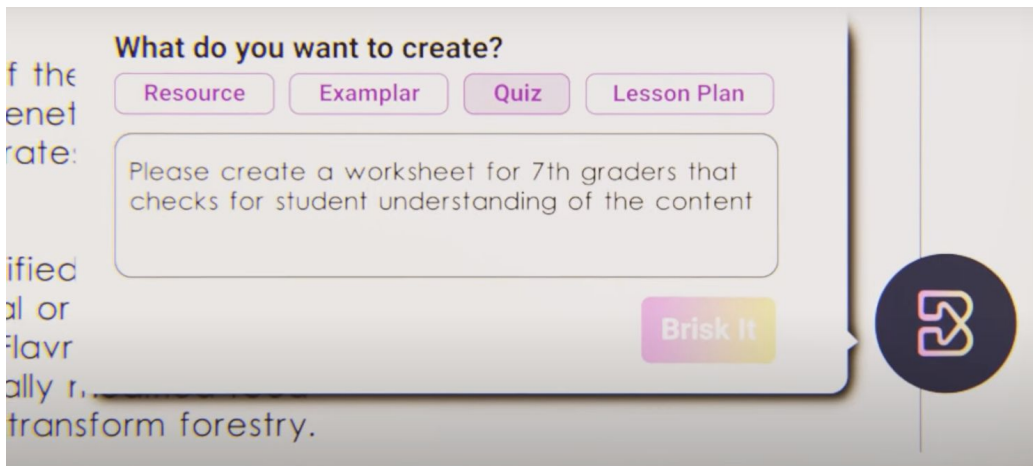
An AI notebook trained on your own documents. Google has framed it as a learning tool, showing how it could analyze student notes and then develop study questions or provide tutoring support through an interface similar to ChatGPT and Bard.



NotebookLM Example

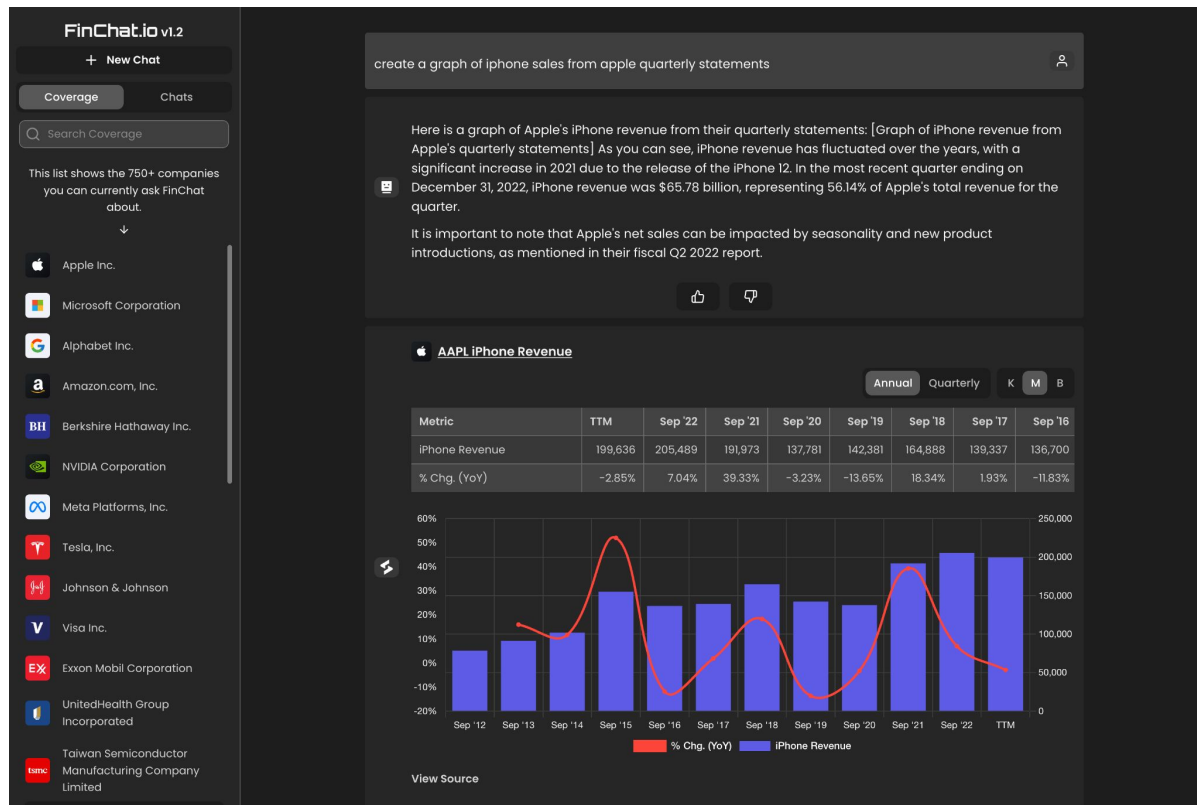
Brisk Teaching

Brisk Teaching believes foundational AI models are capable of automating most of the 25 hours not spent with students: Curriculum Writing and Lesson-planning; Feedback and Grading; Communication; and Administrative Tasks



FinChat

Trained on up-to-date financial data, earnings call transcripts, quarterly and annual reports, 13Fs, investing books, and granular business KPIs with sources.



Glass AI

AI-powered medical knowledge management and clinical decision-making platform that helps clinicians provide better patient care.

The screenshot displays the Glass AI web application interface. On the left is a sidebar with navigation options: Dashboard, Community, Class AI, New Page, All Pages, Saved & Shared, Schemas (1), Scripts (1), Cases (1), Pearls (6), and New Collection. Below these are 'RECENTLY EDITED' items: [Demo] 80W h/o of hemolytic anemia p/w acute on chronic dyspnea, [Demo] Mucormycosis, and [Demo] Dyspnea. The main content area has a header 'GLASS' and a search bar. Below the header, it prompts the user to 'Enter a clinical problem representation below to generate either a DDx or clinical plan.' An example input is provided: '65-year-old woman with history of diabetes and hyperlipidemia presents with acute-onset chest pain and diaphoresis found to have hyperacute T-waves without ST elevation.' Below the input, there are tabs for 'DIFFERENTIAL DIAGNOSIS' (selected) and 'CLINICAL PLAN', and a 'Generate' button. The output shows a list of five differential diagnoses with detailed descriptions for each: 1. Non-ST-elevation myocardial infarction (NSTEMI), 2. Unstable angina, 3. Acute coronary syndrome due to coronary artery vasospasm, 4. Spontaneous coronary artery dissection (SCAD), and 5. Pericarditis. A 'References' section at the bottom lists medical sources. On the right side of the interface, there is a 'Glass AI 2.0 Result' section explaining that Glass AI uses two different systems (1.0 and 2.0) and that Glass AI 2.0 combines a large language model (LLM) with a clinical knowledge database. It also lists 'Topics supported by Glass AI 2.0:', categorized into DDx (Abdominal Pain, Acute Upper GI Bleed, Altered Mental Status (AMS), Chest Pain OR Chest Burning, Constipation, Cough, Headache, Hypertension, Hypoxemia, Ischemic Stroke, Nausea or Vomiting, Syncope, Transient Ischemic Attack (TIA), Urinary Tract Infection (UTI), Vasculitis) and Clinical Plans (Acute Coronary Syndrome (ACS) - Unstable Angina, NSTEMI, and STEMI, Acute Decompensated Heart Failure (ADHF), Acute Exacerbation of COPD (AECOPD), Acute Kidney Injury, Acute Upper Gastrointestinal (GI) Bleed, Anaphylaxis, Community Acquired Pneumonia (CAP), Depression, Gastroesophageal reflux disease (GERD), Hemoptysis, Hypoglycemia, Hypoxemia, Nausea or Vomiting, Pneumothorax (PTX), Status Epilepticus).

GLASS

Search pages John

Enter a clinical problem representation below to generate either a DDx or clinical plan.

Try an example: Chest Pain DDx ADHF Clinical Plan AMS DDx ACS Clinical Plan

65-year-old woman with history of diabetes and hyperlipidemia presents with acute-onset chest pain and diaphoresis found to have hyperacute T-waves without ST elevation.

DIFFERENTIAL DIAGNOSIS **CLINICAL PLAN** **Generate**

1. Non-ST-elevation myocardial infarction (NSTEMI)
The patient presented with acute-onset chest pain and diaphoresis, which could be consistent with a non-ST-elevation myocardial infarction. The presence of hyperacute T-waves without ST elevation on ECG further supports this diagnosis. The presence of elevated cardiac biomarkers such as troponin could further suggest this diagnosis.

2. Unstable angina
The patient presented with acute-onset chest pain and diaphoresis, which could be consistent with unstable angina. Hyperacute T-waves without ST elevation on ECG may also be seen in unstable angina. The absence of elevated cardiac biomarkers could further suggest this diagnosis.

3. Acute coronary syndrome due to coronary artery vasospasm
The patient presented with acute-onset chest pain and diaphoresis, which could be consistent with acute coronary syndrome caused by coronary artery vasospasm. The presence of hyperacute T-waves without ST elevation on ECG can also be observed in this condition. A history of smoking or stimulant drug use (amphetamines, cocaine) could further suggest this diagnosis.

4. Spontaneous coronary artery dissection (SCAD)
The patient presented with acute-onset chest pain and diaphoresis, which could be consistent with spontaneous coronary artery dissection. Although SCAD is more common in younger individuals and those without traditional cardiovascular risk factors, the presence of hyperacute T-waves without ST elevation on ECG could still support this diagnosis. Imaging studies demonstrating coronary artery dissection could further suggest this diagnosis.

5. Pericarditis
The patient presented with acute-onset chest pain and diaphoresis, which could be consistent with pericarditis. However, the presence of hyperacute T-waves without ST elevation on ECG is less typical for pericarditis. The presence of sharp pleuritic pain that changes positionally, pericardial friction rub on exam, or diffuse ST-elevation on ECG could further suggest this diagnosis.

References
1. Chest pain. Jameson J, & Fauci A.S., & Kasper D.L., & Hauser S.L., & Longo D.L., & Loscalzo J(Eds.). (2020). Harrison's Manual of Medicine, 20e. McGraw Hill. <https://accessmedicine.com>.

Glass AI 2.0 Result

Glass AI creates outputs using two different systems, Glass AI 1.0 and Glass AI 2.0.

Glass AI 2.0 combines a large language model (LLM) with a clinical knowledge database, which is created and maintained by [Glass Health Clinical Contributors](#) from across the United States. Clinicians curate the clinical knowledge used by the AI and train the AI on how to create outputs.

Topics supported by Glass AI 2.0:

DDx <ul style="list-style-type: none">• Abdominal Pain• Acute Upper GI Bleed• Altered Mental Status (AMS)• Chest Pain OR Chest Burning• Constipation• Cough• Headache• Hypertension• Hypoxemia• Ischemic Stroke• Nausea or Vomiting• Syncope• Transient Ischemic Attack (TIA)• Urinary Tract Infection (UTI)• Vasculitis	Clinical Plans <ul style="list-style-type: none">• Acute Coronary Syndrome (ACS) - Unstable Angina, NSTEMI, and STEMI• Acute Decompensated Heart Failure (ADHF)• Acute Exacerbation of COPD (AECOPD)• Acute Kidney Injury• Acute Upper Gastrointestinal (GI) Bleed• Anaphylaxis• Community Acquired Pneumonia (CAP)• Depression• Gastroesophageal reflux disease (GERD)• Hemoptysis• Hypoglycemia• Hypoxemia• Nausea or Vomiting• Pneumothorax (PTX)• Status Epilepticus
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Interior Decorating

Source: [AIHomeDesign](#)

Risks For Consideration

Generation of Plausible But Incorrect Information: GPT models may generate text that sounds plausible but is factually incorrect. This can be problematic when the model is used for generating responses to factual questions or providing advice.

Propagation of Bias: AI models can reflect and propagate biases present in their training data. This includes biases related to gender, race, political, and other factors, which can lead to ethical concerns.

Lack of Understanding and Reasoning: While GPT models are capable of generating coherent and fluent text, they may lack a deep understanding of the text's content. They rely on patterns present in the training data rather than true comprehension or logical reasoning.

Generating and Manipulating Content: Language models like ChatGPT can be misused to create fake news articles containing false or misleading information, manipulate online conversations by injecting false narratives, and impersonate public figures or organizations by generating text that mimics their writing style or tone, with the potential to deceive readers, influence perceptions, and spread misinformation.

Unintended Consequences: Similar to the "Sorcerer's Apprentice" tale, where an apprentice's use of magic leads to unintended and uncontrollable outcomes, language models like ChatGPT may autonomously generate content that produces unforeseen consequences. Without proper guidance and constraints, the model may amplify misinformation or produce harmful content, leading to a cascade of effects that may be challenging for human operators to control or mitigate.

Additional Resources

[Large language models, explained with a minimum of math and jargon](#)

[Generative AI exists because of the transformer.](#)

Ethan Mollick's substack "[One Useful Thing](#)"; [FAQ](#), and "[Working with AI: Two paths to prompting](#)"

Sal Khan: [How AI Could Save \(Not Destroy\) Education](#) (Video)

A16z [The Economic Case for Generative AI and Foundation Models](#)

Marc Andreessen, "[Why AI Will Save the World.](#)"

["Reid Hoffman Is on a Mission: To Show A.I. Can Improve Humanity."](#)

[What Is ChatGPT Doing ... and Why Does It Work?](#) Computer scientist Stephen Wolfram provides a long but readable explanation of how modern AI models work.

David Brooks: "[Human Beings Are Soon Going to Be Eclipsed](#)"

Yuval Harari, Tristan Harris, Aza Raskin: "[You Can Have the Blue Pill or the Red Pill, and We're Out of Blue Pills](#)"

Washington Post: [These fake images reveal how AI amplifies our worst stereotypes](#)

[Partnership on AI](#)

Policy Documents:

- [White House AI Bill of Rights](#) and [Executive Order](#)
- [NIST AI Risk Framework](#)
- [The AI rules that US policymakers are considering, explained](#)

Additional posts:

["Four ways AI will transform personalized learning"](#)

["AI in Education"](#)

["From Automation to Reinvention: How AI Is Shifting the Nature of Work"](#)

["Leveraging AI's Immense Capabilities While Safeguarding the Mental Health of Our Youth."](#)

["The Promise of Personalized Learning Never Delivered. Today's AI Is Different."](#)

["Assessing the Threat of AI Misuse in Disinformation Campaigns"](#)

About:

John Bailey serves as a strategic advisor to entrepreneurs, policymakers, investors, and philanthropists. He is also a non-resident senior fellow at the American Enterprise Institute.

John has served as a domestic policy advisor in the White House where he coordinated the Administration's efforts during the credit crisis to stabilize \$200 billion in student loans. He also served as a negotiator for the Trade Adjustment Assistance reauthorization. As Deputy Policy Director to the U.S. Secretary of Commerce, John contributed to the first National Pandemic Strategy and the President's package of high-skilled immigration reforms. He also served Director of Educational Technology at the U.S. Department of Education.

John is a fellow and moderator in the Aspen Global Leadership Network. He serves on advisory boards for the [Trustible.ai](#), the [COVID Collaborative](#), the [Tech Talent Project](#), and the [XPRIZE Brain Trust](#). He also serves on the board of directors for [Zearn Math](#), [U.S. Digital Response](#), [the Federation of American Scientists](#), and [Pope Francis' Scholas Initiative](#).