

# Practical Al for Stewardship

Adam Kehoe





**School of Information Sciences** 

#### Why GenAl Matters

Theory and Background

Practical Examples

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#### **Practical Examples**

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## Why GenAl Matters

# Al tools are changing many workflows\*

Al is influencing how people think about authenticity and credibility.

<sup>\*</sup> Not always for the better, and often not as much as people claim

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#### Google promised a better search experience - now it's telling us to put glue on our pizza



/ Google's Al Overviews feature is delivering incorrect answers faster than ever.

By Kylie Robison, a senior Al reporter working with The Verge's policy and tech teams. She previously worked at Fortune Magazine and Business Insider.

May 23, 2024, 3:27 PM EDT









205 Comments (205 New)

ARTIFICIAL INTELLIGENCE / TECH / GOOGLE

# Google promised experience – nou glue on our pizza



Illustration by Cath Virginia / The Verge | Photo



ut

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Al reporter working with The Verge's policy and tech ked at Fortune Magazine and Business Insider.

EDT

205 Comments (205 New)

# No one's ready for this

Our basic assumptions about photos capturing reality are about to go up in smoke.

By Sarah Jeong, features editor who publishes award-winning stories about law, tech, and internet subcultures. A journalist trained as a lawyer, she has been writing about tech for 10 years.

Photography by Chris Welch / The Verge; Al-altered images made with Google's Magic Editor

Aug 22, 2024, 1:00 PM EDT







356 Comments (356 New)

If you buy something from a Verge link, Vox Media may earn a commission. See our ethics statement.



Image: Cath Virginia / The Verge, Stuart Franklin

CAMERAS AN

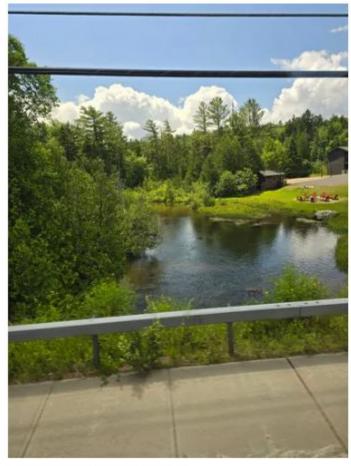
#### No for

Our bas capturir smoke.

By Sarah Jeong internet subculyears. Photography by Editor.

8 f

f you buy som



A real photo of a stream.



Edited with Google's Magic Editor.

## Background

Home

News

Tech

Finance

Leadership

Well

Recommends

Fortune 500

TECH-GOOGLE

Alphabet CEO Sundar
Pichai says that A.I. could
be 'more profound' than
both fire and electricity—
but he's been saying the
same thing for years



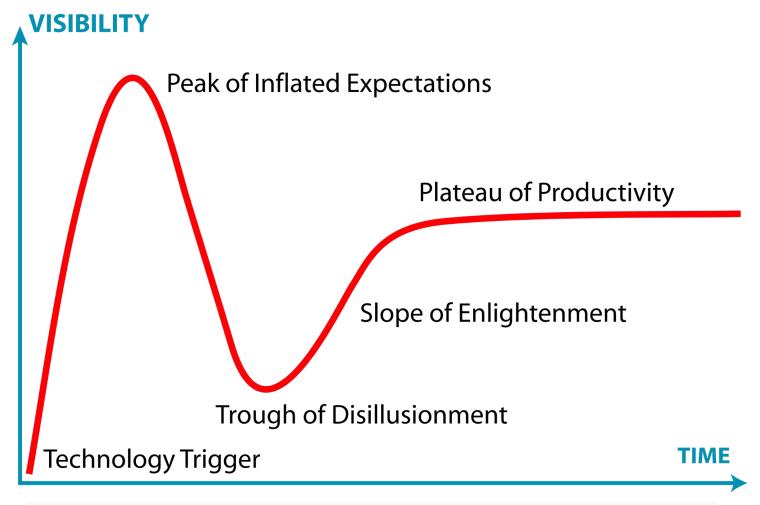


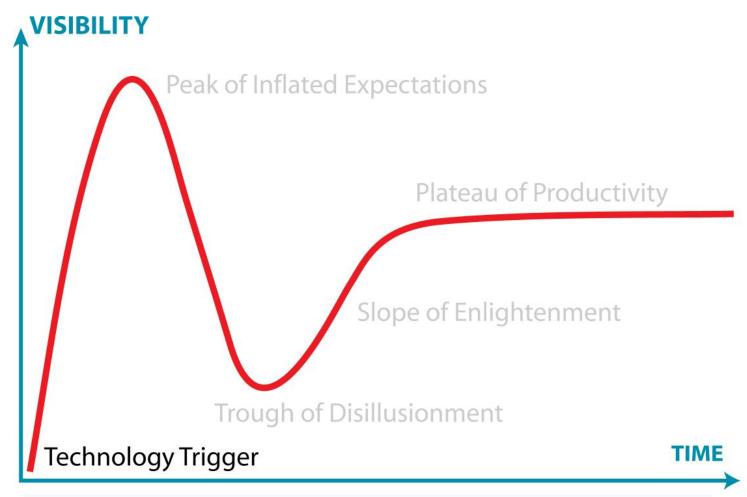


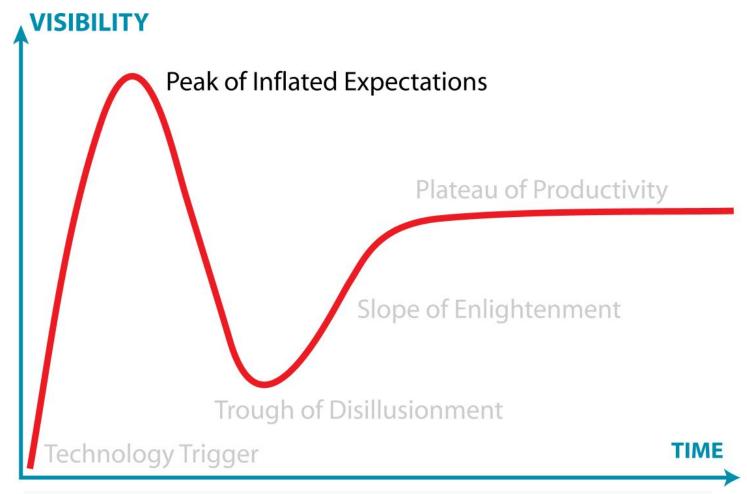
Sundar Pichai believes A.I. will be "more profound" than fire or electricity.

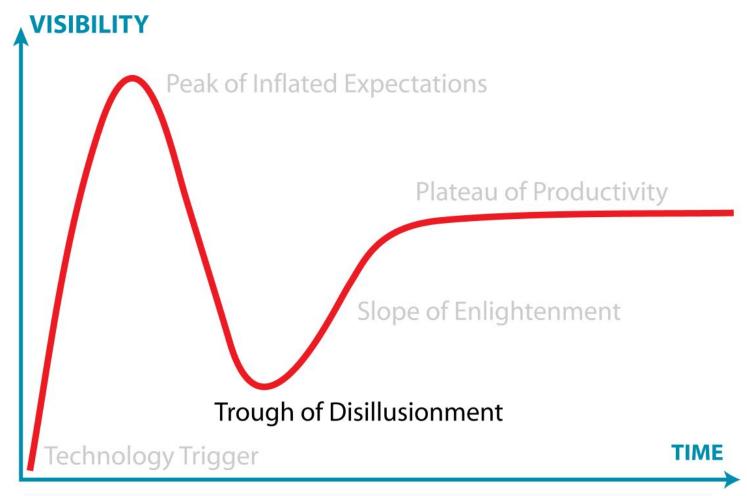
KYLE GRILLOT-BLOOMBERG/GETTY IMAGES

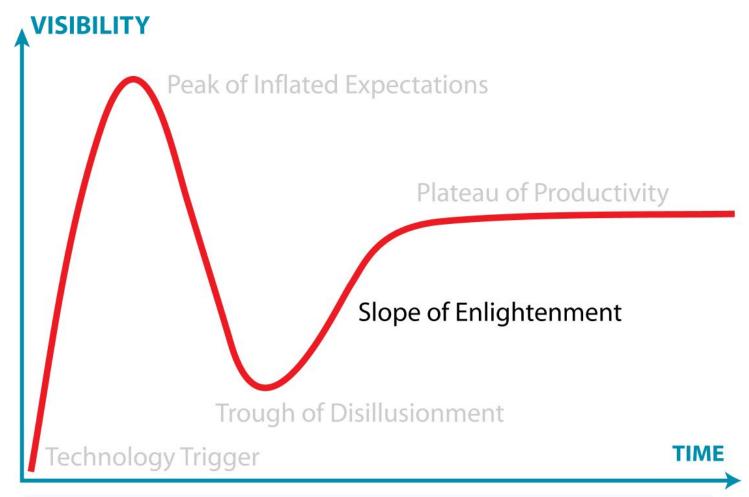
## The Hype(d) Machine

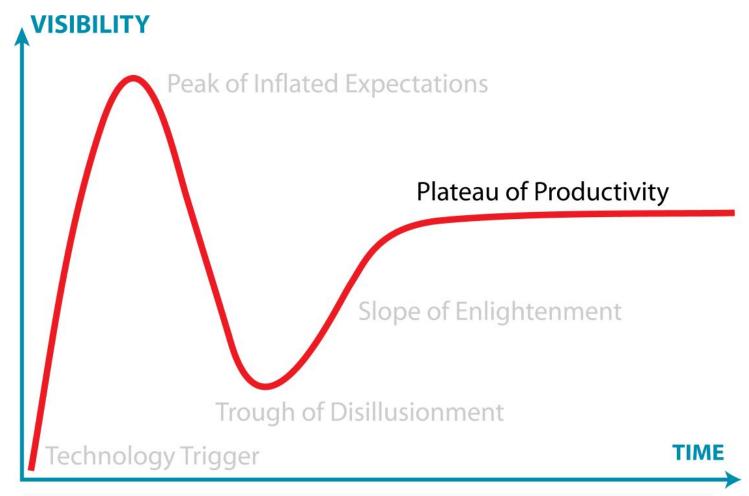


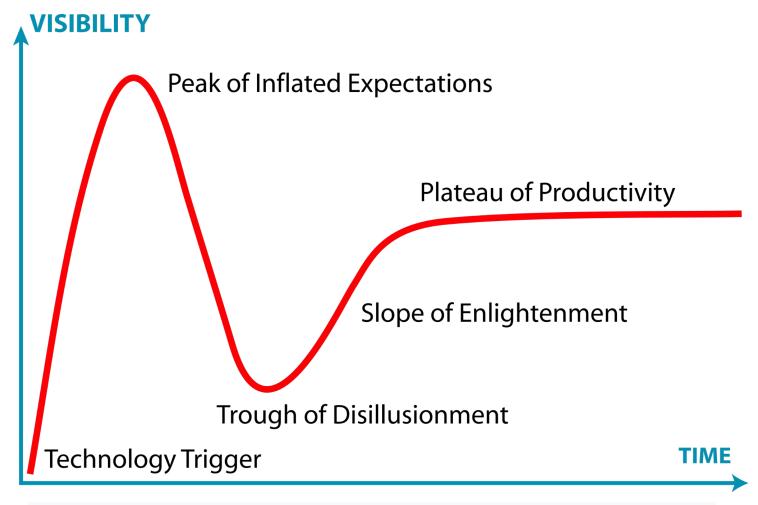


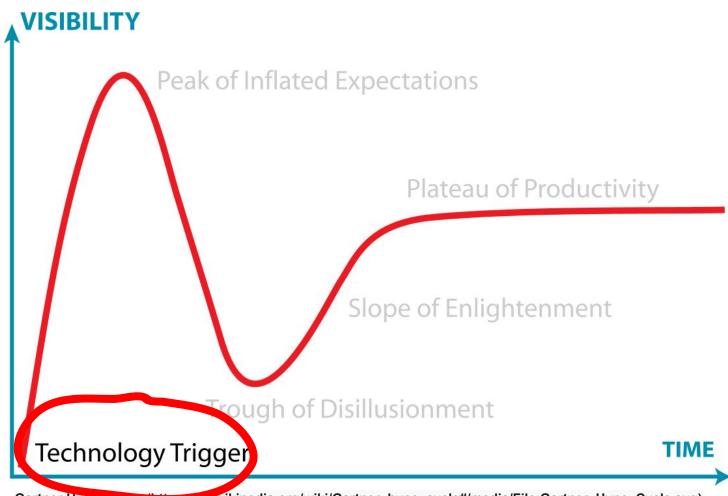










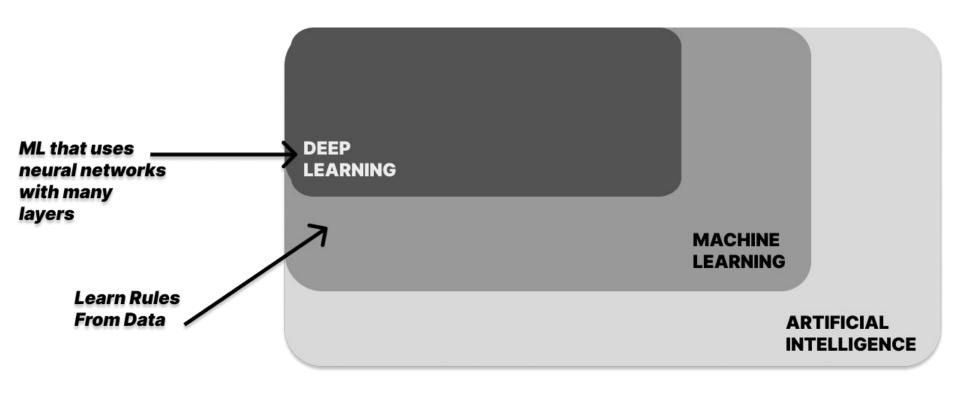


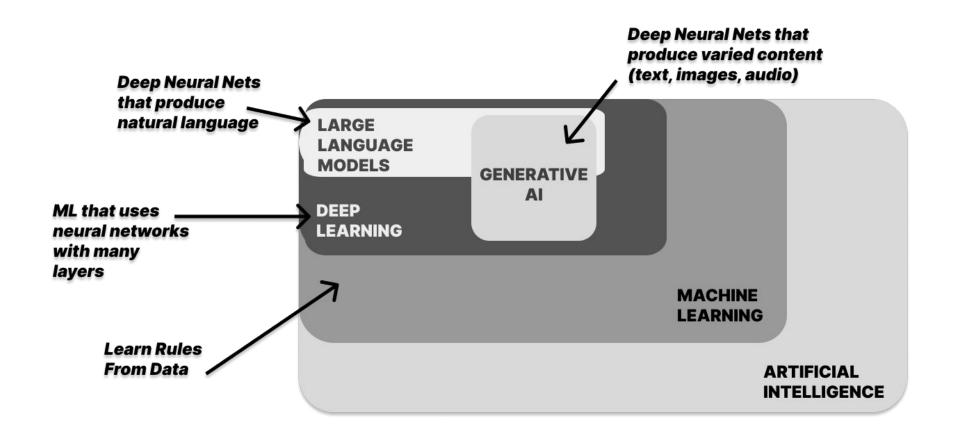
Why is it moving so quickly?



\*Adapted from "Build a Large Language Model" by Sebastian Raschka







# Data Rules

# Rules Data

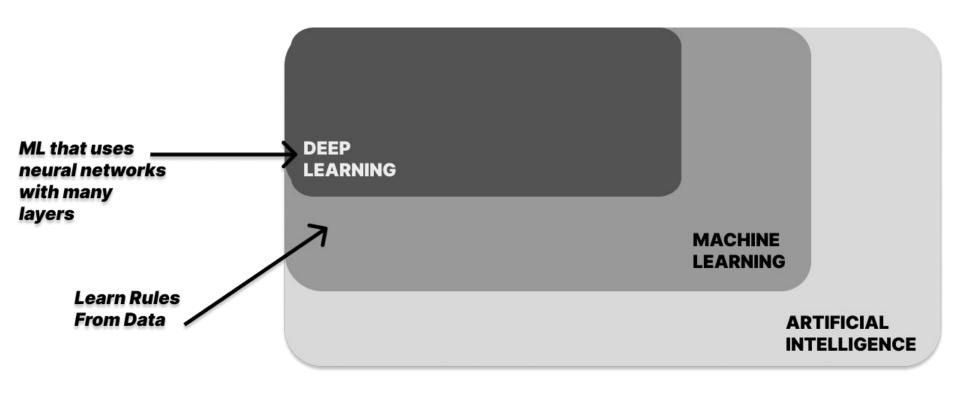
#### **Big Picture**

Generative AI can create text, images, music, code, protein structures, 3d models, etc.

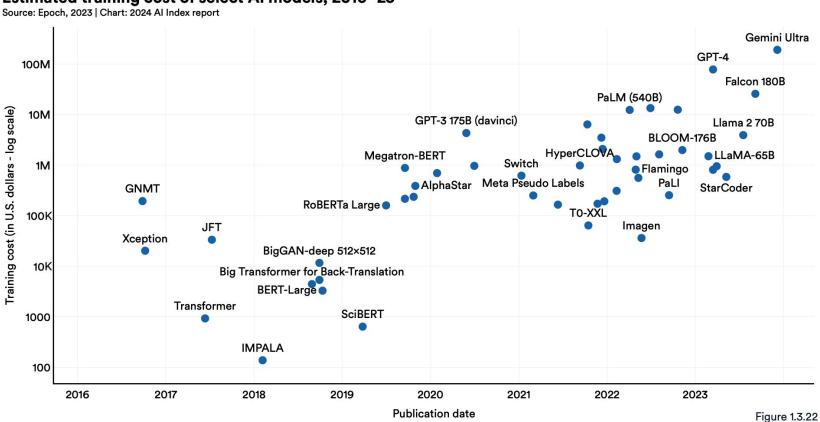
# What is generative Al?

Why is it moving so quickly?

What can you do with it today?



#### Estimated training cost of select Al models, 2016-23



#### **Increase In Resources**



Used

2013 Ford Escape SEL

120,720 mi.

\$9,990

Est. \$164/mo\* ①

Get the AutoCheck Report ₹

Vitale Family Auto Sales Inc 4.4 ★★★★ (39 reviews)

Tewksbury, MA (20 mi.)

Late 2018 - "\$10k USD



Late 2023 - "\$100 Million USD

https://aiindex.stanford.edu/wp-content/uploads/2024/04/HAI\_2024\_AI-Index-Report.pdf

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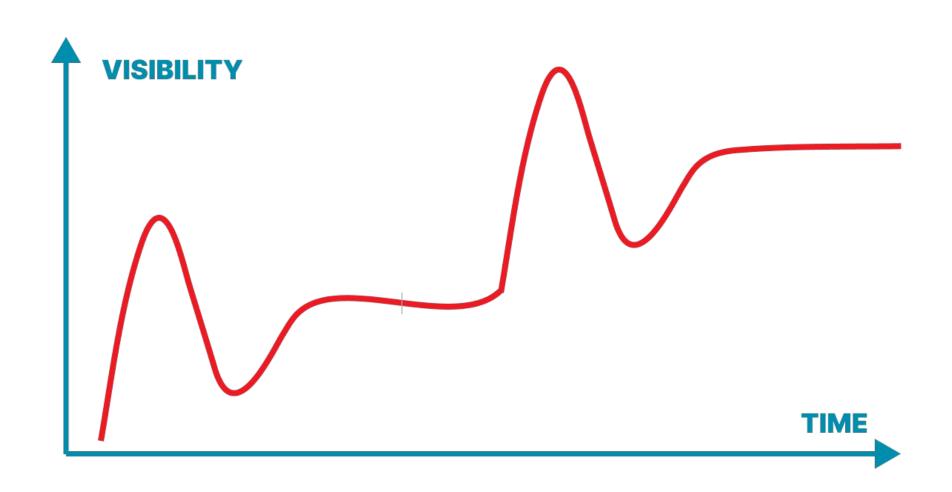
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Late 2018 - "\$10k USD

https://aiindex.stanford.edu/wp-content/uploads/2024/04/HAI\_2024\_AI-Index-Report.pdf



### Midjourney generations over time: "a hyper-realistic image of Harry Potter"

Source: Midjourney, 2023



V1, February 2022



V2, April 2022



V3, July 2022



V4, November 2022



V5, March 2023



V5.1, March 2023



V5.2, June 2023



V6, December 2023



MIDJOURNEY V1 MARCH 14, 2022

MIDJOURNEY V2 APRIL 2022

MIDJOURNEY V3 JULY 2022

MIDJOURNEY V4 NOVEMBER 2022

MIDJOURNEY V5 MARCH 16, 2023

ELUNA.A





https://rocketdash.io/midjourney-and-the-progress-of-ai-in-2023-a-year-of-milestones/

**Food Photography** 

a photorealistic cheeseburger, white clean background, commercial photography









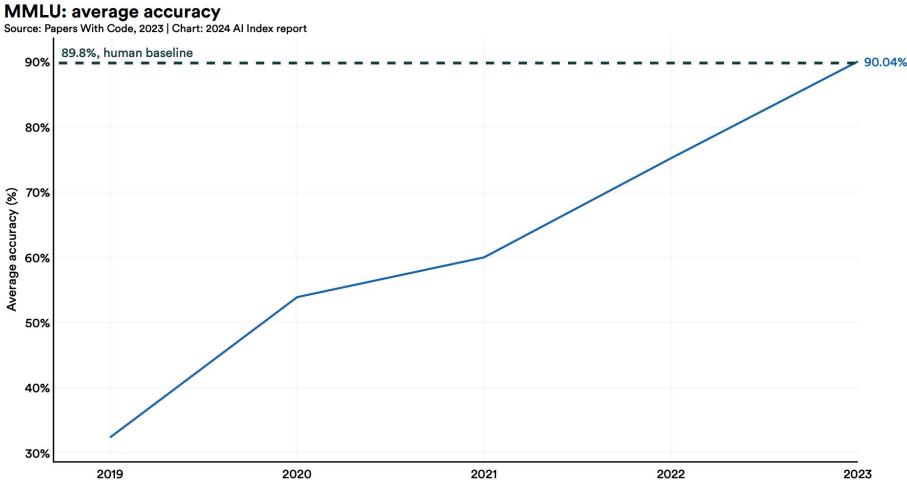






https://goldpenguin.org/blog/midjourney-v1-to-v6-evolution/





https://aiindex.stanford.edu/wp-content/uploads/2024/04/HAI\_2024\_AI-Index-Report.pdf

Simulated exams	GPT-4 estimated percentile	GPT-4 (no vision) estimated percentile	GPT-3.5 estimated percentile
Uniform Bar Exam (MBE+MEE+MPT) <sup>1</sup>	298/400	298/400	213/400
	~90th	~90th	~10th
LSAT	<b>163</b>	<b>161</b>	<b>149</b>
	~88th	~83rd	~40th
SAT Evidence-Based Reading & Writing	<b>710/800</b>	<b>710/800</b>	<b>670/800</b>
	~93rd	~93rd	~87th
SAT Math	<b>700/800</b>	690/800	<b>590/800</b>
	~89th	~89th	-70th
Graduate Record Examination (GRE) Quantitative	<b>163/170</b>	<b>157/170</b>	<b>147/170</b>
	~80th	~62nd	~25th
Graduate Record Examination (GRE) Verbal	<b>169/170</b>	<b>165/170</b>	<b>154/170</b>
	~99th	~96th	~63rd
Graduate Record Examination (GRE) Writing	<b>4/6</b>	<b>4/6</b>	<b>4/6</b>
	~54th	~54th	~54th
USABO Semifinal Exam 2020	<b>87/150</b>	<b>87/150</b>	<b>43/150</b>
	99th-100th	99th-100th	31st-33rd
USNCO Local Section Exam 2022	36/60	38/60	24/60
Medical Knowledge Self-Assessment Program	75%	75%	53%
Codeforces Rating	<b>392</b>	<b>392</b>	<b>260</b>
	below 5th	below 5th	below 5th
AP Art History	<b>5</b>	<b>5</b>	<b>5</b>
	86th–100th	86th-100th	86th-100th
AP Biology	<b>5</b>	<b>5</b>	<b>4</b>
	85th–100th	85th-100th	62nd-85th
AP Calculus BC	<b>4</b>	<b>4</b>	<b>1</b>
	43rd-59th	43rd-59th	Oth-7th

Link: https://openai.com/research/gpt-4

### **Big Picture**

Al tools have become more visible to the public because they are more powerful, largely due to Moore's law, data availability, and an investment feedback loop.

What is generative Al?
Why is it moving so quickly?

What can you do with it today?

#### **Executive**

- Planning
- Evaluating
- Deciding
- Brainstorming

#### Relational

- Copywriting
- Editing
- Rehearsing
- Outlining

### **Production**

- Creating art
- Writing code
- Editing video
- Rapid prototyping
- Creating music

#### **Executive**

- Planning
- Evaluating
- Reflecting
- Brainstorming

#### **Relational**

- Copywriting
- Editing
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### **Production**

- Creating art
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#### Executive

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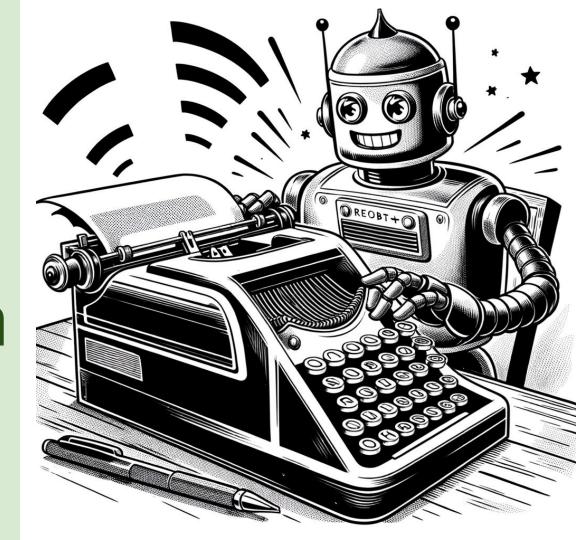
### **Production**

- Creating art
- Writing code
- Editing video
- Creating music

### **Everyone**

- Exploring
- Learning
- Getting constructive feedback
- Playing with ideas and having fun!

# Text Generation



### **Prompt Engineering**

The process of giving instructions to an Al program to get specific results. The skill lies in knowing how to phrase prompts to effectively leverage the capacities of the system.



#### How can I help you today?

Help me study

vocabulary for an exam

Tell me a fun fact

about the Roman Empire

Make me a personal webpage

after asking me three questions

Design a programming game

teach basics in a fun way



Message ChatGPT



### **Warming Up**

- Would like to achieve X
- "Provide a complete sequence of steps"
- "Fill in the missing steps"

#### Example:

I would like to start a planned giving program. I know that I need to do a variety of things to get ready. Provide a complete sequence of steps for me. Be sure to fill in any missing steps.

https://chat.openai.com/share/a15e8788-447e-4931-a215-297ec28d3a66



You I would like to start a planned giving program. I know that I need to do a variety of things to get ready. Provide a complete sequence of steps for me. Be sure to fill in any missing steps.



Starting a planned giving program involves a series of well-structured steps. Here's a comprehensive sequence to guide you:

- 1. **Define Your Objectives**: Clearly outline the goals of your planned giving program.
- Determine what you want to achieve, whether it's supporting a specific cause. creating a long-term income source for a charity, or building an endowment.
- 2. Understand Your Donors: Analyze your current donor base to understand their capacity and interest in planned giving. This might involve segmenting your donors based on their giving history, wealth indicators, and engagement levels.
- 3. Develop Policies and Procedures: Establish clear policies and procedures for accepting and managing planned gifts. This includes guidelines for different types of gifts (bequests, trusts, annuities, etc.), legal considerations, and ethical standards.
- 4. Educate Your Team: Ensure that your staff, especially those involved in fundraising and donor relations, are well-versed in the basics of planned giving. Consider training sessions or hiring an expert for in-depth knowledge.
  - 5. Create Marketing and Communication Plan: Develop a strategy to promote your planned giving program. This should include targeted messaging for potential donors, informational materials, and a plan for ongoing communication and

### Flipped Interaction

- Ask me questions to achieve X
- Continue asking questions until condition Y is met
- Tip: "ask me questions one at a time."

#### Example:

I would like to start a planned giving program. Ask me questions until you have a clear understanding of our organization and our goals. Then offer a plan specifying each step. Please ask me questions one at a time.

### Persona

- As Expert X, Do Y
- Modify as needed e.g. "in a friendly tone," or "crisp and concise," etc.
- Tip: give small tasks initially and give feedback to make sure you are getting the right style

#### Example:

Act as an expert copywriter. Your writing should be concise and crisp. Write a three paragraph opening to a donation appeal for an organization that....

### Audience

- Explain X to a person of background Y
- Tip: "Explain this at the level of a bright high school student" often works well for varied audiences
- Tip: Your creativity is the limit.
   Ex: "Explain planned giving to a bird."

#### Example:

Act as a communication coach. Offer tips to non-fundraising staff (kitchen, accounting, etc) working for nonprofit organizations about how to listen and respond to opportunities to discuss planned giving.



Explain planned giving to a bird



Sure, let's imagine explaining planned giving to a bird:

"Hey little bird, you know how you gather and store seeds for the future? Planned giving is a bit like that, but for humans. Just like you plan ahead for tougher times or for your little chicks, people set aside some of their resources to help others in the future. They decide while they are still flying around, just like you, to give some of their 'seeds' (which we call money) to help others after they have flown their last flight. It's a way for them to leave a lasting nest of help and support for others, even when they're not here anymore. Just like your nest keeps your chicks safe, people's planned gifts take care of others when they're gone."







### Refining Questions

- "Whenever I ask a question, suggest a better version of the question to use instead. Then ask if I'd prefer to use that question."
- Tip: be careful with queries like this. If you don't know much about the domain it is harder to evaluate results. More often than not though, the questions themselves are helpful.

#### Example:

I don't know very much about online giving. How should I go about choosing a vendor?

### **Formatting**

- "Show your results as...."
- Table
- List
- Summary
- Spreadsheet
- Bullet points
- JSON

#### Example:

Create a reading list for fundraising staff about X. Format your results in a table that I can easily copy and paste. Include a two sentence description of why you made the recommendation. Score each recommendation by how difficult it is to read.

## Priming

- No priming "Write five subject lines for an email about X"
- Single: "Write five subject lines for an email about X. Here is an example of the last one we used:...."
- Multiple: "Write five subject lines for an email about X. Here are the last four we used. Make sure to use a similar style."

#### Example:

Write five subject lines for an email about seasonal giving. Here are the last four we used. Make sure to use a similar style.

### Criticism

- "Give me three actionable criticisms about X"
- "Acting as a hardened editor with an eye for fluffy language..."
- Can now upload images for feedback on design, software, etc
- Tip: "Rate this on a scale of 1-10 with a two sentence explanation of your rating"

#### Example:

In the next message I will copy and paste a letter. From the perspective of a seasoned editor with an eye for inauthentic language, give me three actionable criticisms. Rate the letter on a scale of 1-10, with a two sentence explanation of your rating.

### Librarian

- Prompts oriented to finding references to outside material
- Can be books, music, film, games, online courses, etc
- "I liked X because of Y, help me find similar books"
- Tip: use prompts that push the LLM to offer more advanced suggestions
- Tip: pair with the iteration strategy if the first recommendations are too basic

#### Example:

You are an expert guide to people who are embarking on PhD programs. For a given topic, you provide thoughtful, concise recommendations for books to read on a subject. You assume that your user is reasonably well educated on the subject but looking to delve into deeper material. Your recommendations focus on scholarly, well-regarded works that a new PhD student should be aware of in the field you've been asked about. Unless otherwise specified, you provide at least five recommendations on the topic. You then identify the most crucial two to read if they are pressed for time, along with a concise explanation of why you made those recommendations.

In your conversation, don't make any direct reference to PhD programs. Just get straight to your recommendations, and only talk about the topic.

### Iteration

- "Give me 50 ideas about X"
- Combine with other techniques above, for example "flipped interaction" to tailor the ideas
- Focus on quantity to trigger your creativity
- The suggestions may get strange as the model struggles to suggest anything plausible

#### Example:

Give me 50 ideas about unique stewardship campaigns for the Fall season...

# Novelty

- "Give me a counterintuitive insight..."
- Combine with other techniques above, for example "iteration" to map out divergent ideas

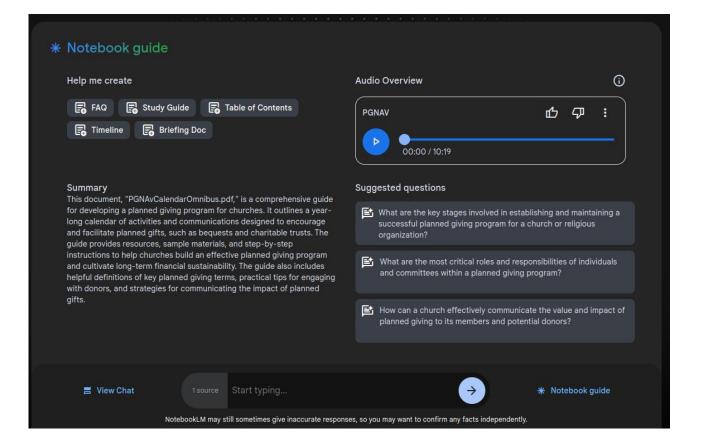
#### Example:

For a syllabus I'm creating on [X], imagine seven radically different people teaching the same course. Provide three bullet points representing each teacher, explaining the surprising and distinct learning outcomes each would aim for in their version of the class.

### Rehearsing

- "We are going to play a roleplaying game to help me with difficult conversations"
- "You will play the role of a donor who is upset about X"
- "The donor has a legal background and asks very exacting questions"

#### Research and Summarization







Provider/Tool	Cost	Ease Getting Started	Description
OpenAl/ChatGPT	\$20 per month, advanced models, includes image generation	Easy	The easiest way to get started
Anthropic/Claude	Growing competitor to OpenAl	Easy/Moderate	Specialized in higher context lengths and enterprise use
Google/Gemini	Free, some paid offerings	Easy	Uneven performance, but Google has immense resources to improve

<sup>\*</sup>Please Note: The Names/Pricing of Tools Changes Often



#### **Prompting Art**

Models can produce complex artwork via text prompts.

#### The Basics

- The more detail and specificity you can provide, the better (usually)
- Knowledge of art history and a good visual library is helpful
- Start by outlining the basics of what you want in your image

#### Things to Consider:

- Do you want a photo, painting, illustration?
- What is the subject (animal, person, landscape)
- Environment (indoor/outdoor/underwater, etc)?
- What is the lighting like?
- Specific art style?
- Specific artist?
- Point of view?

#### **Warming Up**

 "A die-cut sticker of a slightly chubby gray cat striking a heroic pose in a cute, childlike anime style"





Shot Type	Style	Subject	Lighting	Context	Lens	Device
Close-up	Polaroid	Woman	Soft	Indoor	Wide-angle	iPhone X
Extreme close up	Monochrome	Old man	Ambient	Outdoor	Telephoto	CCTV
POV	Long exposure	Grey cat	Ring	At Night	24mm	Nikon Z FX
Medium shot	Color Splash	Bunny	Sun	In the park	EF 70mm	Canon
Long shot	Tilt-shift	Ferrari	Cinematic	Studio	Bokeh	Gopro

#### Adapted from:

https://cdn.openart.ai/assets/Stable%20Diffusion%20Prompt%20Book%20From%20OpenArt%2010-28.pdf

#### Simple Workflow

- Tell ChatGPT/Dalle what you want
- The system will generate a prompt for you
- Less control, but easy workflow



#### You

Can you design an editorial illustration appropriate for something like an instructional video or magazine that is inspired by midcentury graphic design approaches that illustrates the general spirit of planned giving? It shouldn't have any text and basically is just some art to accompany an explainer. While influenced by midcentury graphic design, it should also feel modern

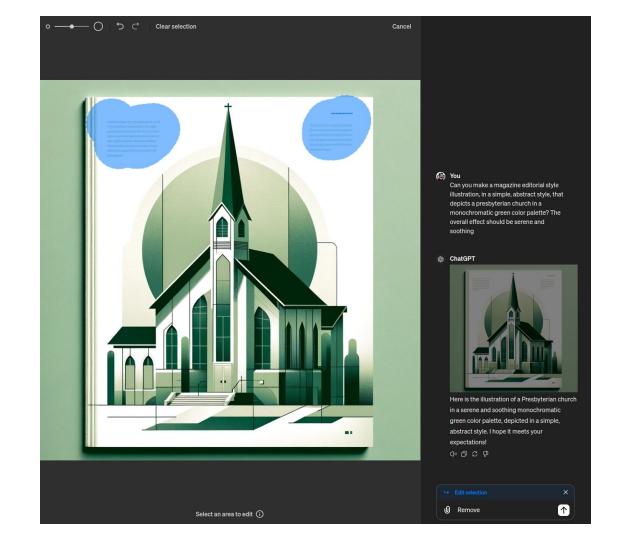


#### ChatGPT



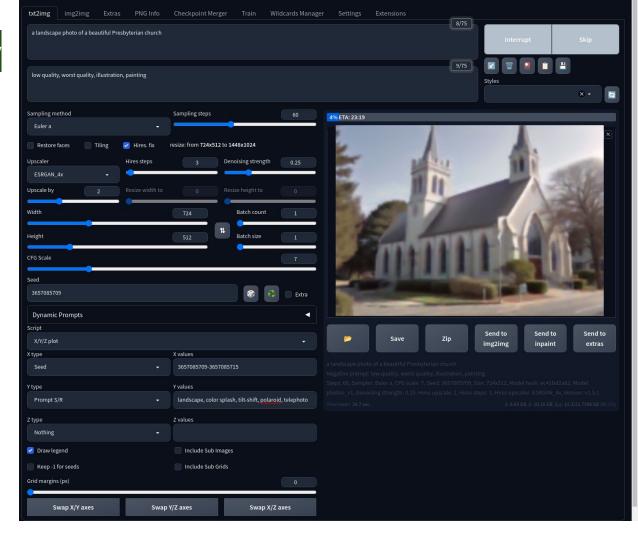
# Simple Workflow, Continued

- Iteratively refine in a conversational style
- Can now highlight specific areas to alter



#### Advanced Workflow

- "A landscape photo of a beautiful Presbyterian church"
- Negative prompt "low quality, worst quality, illustration, painting"
- Sampling method: Euler-A, 60 sample steps
- Upscaled
- Prompt matrix



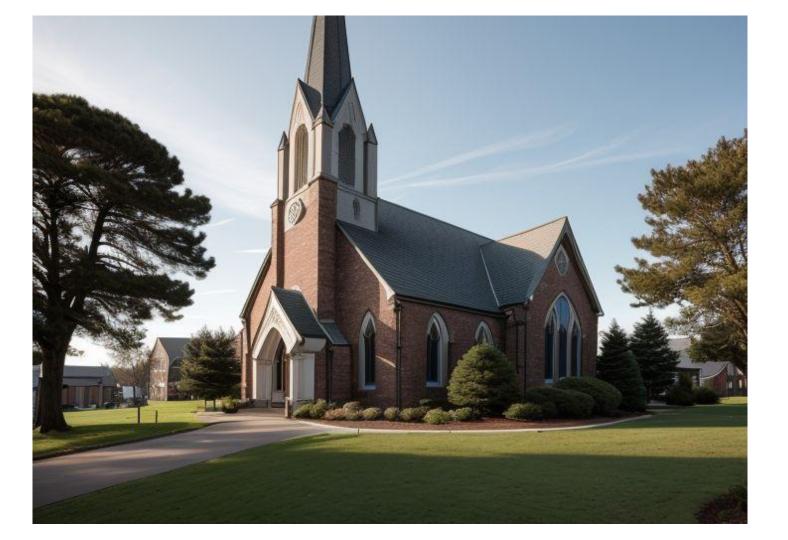
Seed: 3657085716 Seed: 3657085717 Seed: 3657085718 Seed: 3657085719 neon lighting duotone cinematic sun rays

landscape

polaroid

night shot

bokeh









#### Case Study - Planned Giving Game









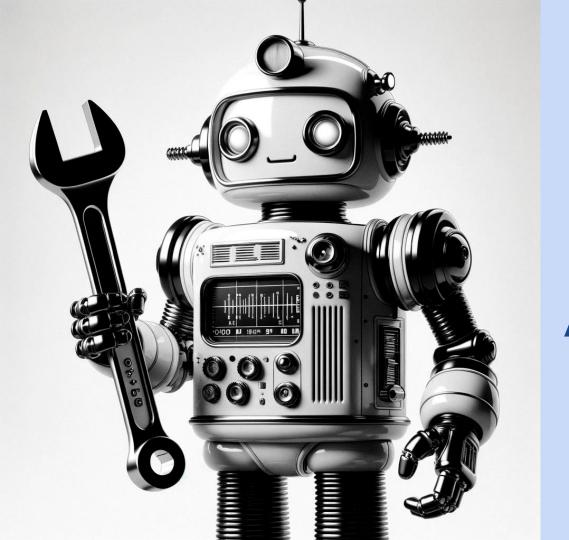


# Tips

- Order matters! The model will likely pay more attention to the first things described
- Quality words can help "ultra high definition" or "4k photography" or "very detailed"
- Many tools allow some words to be emphasized or de-emphasized using special syntax
- Negative prompts can help you fine tune your images
- Model selection and other technical details matter a great deal but can be complex



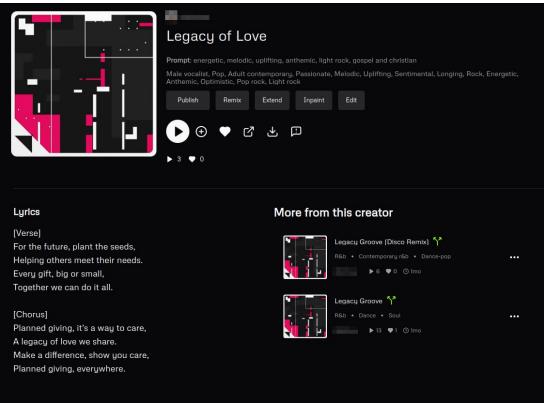
Tool	Cost	Ease Getting Started	Degree of Control	Description	Related Tools
StableDiffusion	Free/open source	Advanced	High	The most customizable but complex option	Automatic1111
DALL·E	Closed Source/ \$20 per month packaged with ChatGPT	Simple	Low (control via chat)	Performs well, but little to no direct control of the prompt	-
Midjourney	Varies, cheapest is \$10 per month	Medium	Medium	Must be accessed through Discord	-



# Advanced Applications

# Music Generation - Udio



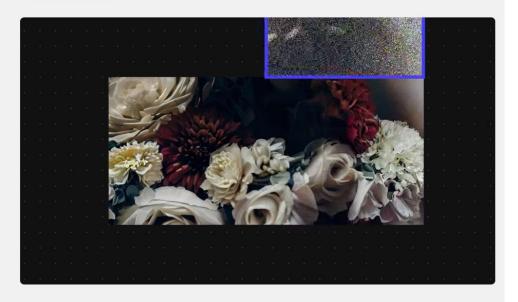


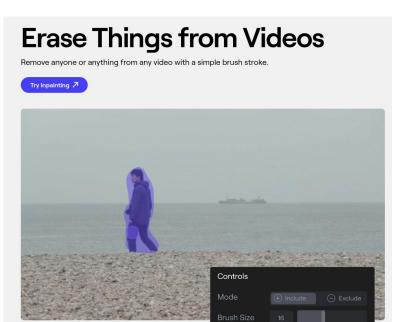
#### Video Editing

#### **Infinitely Expand Images**

Endlessly expand any image with simple text prompts.

Try Infinite Image 🗷





https://runwayml.com/

#### **Video Generation**



https://openai.com/index/sora/

#### Retrieval Augmented Generation

- OpenAl has powerful APIs that programmers can use to make applications
- Those applications can make use of external datasets to augment what ChatGPT can do

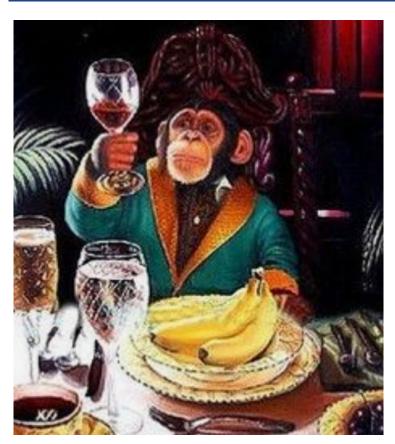
#### Using Image Models for Feedback

- It is possible to upload images to ChatGPT
- ChatGPT can then "read" or interpret the image for a variety of purposes

#### Example

Upload a screenshot of an interface design or brochure and use the "criticism" pattern described in the text section

#### Using LLMs to Generate Prompts



"Create a detailed oil painting portrait of an anthropomorphized chimpanzee dressed in an elaborate 18th-century naval officer's uniform, seated at an ornate dining table, raising a glass of wine with its right hand in a toast gesture. The chimpanzee should have a contemplative expression, and there should be a plate of bananas on the table in front of it. The background should be dimly lit with a red velvet curtain, emphasizing a dramatic, classical art style with rich textures and chiaroscuro lighting."



# Risks

 LLMs produce *plausible* text, not necessarily *accurate* text

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- LLMs produce *plausible* text, not necessarily *accurate* text
- LLMs can make things up (often called "hallucination")
- LLMs can plagiarize to various degrees
- LLMs often give middle-of-the-road, mediocre advice by default
- LLMs often seem very convincing even when they are very wrong

#### Tasks to Avoid

- Don't use LLM copy for subjects you're not knowledgeable about.
- Don't rely on LLMs to be factually correct.

Ex: don't write a speech on an unfamiliar topic with ChatGPT

#### **Useful Applications**

- LLMs are great for...
- Brainstorming
- Catching obvious mistakes
- Generating alternatives
- Exploring new topics

Ex: Use ChatGPT to generate 10 promising new ideas that you will vet later

# What might be ahead?

In an information-rich world, the wealth of information means a dearth of something else: a scarcity of whatever it is that information consumes. What information consumes is rather obvious: it consumes the attention of its recipients. Hence a wealth of information creates a poverty of attention and a need to allocate that attention efficiently among the overabundance of information sources that might consume it.

Simon, H. A. (1971) "Designing Organizations for an Information-Rich World" in: Martin Greenberger, Computers, Communication, and the Public Interest, Baltimore. MD: The Johns Hopkins Press. pp. 40–41.

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Only four years later, deep learning systems can write software, generate photorealistic scenes on demand, advise on intellectual topics, and combine language and image processing to steer robots."

"Managing Al Risks in an Era of Rapid Progress", Bengio et. al, https://managing-ai-risks.com/

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## Is Microsoft's \$100 billion 'Stargate' OpenAI supercomputer AI's 'Star Wars' moment?

BY JEREMY KAHN
April 2, 2024 at 1:48 PM EDT





Microsoft CEO Satya Nadella

DAVID PAUL MORRIS/BLOOMBERG VIA GETTY IMAGES

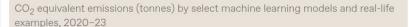
# Three Mile Island nuclear plant will reopen to power Microsoft data centers

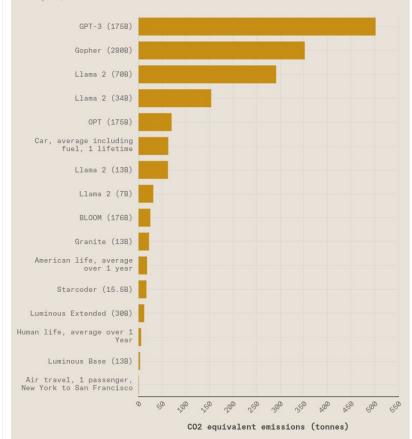
SEPTEMBER 20, 2024 · 1:40 PM ET

By C Mandler



The Three Mile Island nuclear plant is seen in March 2011 in Middletown, Pa. Jeff Fusco/Getty Images





Source: AI Index, 2024; Luccioni et al., 2022; Strubell et al., 2019 | Chart: 2024 IEEE Spectrum AI Index report

Global opinions on products and services using AI (percentage of total), 2022 vs. Percentage of respondents that "Agree" · 2022 · 2023 I have a good understanding of what artificial intelligence is 67% Products and services using artificial intelligence will profoundly change my daily life in the next 3-5 year 66% Products and services using artificial intelligence have more benefits than drawbacks I know which types of products and services use artificial intelligence 51% I trust companies that use artificial intelligence as much as I trust other companies 52% Products and services using artificial intelligence have profoundly changed my daily life in the past 3-5 ye 49% Products and services using artificial intelligence make me nervous 52% I trust artificial intelligence to not discriminate or show bias towards any group of people I trust that companies that use artificial intelligence will protect my personal data 50%

Source: Ipsos, 2022-23 | Chart: 2024 AI Index report

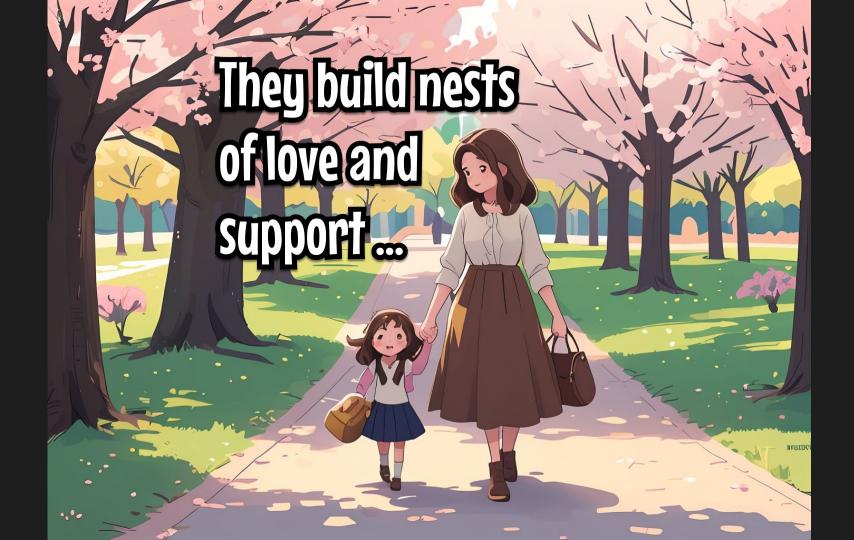
**IEEE Spectrum** 

## Where To Go Next

 Coursera: "Generative AI for Everyone" by DeepLearning.AI.
 Taught by a legend in the field, offers an introduction to generative AI for business leaders. (Free)









## **Prompting Guide**

https://tinyurl.com/2sysfze2



#### **ChatGPT Reference Sheet**



#### Act as [ROLE]

- Copywriter
- Pastor
- Church volunteer
- Poet
- Treasurer
- maker
- consultant
- · Marketing specialist

#### Create a [TASK]

- · Project manager

- Lawver
- Coach
- · Documentary film
- Fundraising expert
- Communications
- Motivational speaker

- · Mission statement
- Impact story
- · Newsletter article
- · Book review
- Donor story
- Grant proposal
- · Thank you letter
- · Presentation script
- · Social media post
- · Video script
- Web page copy
- · Gift description
- · Narrative budget
- Inspirational message

#### **Using [TONE]**

- · Friendly and warm
- · Crisp and concise
- Poetic
- Inspirational
- · Quirky and fun
- Soothing

#### In [FORMAT]

- Table
- List
- · Spreadsheet
- Song
- · Bullet point outline
- Haiku

### **Prompt Techniques**

#### **Flipped Interaction**

"I would like to start a planned giving program. Ask me questions until vou have a clear understanding of our organization. Then offer a plan specifying each step. Please ask me questions one at a time."

#### **Audience**

"Explain how donor advised funds work to a bright high school student."

"Explain planned giving to a young child."

#### Criticism

"Acting as a seasoned X, give me three constructive, actionable criticisms about Y. Identify at least one strong and weak point."

#### Rehearsal

"We are going to play a roleplaying game. You will play the role of a donor who is upset about X and asks very exacting questions."