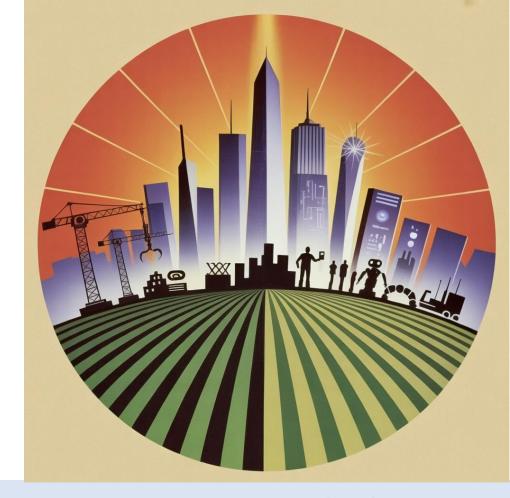
# Generative AI 2025 and Beyond



### Last spring...

- At the PDI Spring Training in March 2025, we discussed:
  - Where we were and where we're heading with generative
     Al
  - The basics of prompting
  - Use cases in economic development
  - Legal and ethical challenges
  - Amplifying your work as a professional developer



## The plan for today

- LLM updates
- Vibe coding
- Legal/policy updates
- Al embedding in our lives
- Multimedia improvements
- The road to AGI



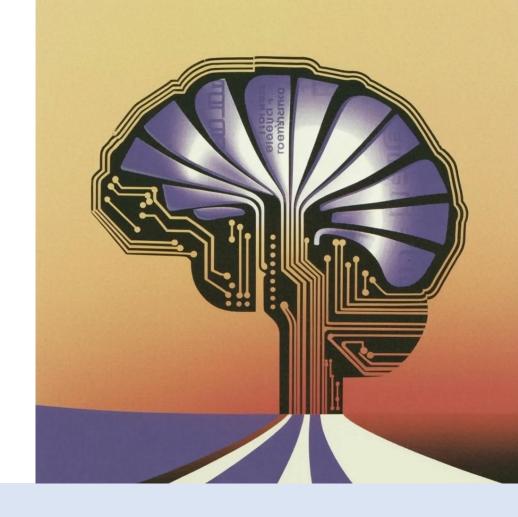
#### Get today's slides

- bit.ly/more-gen-ai
- Slides from today
- Gen Al Newsletter
- Learn about future events
- Work with us!



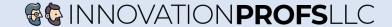


# Large Language Model updates



## New models since last August

- OpenAl's o1 the first reasoning model, followed by o3 and o4mini
- DeepSeek R1 crashed the market in January 2025
- Google Gemini 2.0 and 2.5 (Flash and Pro)
- Claude 3.7, 4, and 4.1 (Haiku, Sonnet, and Opus)
- GPT-4.5
- Grok 3 and 4



#### The launch of GPT-5

- Sam Altman has been teasing the launch of GPT-5 for more than a year now.
- It was finally released on August 7, with all other OpenAl models being removed from ChatGPT.
- GPT-5 switches between different models based on the user request.
  - Early problems with GPT-5 were blamed on the autoswitcher choosing the wrong model.

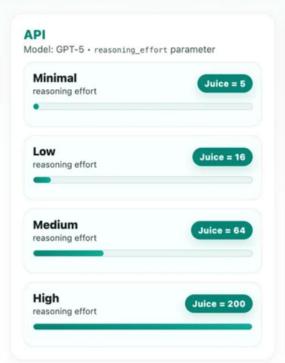


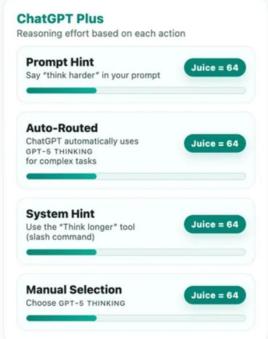


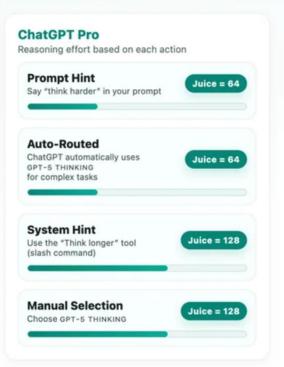
#### **GPT-5 Reasoning Effort (Juice)**

AIPRM

How much reasoning "juice" GPT-5 uses in the API vs ChatGPT, depending on the action you take







@btibor91 (Tibor Blaho)

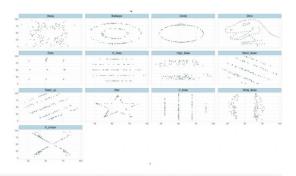
26

### Reasoning models

- Reasoning models are LLMs that spend more time "thinking" (i.e. computing more) before producing their answers and can provide the set of steps taken to arrive at their output.
- The best use cases for reasoning models involve mathematical reasoning or coding-based tasks.
- Reasoning models also underlie deep research tools that are becoming increasingly widespread.
- ChatGPT, Google Gemini, Microsoft Copilot, and Claude all offer reasoning models.



#### Reasoning models in action



What do these images teach us about summary statistics?

#### Thought for 1m 7s ~

• The user shared an image of the Datasaurus Dozen, a set of scatterplots with identical summary statistics but drastically different shapes. These illustrations reinforce a valuable lesson: relying solely on summary statistics—like mean, variance, or correlation—can be misleading. Just like Anscombe's quartet, the message is clear: always visualize your data to understand its true distribution. It's a reminder that statistics alone can miss underlying patterns, so visualizing data is essential for accurate insights.

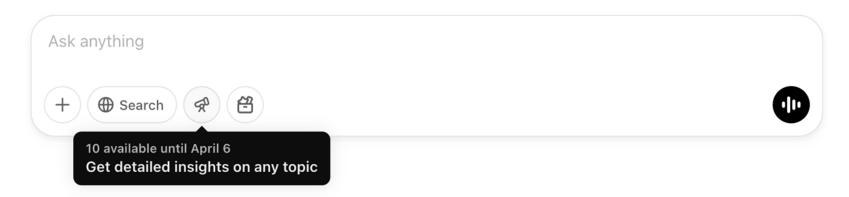


#### Deep research

- Deep research tools can carry out research on the internet for users.
- "Today we're launching deep research in ChatGPT, a new agentic capability that conducts multi-step research on the internet for complex tasks. It accomplishes in tens of minutes what would take a human many hours."



#### What can I help with?



#### Deep research example

"How can I increase the reach of my biweekly newsletter on generative AI?"

Could you share more about your current strategy and goals for the newsletter? For example:

- 1. Who is your target audience (e.g., developers, business leaders, creatives)?
- 2. What channels are you currently using to distribute the newsletter?
- 3. Do you have a website or social media presence that supports it?
- 4. Are you focusing on organic growth, paid promotion, or both?
- 5. Do you use any analytics to track engagement?

This will help me tailor the recommendations to your context.

0 0 0 0 1 C

Target audience: digital media professionals, educators, tech professionals, business leaders. Using Beehiiv to distribute newsletter, promoting it on LinkedIn, want to increase organic reach, we do have a website, and we are open to guest contributions.

For previous editions, check innovationprofs.beehiiv.com

Thanks for the details, I'll explore effective strategies to increase the organic reach of your biweekly newsletter on generative AI, tailored to your audience of digital media professionals, educators, tech professionals, and business leaders. I'll focus on optimizing your use of Beehiiv, leveraging LinkedIn and your website, and incorporating quest contributions.

I'll get back to you with actionable recommendations shortly.

Research completed in 6m · 28 sources · 68 search



#### S ChatGPT

#### Strategies for Growing a Generative AI Newsletter Organically

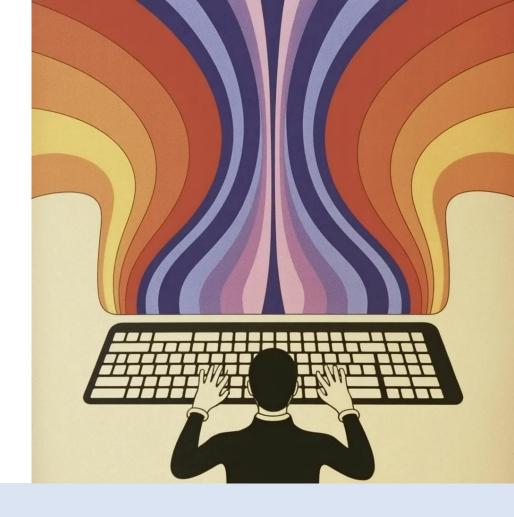
Overview: This report outlines actionable strategies to boost the organic reach of a biweekly Generative AI newsletter targeting digital media professionals, educators, tech workers, and business leaders. The focus is on leveraging Beehliv platform features, LinkedIn promotion, website optimization (SEO and lead magnets), and guest contributors - without relying on paid ads. Each section provides best practices and examples from successful newsletters, structured for clarity.

#### 1. Organic Growth Tactics on Beehiiv

- Leverage Referral Programs and "Viral Loops": One of the most powerful growth engines for newsletters is a referral incentive program. Beehiiv offers a built-in referral system that makes it easy to reward subscribers for spreading the word 11. Set up milestone-based rewards (e.g. exclusive content, swag, or access to a community) to motivate readers to refer colleagues and friends 3 . Successful examples include The Milk Road (a crypto newsletter) which attributes a large portion
- of its rapid growth to Beehiiv's referral program 4, and Morning Brew, which grew about one-third of its reader base through a well-designed referral scheme 5. Referred subscribers often become highly engaged readers since they come via personal recommendation 6. To implement this, define a few attainable referral tiers (for example: 3 referrals = bonus content, 10 referrals = branded merch) and promote the program in every issue's footer. This creates a "viral loop" where each new subscriber can bring in others 7 8, fueling organic growth without paid marketing.
- · Cross-Promote with Complementary Newsletters: Partnering with other newsletters is an effective way to tap into new audiences organically. Beehiiy's platform even has a Recommendations or networking feature to find suitable partners 9. Look for newsletters in related niches or industries (with similar audience interests, but not direct competitors) and agree to shout each other out. For example, World Builders (AI in storytelling) and Young Money (fintech for young professionals) did a cross-promotion that benefited both publications 10 . The key is to offer balanced value - you might feature their newsletter in a "Recommended Reading" section of your email, and they do the same for you 11. Rotate these collaborations periodically to continuously reach fresh audiences 12. Such partnerships, when done authentically, can rapidly increase exposure to relevant readers who are likely to be interested in generative AI content.



# Vibe coding



## Vibe coding

- Vibe coding is a way of programming where you describe what you want to build using natural language, and an AI tool generates the code for you.
- Instead of manually writing code, you communicate your intentions to an AI and it translates those intentions into working software.
- This approach shifts the programmer's role from writing code to guiding, testing, and refining the AI-generated output.







There's a new kind of coding I call "vibe coding", where you fully give in to the vibes, embrace exponentials, and forget that the code even exists. It's possible because the LLMs (e.g. Cursor Composer w Sonnet) are getting too good. Also I just talk to Composer with SuperWhisper so I barely even touch the keyboard. I ask for the dumbest things like "decrease the padding on the sidebar by half" because I'm too lazy to find it. I "Accept All" always, I don't read the diffs anymore. When I get error messages I just copy paste them in with no comment, usually that fixes it. The code grows beyond my usual comprehension, I'd have to really read through it for a while. Sometimes the LLMs can't fix a bug so I just work around it or ask for random changes until it goes away. It's not too bad for throwaway weekend projects, but still quite amusing. I'm building a project or webapp, but it's not really coding - I just see stuff, say stuff, run stuff, and copy paste stuff, and it mostly works.

5:17 PM · Feb 2, 2025 · **4.5M** Views



971 Following 1.2M Followers





having perhaps the better claim, Because it was grassy and wanted wear; Though as for that the passing there Had worn them really about the same, And both that morning equally lay In leaves no step had trodden black. Oh, I kept the first for another day! Yet knowing how way leads on to way, I doubted if I should ever come back. I shall be telling this with a sigh Somewhere ages and ages hence: Two roads diverged in a wood, and I— I took the one less traveled by, And that has made all the difference.

Start the game by asking how many missing words per line. Then for each line of the poem, create a blank for two randomly chosen words, which the user has to fill in. If correct, say Correct! If not, say Try Again!

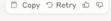
#### The Road Not Taken - Word Fill Game

Click to open component

I've created an interactive learning game for Robert Frost's "The Road Not Taken". Here's how it works:

- 1. The game randomly selects two words to blank out in each line of the poem
- 2. You can enter words for each line and check if they match the original
- 3. You'll get immediate feedback "Correct!" or "Try Again!"
- 4. There's a reset button to generate a new set of blanked-out lines

Would you like me to explain any part of the game or how to play?



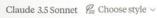
Claude can make mistakes. Please double-check responses.



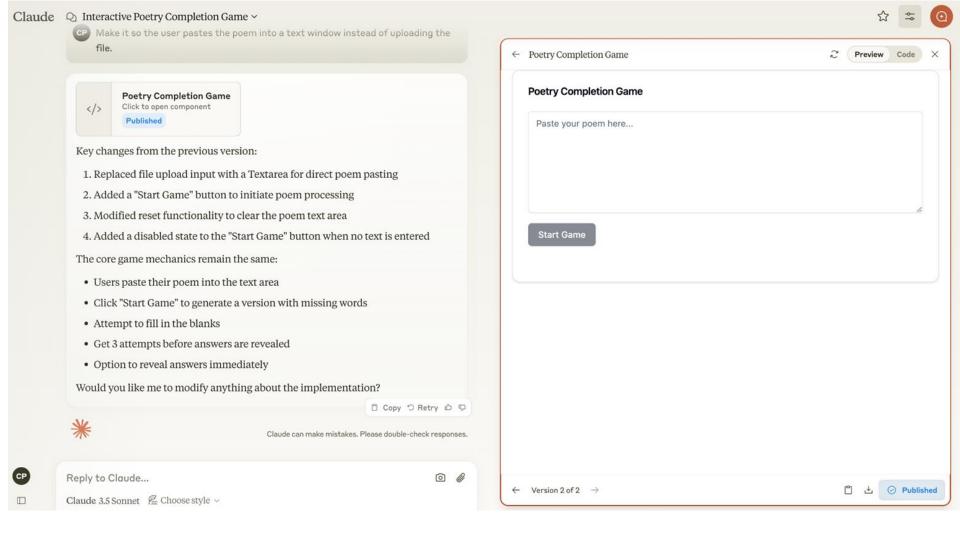
Reply to Claude...

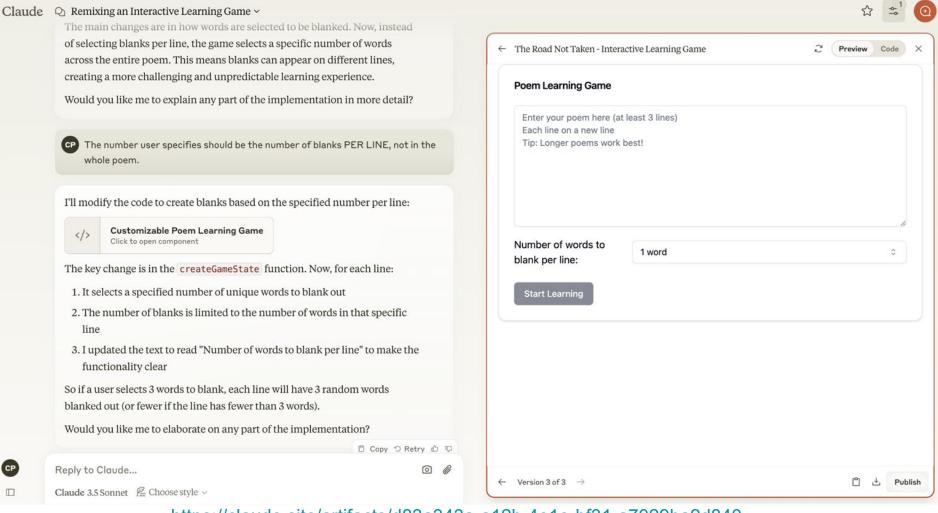






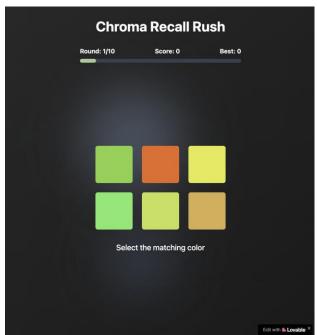
← The Ro	oad Not Taken - Word Fill Game	2 Preview	Code X
The	Road Not Taken - Word Fill	Game	
Fill in t	the missing words for each line of the poe	em!	
Two _	diverged in yellow w	wood,	
Туре	your words here	C	heck
And _	I not travel both		
Туре	your words here	С	heck
And b	pe one traveler, sto	ood	
Туре	your words here	С	heck
	looked one as far as I	could	
Туре	your words here	С	heck
To wh	nere it the undergro	owth;	
Туре	your words here	C	heck
Then	took other, as just as _		
Туре	your words here	C	heck
Last edited	1 month ago		↓ Publish



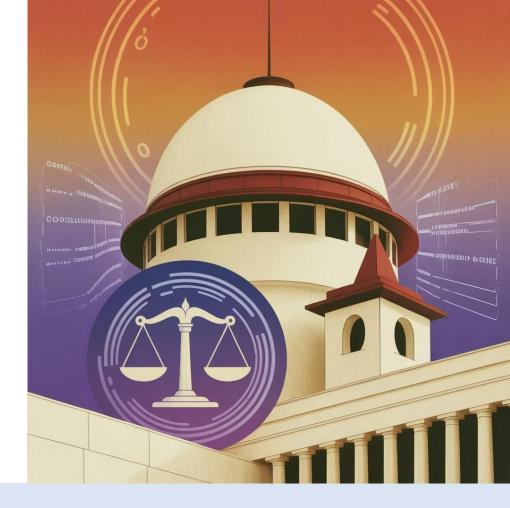


### Student projects





# Legal/policy updates



#### BLUEPRINT FOR AN AI BILL **OF RIGHTS**

MAKING AUTOMATED SYSTEMS WORK FOR THE AMERICAN PEOPLE

→ OSTP



Safe and Effective **Systems** 



Algorithmic Discrimination **Protections** 



**Data Privacy** 



Notice and **Explanation** 



**Human Alternatives,** Consideration, and **Fallback** 

#### Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Section 1 . Purpose. Artificial intelligence (AI) holds extraordinary potential for both promise and peril.

Responsible AI use has the potential to help solve urgent challenges while making our world more

prosperous, productive, innovative, and secure. At the same time, irresponsible use could exacerbate societal harms such as fraud, discrimination, bias, and disinformation; displace and disempower workers; stifle competition; and pose risks to national security. Harnessing AI for good and realizing its myriad benefits requires mitigating its substantial risks. This endeavor demands a society-wide effort

My Administration places the highest urgency on governing the development and use of AI safely and responsibly, and is therefore advancing a coordinated, Federal Government-wide approach to doing so.

The rapid speed at which AI capabilities are advancing compels the United States to lead in this

that includes government, the private sector, academia, and civil society.

moment for the sake of our security, economy, and society.

In the end, Al reflects the principles of the people who build it, the people who use it, and the data upon which it is built. I firmly believe that the power of our ideals; the foundations of our society; and the creativity, diversity, and decency of our people are the reasons that America thrived in past eras of rapid change. They are the reasons we will succeed again in this moment. We are more than capable of harnessing Al for justice, security, and opportunity for all.



#### REMOVING BARRIERS TO AMERICAN LEADERSHIP IN ARTIFICIAL INTELLIGENCE

The White House

January 23, 2025

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Section 1. Purpose. The United States has long been at the forefront of artificial intelligence (AI) innovation, driven by the strength of our free markets, world-class research institutions, and entrepreneurial spirit. To maintain this leadership, we must develop AI systems that are free from ideological bias or engineered social agendas. With the right Government policies, we can solidify our position as the global leader in AI and secure a brighter future for all Americans.

This order revokes certain existing Al policies and directives that act as barriers to American Al innovation, clearing a path for the United States to act decisively to retain global leadership in artificial intelligence.



□ PRESIDENTIAL ACTIONS

# PREVENTING WOKE AI IN THE FEDERAL GOVERNMENT

**Executive Orders** 

July 23, 2025

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered:

<u>Section 1</u>. <u>Purpose</u>. Artificial intelligence (AI) will play a critical role in how Americans of all ages learn new skills, consume information, and navigate their daily lives. Americans will require reliable outputs from AI, but when ideological biases or social agendas are built into AI models, they can distort the quality and accuracy of the output.

One of the most pervasive and destructive of these ideologies is so-called "diversity, equity, and inclusion" (DEI). In the AI context, DEI includes the suppression or distortion of factual information about race or sex; manipulation of racial or sexual representation in model outputs; incorporation of concepts like critical race theory, transgenderism, unconscious bias, intersectionality, and systemic racism; and discrimination on the basis of race or sex. DEI displaces the commitment to truth in favor of preferred outcomes and, as recent history illustrates, poses an existential threat to reliable AI.

# The Stargate Project: Trump Touts \$500 Billion Bid For AI Dominance

MØR

By <u>Paul Smith-Goodson</u>, Contributor and <u>Matt Kimball</u>, Contributor. for Moor Insights and Strategy

**Follow Authors** 

Published Jan 30, 2025, 01:12pm EST



☐ Save

Comment 0



#### **BUSINESS INSIDER**

TEC

## The US Copyright Office has thoughts on how AI is trained. Big Tech may not like it.

**By Lauren Edmonds** 



# Trump reportedly fires head of US copyright office after release of AI report

Dismissal of Shira Perlmutter follows firing of librarian of Congress, which oversees copyright office

US politics live - latest updates



■ Shira Perlmutter published a report about who artificial intelligence technology could run afoul of fair use law, days before her reported dismissal. Photograph: Mariam Zuhaib/AP

# Judge rules Anthropic did not violate authors' copyrights with AI book training

PUBLISHED TUE, JUN 24 2025 11:57 AM EDT UPDATED TUE, JUN 24 2025 2:39 PM EDT

Ashley Capoot
@/IN/ASHLEY-CAPOOT/

**WATCH LIVE** 

#### **KEY POINTS**

- Anthropic's use of books to train its artificial intelligence model Claude was "fair use" and "exceedingly transformative," a federal judge ruled.
- Amazon-backed Anthropic's AI training did not violate the authors' copyrights since the large language models did not reproduce the authors' work.
- The decision is a major win for AI companies as legal battles play out over the use and application of copyrighted works in LLMs.



# Anthropic destroyed millions of print books to build its AI models

Company hired Google's book-scanning chief to cut up and digitize "all the books in the world."

BENJ EDWARDS - JUN 25, 2025 3:00 PM | 243



Credit: Alexander Spatari via Google Images

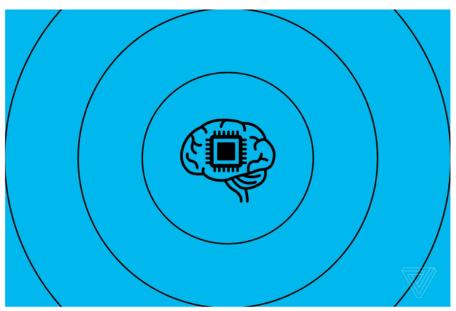
## Meta wins AI copyright lawsuit as US judge rules against authors

Writers accused Facebook owner of breach over its use of books without permission to train its AI system



⚠ A Meta spokesperson called fair use a 'vital legal framework' for building 'transformative' Al technology. Photograph: Dado Ruvić/Reuters

# Al-generated art cannot be copyrighted, rules a US federal judge



/ DC District Court Judge Beryl A. Howell says human beings are an 'essential part of a valid copyright claim.'

By Wes Davis, a weekend editor who covers the latest in tech and entertainment. He has written news, reviews, and more as a tech journalist since 2020.

Aug 19, 2023, 5:42 PM CDT









Comments (31 New)

Illustration by Alex Castro / The Verge

#### Artist appeals copyright denial for prize-winning AIgenerated work

Al art may create a whole new world of copyright trolling, expert warns.

ASHLEY BELANGER - OCT 7, 2024 6:00 AM | 311





-> "Théâtre D'opéra Spatial," the controversial work that Jason Allen created with Midjourney. Credit: Jason Allen

# Purely Al-generated art can't get copyright protection, says Copyright Office



/ Human-created works with Al elements, however, can still be copyrighted as a whole.

by Lauren Feiner Jan 30, 2025, 9:51 AM CST







"No matter how many times a prompt is revised and resubmitted, the final output reflects the user's acceptance of the AI system's interpretation, rather than authorship of the expression it contains."

#### This is the First-Ever Al Image to Be **Granted Copyright Protection**





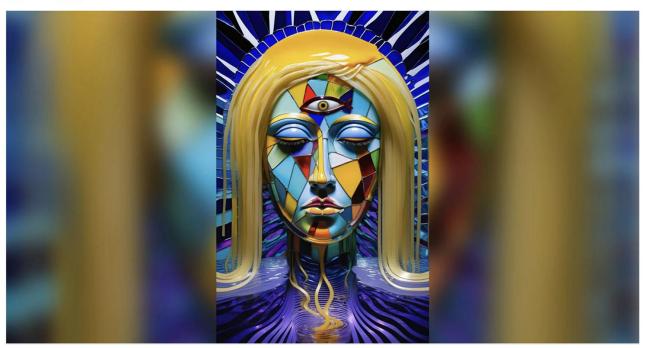












## Multimedia Updates



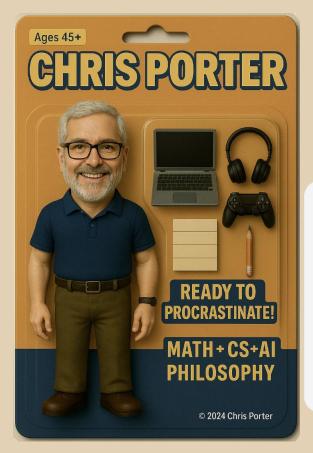
## Al images – from toy to tool

 OpenAI's newest image model, released March 25, 2025, creates high quality images with great attention to details, including text.

Create image A 40-year-old male college professor stands in front of a white board in a large auditorium. The man has short brown hair and a short brown beard. He is wearing a brown sports jacket over a blue button-up shirt with no tie. The white board has the words "Welcome to Gen Al Class: Today we will be learning about Al image tools." Then it includes a list of some Al image tools, that you should create. There is a desk with a laptop computer and a blue water bottle on one side and we see a couple students entering the class. One student is wearing a blue t-shirt that says "Drake University" on it. Make the image square



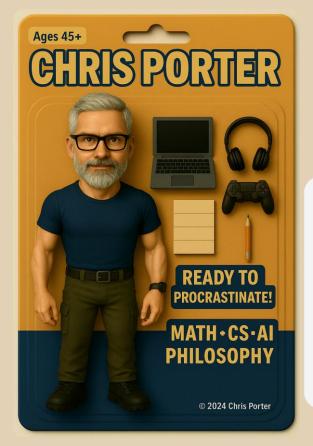




## Al Action Figures

Create image Create a realistic, modern action figure of me (Chris Snider) based on everything you know about me from our previous conversations, sealed in its original packaging. The action figure should look like a toy with clearly visible plastic joints, slightly exaggerated Proportions like classic action figures and the realistic facial features resembling me. The packaging design should be bold and colorful with clear text and fun descriptions that reflect my personality, profession, and skills. Include two or three small accessories that match my daily work or hobbies (e.g. microphone, laptop, iphone, Mt. Dew Zero). Make sure the packaging includes my name, a catchy age rating, and playful copyright writing on the box that reflects who I am. The entire image should look like a product photo of a sealed toy, well-lit with a full figure and accessories visible inside the plastic casing.





## Al Action Figures

Create image Create a realistic, modern action figure of me (Chris Snider) based on everything you know about me from our previous conversations, sealed in its original packaging. The action figure should look like a toy with clearly visible plastic joints, slightly exaggerated Proportions like classic action figures and the realistic facial features resembling me. The packaging design should be bold and colorful with clear text and fun descriptions that reflect my personality, profession, and skills. Include two or three small accessories that match my daily work or hobbies (e.g. microphone, laptop, iphone, Mt. Dew Zero). Make sure the packaging includes my name, a catchy age rating, and playful copyright writing on the box that reflects who I am. The entire image should look like a product photo of a sealed toy, well-lit with a full figure and accessories visible inside the plastic casing.



Create image Two men in camouflage army gear leaning over a computer and yelling at the computer. The computer sits on the ground and has an image of a person doing a pushup on the screen. Words on the computer read "Generative AI Boot Camp"





 $\Box$ 

make these the men

#### Image created



Image created





create an infographic about Professional Developers of Iowa based on info on this page: https://www.pdiowa.com/about\_us

## PROFESSIONAL DEVELOPERS OF IOWA



lowa's state association of economic development professionals, united to strengthen communities & drive long-term growth.

#### **MISSION & SCOPE**



To strengthen commun-Itles and drive the long term growth of lowa



#### Members

across many instpi:

- · courity & regional dvelopers
- community developers
- utilities
- · legal & financial firms
- engineering & construction
- · rail transportation
- universities and community colleges

#### **HISTORY**

#### 1973

Formed as Iowa Professional Developers –around 50 memars focused on 100% economic

#### **Late 1980s**

Membership extranded to include community colleges, extension services, workforce development, conculls or governments

-Shifted focus from industrial development to broader economic development vent

#### 1989

Re-incorporated under current name Professional Developers of Iowa

#### GOVERNANCE & KEY PEOPLE



#### Officers

Angela Rheingans
Prevident & CEO, DeWitt
Chamber & Development.company



Nicolas Hockenberry Director of Workforce Solutions Greater Dubuque Development Corporation



#### Mindy Stalker



PDI operates with transparency makes public records, organizanational information available in timely and accurate manner

#### **Formal Organizational Policies**

- · Articles of Incorporation
- Bylaws
- Conflict of Interest Policy
- Whistleblower Policy



#### Instruction following

GPT-4o's image generation follows detailed prompts with attention to detail. While other systems struggle with ~5-8 objects, GPT-4o can handle up to 10-20 different objects. The tighter binding of objects to their traits and relations allows for better control.

#### Nano Banana

- Google's newest AI image tool is a powerful image editor.
- Upload an image and use natural language prompts to make precise, targeted changes. For example, tell it to change a person's clothes, alter a background, or even shift the lighting of a scene.



Make the yellow shirt on the woman in the front row green.





#### **Nano Banana**



Create a realistic image of me sitting with Jerry, Elaine, George, and Kramer in Jerry's apartment from the TV show Seinfeld. I'm part of the group, sitting on the couc...





## Al Mini Figures

First ask me to upload an image and then create a 1/7 scale commercialized figurine of the characters in the picture, in a realistic style, in a real environment. The figurine is placed on a computer desk. The figurine has a round transparent acrylic base, with no text on the base. The content on the computer screen is a 3D modeling process of this figurine. Next to the computer screen is a toy packaging box, designed in a style reminiscent of high-quality collectible figures, printed with original artwork. The packaging features two-dimensional flat illustrations.



#### **Generative AI video tools**

- Al video recently had a moment with the release of Google Veo v3,
  - which includes audio with realistic video clips





# Embedding artificial intelligence in your life

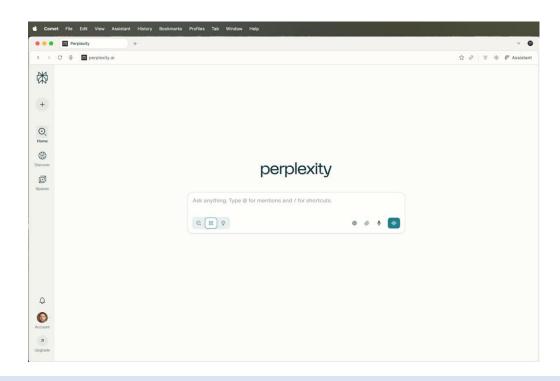


#### Al browsers

- Al companies are launching browsers so they can get access to more data to train models
- Perplexity launched its browser, Comet, last month to subscribers of its \$200 per month Max plan
- Microsoft Edge has an experimental Copilot Mode
- OpenAl is reported to be close to launching its own browser
- The Browser Company launched AI-first browser Dia



#### **Comet browser**



## Meta Ray-Ban glasses

- The hottest new AI accessory is Meta Ray-Ban glasses.
- Chat with Meta AI to get realtime suggestions, answers and reminders. Ask your AI glasses for recipes while at the store or where your car is parked.



- Live translations in English, French, Spanish or Italian.
- Buy for as little as \$299, and even use your eye insurance



## **Meta Ray-Ban Display**

- In-lens display for checking messages, previewing photos, and collaborating with visual Meta AI prompts
- Wristband lets you control experiences intuitively using subtle hand movements
- Starting at \$799



#### **Bee Pioneer**

- A \$50 AI wearable device that will listen as you go about your day and use the information it collects to build a personalized knowledge base about your life.
- It can remember things you did during the day, create to-do lists based on what it hears, and even search through conversations.

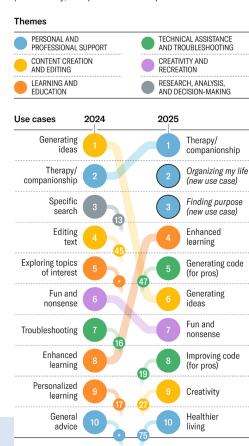


# How people are using Gen Al is changing

 Harvard Business Review updated it's 2024 list, and personal/professional support was the top topic

#### **Top 10 Gen AI Use Cases**

The top 10 gen AI use cases in 2025 indicate a shift from technical to emotional applications, and in particular, growth in areas such as therapy, personal productivity, and personal development.





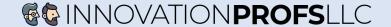
## How people use ChatGPT

- OpenAl CEO Sam Altman recently shared:
  - Older people use ChatGPT as a Google replacement
  - People in 20s and 30s use it like a life advisor
  - People in college use it as an operating system



## GenAl as an operating system

- As we approach having context windows of 100 million,
   1 trillion tokens, AI will be connected to all your data sources and remember everything (and the browser will play a role in this):
  - Conversations
  - Emails
  - Calendar
  - Both personal and business



## Al companions

Report: 72% of U.S. teens

 (ages 13-17) have used AI
 companions, often driven by entertainment and curiosity, with about a third utilizing them for social interaction and relationships.

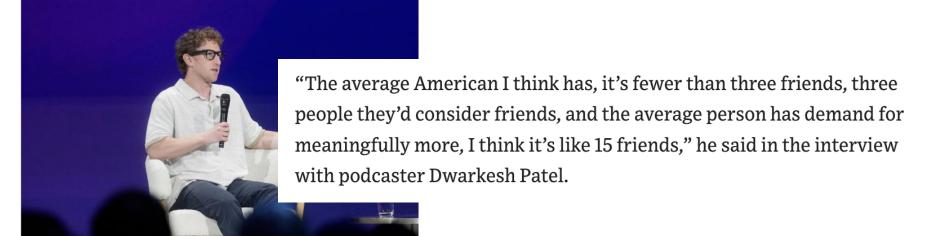




#### Zuckerberg's Grand Vision: Most of Your Friends Will Be AI

Meta's CEO is promoting a future where artificial intelligence is increasingly intertwined with people's lives





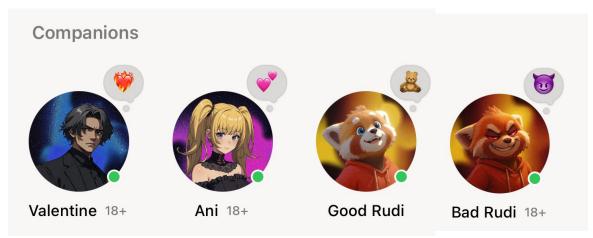
Meta founder and CEO Mark Zuckerberg at an Al developer conference last month. PHOTO: JEFF CHIU/ASSOCIATED PRESS



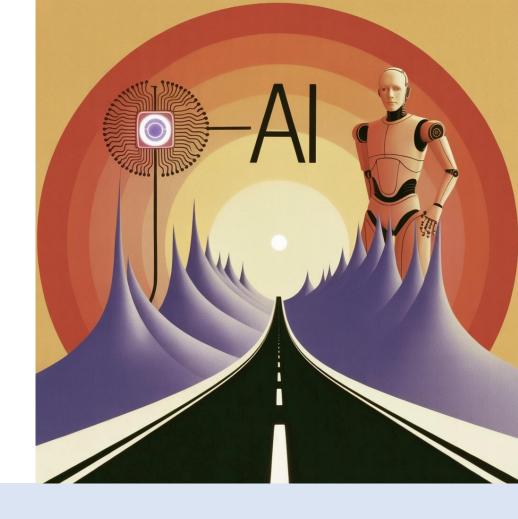
Grok 3 Al girlfriend or boyfriend is 🖖 🖖

## **Grok companions**

 Customizable 3D animated characters are designed to be emotionally responsive and engage in conversations, jokes, and even express emotions.



# The road to Artificial General Intelligence



#### **AGI** and **ASI**

- Artificial General Intelligence: AGI refers to AI systems that
  would be capable of understanding, learning, and applying
  knowledge and skills across a broad range of tasks and domains
  at a level comparable to human intelligence.
- Artificial Super Intelligence: ASI refers to AI systems that would surpass human intellectual capabilities across virtually every domain, including scientific creativity, social skills, and strategic reasoning.

#### The road to ACI

- OpenAI has outlined a five-level framework to track the progression of artificial intelligence (AI) toward achieving Artificial General Intelligence (AGI).
- This structured approach delineates the capabilities and milestones at each stage.



### 1: Conversational AI/Chatbots

- Al systems are designed to engage in natural language conversations with humans. Examples include chatbots and virtual assistants like OpenAI's ChatGPT, which can handle customer service interactions and provide basic assistance.
- These systems are limited to language-based tasks and lack complex problem-solving abilities.

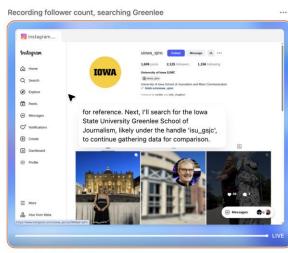


#### 2: Reasoners

- Al systems capable of solving problems at a human level. A Level 2 Al would provide more accurate responses and evaluate the reliability of its answers, thus overcoming the limitations seen in enterprise settings today.
- We are solidly in Level 2 with the development of models like ChatGPT o3, designed to enhance AI's reasoning capabilities.
- OpenAI released its first reasoning model in Sept. 2024.

### 3: Agents

- Al systems, referred to as 'Agents,' can autonomously perform tasks on behalf of users over an extended period.
   These systems can operate independently without constant human intervention, potentially revolutionizing business operations and efficiency.
- ChatGPT agent released July 17, 2025.

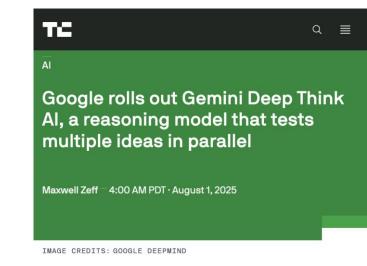


Sensitive data - Something not right? Stop agent



#### 4: Innovators

- Al systems are capable of creating new innovations. This involves not just solving problems but also coming up with original ideas, improvements and inventions.
- Innovators critically think about how to do a better job and achieve the goal in a more effective or efficient way.



Google DeepMind is rolling out <u>Gemini 2.5 Deep Think</u>, which, the company says, is its most advanced Al reasoning model, able to answer questions by exploring and considering multiple ideas simultaneously and then using those outputs to choose the best answer.

Subscribers to Google's \$250-per-month <u>Ultra</u> subscription will gain access to Gemini 2.5 Deep Think in the Gemini app starting Friday.



## 5: Organizers

- Al can perform the work of entire organizations. This level of Al would be capable of managing complex processes, making highlevel decisions, and coordinating large-scale operations.
- Every person you currently have, every function carried out, but performed by agents that work together, make improvements, and run everything required without a human.

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