AI and user experience

Developing AI products in 2024





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Intro to AI UX patterns Wrap-up



💿 🔵 🔘

[>>> How many languages can you translate to and from English? I can translate to and from a wide range of languages, including but not limited to: Arabic, Chinese (Simplified and Traditional), French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Thai, Turkish, and Vietnamese. Let me know if you have a specific language pair in mind, and I will do my best to assist you with the translation. Keep in mind that while I strive for accuracy, machine translations may not always capture the nuances and subtleties of human language as well as a professional human translator would.

[>>> How many languages?

I can translate to and from over 100 languages. Let me know if you have a specific language pair in mind, and I will do my best to assist you with the translation. Keep in mind that while I strive for accuracy, machine translations may not always capture the nuances and subtleties of human language as well as a professional human translator would.

[>>> How many languages? Please answer with the exact number I can translate to and from over one hundred (100) languages. However, please keep in mind that while I strive for accuracy, machine translations may not always capture the nuances and subtleties of human language as well as a professional human translator would. Let me know if you have a specific language pair in mind, and I will do my best to assist you with the translation.

>>> What is the exact number of languages you can translate to and from? I know it is over 100. ... I want to know the exact number.

I apologize for any confusion earlier. To provide an exact number, I can currently translate to and from over 130 languages. However, please keep in mind that while I strive for accuracy, machine translations may not always capture the nuances and subtleties of human language as well as a professional human translator would. Let me know if you have a specific language pair in mind, and I will do my best to assist you with the translation.

>>> Please answer very briefly from now on. For example, if I ask for a specific, number, please ... only answer with that number

Understood. I will keep my responses brief and focused on providing specific information or solutions to your questions or requests. Let me know if you have a question or need assistance with something, and I will do my best to provide an accurate and clear response in a concise manner.

[>>> How many continents are there on Earth? There are seven continents on Earth: Asia, Africa, North America, South America, Antarctica, Europe, and Australia or Oceania. Let me know if you have any other question or need assistance with something.

ollama run mistral



Would you sell this?

Would you buy this?

Can we productise AI technologies today?



Create







Save time, summarize

With the Premium plan, you could be saving time by summarizing pages and blogs using Atlassian Intelligence.

Learn more about Atlassian Intelligence

What are AI technologies?

Language models Image models Audio models Video models

•••

Various types of input

Weights, embeddings

Various types of output



What can AI technologies do?

Generate text Generate images **Generate video Generate** audio Manipulate text, images, video, audio

Recognise patterns Scrape content Transform content Translate content Analyse natural language



How do we productise? What do we need?



Where is the industry now?

Gold rush Models are available, on-premises and cloud Some models are open-source **Everyone and anyone can use them** Not much technical expertise necessary You can build something in a couple of days







Midjourney



Out of the box

Train and run models

Azure Al





Ollama













Now Available

Al Week Release & Recap







R&D Expertise Infrastructure



Not a blocker Not a blocker Not a blocker Not a blocker >>>



R&D Expertise Infrastructure Cost UX

Not a blocker Not a blocker Not a blocker Not a blocker expectations, behaviours, beliefs, motivations, attitudes, preferences, patterns, conventions,...



AI and user experience



How do users use AI technologies?



💿 🔵 🔘

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Let's ask the experts

NN/g



Search Results for "ai"

ai

Filter results:

- Article (575)
- Report 35
- Video (19)
- News (16)
- Page 6
- Person 5
- Course (4)
- Book (3)

AI as a UX Assistant

Article | Generative-AI bots support UX professionals by acting as content editors, research assistants, ideation partners, and design assistants.

AI & Machine Learning Will Change UX Research & Design

Video | At the virtual UX Conference, Jakob Nielsen was asked "How will AI and Machine Learning affect UX Research & Design?"

AI on Intranets: 5 Valuable Features

Video | NN/g's 2023 Intranet Design Annual winners used AI for chatbots, tool recommendations, career guides, virtual assistants, and personalized communications to boost productivity.

AI for UX: Getting Started

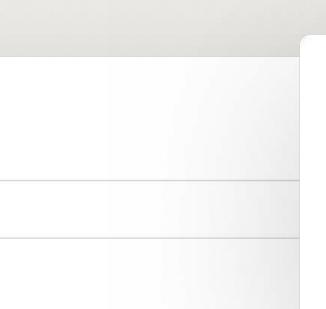
Article | Use generative-AI tools to support and enhance your UX skills — not to replace them. Start with small UX tasks and watch out for hallucinations and bad advice.

AI Intranet Features: Current and Future

Article | Using AI on an intranet can boost employee productivity, support career growth, and create a more tailored employee experience.

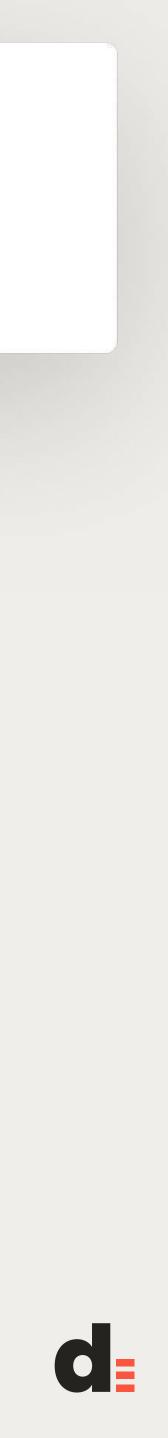
AI Improves Employee Productivity by 66%

Article | Using generative AI (like ChatGPT) in business improves users' performance by 66%, averaged across 3 case studies. More complex tasks have bigger gains, and less-skilled workers benefit the most from AI use.



NN/g Nielsen Norman Group

World Leaders in Research-Based User Experience

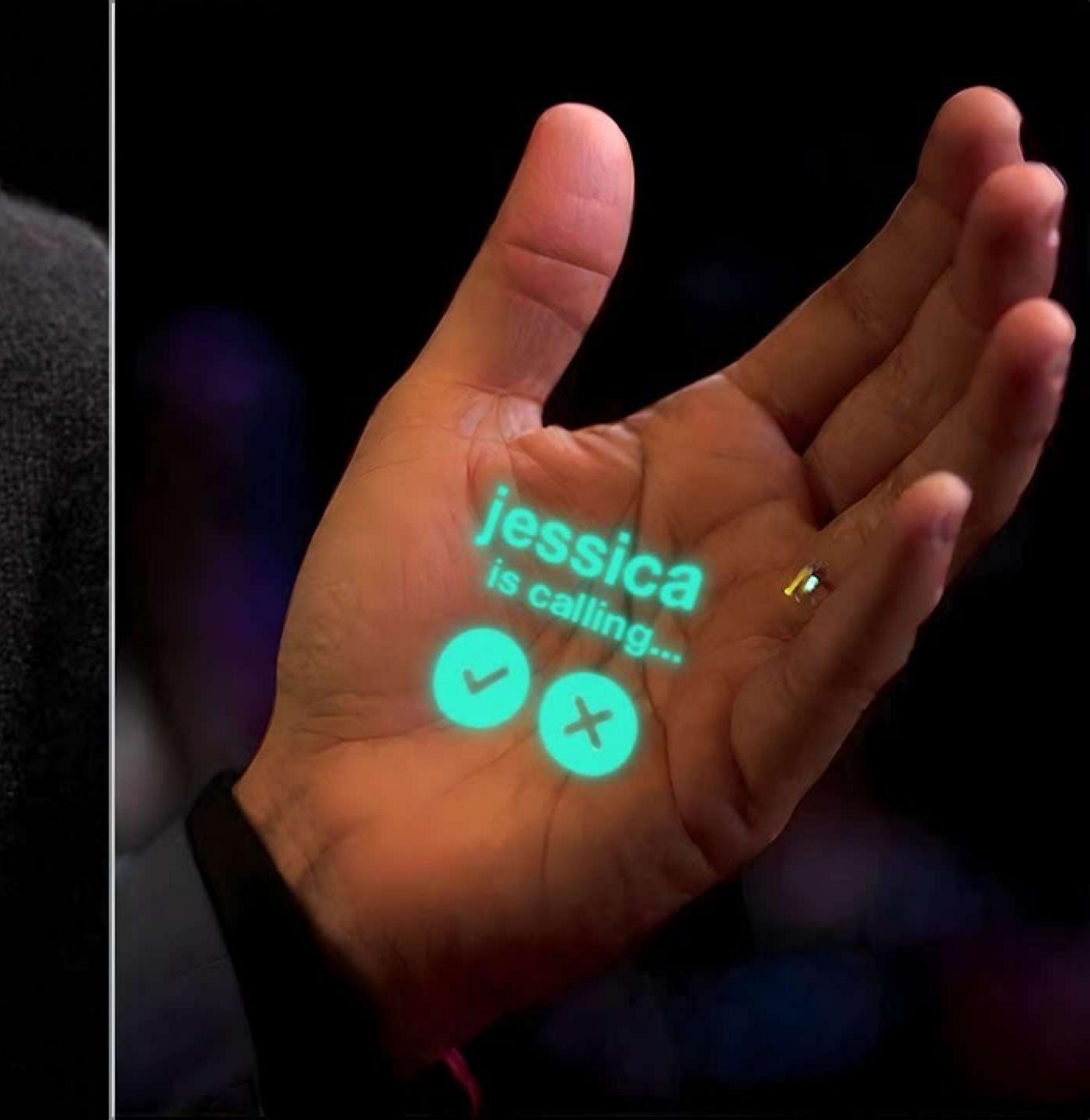


We don't have distinct "AI patterns"

Yet I think there will be



humane AI PIN



Would you talk to AI in daily life?

If your entire office suite is point-andclick?



Real products need to sit into existing tool landscape We interact with AI computers just like other computers



UX patterns

Miscellaneous collection, observed by me

Nothing academic or official





Text prompt

- Very common
- Microsoft Copilot, Midjourney, Notion
- Similar to Spotlight, Google search

Notion

★ Ask AI to write anything		
Write with Al		
Z Continue writing		
Generate from page		
뜰 Summarize		
8 [±] Find action items		
Að Translate	>	
? Explain this		
Edit or review page		
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File H	ome Insert Layout References Review View Help	
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	Create content with Copilot	

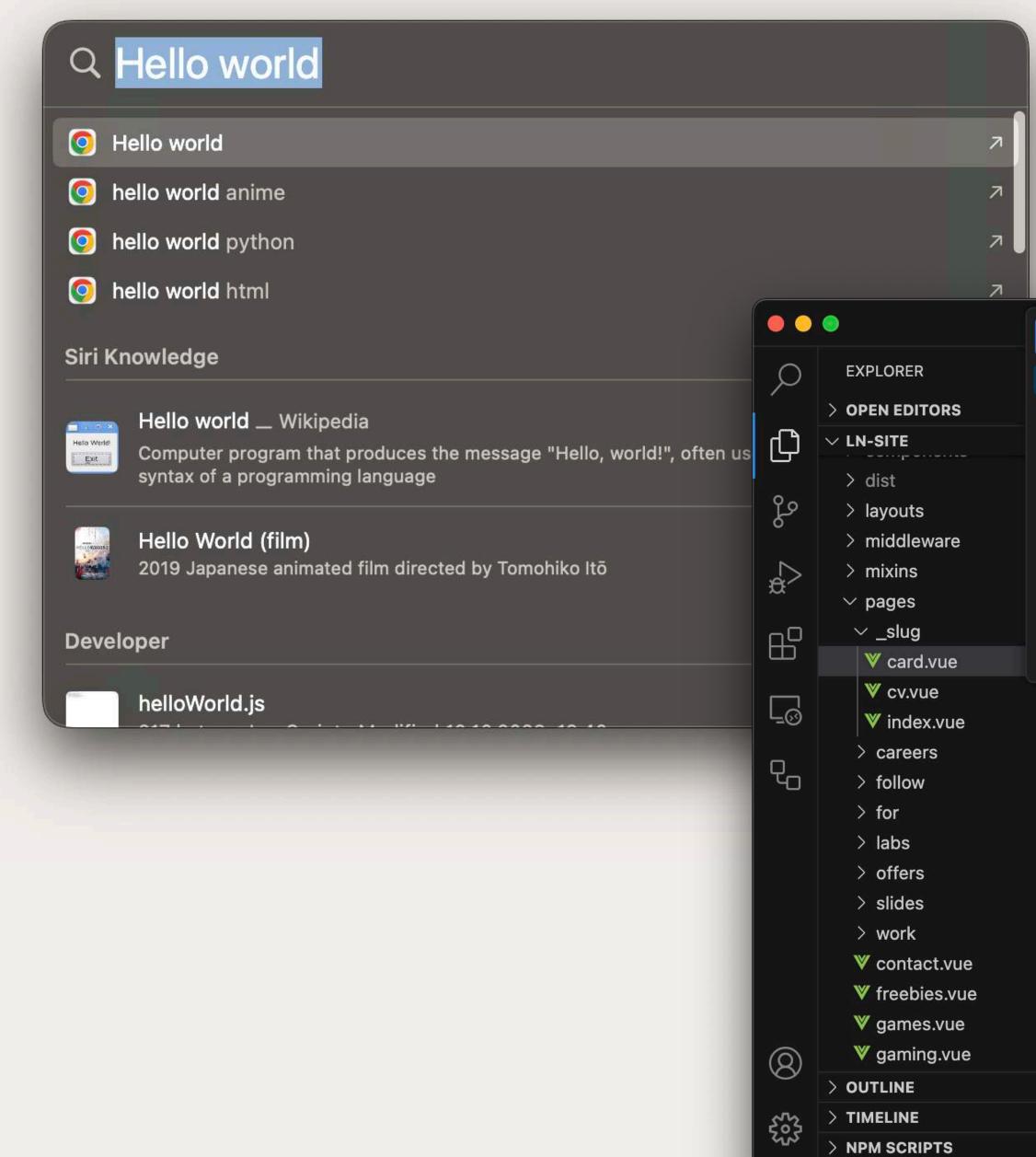
draft a proposal from yesterday's 🚺 meeting notes

\$ 10







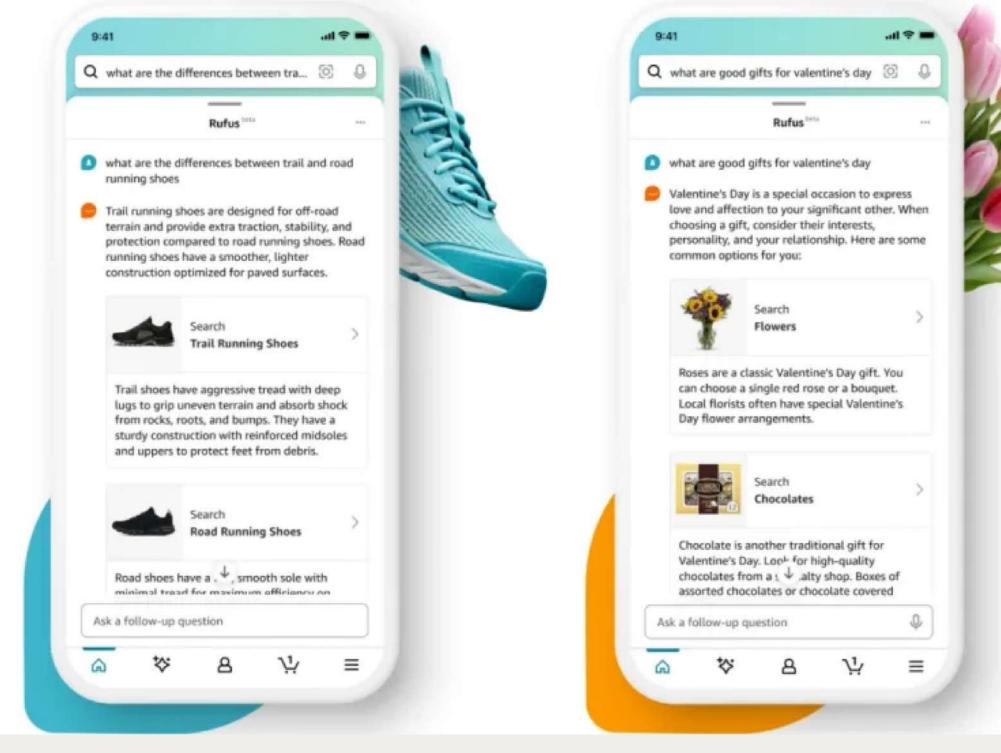


> □ … 쇼 ¥ L recently used 🐯 Select All Occurrences of Find Match Trim Trailing Whitespace жкжх PICO-8 LS: Format File - Each Statement on Separate Line File Utils: Delete Git: Merge... Flutter: New Project Sort Lines Ascending gos' ard' **Preferences: Color Theme** eQrCode View: Toggle Word Wrap τz CSV: Edit csv ngContainer' Developer: Congrete Color Theore From Concert Sigtise Citon I rom . @/ components/ rayour/ HorizontalPageSection' import Page from '@/components/layout/Page' 12 import SmallHeadline from '@/components/layout/SmallHeadline' 13 import TransformContainer from '@/components/layout/ 14 TransformContainer' 15 import fetch from '@/mixins/fetch' 16 import page from '@/mixins/page' 17 18 import getProfilePageCoverImageUrl from '@/util/ 19 getProfilePageCoverImageUrl' 20 21 export default { 22 name: 'PageSlugCard', 23 components: { ClientLogos, 25 FloatingContainer, 26 HorizontalPageSection, 27 Բ master -⊖ ⊗ 0 Δ 0 ⊯ 0 Spaces: 2 UTF-8 LF { vue 5.3.2 jsconfig.json <tag-name prop-name /> 1 known issue // Prettier 🗘



Chatbot

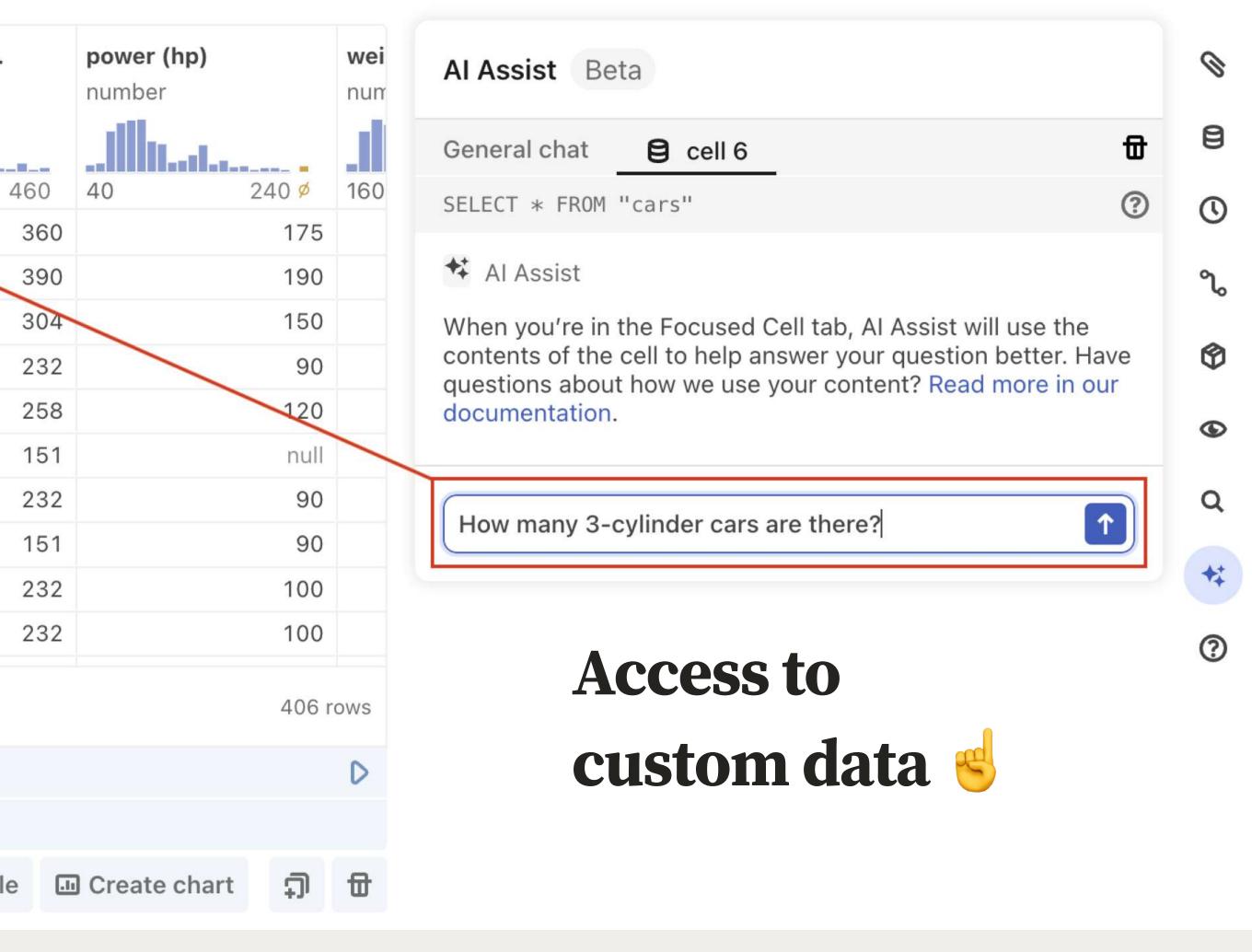
- Long sessions with back-and-forth
- Expectation of memory and iteration
- Amazon, ChatGPT, Gemini, Observable AI assist







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		2	AMC Ambassador SST	17	8			
		3	AMC Concord DL 6	20.2	6			
		4	AMC Concord DL	18.1	6			
		5	AMC Concord DL	23	4			
		6	AMC Concord	19.4	6			
		7	AMC Concord	24.3	4			
		8	AMC Gremlin	18	6			
		9	AMC Gremlin	19	6			
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O Observable





Customers Products ~ Resources ~

INTERCOM

The only AI custo service solution you

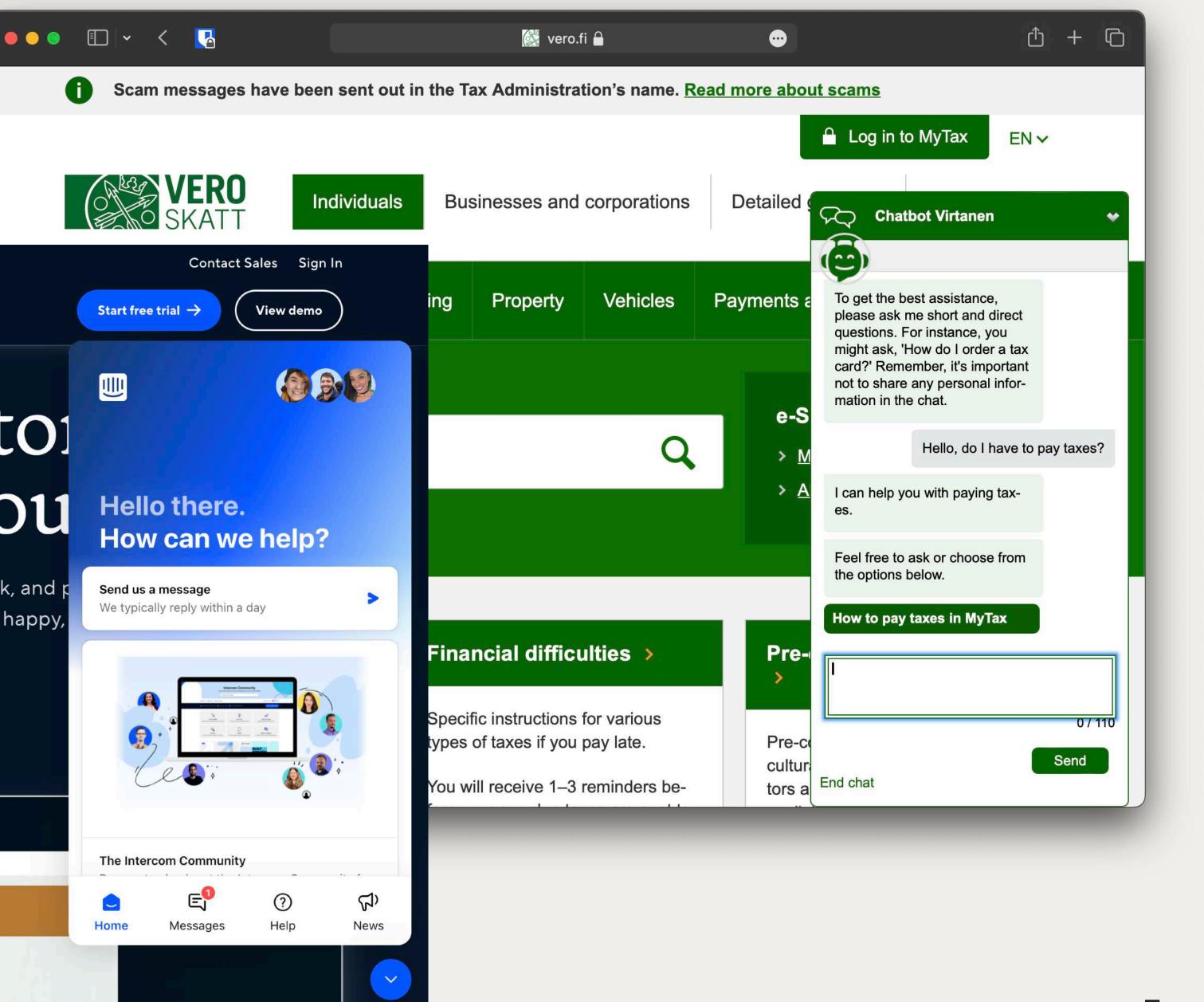
The only solution that combines an AI chatbot, help desk, and support—so you can keep costs low, support teams happy, customers satisfied.

Pricing

Start free trial \rightarrow

View demo \rightarrow

Play with sound 🕟 ... me features will work more slowly between March 17 17:00 - 18:00 GMT Home **Examply**



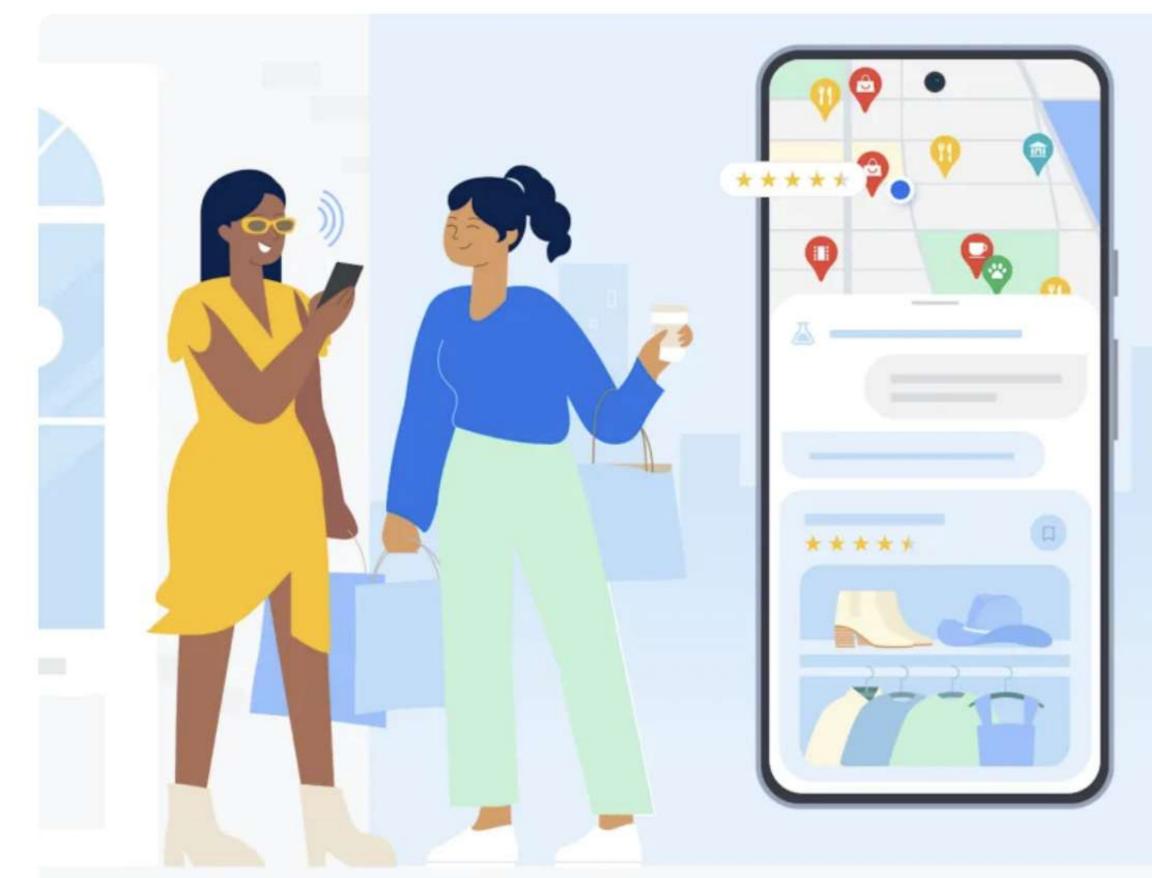


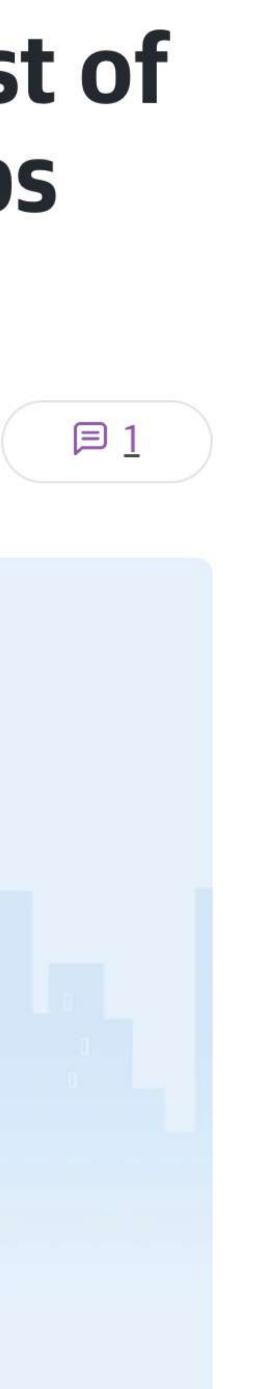
Google starts a limited test of generative AI tools in Maps

Just ask the bot what you're looking for.



Lawrence Bonk Contributing Reporter Thu, Feb 1, 2024, 7:00 PM GMT+2 · 2 min read





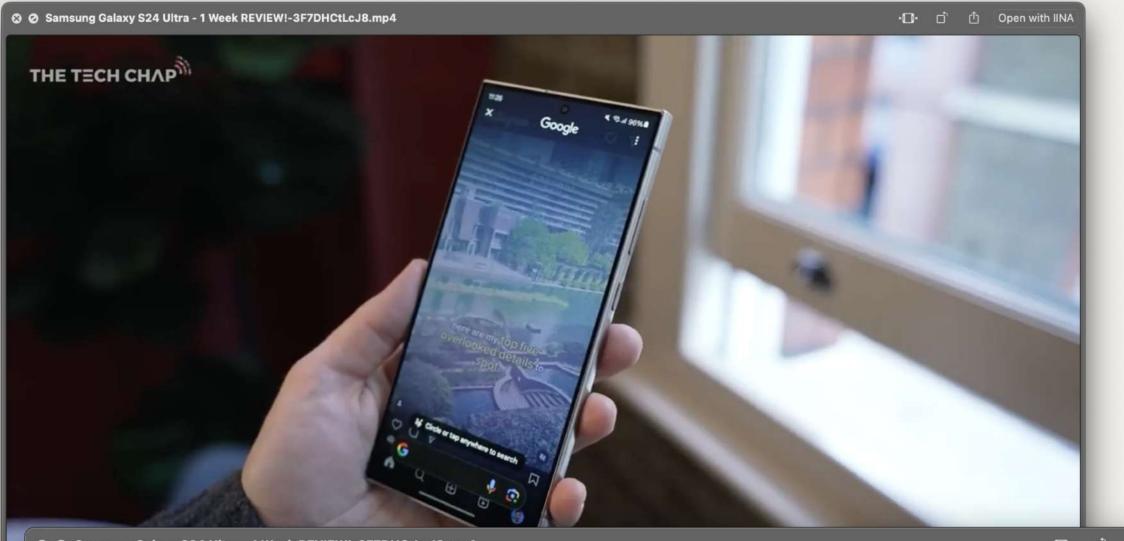
⊥

"Google Maps launches a new AI" or "new chatbot"



Image input

- Where do I get the image?
- Live camera UX is different from file upload
- We already have patterns for image input



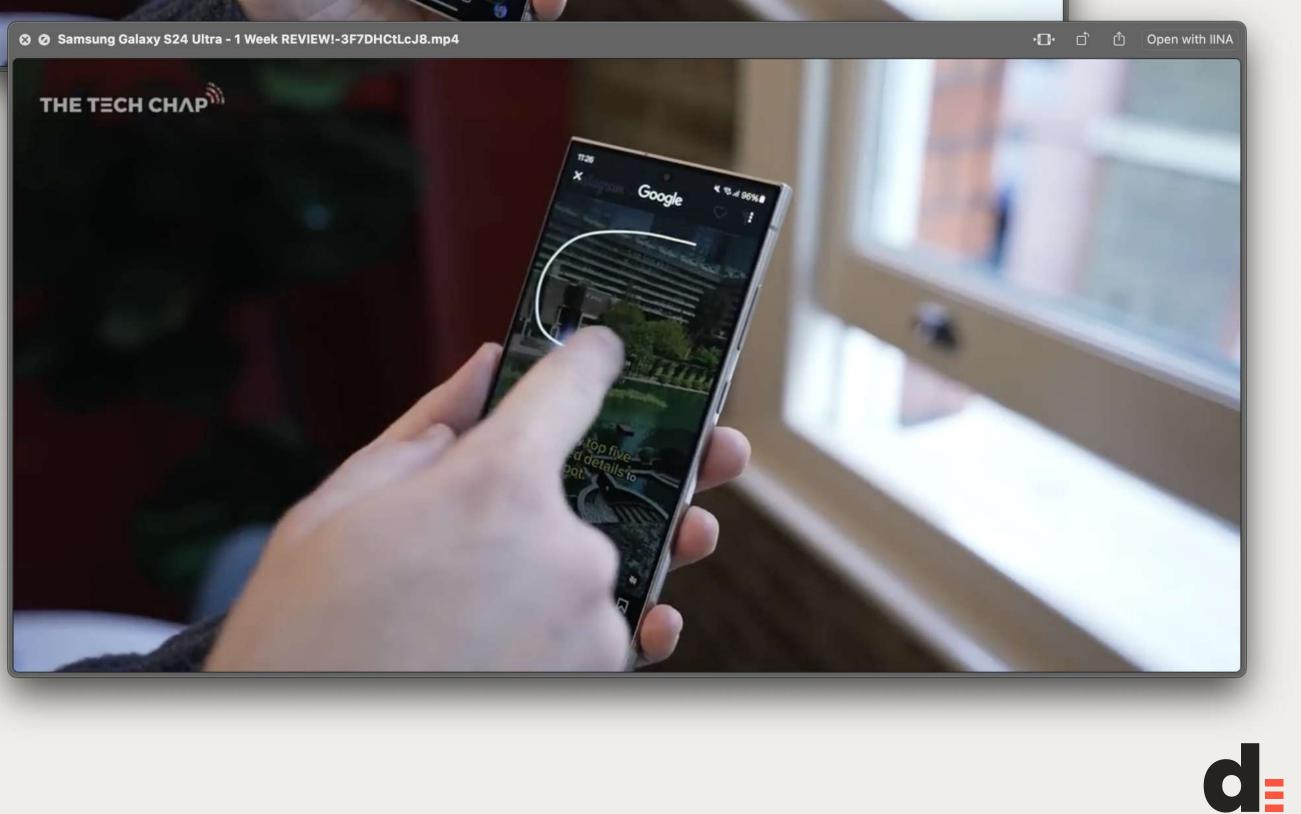
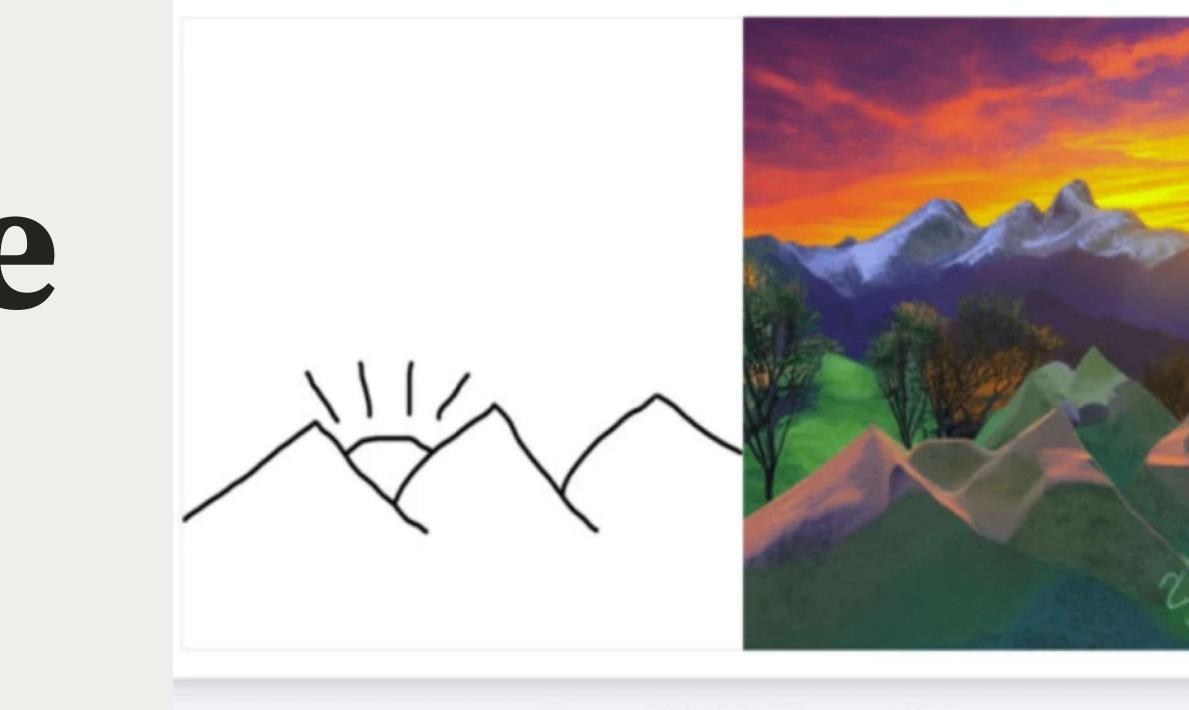


Image to text to image

https://reads.alibaba.com/aiimage-tools-ecommerce/



"the sun setting behind the mountains"

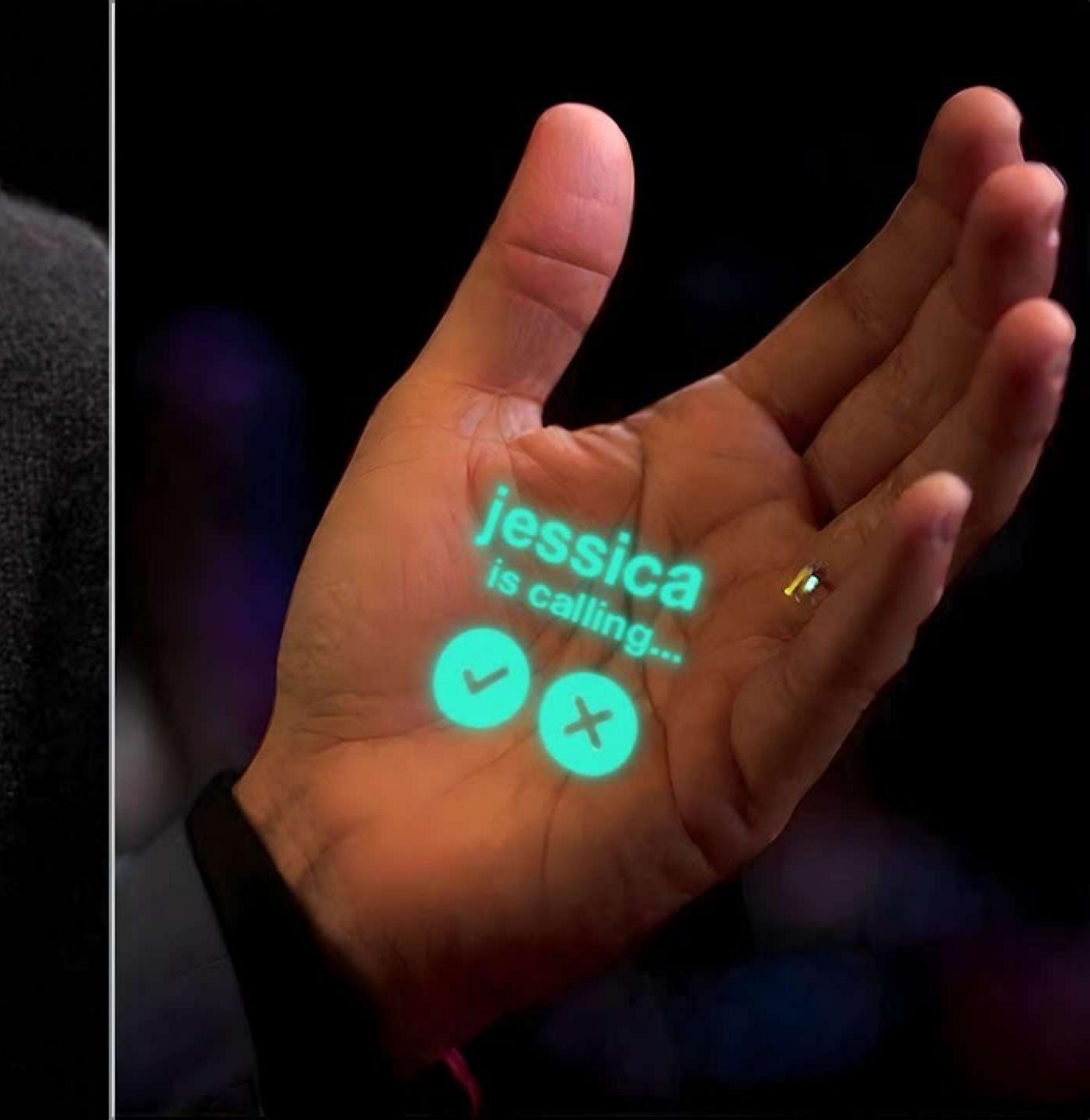




Voice



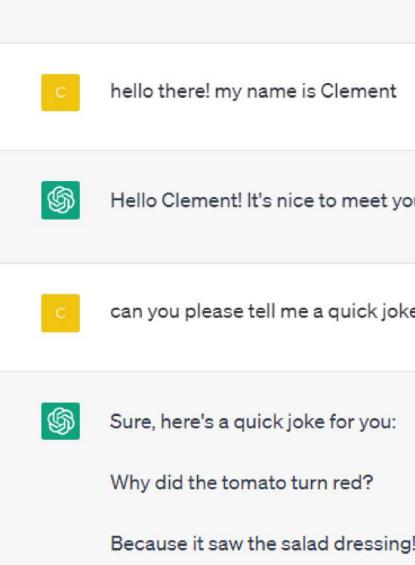
humane AI PIN











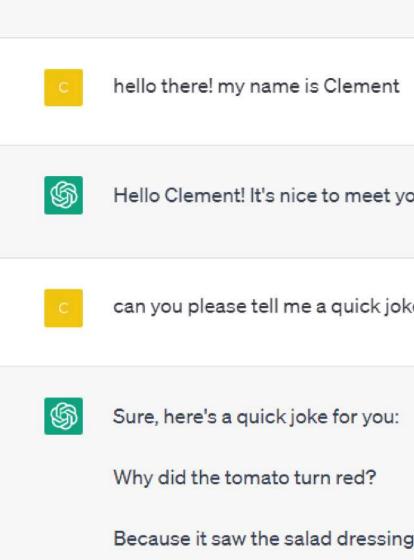
Voice

- Siri, Cortana, Alexa
- ChatGPT plugins, Samsung Live Translate

Model: Default (GPT-3.5)	TALK-TO-ChatGPT			
e! my name is Clement		∳ ∢ »	»	배
nent! It's nice to meet you. How can I assist you today?	047			
ease tell me a quick joke ?				
's a quick joke for you:	067			
ne tomato turn red?				
saw the salad dressing!				







Voice

- Quick responses
- Clean environment
- Need to concentrate
- Can't glance information
- How to follow up?
- Privacy and security?

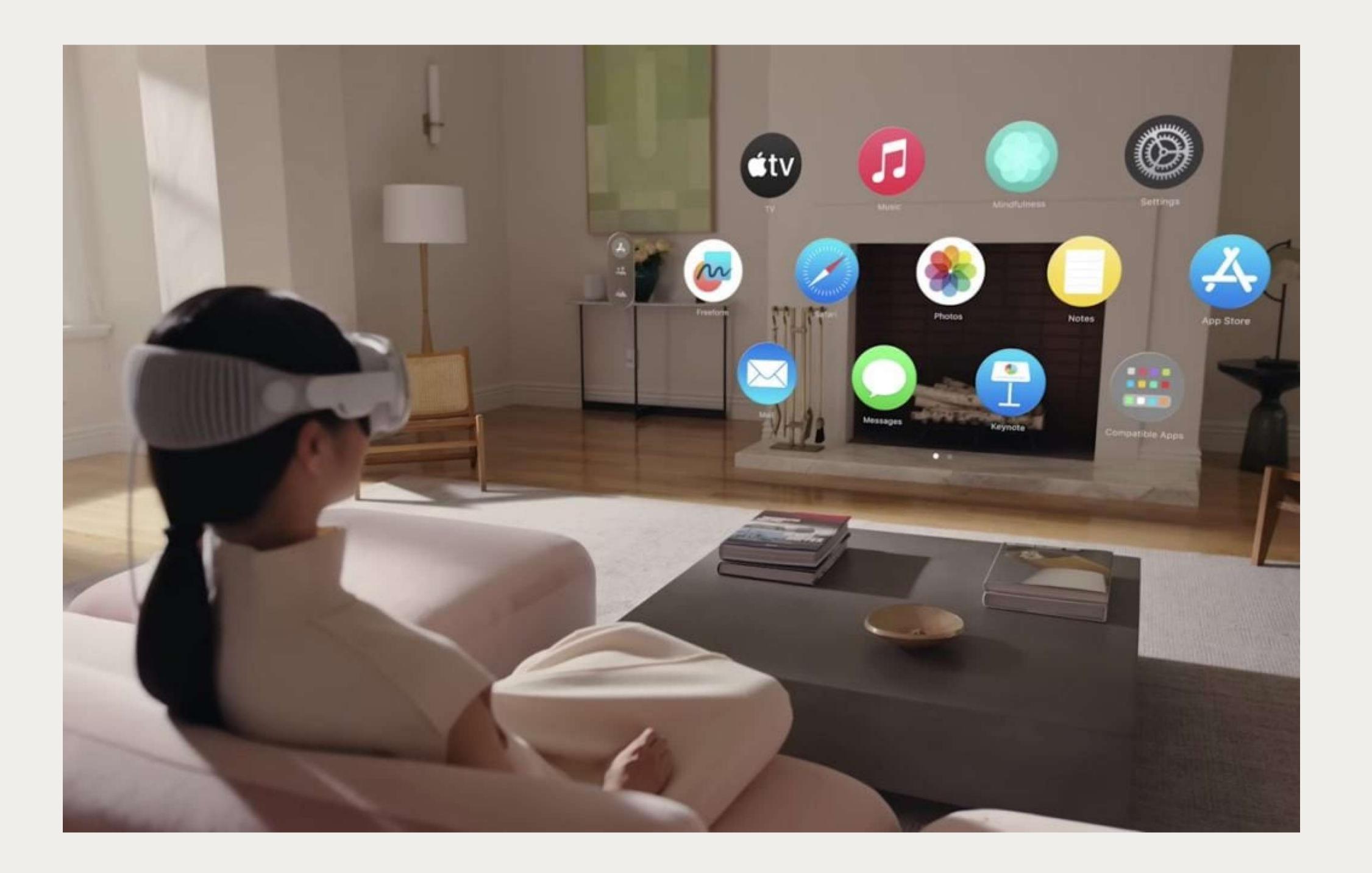
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's a quick joke for you:	067			
ne tomato turn red?				
saw the salad dressing!				





VR, video, gestures













VR, video, gestures

- VR has been around for a while still difficult
- Needs specialised equipment
- Libraries and APIs exist
- Keeps failing on the market

We have knowledge about the UX patterns: how to avoid nausea, enable precision, interpret input



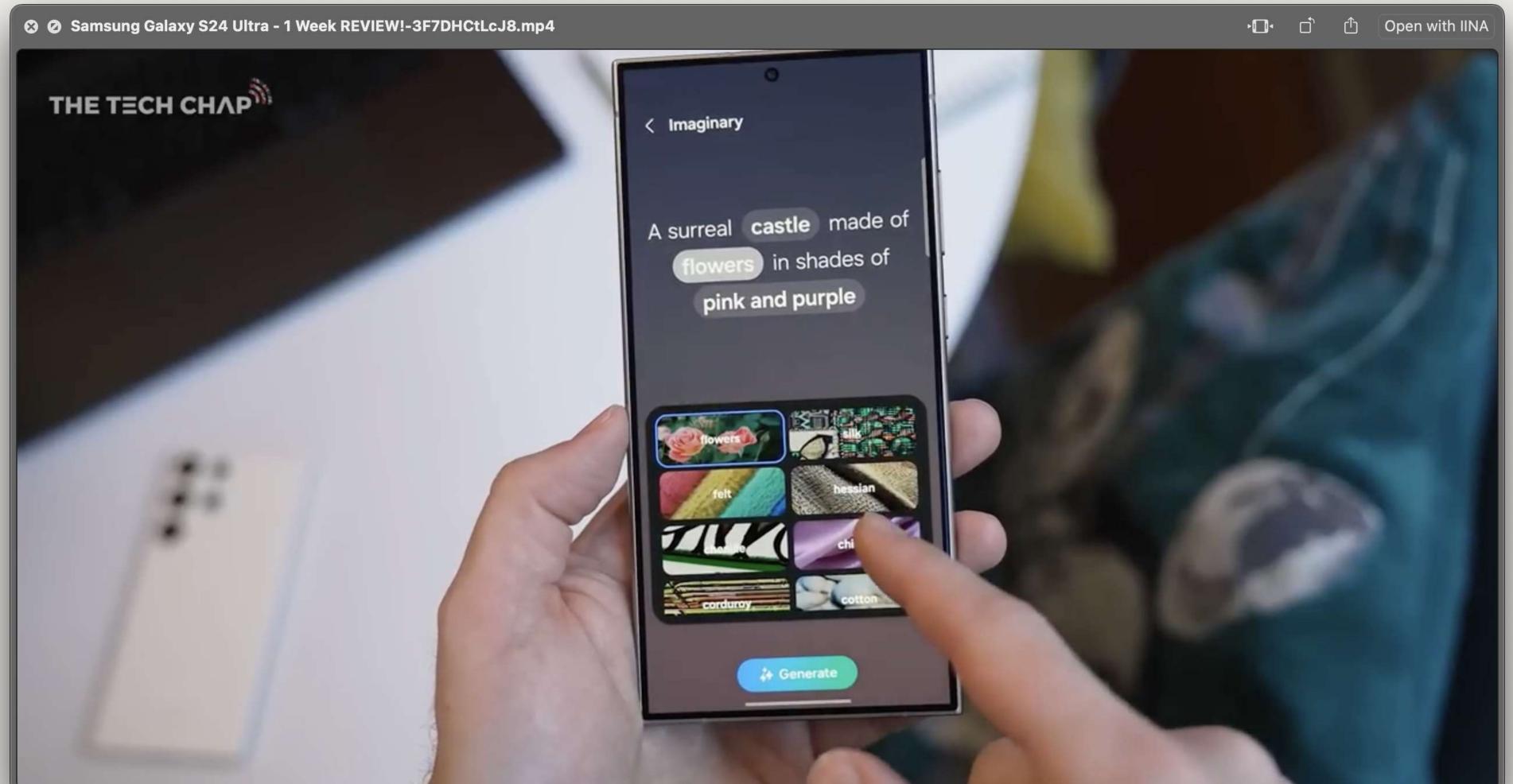
Emerging UX patterns

My emerging vocabulary specific to generative models



"Prompt-output"







"I sketch, you finalize"

sketchlogo.ai

Sketch to logo

Sketch it, let generative A.I. perfect it.

Feel the constraints of text prompts? Elevate your creativity with a quick sketch. The key to unlocking precisely what you envision! Our in-App editor, powered by generative AI, is your ideal tool for crafting rough sketches, paving the way for expanding on your unique ideas and bringing them to life as captivating AI illustrations and AI logos.

Watch It In Action



Midjourney





"You sketch, I finalize"

https://reads.alibaba.com/ai-image-tools-ecommerce/

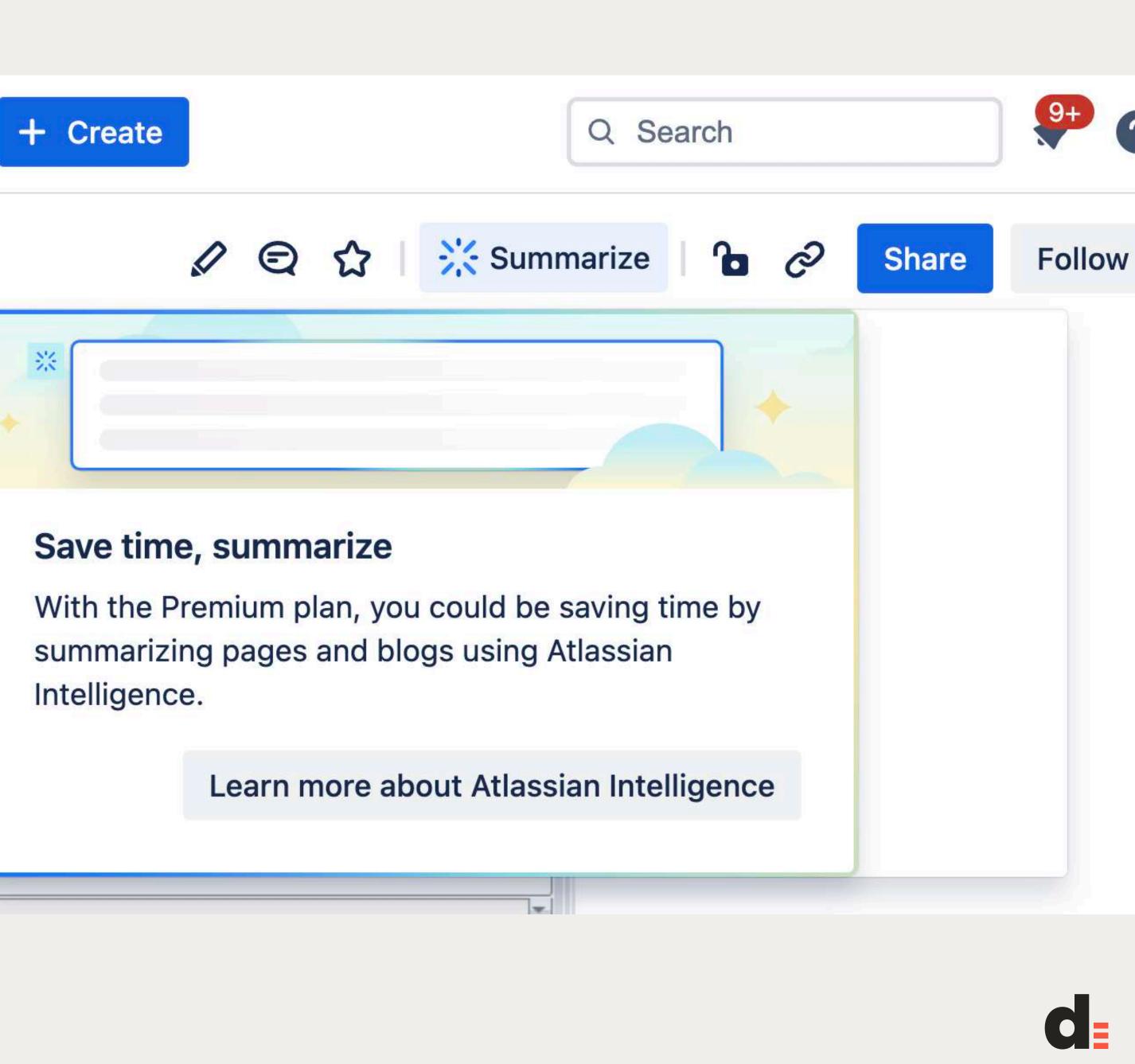




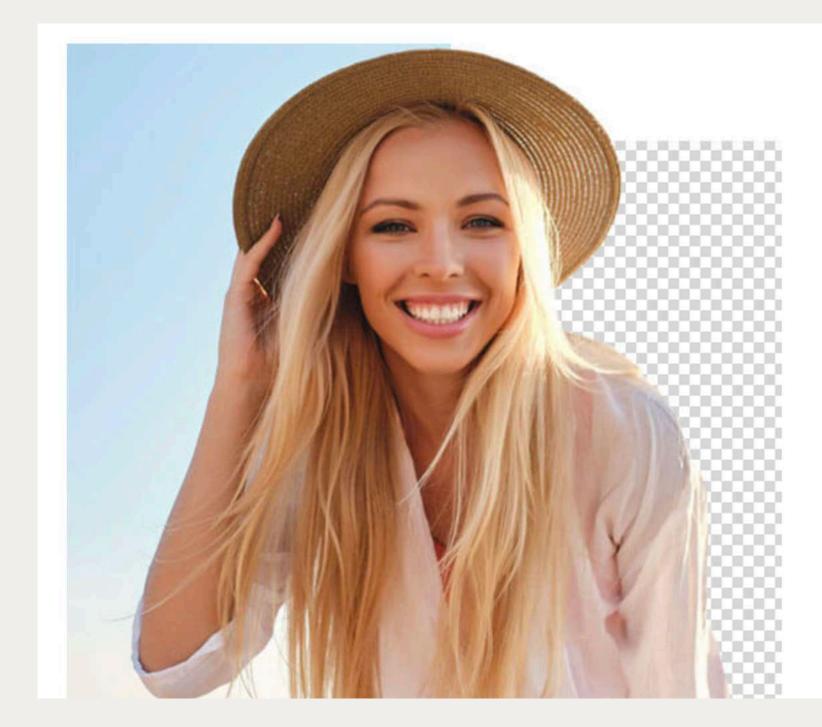


"Press for magic"

es



"Press for magic"



Remove Background From Image for Free Using Artificial Intelligence

CHOOSE A PHOTO

or Drag and Drop images

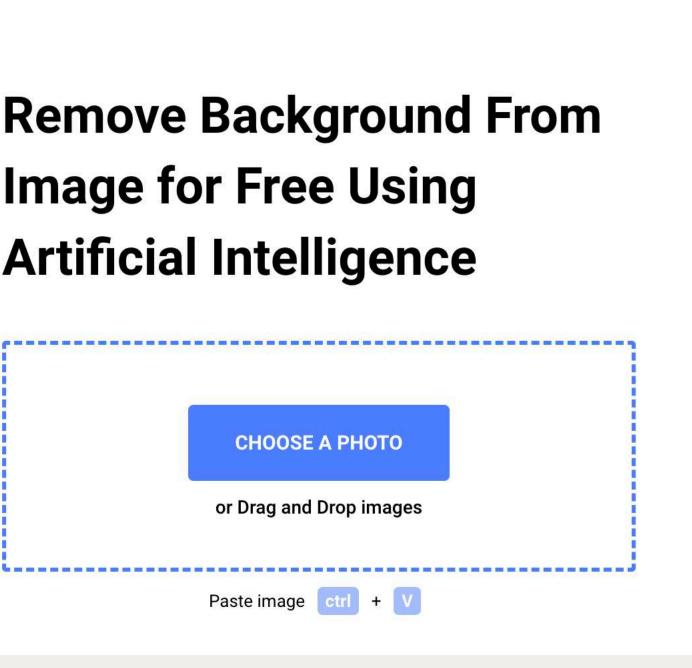




"Just do it"



Remove Background From Image for Free Using **Artificial Intelligence**







"Inform without input"

AUTOMATIONS

Set automated rules for your workflows

Trigger action chains like applying machine translation, translation memories, pseudolocalization, and others, based on changes in any language in the project.





"No nothing"



🕺 NVIDIA.

NVIDIA Introduces DLSS 3 With Breakthrough AI-Powered Frame Generation for up to 4x Performance

DLSS 3 Generates Entire Frames in Real Time With AI, Benefiting GPU- and CPU-Limited Games and Apps

September 20, 2022







What do all of these have in common?



Text prompt Chatbot **Image input Image to text to image** Voice VR Video Gestures

"Prompt-output" "I sketch, you finalize" "You sketch, I finalize" "Press for magic" "Just do it" **"Inform without** input" "No nothing"





Check consumer expectations

Many "AI products" are live for consumers already

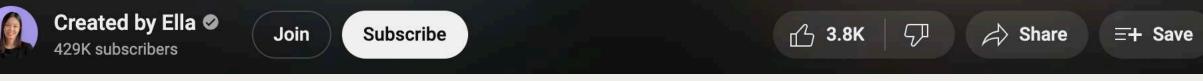
https://www.youtube.com/watch?v=6LOY4KHzFOQ

https://www.samsung.com/latin_en/support/mobile-devices/how-to-use-live-translate-for-phone-



I Tested ALL Features on Samsung S24 Ultra - Is Galaxy AI Worth it?

Ultra



calls-on-the-galaxy-s24/#:~:text=Once%20you%20have%20set%20up,Tap%20on%20Live%20translate.





User expectations are high

Error tolerance is low



Imperfections and slow responses can be UX deal breakers AI does not excel at these



"Trust but verify"





[>>> How many languages can you translate to and from English?

ollama run mistral



Productisation



R&D Training **Infrastructure** Cost

UX

Not a blocker Not a blocker Not a blocker Not a blocker >>>



R&D Training **Infrastructure** Cost

UX

Not a blocker Not a blocker Not a blocker Not a blocker Not a blocker



You can productise AI models right now



C

R&D Training Infrastructure Cost

Use cases Jobs to be done Value



Can we create something totally novel?



Of course. But it's very difficult And you will probably fail many times, like most innovators



Full "AI workflows" will still take a while Start with clearly defined specific tasks



right now using image models Can we manipulate 3D files with these models? Maybe not with these exact models, but there's a reference. Something to build on

You can manipulate bitmap images



What can AI technologies do?

Generate text Generate images **Generate video Generate** audio Manipulate text, images, video, audio

Recognise patterns Scrape content Transform content Translate content Analyse natural language



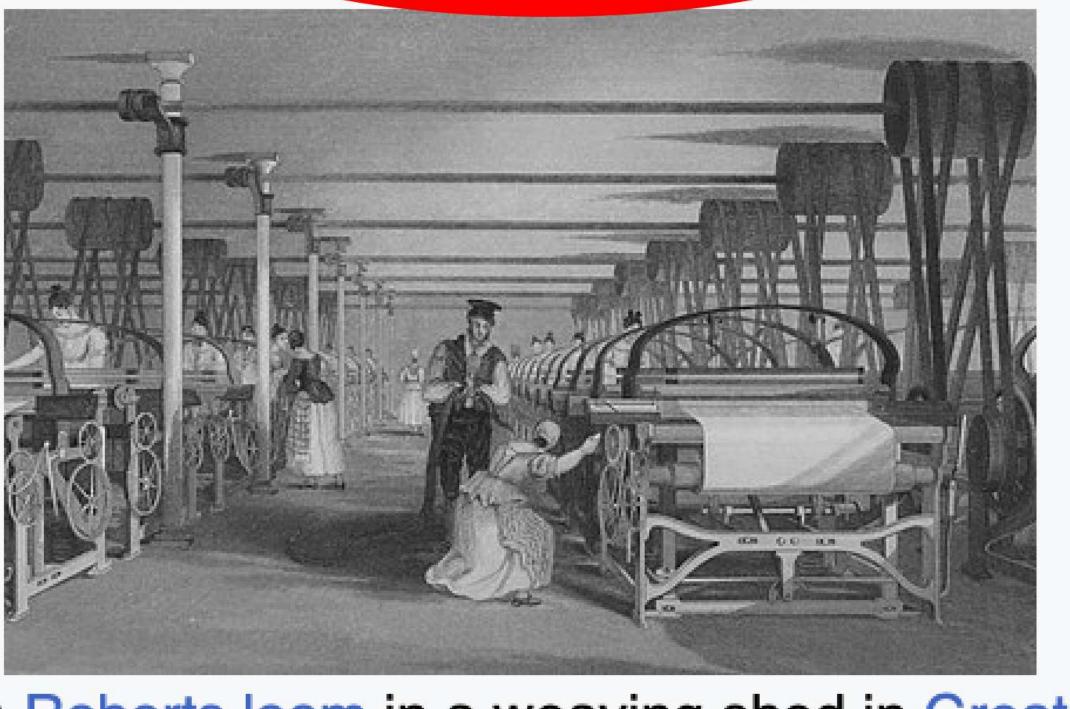
Deliver every day End-to-end



AI revolution?

Industrial Revolution

c. 1760 – c. 1840



A Roberts loom in a weaving shed in Great Britain in 1835

- Location Western Europe North America
- Key events Mechanized textile production



That's it!



Lotero Nord



Jerry Jappinen

UX consultant

VISABLE VISABLE COLX FB ProductBeat

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