

A Comprehensive list

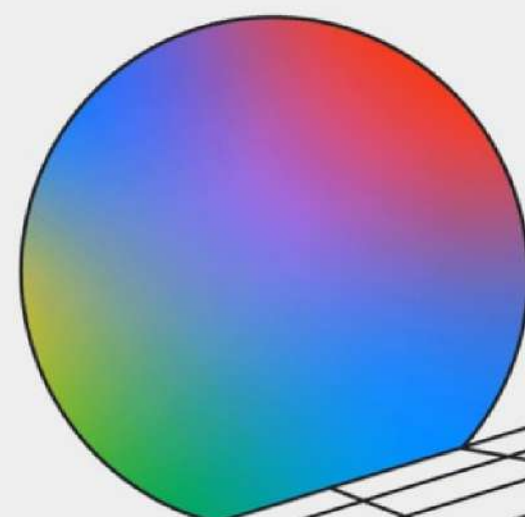
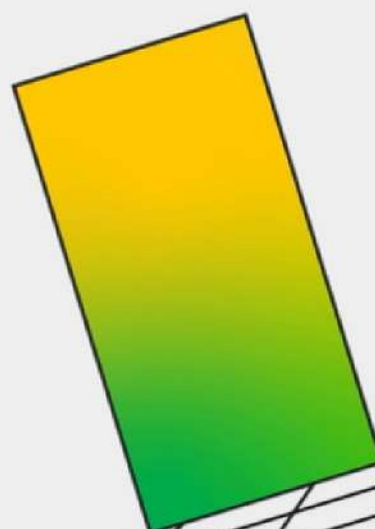
Google I/O 2024 Highlights

(Here's everything you need to know)



Sachin B
@sachin-b-rao

Google I/O





Veio brings Sora-style video generation

KEYNOTES:

- Veio creates 1080p videos from text, images, videos.
- It can generate videos in different styles like aerial shots or timelapses.
- Google is offering Veio to YouTubers and is even pitching it to Hollywood for use in films.
- Donald Glover is working on a film using Google's Veio



Google to watermark AI photos

KEYNOTES:

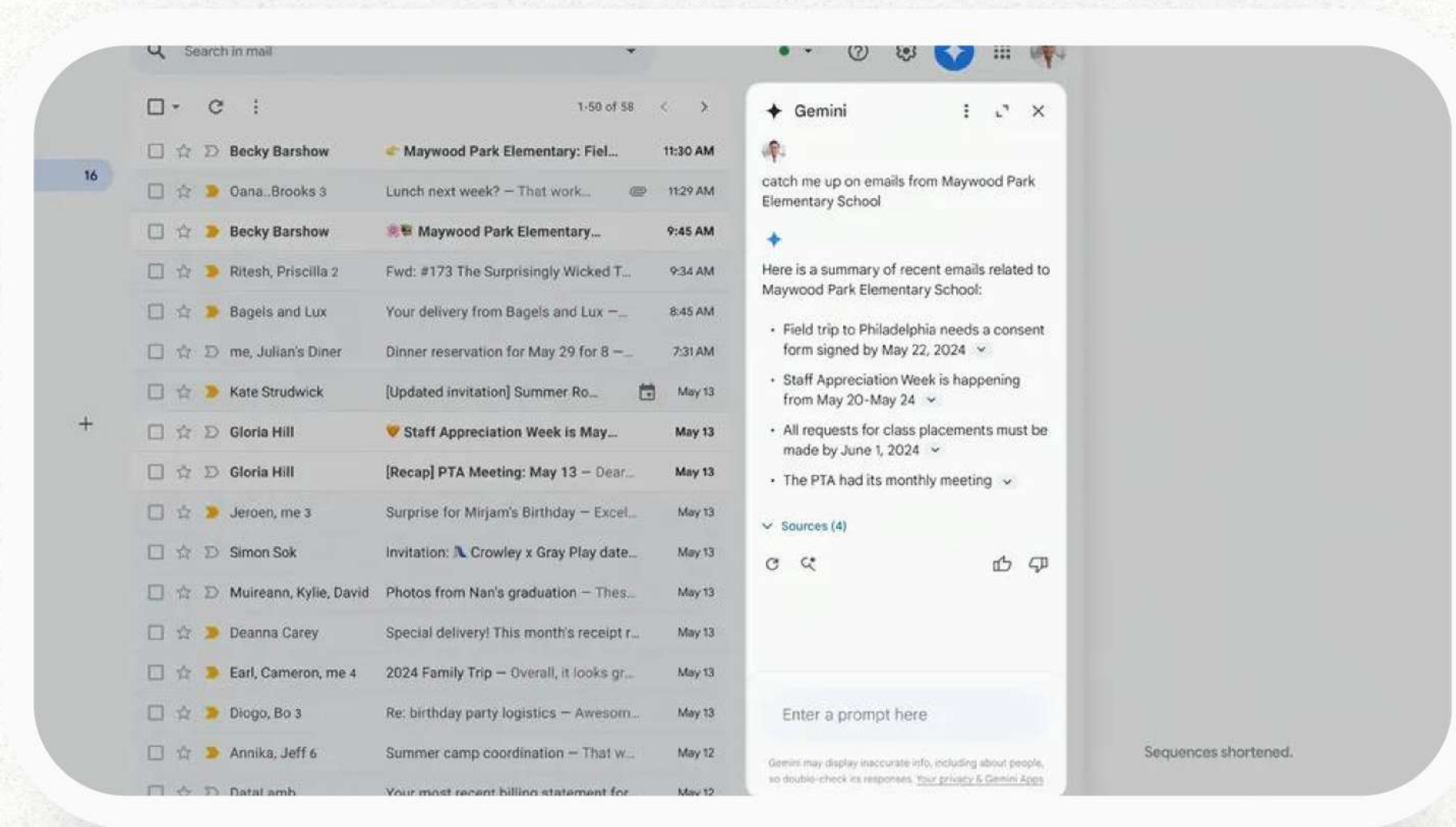
- Google's AI watermarking tool, SynthID, is expanding
- It can now not only watermark AI-generated photos, but also text and video.
- This update starts today.



Gemini becomes a conversation partner

KEYNOTES:

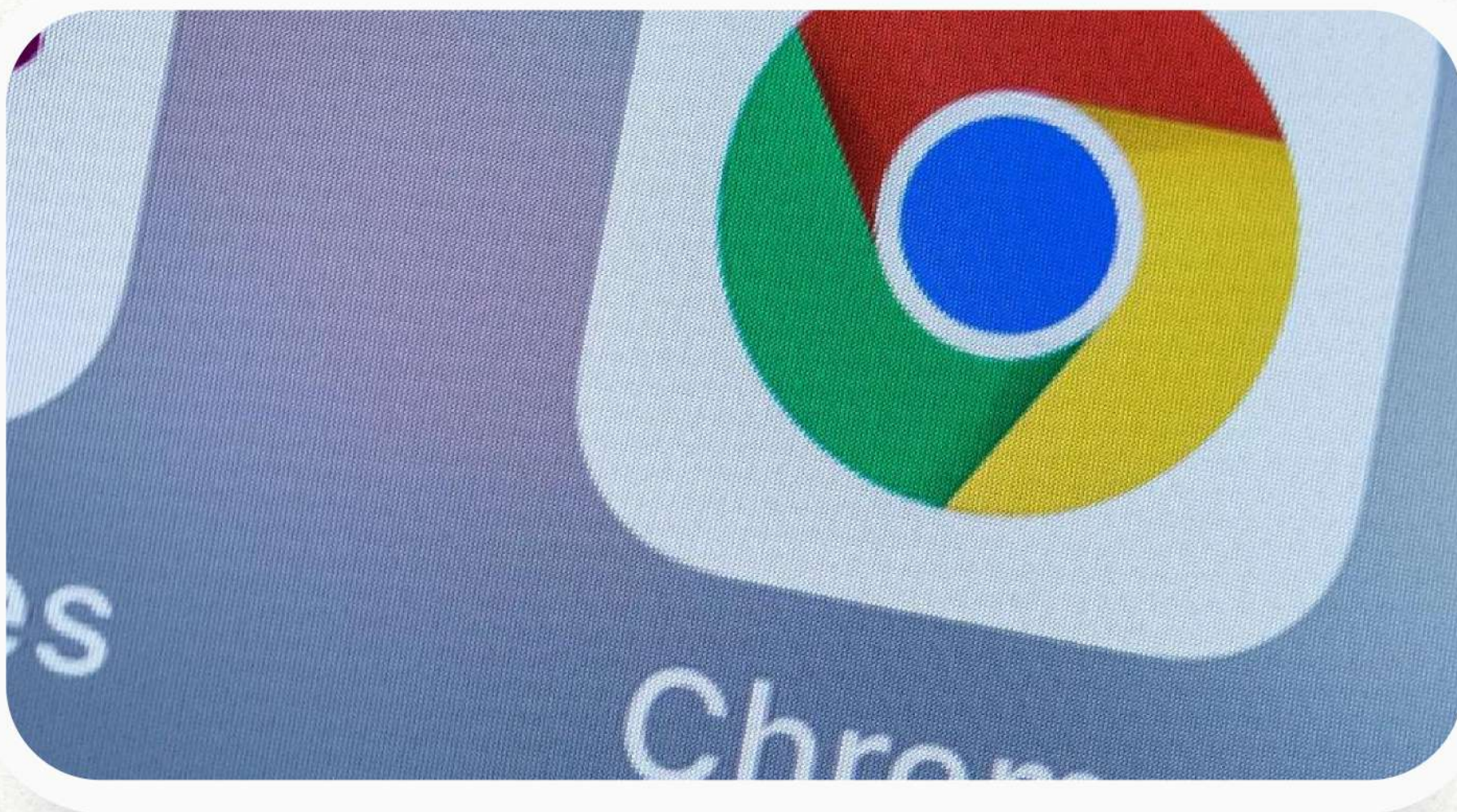
- Gemini's voice will sound more natural and engaging, making conversations feel smoother.
- Use your phone's camera for Gemini to analyze your surroundings and provide information about what it sees.
- Update your calendar, tasks, and notes with details from flyers or images using Gemini's multimodal capabilities.



Gemini integrates more with Gmail

KEYNOTES:

- Gemini is coming to your Gmail
- Search emails faster
- Get meeting summaries from Google Meet, and more.
- This is gonna be a game-changer for your workday.



Google Chrome is getting an AI assistant

KEYNOTES:

- Google announced that it's adding Gemini Nano to Chrome desktop, starting with Chrome 126.
- This means you will soon have a built-in helper to craft Killer social media posts, Product reviews, and more
- All without ever leaving Chrome

This question is asking to **find acceleration** with knowns of final velocity, initial velocity, and elapsed time.

2 Identify the related formula ^

This is the formula used for problems related to **Velocity after constant acceleration over time**.

$$v_f = v_i + a t$$

v_f = final velocity

v_i = initial velocity

a = acceleration

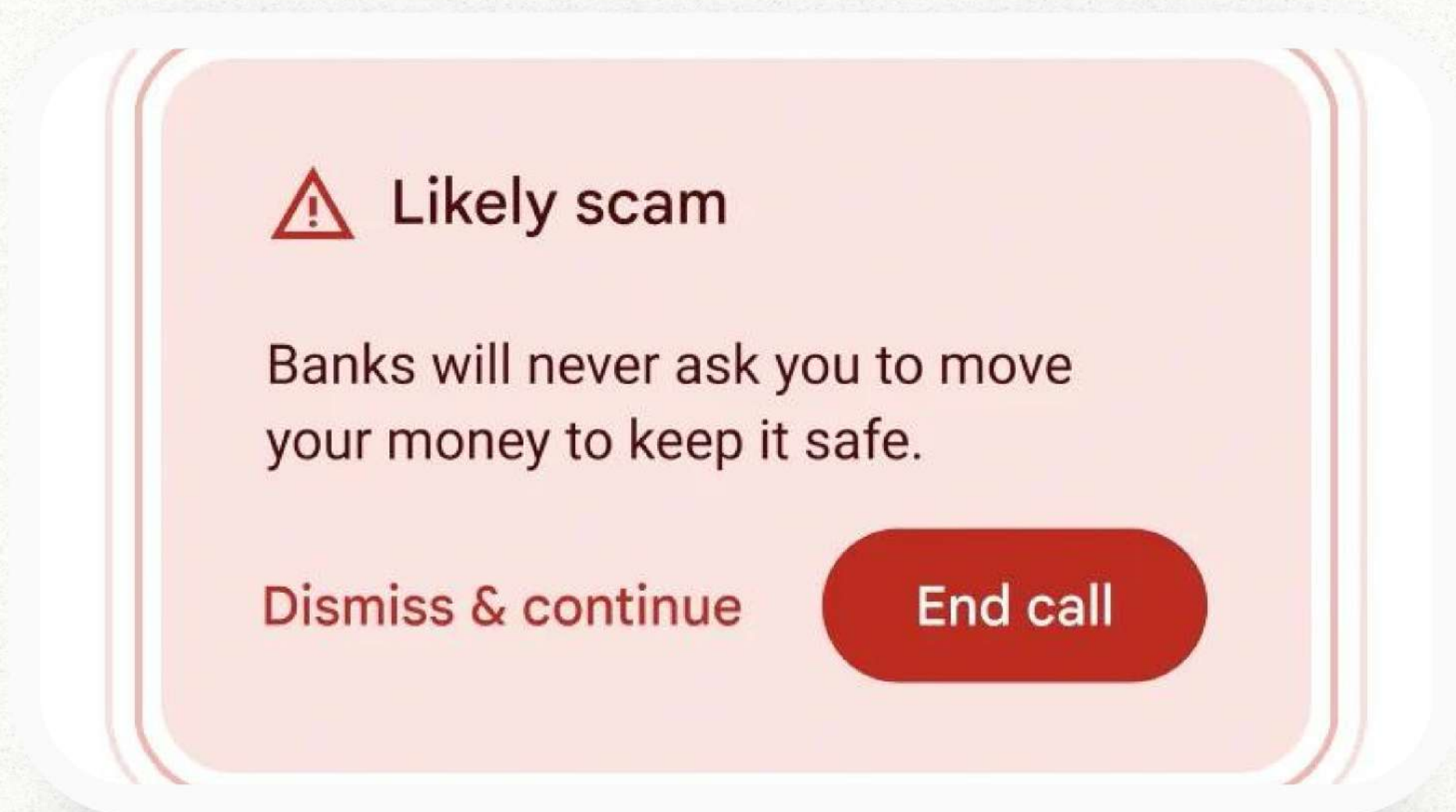
t = elapsed time

3 Input variables, solve and simplify ^

Circle to Search is now a better helper

KEYNOTES:

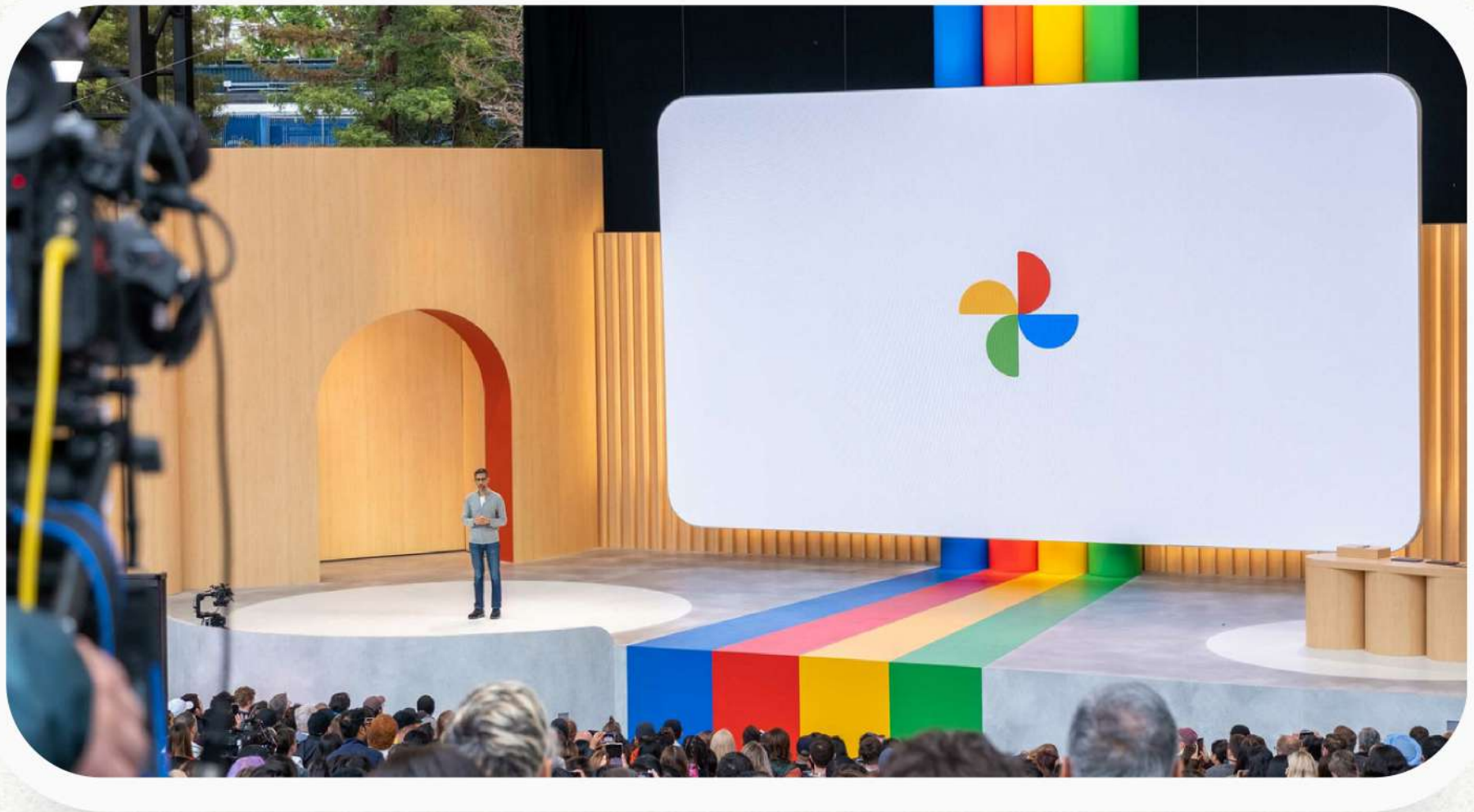
- You can use Circle to Search directly within your textbook or document, and Google will show you step-by-step instructions on how to solve the problem
- All without leaving the page.



Gemini AI will soon detect spam calls

KEYNOTES:

- The feature uses Gemini Nano and happens on-device, keeping phone calls private
- Provides real-time alerts during a call if it detects conversation patterns commonly associated with scams.
- This protection all happens on-device so your conversation stays private to you.



Google Photos new "Ask Photos" feature

KEYNOTES:

- Just ask it things like "Show me my kid's swimming progress"
- And it will use AI to find pics and make a montage.



Google announces Project Astra

KEYNOTES:

- You point your phone's camera at something, ask a question, and Project Astra gives you the answer.
- One demo showed it helping with coding AND finding misplaced glasses
- The future of AI assistants is here



Gemini is becoming a personal assistant

KEYNOTES:

- Imagine telling Gemini Advanced, "Plan a trip to Miami" and it handles everything.
- Search for flights, hotels, and things to do all in one place.
- Find the perfect itinerary based on your interests, using Google Search, Maps, and Shopping.



Google announces Imagen 3

KEYNOTES:

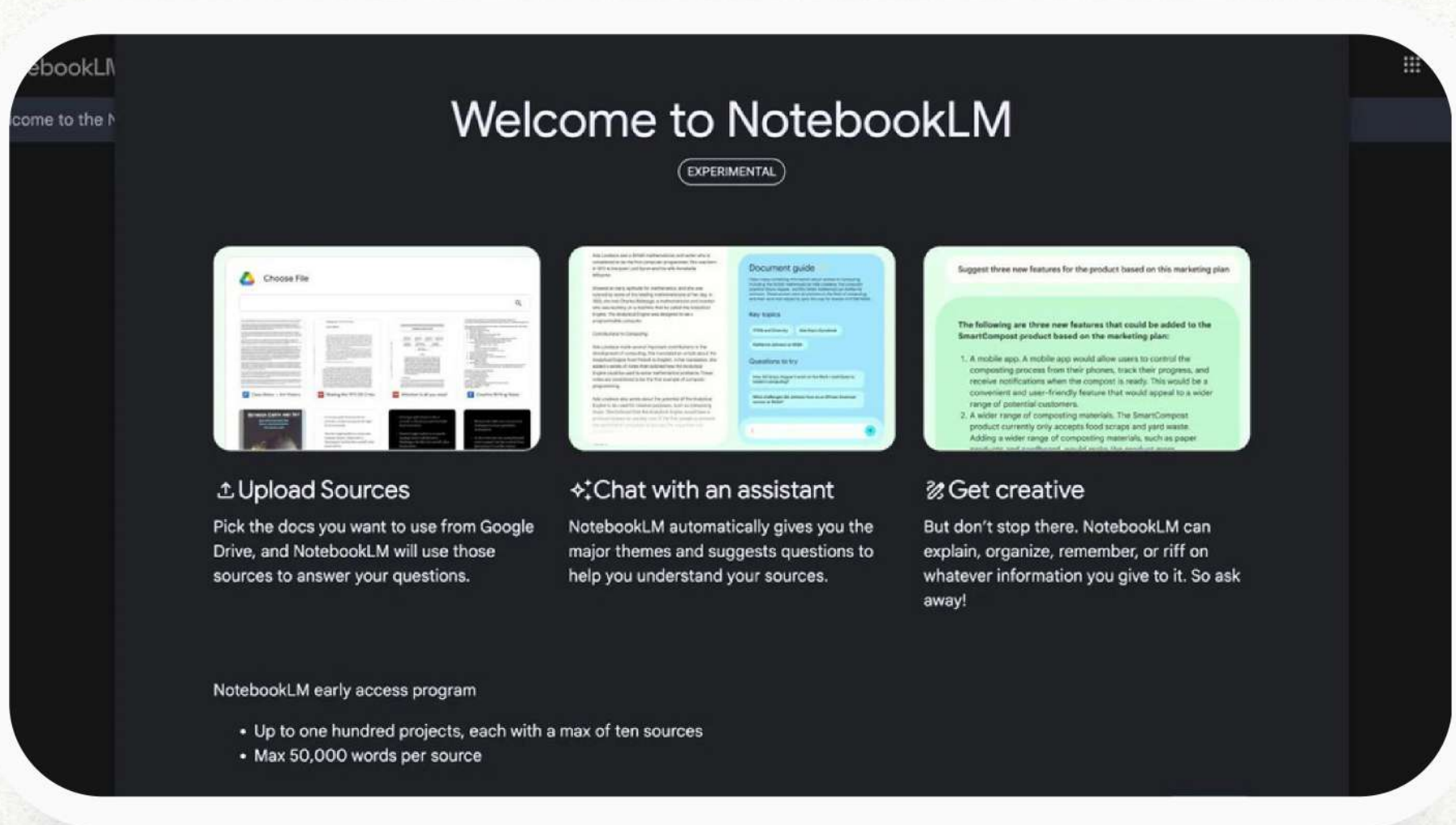
- A text-to-image generation model
- It produces visuals with incredible detail, realistic lighting and fewer distracting artifacts.



Google introduces Gemini 1.5 Flash

KEYNOTES:

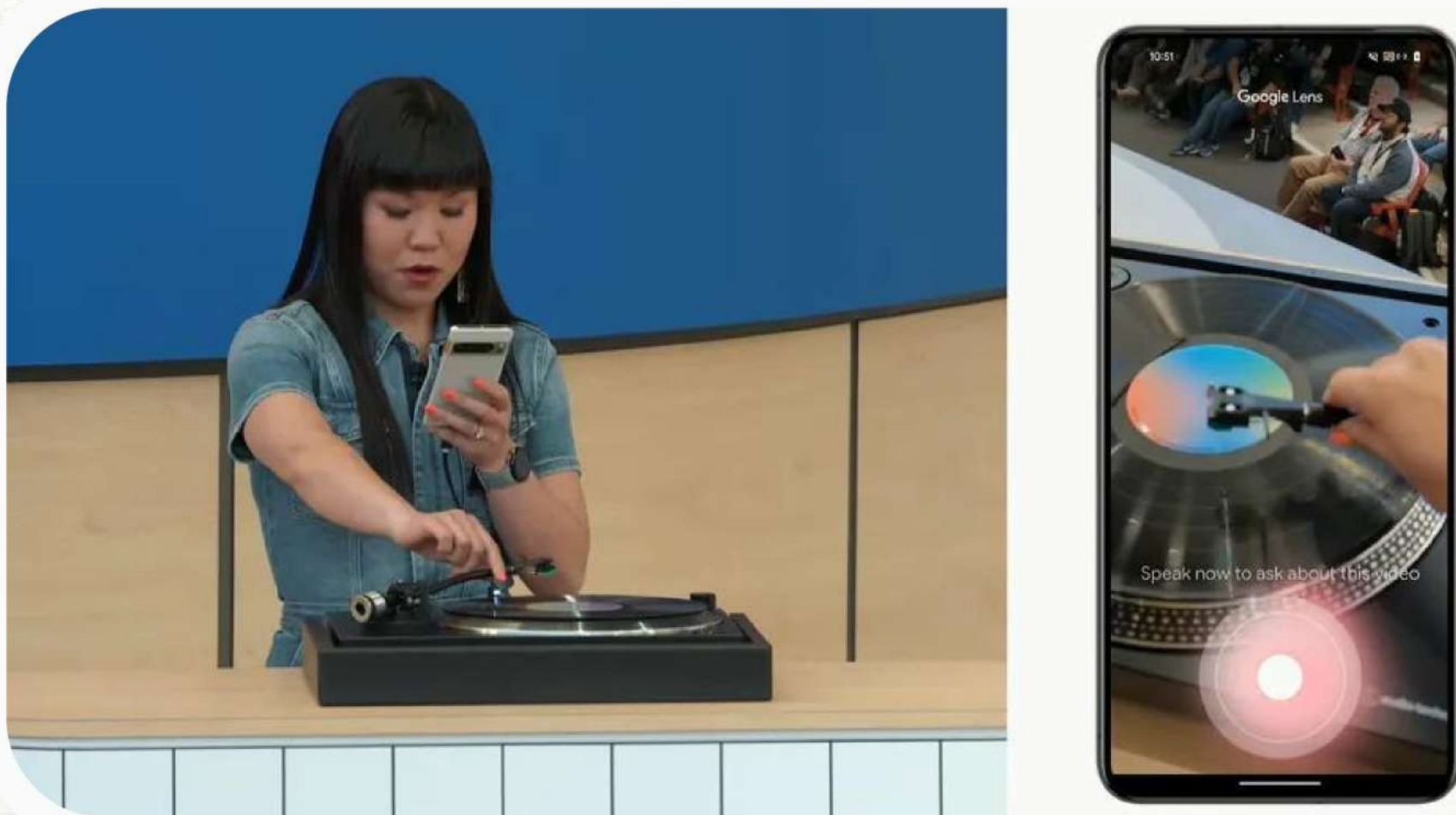
- Runs tasks faster and is cheaper to use
- Ideal when you need results ASAP.
- Can still handle complex tasks with a large amount of data (up to 1 million tokens).



Access in Notebook LM

KEYNOTES:

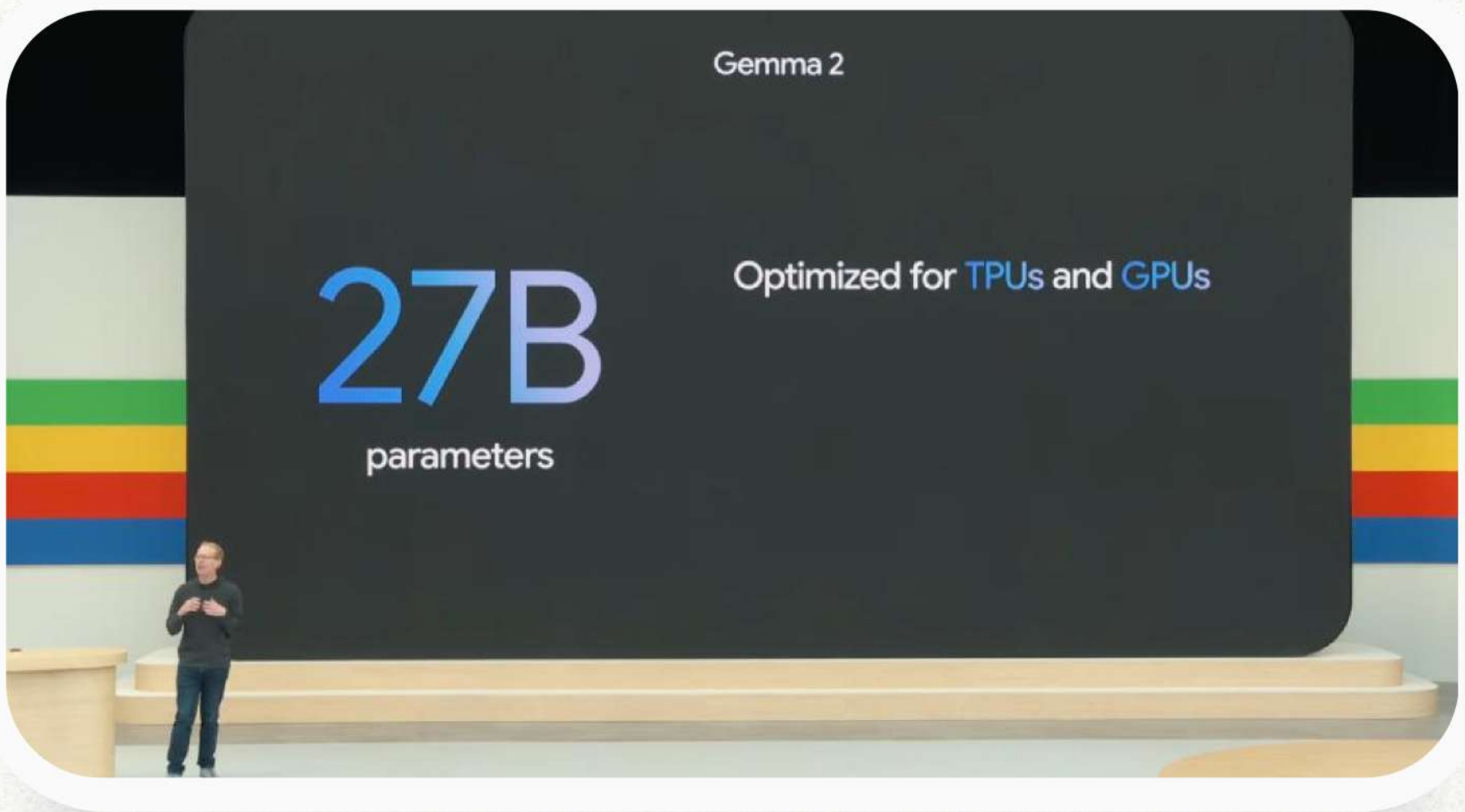
- Have interactive discussion, ask limitless questions and have real-time conversations with it.
- This feature fully integrates various modalities.
- Especially beneficial for students.



Ask Google with video search

KEYNOTES:

- Google's Rose Yao demos how she can fix a broken record player with the help of searching with video.
- She shows an example of how she's recording video and asks why the record player isn't working correctly.
- Google Search is able to search frame by frame to answer questions.



Google announces Gemma 2

KEYNOTES:

- The new open AI model for developers
- Gemma 2 arrives in June with a massive 27-billion parameter size
- PaliGemma, a new vision-language model inspired by PaLI-3, is also available now.
- Google is adding an LLM Comparator tool to help developers compare different LLM's.

The logo for Gemini 1.5 Pro is displayed within a dark blue rounded rectangle with a white border. The text "Gemini 1.5 Pro" is written in a white, sans-serif font, with "Gemini" in a larger size than "1.5 Pro".

Gemini 1.5 Pro

Gemini Pro 1.5 available

KEYNOTES:

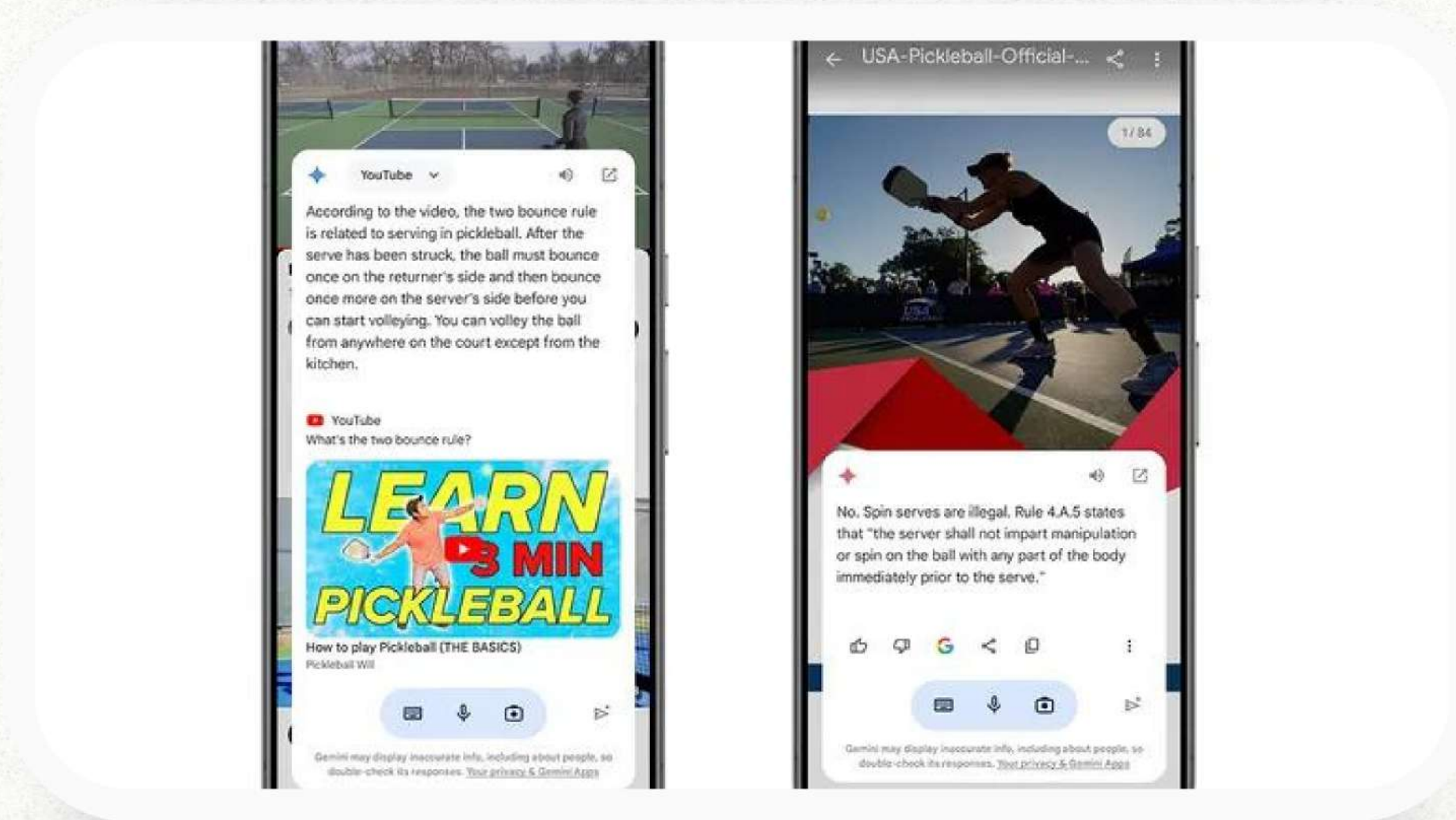
- Gemini Advance users get access to the powerful 1M token context window of Gemini 1.5 Pro.
- Take a picture of your food and get a recipe, or snap a math problem for step-by-step solutions
- Available in over 150 countries and 35 languages for Advanced users.
- Developers can access an even stronger version (2M tokens)



Gemini 1.5 Flash is very cheap.

KEYNOTES:

- For comparison
- GPT-4o is \$5 per million input tokens \$15 per million output tokens.
- Gemini 1.5 is \$7 for 1.5 Pro \$3.50 up to 128K
- Flash is 35 cents for 1 million tokens.



Android devices to get smarter AI

KEYNOTES:

- Coming soon, question videos playing on your Android with Gemini using captions.
- (For paid users) Gemini will soon understand and answer your questions about PDFs.
- Expect more features in the next few months for Gemini to interact with all sorts of media on your Android.

Follow and stay tuned

To get insights into the latest
trends, tools and prompts to
leverage AI.

Follow for more!



Sachin B

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