

Artificial Intelligence



Phil Bass May 2025

Introduction



In this talk we will cover:

- What is AI?
- Some well-known AIs
- What can they do?
- Some demonstrations
- The benefits and dangers

What Is AI?

A search engine such as Google Search finds existing information.

An AI, in contrast, generates new information.

"I want AI to do my laundry and dishes so that I can do art and writing, not for AI to do my art and writing so that I can do my laundry and dishes."

- Joanna Maciejewska

Some Well-Known AIs

There are several types of AI:

- Text generators (Chatbots)
- Image generators
- Audio generators
- Code generators
- Intelligent search engines
- Robot controllers

For further information, see:

- The Silver AI Project
- How Generative AI Works

Chatbots

- ChatGPT (Open AI)
- Gemini (Google)
- Copilot (Microsoft)
- Apple Intelligence (Apple)
- DeepSeek (Chinese)
- Llama (Meta)

Image Generators

- Wordpress
- Ideogram
- Midjourney

Audio Generators

- Suno (songs)
- Udio (songs)
- 15.ai (speech)
- MusicLM (music)

Other Generative AIs

- OpenAI Codex (computer code)
- Perplexity (intelligent web search)
- Various robot controllers

What Can AIs Do?

The next few slides show some examples of what AIs can produce.

Write a Recommendation Letter

"recommendation letter for the Magic Unicorn Corporation"

Dear recruiter,

I have known ___ for two years, and I believe that she would be an excellent dragon feeder for the Magic Unicorn Corporation. ___ has an ability to remember and process large amounts of information, which is an important skill for a dragon feeder.

___, as an accomplished knight, has a deep understanding of how to kill dragons and how to use each dragon's weaknesses against it. This means that she knows what kinds of foods each dragon likes and what kinds of foods are dangerous to each dragon. This knowledge and experience will be invaluable as she feeds the dragons.

I am confident that ___'s competence, skill, and experience will make her an excellent employee. Please contact me at (___) ___-___ if you have any questions. I look forward to hearing from you.

Best regards,

Honorable Knight

Sir George

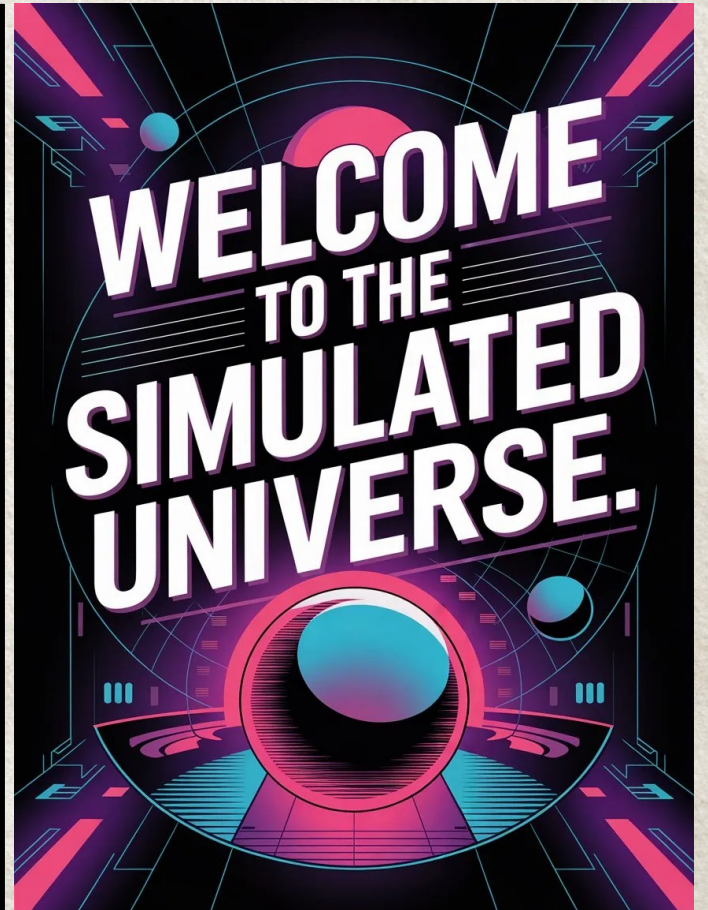
Summarise Meetings

“Zoom used Meta Llama 2 to create an AI Companion that can summarize meetings, provide helpful presentation tips, and assist with message responses. This AI Companion is powered by multiple models, including Meta Llama 2.”

- Wikipedia

Generate Posters

From the Wikipedia page on the Ideogram AI.



Examples & Demonstrations

- **ChatGPT**

"Write a limerick about social media."

- **Ideogram**

"Create a poster for a local U3A organisation."

- **Suno**

"Write a song called 'The Creative Spark' in the style of Gilbert & Sullivan."

ChatGPT – Example, First Prompt

On Social Media

“On socials we post night and day,
For likes that might brighten our way.
But caught in the scroll,
We lose self-control —
And wonder where time slipped away!”

ChatGPT – Example, Second Prompt

On Social Media

"In silence, we scroll through the feed,
Each post planting envy or need.
We smile as we share,
But few truly care —
A hunger that no one can feed."

ChatGPT – Live Demonstration

Create an image of the Wikipedia encyclopaedia according to your own ideas (but not a logo)



Here is a conceptual representation of the Wikipedia encyclopedia, visualized as a vast, glowing digital library. I aimed to blend the idea of traditional knowledge with a futuristic design. Let me know if you'd like to adjust any elements!

ChatGPT can also create pictures.

This image was created from the prompt: "Create an image of the Wikipedia encyclopaedia according to your own ideas (but not a logo)."

What prompt shall we give it?

Ideogram – Example, Prompt

“A modern poster promoting a local U3A (University of the Third Age) organization, showcasing a diverse group of smiling adults engaged in various activities. The central focus is a collage of vignettes depicting learning and socializing – a pottery class, a book club discussion, and a hiking group enjoying a scenic view, each scene rendered in a warm, inviting color palette. Behind the collage is a subtle pattern of open books and magnifying glasses, set against a faded parchment-colored background with the text “U3A: Learn, Laugh, Live” prominently displayed at the top, and a smaller tagline “Embrace Lifelong Learning” below, using a classic serif typeface. Soft, diffused lighting evokes a sense of community and shared enthusiasm for continued education and exploration.”

Ideogram – Example, Result



Ideogram – Live Demonstration

What prompt shall we give it?

Suno – Example, Prompt

“Write a song called ‘The Creative Spark’ in the style of Gilbert & Sullivan.”

Suno – Example, Result

The Creative Spark

[Verse 1]

A thought it flits like a bird in the sky
A spark alights but soon doth fly
Ephemeral glimmers that tease and play
What trickery this in the mind does stay

[Chorus]

Oh the creative spark it burns so bright
A candle's glow in the velvet night
A tempest of notions that whirl
Embark
Oh fickle yet radiant creative spark

[Verse 2]

It dances just at the edge of my grasp
Then slips away like sand in my clasp
Its laughter echoes oh how it taunts
With brilliant ideas that it flaunts

[Bridge]

Oh muse cruel muse your game is coy
To share then snatch this fleeting joy
Yet still I chase your shimmering light
For art and wonder are my birthright

[Chorus]

Oh the creative spark it burns so bright
A candle's glow in the velvet night
A tempest of notions that whirl
Embark
Oh fickle yet radiant creative spark

[Verse 3]

When it settles oh how it ignites
Dreams that soar to magnificent heights
Colors and rhythms and stories unstilled
An empty page now marvelously filled

Suno – Example, Result

The Creative Spark

[Verse 1]

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Ephemeral glimmers that tease and play
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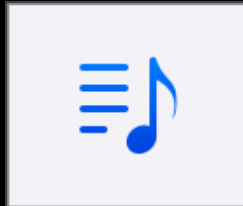
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Suno – Live Demonstration

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The Benefits

Artificial intelligence is already being used in a wide range of applications. For example:

- It is helping doctors to diagnose disease and in drug discovery (e.g. AlphaFold).
- It plans our travel routes in satnavs.
- It powers our virtual assistants (e.g. Alexa, Siri).
- It is helping artists to be more creative.

The Dangers

- It might put a lot of people out of a job, thereby causing high levels of unemployment.
- Fake news too easily generated
- Political bias (or does that just reflect the human bias?)
- Training an AI requires vast amounts of data and consumes correspondingly large amounts of energy.
- In the wrong hands, AI can be a powerful weapon.
- The extinction of the human race.
- If AI becomes a standard tool, it will degrade the performance of our PCs. (See [here](#).)
- As one social media post put it: “We're taking giant steps toward the perfect dystopia: a world of smart objects and dumb humans. Sigh!”.

Summary

We have seen:

- What Als are ...
- ... and what they can do.
- Some examples of their work.
- Some live demonstrations.

And we have discussed the benefits and dangers of Als.



That's All, Folks!



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