



The problem with AI

Hi, I am having trouble finding an article. Can you please help me?

Welcome to the University of Melbourne Library Chat Service, you're chatting with Michael

Happy to help. What's the article's title and author?

Kashdan, T. B., & Eamp; Biswas-Diener, R. (2014). The Upside of Your Dark Side: Two Psychological Processes Underlying the Capacity to Embrace and Transcend Negative Emotions. Social Psychological and Personality Science, 5(6), 698–707. doi: 10.1177/1948550614536164

I'll just look into that for you – I'll be back ASAP.

Thank you

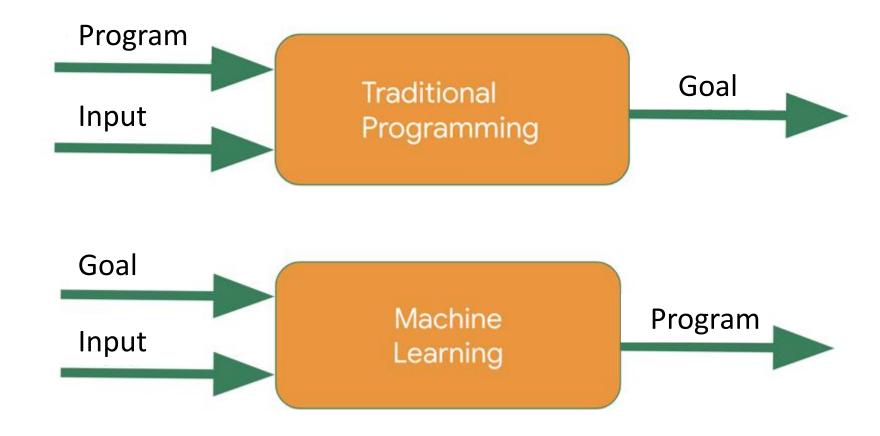
May I ask whether this is from ChatGPT?

I can't find this journal paper.

Yeah the reference was from Chat GPT



An introduction to machine learning



Moroney, L. (2021). Say hello to the "Hello, World" of machine learning. Google for Developers. https://developers.google.com/codelabs/tensorflow-1-helloworld



How about a nice game of Breakout?



DQN Breakout. (2016). Google DeepMind. https://www.youtube.com/watch?v=TmPfTpjtdgg



The goal of GPT-4

Like previous GPT models, the GPT-4 base model was trained to predict the next word in a document, and was trained using publicly available data (such as internet data)

We report the development of GPT-4, a large-scale, multimodal model which can accept image and text inputs and produce text outputs. While less capable than humans in many real-world scenarios, GPT-4 exhibits human-level performance on various professional and academic benchmarks, including passing a simulated bar exam with a score around the top 10% of test takers. GPT-4 is a Transformer-based model pre-trained to predict the next token in a document. The post-training



GPT-4 behaviour

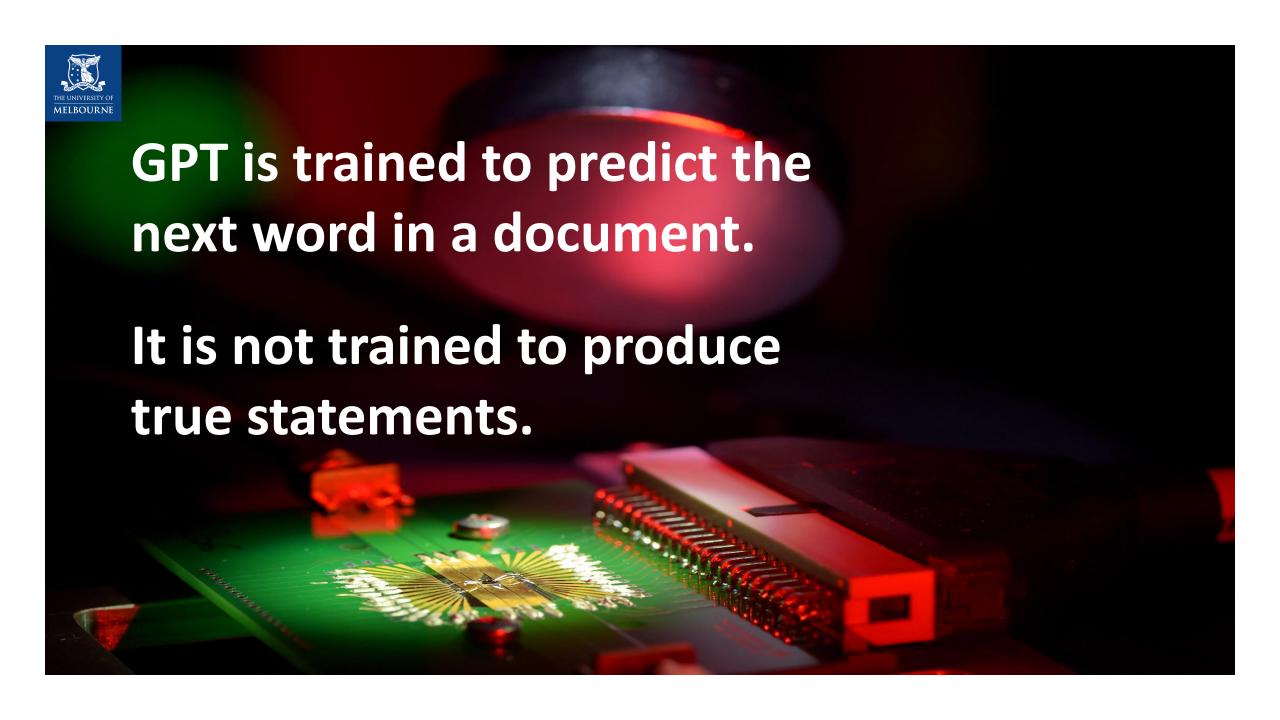


What can you do with GPT-4? (2023). OpenAI. https://www.youtube.com/watch?v=oc6RV5c1yd0



Simple goals, with enough training, leads to complex behaviour

	Breakout	GPT-4	Biological organism
Simple goal	Increase the score	Predict the next word in a document	Survive
Intelligent behaviour	Tunnelling and hitting the ball behind the wall	 General problem solving Reading, analysing or generating text Coding 	Too many to list!





Awareness, evaluation, transparency and knowledge sharing

Know Al's design limitations

Evaluate AI-generated statements

Cite Al-generated content

Share knowledge with students and colleagues



A critical thinking exercise

"I decided to have each student...
use ChatGPT to generate an
essay based on a prompt I gave
them and then 'grade' it..."

"Many students expressed shock and dismay upon learning the Al could fabricate bogus information..."

Howell, C. W. (2023). Don't want students to rely on ChatGPT? Have them use it. *Wired*. Retrieved June 27, 2023, from https://www.wired.com/story/dont-want-students-to-rely-on-chatgpt-have-them-use-it/



AI safety and ethics

Pause Giant Al Experiments: An Open Letter

We call on all Al labs to immediately pause for at least 6 months the training of Al systems more powerful than GPT-4.

Signatures

32643

Add your signature

Statement on Al Harms and Policy

Mitigating the risk of extinction from AI should be a global priority alongside other societal-scale risks such as pandemics and nuclear war.

We, the undersigned scholars and practitioners of the Conference on Fairness, Accountability, and Transparency welcome the growing calls to develop and deploy AI in a manner that protects public interests and fundamental rights. From the dangers of inaccurate or biased algorithms that deny life-saving healthcare to language models exacerbating manipulation and misinformation, our research has long anticipated harmful impacts of AI systems of all levels of complexity and capability. This body of work also shows how to design, audit, or resist AI systems to protect democracy, social justice, and human rights. This moment calls for sound policy based on the years of



Thank you

Tamara Drazic and Michael Huang Library Service Officers

