

BEYOND CHATGPT: BOOST PRODUCTIVITY WITH GEN-AI

13 NOV 2024



CONTENT

- Fun task: Image generation
- GenAI background & timeline
- Does genAI redefine search engine?
- Text generation models

ICE-BREAKING TASK

- Generate your favourite picture
- Using genAI
- Evaluation:
 - Does it match what u want?
- Show / share with others nearby
 - Why did you pick this picture?



IMAGE GENERATION

- <https://dalle.hku.hk/home>

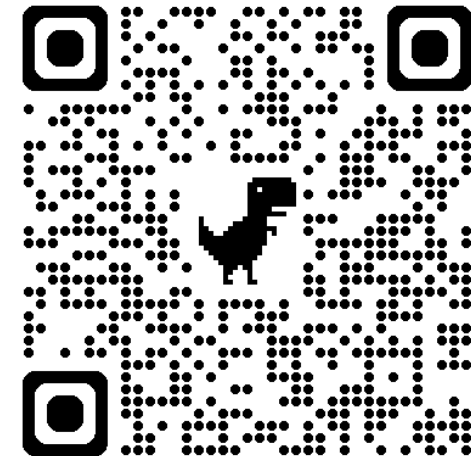
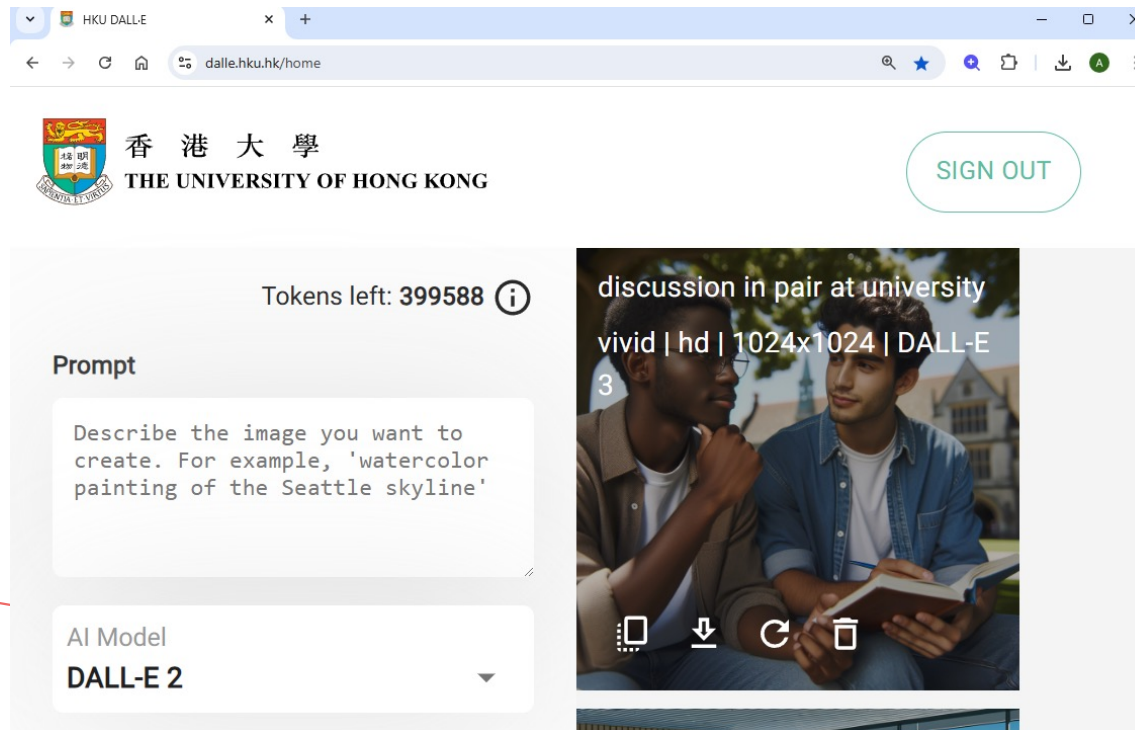


IMAGE GENERATION



BACKGROUND & TIMELINE

- Dated back to 1950
 - Markov Chain: a statistical model to generate new words based on input
 - Perceptron: the first neural network, foundation of AI
- Breakthroughs
 - Hardware computing power
 - Cloud infrastructure
 - Algorithms & model
 - Data availability to train AI models

REDEFINING SEARCH ENGINE?

- Which one is better?

A screenshot of a Google search results page for the query "news in hong kong today". The page shows the Google logo, search bar, and navigation tabs. Below the search bar, there are filters for "All", "News", "Videos", "Images", "Shopping", "Web", "Maps", and "More". There are also buttons for "Breaking", "Weather", "Live", "Stock market", "Entertainment", "Typhoon", "Bbc", and "TVB". The search results list several sources, including "South China Morning Post", "RTHK News", and "Hong Kong Free Press".

news in hong kong today - Google

google.com/search?q=news+in+hong+kong...

Google

news in hong kong today

All News Videos Images Shopping Web Maps More Tools

Breaking Weather Live Stock market Entertainment Typhoon Bbc TVB

South China Morning Post
https://www.scmp.com/news/hong-kong

Hong Kong Breaking News & Headlines
Latest **Hong Kong news**, updates, opinions and analysis, including on **Hong Kong** politics, the national security law, economy, society and weather.
[Crime in Hong Kong](#) · [Economy](#) · [Hong Kong pets welcomed...](#) · [Law and Crime](#)

RTHK News
https://news.rthk.hk/rthk/latest-news

Latest News - RTHK
Latest **News** ; F1 takes on FIA chief in open letter amid swearing row. 2024-11-08 HKT 08:18 ;
World number two Swiatek crashes out of WTA Finals. 2024-11-08 HKT 08 ...
[Local](#) · [World News](#) · [Finance](#) · [Sport](#)

Hong Kong Free Press
https://hkgfp.com

A screenshot of the Perplexity search results page for the query "news in hong kong today". The page shows the Perplexity logo, search bar, and navigation tabs. Below the search bar, there are filters for "All", "News", "Videos", "Images", "Shopping", "Web", "Maps", and "More". There are also buttons for "Breaking", "Weather", "Live", "Stock market", "Entertainment", "Typhoon", "Bbc", and "TVB". The search results list several sources, including "South China Morning Post", "RTHK News", and "Hong Kong Free Press".

perplexity.ai/search/news-in-hong-kong-today-C3uo6QQsQH6kLfn1Mgkqw

perplexity

Now

news in hong kong today

New Thread

Home Discover Library

Sources

Hong Kong set for pain after Trump victory but...
scmp · 1

Hong Kong driver arrested after vehicle hits 19-year...
scmp · 2

Hong Kong Breaking News & Headlines - South China...
scmp · 3

View 7 more

Perplexity

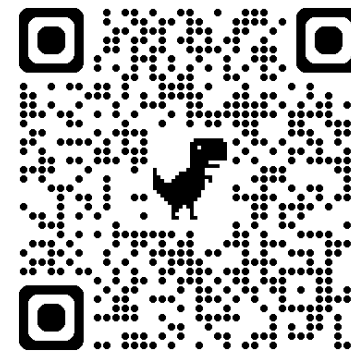
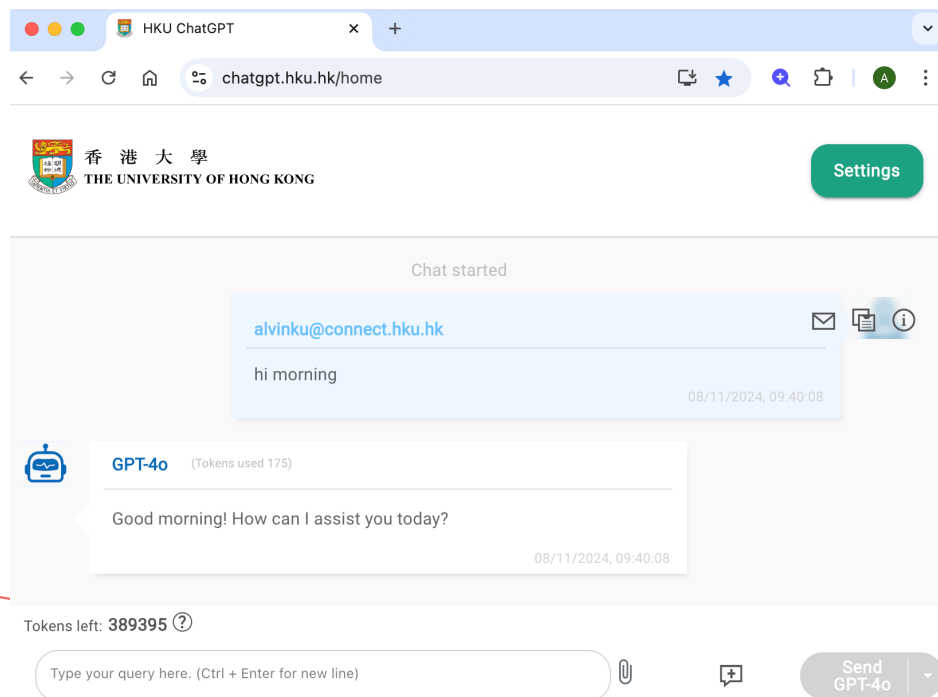
- **Trump's Election Victory and Economic Implications:** Following Donald Trump's victory in the recent U.S. presidential election, experts predict that Hong Kong may experience economic challenges due to anticipated tariff increases on Chinese goods. However, some analysts believe that Trump's transactional approach could lead to potential relief for Hong Kong's economy, as Beijing might prioritize economic stability over political issues in response to geopolitical uncertainties.
- **Traffic Incident in Yuen Long:** A 30-year-old driver has been arrested for dangerous driving after hitting a 19-year-old woman in Yuen Long, who later died from her injuries. The incident occurred while the woman was crossing the road, and she was initially taken to the hospital for

Ask follow-up

Pro

PROMPT MODELS

- <https://chatgpt.hku.hk/home>



SYSTEM MESSAGE



香港大學

THE UNIVERSITY OF HONG KONG

Settings



alvinku@connect.hku.hk

hi morning

08/11/2024, 10:22:52



GPT-3.5 (Tokens used 19)

meow meow meow

08/11/2024, 10:22:52

SYSTEM MESSAGE

Example:

You are a knowledgeable tutor. Your goal is to help the user learn and understand complex topics in a clear and engaging way. You should:

Provide well-reasoned answers, with proper references and citations.

Break down difficult concepts into smaller, easy-to-understand steps.

Encourage active learning by offering examples, questions, and exercises.

Suggest study tips, memory aids, and techniques for effective learning when relevant.

Task: try it!

PROMPT ENGINEERING

- Why prompt engineering?
 - Customized task & accuracy improvement
- Use cases
 - Summarization
 - Tone tuning
 - Creative writing
- **Task: evaluate genAI output**

PROMPT ENGINEERING

- Example:
- Summarize the following document.
- Summarize the following document in three paragraph, each covering one aspect mentioned in the document.

PARAMETERS

- Parameters: top-p, temperature
- Prompt example:
 - Creative writing
 - write a paragraph starting: Today, I am at school ...
- **Task: try it!**

MORE MODELS!

- OpenAI's o1
- Claude-3.5-Sonnet
- Google's Gemini 1.5
- Meta's Llama 3

[Feedback] Talk 2: Beyond
ChatGPT: Discovering GenAI tools
to boost academic productivity

