

Recommended AI Tools by Petri Kuittinen (Feb 2024)

Text & General Use

OpenAI ChatGPT Plus (ChatGPT-4, but also offers image analysis, image generation, data analysis, plugins)

NOTE: free accounts on OpenAI use ChatGPT-3.5, which is much weaker in reasoning tasks:

<https://chat.openai.com/>

Microsoft Copilot (best free alternative, paid Copilot Pro includes integration with Office 365)

<https://copilot.microsoft.com/>

Google Bard (okay quality, fast and has integration with YouTube, Google Maps & other Google services)

<https://bard.google.com/chat>

Free open source (often lacks Finnish support): Mistral-medium, Mixtral-8x7B, Llama-2-70B

Information Retrieval

Perplexity (finds the latest information and distills it for you, lists the sources!)

<https://www.perplexity.ai/>

Consensus AI (searches through millions of research papers to answer your questions)

<https://consensus.app/>

Programming

GitHub Copilot plugin for VS Code (free for university staff & student, GitHub Copilot Chat uses ChatGPT-4)

<https://github.com/features/copilot>

Code Smart (my own ChatGPT-4 based bot with smart defaults & quick commands for ChatGPT Plus users)

<https://chat.openai.com/g/g-70fTwmZWQ-code-smart>

Image generation

Midjourney (paid service, best for artistic images and good for photorealism, so far works with Discord)

<https://www.midjourney.com/>

Leonardo (lots of different models, PhotoReal, realtime canvas and video generation)

<https://app.leonardo.ai/>

Bing Image Creator (15 free credits per day, based on OpenAI Dall-E 3, the best prompt adherence)

<https://www.bing.com/images/create>

Stable Diffusion is extremely versatile & open source, you can find a lot of SD 1.5 and SD XL based models:

<https://civitai.com/models>

Video Generation

RunwayML (text-to-video, image-to-video, video editing as well)

<https://app.runwayml.com/>

Text to Speech

PlayHT (high quality human sounding voice)

<https://play.ht/>

Prompt Guide by Petri Kuittinen (Feb 2024)

Be direct and precise in your prompt. Define the form of output you want (list, table, blog post, article). Put the most important thing to the beginning of the prompt and avoid extremely long prompts.

These example prompts were tested with ChatGPT-4. You can of course change the topic and language.

Explain circular economy using concrete examples and simple language.

How much waste is generated in Finland in a year? How large percentage of waste is being recycled?

Why is it so difficult to recycle Android phones?

Create 10 multiple choice questions related to circular economy. Each question should have 5 choices and only one of those choices is correct. Put correct answers to the end.

Generate 5 open questions related to circular economy. Give a concise answer to all those questions.

Act as an expert and teacher of circular economy. Assume, I know nothing about the topic. Ask me open questions related to the topic, until I type QUIT. I answer incorrectly, correct my answer.

Generate Finnish - English glossary related to circular economy. Include 15 most common terms and their explanations in English.

Generate fill-in-the-gaps assignment related to recycling in Finland. Put correct answers to the end.

Write a how-to article about recycling waste at home. Tell what belongs to each recycling bin.

I have a plush toy made out of recycled materials called Jami. To which target groups I could market Jami? Invent a meme and marketing slogan for each target group.

Programming

When prompting for programming, be specific. You can state the libraries and classes you want to use. Remember to prompt to add error checking and protection against most common vulnerabilities.

Generate a simple HTML5 game to teach recycling. The game should have an internal list of 30 different named objects and 7 recycle bins. Organic waste, Paper, Glass, Metal, Plastic, Electronic waste and Miscellaneous. After pressing start button, the player is presented with 10 random objects from the list of 30 different objects. The player's aim is to drag and drop the waste to correct recycling bin. If the user drags and drops the waste to the correct bin, he gets 1 point and that object is removed. Allow users to drag and drop the waste to wrong basket. The object is then removed, but the user is rewarded with -1 point. At the end he is given score and replay button. Don't use alert or prompt. Generate everything, JavaScript and CSS included, in one file and make it responsive, secure and mobile friendly. Reply only with code.

Generate the entire main HTML5 page for a company, which offers consulting services in sustainable development. Invent a slogan and create a nice-looking page. Use modern practices and make the web page mobile optimized. Respond with code only.

Rewrite using the latest version of Bootstrap.

Image Generation

[adjectives] [subject] [verb] [object] [location] [lighting] [camera setting]

a cute robot collecting waste in a city at sunset

black and white illustration of a RPG warrior with all its gear next to it