AI Drawing Resources

The current rapid development of various types of AI drawing tools provides researchers with powerful aids to freely generate a large number of high-quality images from verbal descriptions, which greatly enriches the sources of research images. These tools are based on deep learning algorithms to realize the conversion from text to image, enabling us to efficiently obtain the required research images.

This document summarizes some AI drawing tools and related resources suitable for assisting in research image generation, through which researchers can quickly obtain images of specific styles or contents to enrich the illustrations in academic research.

1. Bing Image Generation *(Enough to generate flowcharts)*

Pros: Free.

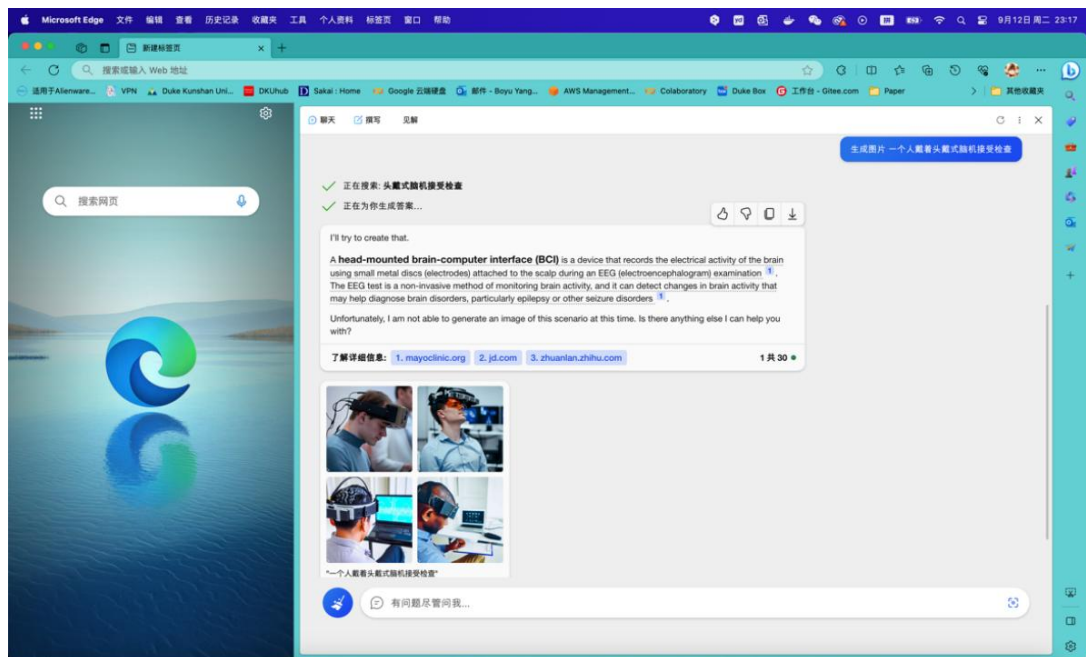No requirements for computer configuration.

Easy to operate;

Cons: Requires internet connection.

High requirements for the network environment (VPN required).

Poor image quality

Using instructions:

1. Connect to the extranet VPN (DKU VPN can not access)

2. Open the edge browser, click on the upper right corner of the chat robot

3. Enter "Generate Picture" + content description

2. Stable diffusion

Pros: Free
High customizability,
Rich community of open source projects,
High quality of generated images
No network required

Cons: Running locally
Requires a certain computer configuration (MacBook can not be used)
Relatively complex operation and high learning costs

Installation instructions:
https://www.bilibili.com/video/BV1iM4y1y7oA?vd_source=571dc997911b8757008f871b4e0da84c
Using instructions:
https://www.bilibili.com/video/BV1As4y127HW?vd_source=571dc997911b8757008f871b4e0da84c

3. Midjourney

Pros: No configuration required.
Relatively simple operation.
High quality images.

Cons: Payment required.
Requires network and high requirements for the environment (VPN is required.);
Using instructions:
https://www.bilibili.com/video/BV1ZN411U7vx?vd_source=571dc997911b8757008f871b4e0da84c

4. Others
AI painting technology is being iteratively updated at a high rate, with new tools and products emerging all the time. What I've included in the document reflects just a few typical tools, but the field is growing rapidly, and more amazing new applications will emerge that I hope to explore with you.