Generating a comic strip by A single word

Chatty Tutor Team

Introduction

- People in our team have different backgrounds, e.g. software engineer, teacher, college student

- **<u>Teammates</u>**

  - Shawn Tan, Software Engineer, Team Leader

  - Eada Zhang, Product Designer

  - Ruisi Wang, UI Designer

- **<u>Location</u>**

  Singapore

What Problem we solve?

- Our target customers: People who want to learn foreign languages or pass international exams and are really eager to remember vocabulary.

- What problem exists?

  - The traditional ways to remember foreign vocabulary are boring

- Why we choose AIGC?

  - AIGC technologies make learning more interactive and fun

Our solution

- Generate a comic story from a single word to establish the deep connection between the new word and people's memory

- Using an LLM like Claude for writing the desired story

- Using Stable Diffusion to generate some pictures for the story

Technical details

Generating a story and stable diffusion prompts

- The quality of the story relies on Claude's creativity

- We use a Chain of steps to divide the task

  - Step 1: I give you a word; you generate a vivid story. The main idea of the story is to explain the word so that the person who has read it can make a connection with the word in their head and remember the word by understanding it.

  - Step 2: Please break this story into smaller pieces, each piece should not exceed 60 words

  - Step 3: Generate a detailed stable diffusion prompt for every part of story

Technical details
Using stable diffusion

- We deployed a stable diffusion service on A10 GPU server

  - Using the web ui version from GitHub with api flag on

- We wrote a simple Flask http service to:

  - Receive the upcoming requests for generating image

  - Upload the image generated by Stable Diffusion to Cloudflare Image service

Product Demo

- Go visit https://antropic-hackthon-chattytutor.vercel.app/

Business Value

- We are planning to build a mobile app and then publish it to App Store.

Thanks very much!