

GPT Survey: A Programmer's Perspective

Lesson 1: Prompt Engineering

Yu Zehan

Intel FLEX

May 8, 2023

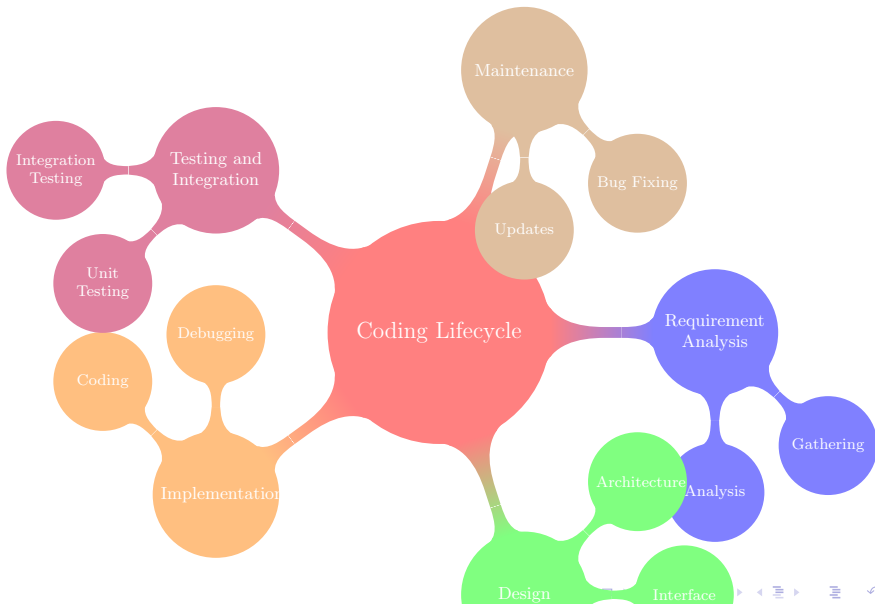
Outline

- 1 Lifecycle of Coding
- 2 Which GPT to use?
- 3 Prompt Engineering: Principles and Techniques
- 4 Useful Extensions and Plugins
- 5 Ecosystem
- 6 Resources of Learning and Development
- 7 Limitations
- 8 References

Lessons Mindmap



Lifecycle of Coding



PGF/TikZ Manual.

- PDF:

<http://mirrors.ctan.org/graphics/pgf/base/doc/pgfmanual.pdf>

- Online Doc: <https://tikz.dev/>

- GitHub: <https://github.com/pgf-tikz/pgf>

References I

1. PGF/TikZ Manual.
 - PDF: <http://mirrors.ctan.org/graphics/pgf/base/doc/pgfmanual.pdf>
 - Online Doc: <https://tikz.dev/>
 - GitHub: <https://github.com/pgf-tikz/pgf>
2. SPQA: The AI-based Architecture That'll Replace Most Existing Software.
 - <https://danielmiessler.com/blog/spqa-ai-architecture-replace-existing-software>
3. Chat GPT For Programming: 100+ Coding Prompts For Chat GPT.
 - <https://www.greataiprompts.com/chat-gpt/best-coding-prompts-for-chat-gpt>
4. Chat-GPT Cheat Sheet V2 : coolguides.
 - Reddit: https://www.reddit.com/r/coolguides/comments/12ouw8o/chatgpt_cheat_sheet_v2
 - Cheatsheet: <https://i.redd.it/eunvmybl9cua1.png>
5. StarCoder: A State-of-the-Art LLM for Code.
 - HuggingFace: <https://huggingface.co/bigcode/starcoder>
 - GitHub: <https://github.com/bigcode-project/starcoder>
 - Blog: <https://huggingface.co/blog/starcoder>
 - Paper: <https://drive.google.com/file/d/1cN-b9GnWtHzQRoE7M7gAEyivY0kl4BYs/view>
6. Harnessing the Power of LLMs in Practice: A Survey on ChatGPT and Beyond.
 - arXiv: <https://arxiv.org/abs/2304.13712>
 - GitHub: <https://github.com/mooler0410/llmspracticalguide>
7. ChatGPT Prompt Engineering for Developers.
 - Official Course: <https://www.deeplearning.ai/short-courses/chatgpt-prompt-engineering-for-developers/>
 - Notebooks: <https://github.com/datawhalechina/prompt-engineering-for-developers/tree/main>
 - Bilibili: <https://www.bilibili.com/video/BV1No4y1t7Zn>
8. FlowGPT — the best ChatGPT prompts&AI prompts community.
 - <https://flowgpt.com/>

References II

9. awesome-chatgpt-prompts: This repo includes ChatGPT prompt curation to use ChatGPT better.
 - [GitHub](https://github.com/f/awesome-chatgpt-prompts): <https://github.com/f/awesome-chatgpt-prompts>
 - [Webpage](https://prompts.chat/): <https://prompts.chat/>
 - [HuggingFace](https://huggingface.co/datasets/fka/awesome-chatgpt-prompts): <https://huggingface.co/datasets/fka/awesome-chatgpt-prompts>
10. The Art of ChatGPT Prompting: A Guide to Crafting Clear and Effective Prompts.
 - <https://app.gumroad.com/d/e2e51298d50b8c1bd6c6950a6d11a772>

