

# GPT Survey: A Programmer's Perspective

## Lesson 1: Prompt Engineering

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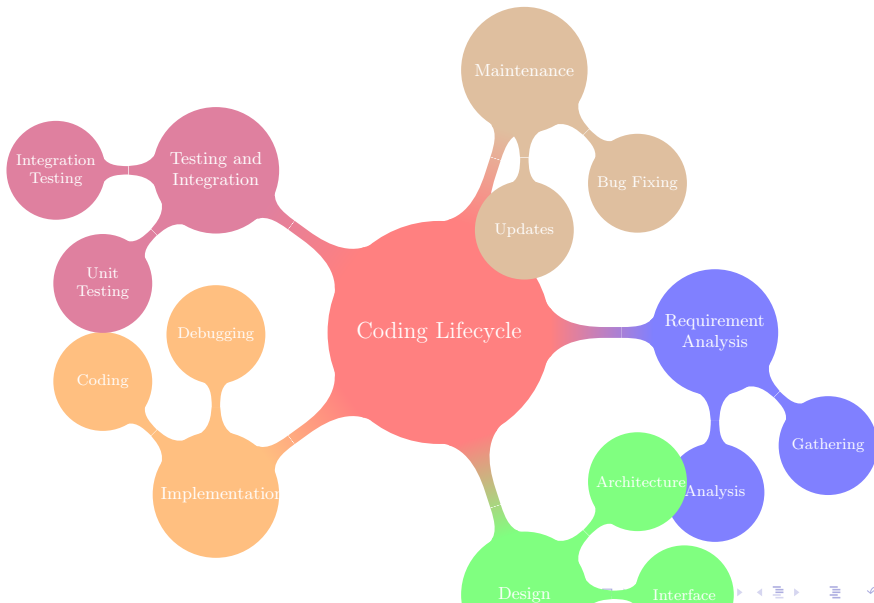
# Outline

- 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](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.
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  - 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>

