

Langchain = ?

Huggingface

- ① How to use OpenAI via Langchain
- ② Prompt Templating
- ③ Chains
- ④ Agent  $\Rightarrow$  SerpAPI  
 $\hookrightarrow$  Google Search API
- ⑤ Memory
- ⑥ Document Loader

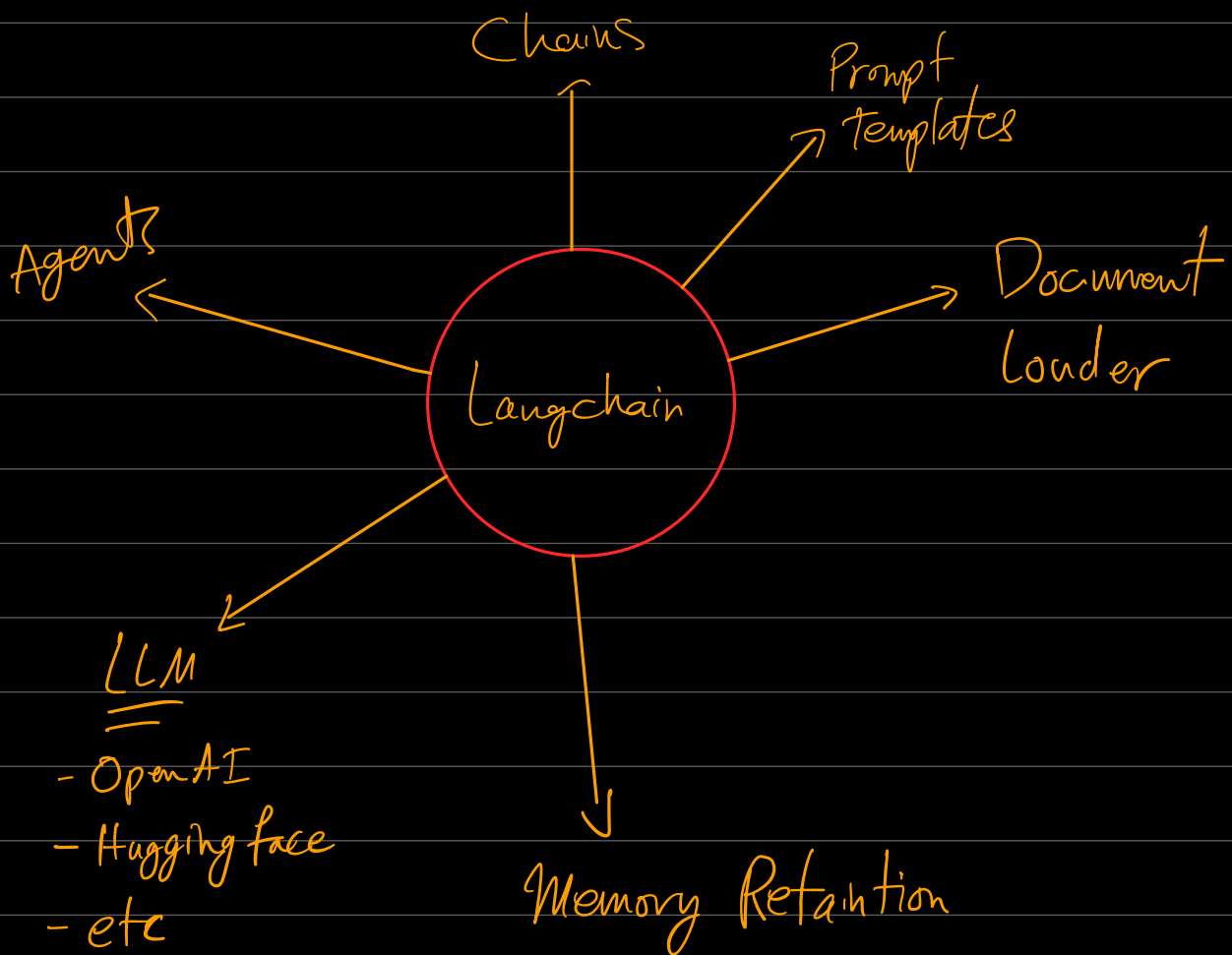
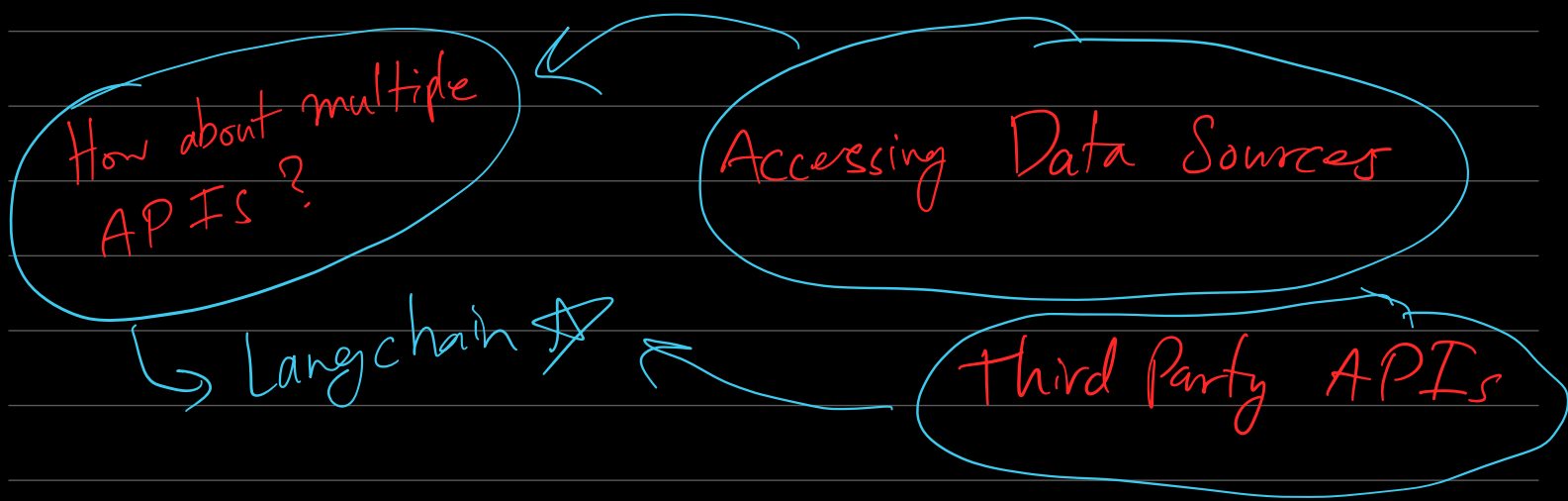
Limitations of OpenAI API

- ① Closed Source Models
- ② GPT Limited to 2021, 2023  
trained until a certain time

Requires  
Budget

$xyz \Rightarrow$  LLM

$\hookrightarrow$  Open Source  
LLMs



Wrapper on top of OpenAI API

