



# LangChain 101 Lab Guide

## LAB 1 - Introduction to LangChain

- Required: OpenAI API Key: (keep this a secret)
- Required: Google account
- Use free Colab instance:  
<https://colab.research.google.com>
- Repo:  
[https://github.com/colinmcnamara/austin\\_langchain/](https://github.com/colinmcnamara/austin_langchain/)
- Notebook:  
[https://github.com/colinmcnamara/austin\\_langchain/blob/main/labs/Langchain\\_Introduction/Langchain\\_Introduction.ipynb](https://github.com/colinmcnamara/austin_langchain/blob/main/labs/Langchain_Introduction/Langchain_Introduction.ipynb)

## LAB 2 - Simple Ai web interfaces with Streamlit

- Required: Google account
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- Notebook:  
[https://github.com/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_101/101-4-streamlit\\_introduction.ipynb](https://github.com/colinmcnamara/austin_langchain/blob/main/labs/LangChain_101/101-4-streamlit_introduction.ipynb)

## LAB 2.1 - Accessing Chat Model via API & Web Interface

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- Notebook:  
[https://colab.research.google.com/github/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_101/101-1-streamlit\\_streaming.ipynb](https://colab.research.google.com/github/colinmcnamara/austin_langchain/blob/main/labs/LangChain_101/101-1-streamlit_streaming.ipynb)

## LAB 3 - Local LLM with Mistral and Streamlit

- Required: No OpenAI key required!

- Required: Google account
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- Notebook:  
[https://github.com/colinmcnamara/austin\\_langchain/blob/main/labs/LangChain\\_101/Misc/101-1-streamlit\\_ollama\\_streaming.ipynb](https://github.com/colinmcnamara/austin_langchain/blob/main/labs/LangChain_101/Misc/101-1-streamlit_ollama_streaming.ipynb)

## About Us - Austin LangChain Users Group

- Austin LangChain User Group
  - Discord - <https://discord.gg/SDwD254V>
  - Github - [https://github.com/colinmcnamara/austin\\_langchain](https://github.com/colinmcnamara/austin_langchain)
  - Meetup - <https://www.meetup.com/austin-langchain-ai-group/>
  - Twitter - [@AustinLangChain](https://twitter.com/AustinLangChain)
- Monthly in-person & remote meetings & workshops
- Connect with other early adopters
- Learn, Share, Grow



