

langchain-ai / langchain-academy

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lc-chad

Re-add .env.example file

59e8dcd · 3 days ago

.devcontainer	Feature: add python/Jupyter dev cont...	6 months ago
module-0	Minor typo fix in basics.ipynb	5 months ago
module-1	Re-add .env.example file	3 days ago
module-2	Merge branch 'main' of <a href="#">https://github...</a>	last month
module-3	Add prebuilt to notebooks	3 months ago
module-4	Update working	3 days ago
module-5	Update env vars to use LANGSMITH_ ...	2 months ago
module-6	Update env vars to use LANGSMITH_ ...	2 months ago
.gitignore	Merge pull request <a href="#">#79</a> from langchai...	5 months ago
README.md	Module 6 does not have a /studio fol...	2 weeks ago
requirements.txt	Add prebuilt to relevant modules	3 months ago

README



LangChain Academy

## Introduction

Welcome to LangChain Academy! This is a growing set of modules focused on foundational concepts within the LangChain ecosystem. Module 0 is basic setup and Modules 1 - 4 focus on LangGraph, progressively adding more advanced themes. In each module folder, you'll see a set of notebooks. A LangChain Academy accompanies each notebook to guide you through the topic. Each module also has a `studio` subdirectory, with a set of relevant graphs that we will explore using the LangGraph API and Studio.

## Setup

### Python version

To get the most out of this course, please ensure you're using Python 3.11 or later. This version is required for optimal compatibility with LangGraph. If you're on an older version, upgrading will ensure everything runs smoothly.

```
python3 --version
```



### Clone repo

```
git clone https://github.com/langchain-ai/langchain-academy.git
$ cd langchain-academy
```



## Create an environment and install dependencies

### Mac/Linux/WSL

```
$ python3 -m venv lc-academy-env
$ source lc-academy-env/bin/activate
$ pip install -r requirements.txt
```



### Windows Powershell

```
PS> python3 -m venv lc-academy-env
PS> Set-ExecutionPolicy RemoteSigned -Scope Process
PS> lc-academy-env\scripts\activate
PS> pip install -r requirements.txt
```



## Running notebooks

If you don't have Jupyter set up, follow installation instructions [here](#).

```
$ jupyter notebook
```



## Setting up env variables

Briefly going over how to set up environment variables. You can also use a `.env` file with `python-dotenv` library.

## Mac/Linux/WSL

```
$ export API_ENV_VAR="your-api-key-here"
```



## Windows Powershell

```
PS> $env:API_ENV_VAR = "your-api-key-here"
```



## Set OpenAI API key

- If you don't have an OpenAI API key, you can sign up [here](#).
- Set `OPENAI_API_KEY` in your environment

## Sign up and Set LangSmith API

- Sign up for LangSmith [here](#), find out more about LangSmith
- and how to use it within your workflow [here](#), and relevant library [docs](#)!
- Set `LANGCHAIN_API_KEY`, `LANGCHAIN_TRACING_V2=true` in your environment

## Set up Tavily API for web search

- Tavily Search API is a search engine optimized for LLMs and RAG, aimed at efficient, quick, and persistent search results.
- You can sign up for an API key [here](#). It's easy to sign up and offers a very generous free tier. Some lessons (in Module 4) will use Tavily.
- Set `TAVILY_API_KEY` in your environment.

## Set up LangGraph Studio

- LangGraph Studio is a custom IDE for viewing and testing agents.
- Studio can be run locally and opened in your browser on Mac, Windows, and Linux.
- See documentation [here](#) on the local Studio development server and [here](#).
- Graphs for LangGraph Studio are in the `module-x/studio/` folders.
- To start the local development server, run the following command in your terminal in the `/studio` directory each module:

```
langgraph dev
```



You should see the following output:

```
- 🚀 API: http://127.0.0.1:2024
- 🌐 Studio UI: https://smith.langchain.com/studio/?baseUrl=http://127.0.0.1:2024
- 📖 API Docs: http://127.0.0.1:2024/docs
```



Open your browser and navigate to the Studio UI: `https://smith.langchain.com/studio/?baseUrl=http://127.0.0.1:2024`.

- To use Studio, you will need to create a .env file with the relevant API keys
- Run this from the command line to create these files for module 1 to 5, as an example:

```
for i in {1..5}; do
  cp module-$i/studio/.env.example module-$i/studio/.env
  echo "OPENAI_API_KEY=\"$OPENAI_API_KEY\"" > module-$i/studio/.env
done
echo "TAVILY_API_KEY=\"$TAVILY_API_KEY\"" >> module-4/studio/.env
```



## Releases

No releases published

## Packages

No packages published

## Contributors 29



[+ 15 contributors](#)

## Languages

