

Programs and Environment



1. Install Python



or



Cursor

2. Install IDE



3. Install git



4. Config & Get Course Material



5. Set up Environment

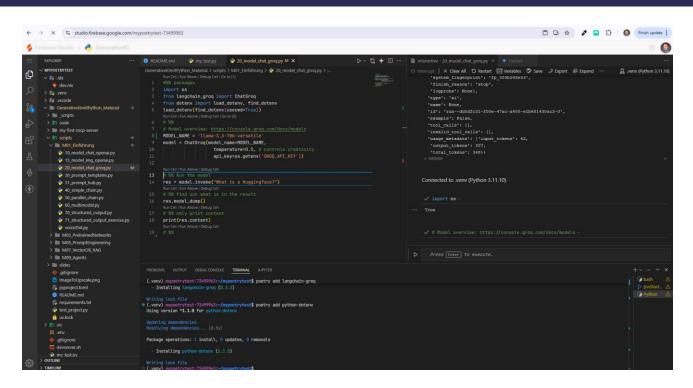


gollnickdata.de

Programs and Environment: Cloud



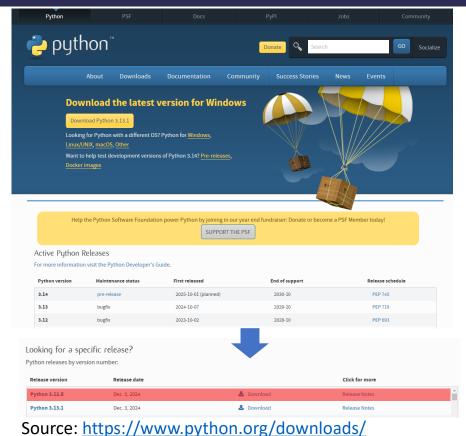
Allows coding in the browser



URL: https://studio.firebase.google.com/mypoetrytest-73499963



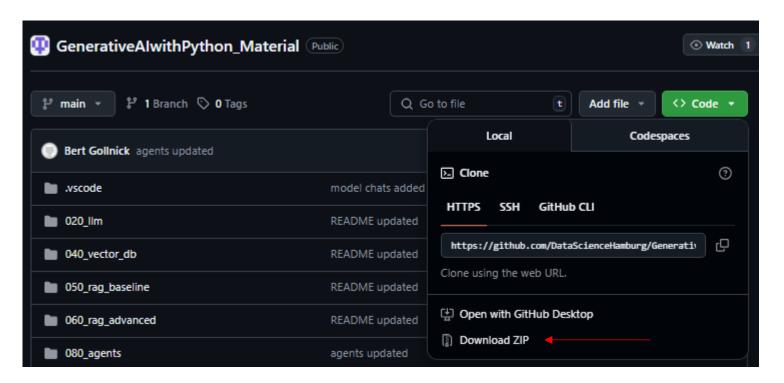
Python Installation







Git – Option 1 (beginner)





Git – Option 2 (advanced)

- 1. Download Git and Install: https://git-scm.com/downloads
- 2. Configure git

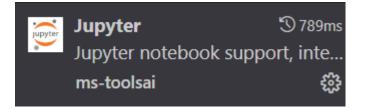
```
git config --global user.name "John Doe"
git config --global user.email johndoe@example.com
```

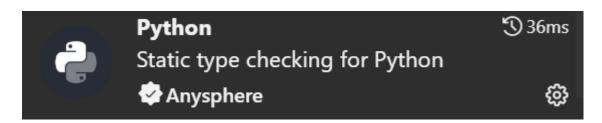
3. Clone Repo:

git clone https://github.com/DataScienceHamburg/GenerativeKlmitPython_Material.git



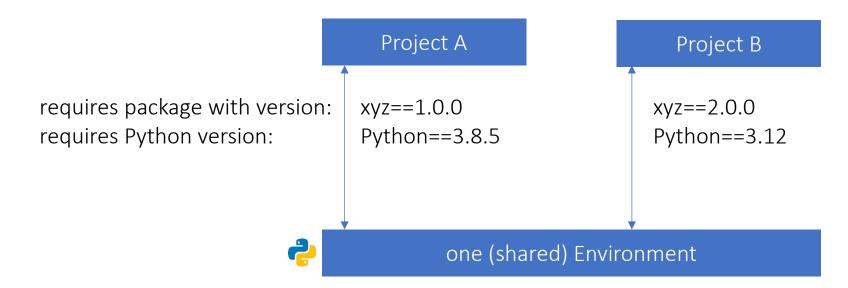
VS Code Extension







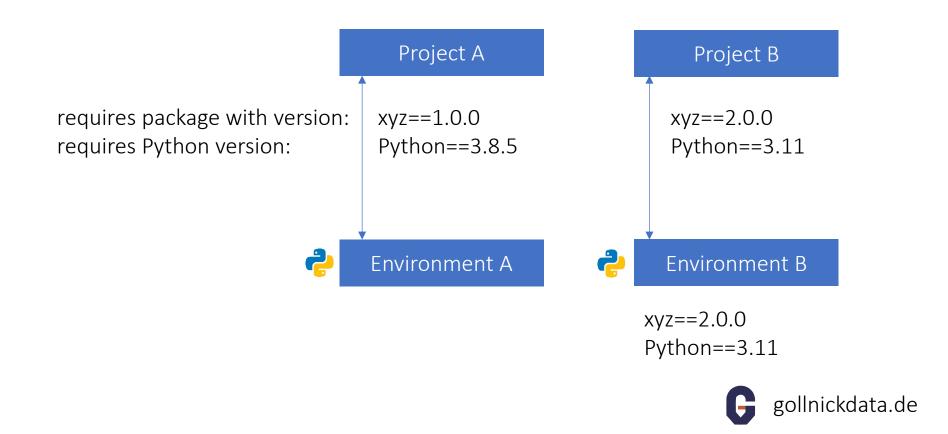
Environment: Problem



package xyz can be available only in one version Python only available in one version



Environment: Solution



Python Environment

An Environment is an isolated bundle of packages and Python versions.

It allows to

- avoid conflicts of packages
- easy setup for a project on another computer
- Available Environments:

Conda (requires Anaconda installation)

venv

Poetry

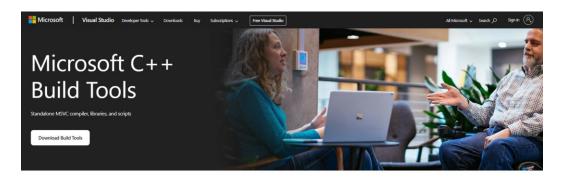
uv



Python Environment – venv

Windows: install C++ Build Tools

Mac: use faiss-cpu



The Microsoft C++ Build Tools provides MSVC toolests via a scriptable, standalone installer without Visual Studio. Recommended if you build C++
libraries and applications targeting Windows from the command-line (e.g. as part of your continuous integration worldlow), Includes tools shipped in
Visual Studio 2015 Update 3, Visual Studio 2017, Visual Studio 2019, and latest version of Visual Studio 2022.

Walkthrough: Compiling a Native C++ Program on the Command Line →

How you can use the Build Tools



OpenAl API Key

