System Setup

System Setup

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

2. Configure git

    ĝîʧ çộŋğîĝ   ĝĭộčắĭ ụşês ŋắņê Kộḫŋ Dộê

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3. Clone Repo:
https://github.com/DataScienceHamburg/...

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System Setup

VS Code Extension

Jupyter 🕓 789ms
Jupyter notebook support, inte…
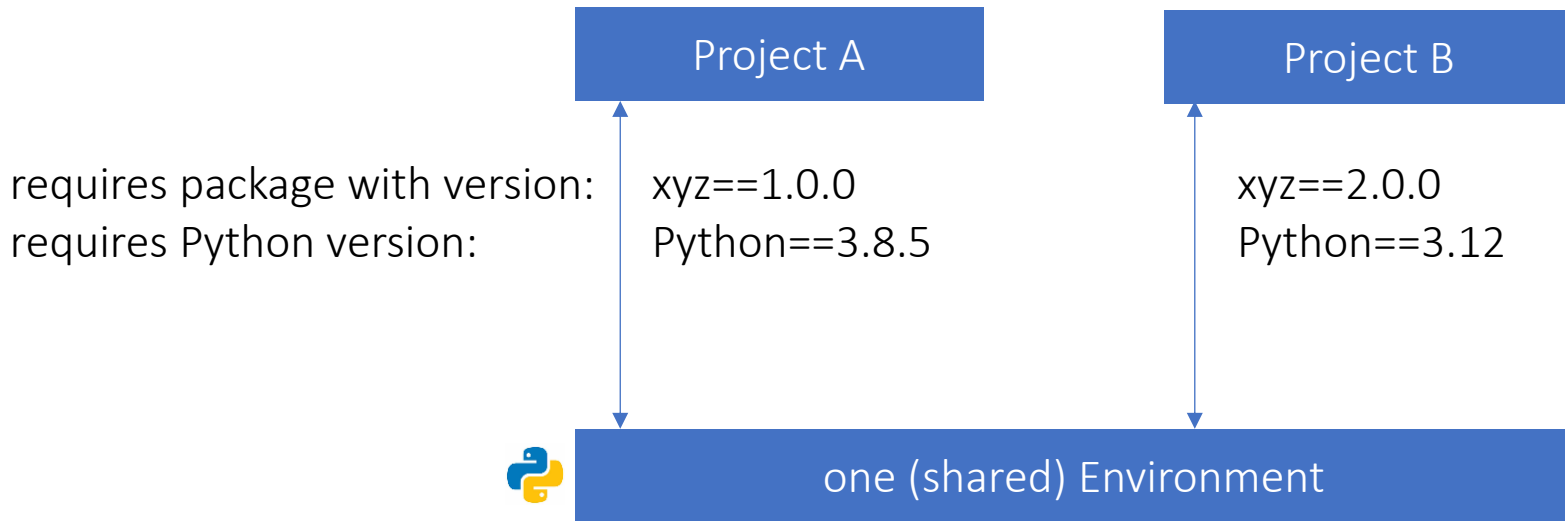ms-toolsai ⚙

Pylance 🕓 552ms
A performant, feature-rich lang…
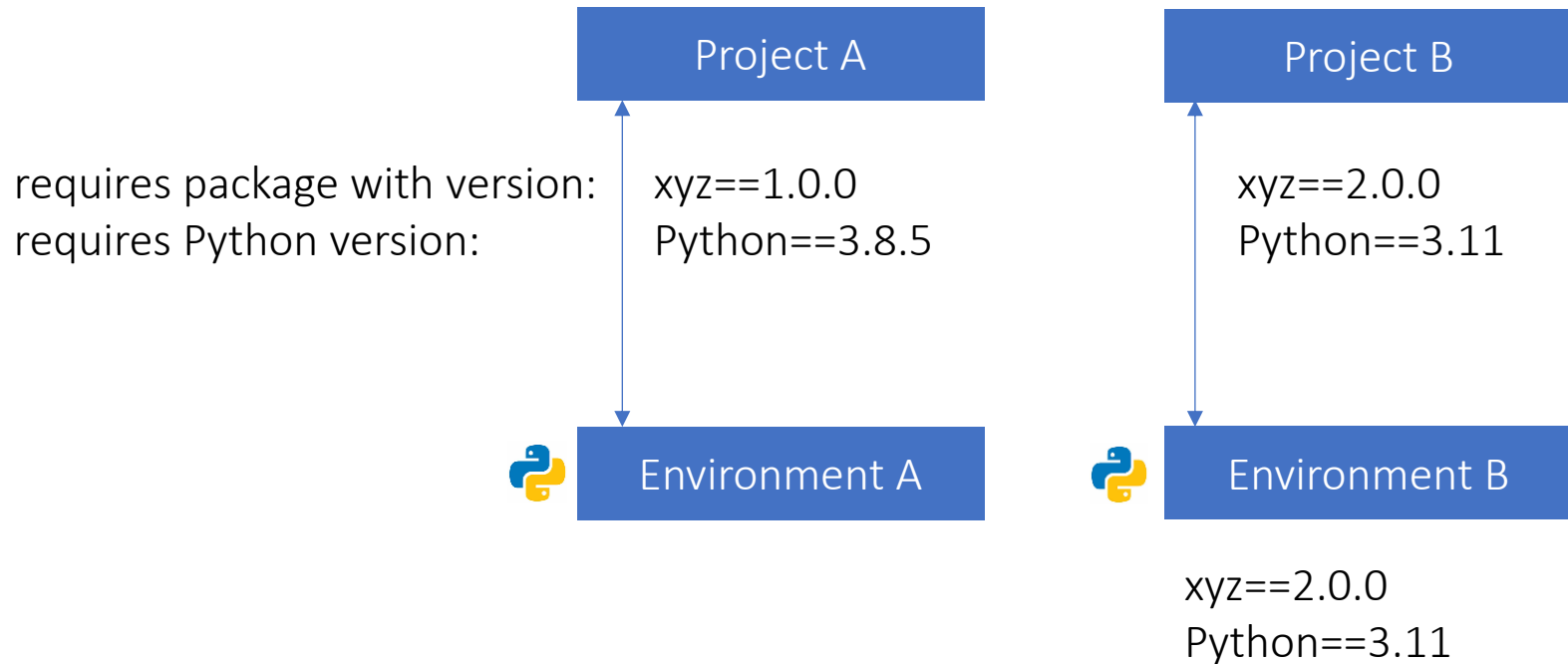ms-python ⚙

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System Setup

Project A

Project B

requires package with version:
requires Python version:

xyz==1.0.0
Python==3.8.5

xyz==2.0.0
Python==3.12

one (shared) Environment

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

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System Setup

Project A

Project B

requires package with version:
requires Python version:

xyz==1.0.0
Python==3.8.5

xyz==2.0.0
Python==3.11

Environment A

Environment B

xyz==2.0.0
Python==3.11

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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

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System Setup

- use **uv** as environment
- set up from scratch

pip install uv   or

uv init

uv python install 3.12

uv venv

.venv\Scripts\activate

uv add langchain

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System Setup

OpenAI API Key

System Setup

Programs and Environment

1. Install Python
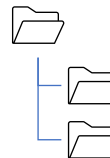
Visual Studio Code   or   Cursor

2. Install IDE

3. Install git

4. Get Course Material

5. Set up Environment

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