

System Setup



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System Setup

Git

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

2. Configure git

```
git config --global user.name "Köhler Dö"
git config --global user.email "kdoe@yarrle.com"
```

3. Clone Repo:

[https://github.com/DataScienceHamburg/...](https://github.com/DataScienceHamburg/)



System Setup

VS Code Extension



Jupyter

🕒 789ms

Jupyter notebook support, inte...

ms-toolsai



Pylance

🕒 552ms

A performant, feature-rich lang...

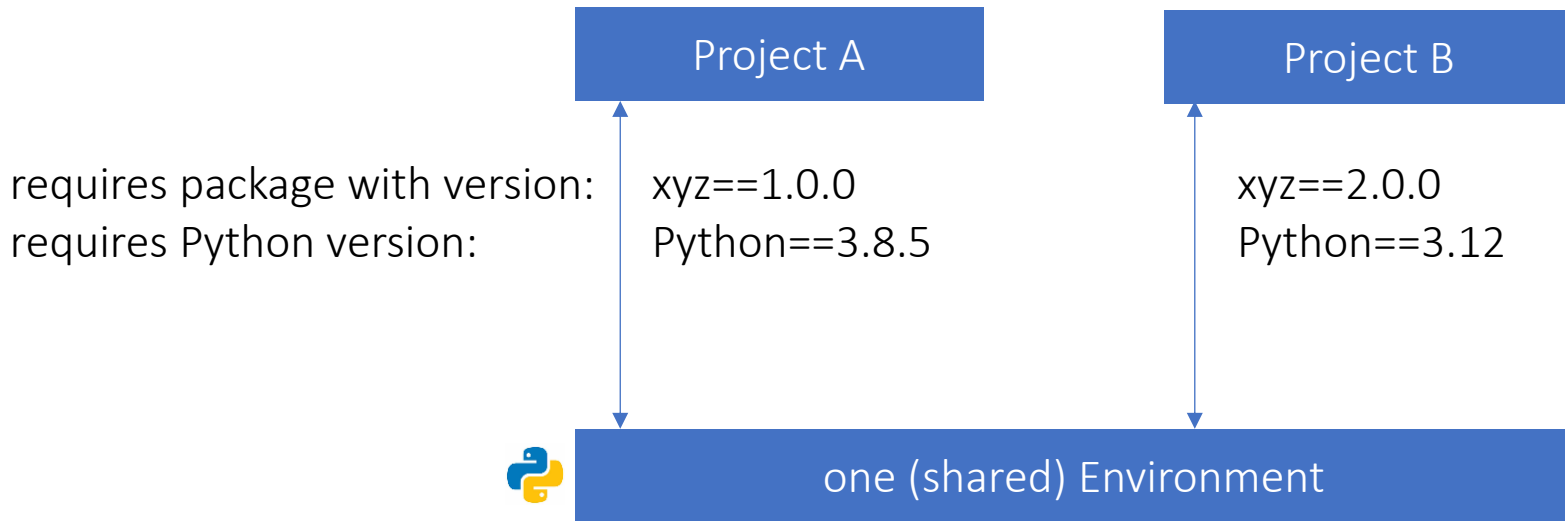
ms-python



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System Setup

Environment: Problem

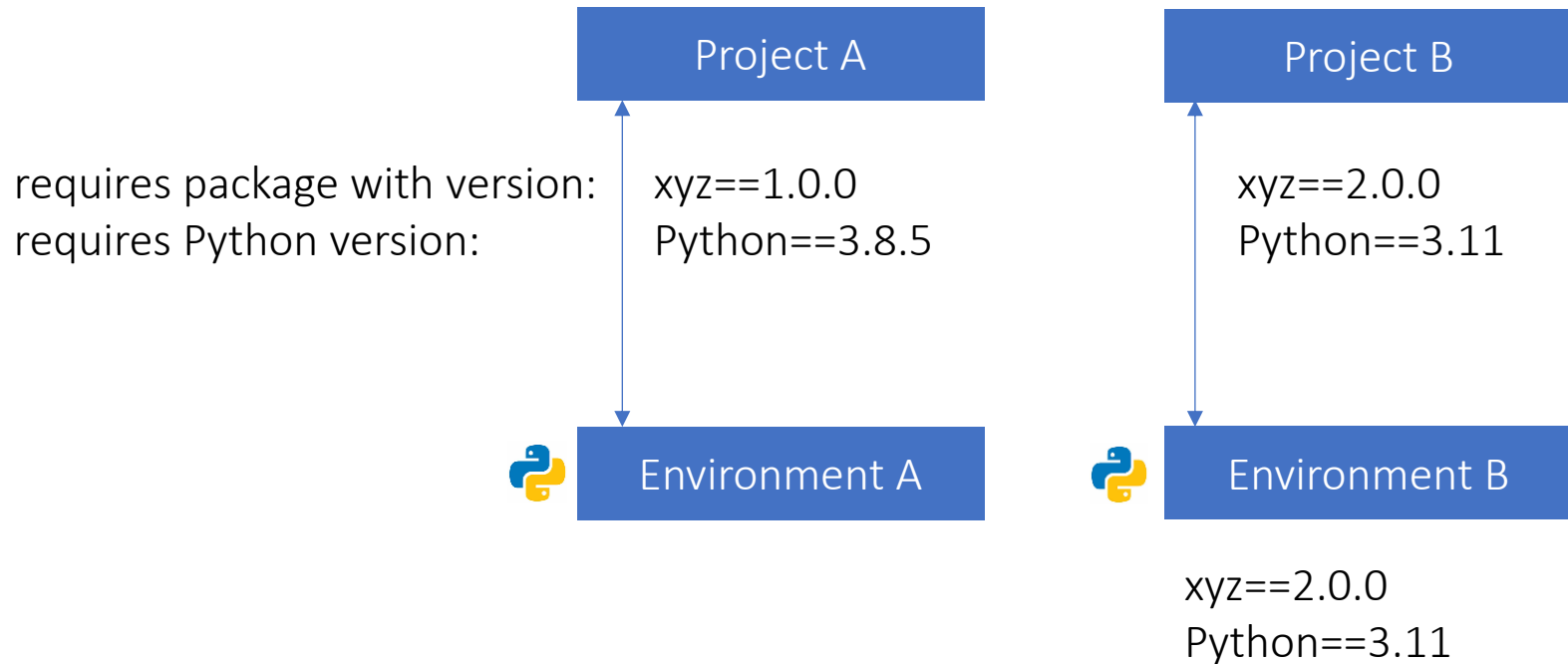


package xyz can be available only in one version
Python only available in one version



System Setup

Environment: Solution



System Setup

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



System Setup

Python Environment

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

pip install uv

or

```
python -m pip install uv
```

uv init

uv python install 3.12

uv venv

.venv\Scripts\activate

uv add langchain



System Setup

OpenAI API Key

Personal

Course_VectorDbRagAgents

Playground

Dashboard

SETTINGS

Your profile

ORGANIZATION

General

API keys

Admin keys

Members

Projects

Billing

Limits

Usage

Data controls

Verifications

PROJECT

General

API keys

Members

Limits

Billing

Overview

Payment methods

Billing history

Preferences

Pay as you go

Credit balance ⓘ

\$7.75

Auto recharge is off

When your credit balance reaches \$0, your API requests will stop working. Enable automatic recharge to automatically keep your balance topped up.

Enable auto recharge

Add to credit balance

Cancel plan

Payment methods

Add or change payment method

Preferences

Manage billing information

Pricing

View pricing and FAQs

Billing history

View past and current invoices

Usage limits

Set monthly spend limits

Create new secret key

Owned by

You

Service account

This API key is tied to your user and can make requests against the selected project. If you are removed from the organization or project, this key will be disabled.

Name

Optional

My Test Key

Project

Select project

Permissions

All

Restricted

Read Only

Cancel

Create secret key

System Setup

Programs and Environment



1. Install Python



Visual Studio Code

or



Cursor

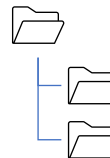
2. Install IDE



3. Install git



4. Get Course Material



5. Set up Environment



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