

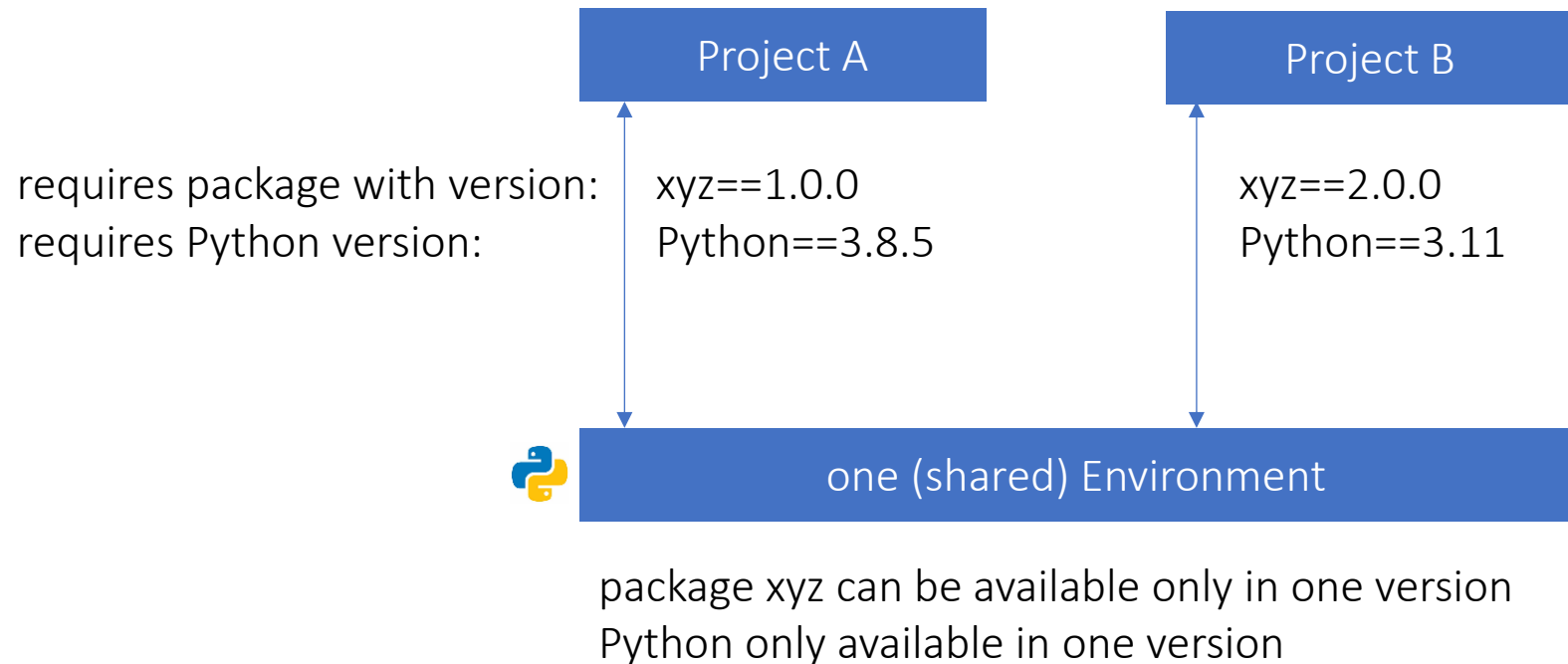
Environments



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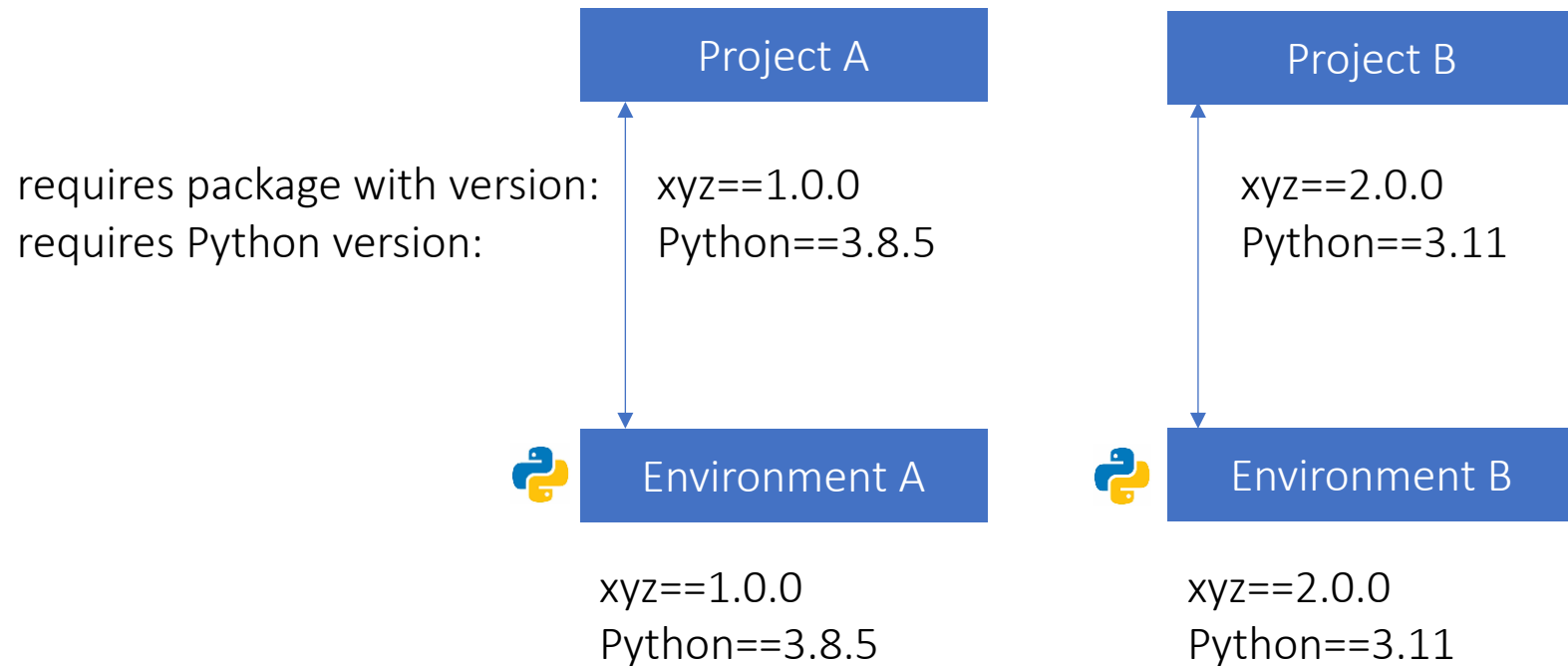
Environments

Problem



Environments

Solution



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Environments

Introduction

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



Environments

Create a virtual environment

- Setting up a new environment with venv:

```
python -m venv venv
```

- Activate environment
 - Navigate to subfolder Scripts and run activate.bat (windows cmd) or activate.ps1 (Powershell)

```
\venv\Scripts>activate.bat
```

- Check that environment is active (environment shown in brackets):

```
(venv) C:\Temp\
```

- Install packages with pip install into this new environment, e.g.

```
pip install openpyxl
```



Environments

Save and Restore packages

- Check installed packages: `pip freeze`

- Sample output:

```
et-xmlfile==1.1.0
openpyxl==3.0.10
```

- Write packages to file: `pip freeze > requirements.txt`

- Sample:

```
requirements.txt
1  et-xmlfile==1.1.0
2  openpyxl==3.0.10
```



Environments

Set up environment on a new computer

- Follow the steps on how to “create” an environment

```
python -m venv venv
```

```
\venv\Scripts>activate.bat
```

- Install packages from requirements.

```
pip install -r requirement.txt
```

