

# Virtual Environments and Project Dependencies



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# Overview



## Virtual environments

- Recap
- Pycharm
- Visual Studio Code

## Project dependencies

- Deployed by yourself
- Distribute to others
- Dependency resolution
- Conflicts



# Demo



## Virtual environments recap

- Create
- Activate
- Deactivate
- Anatomy
- Requirements file



# Demo



## Virtual environments and Pycharm



# Demo



**Virtual environments and Visual Studio  
Code**



## Demo



### Managing dependencies for applications

- Deployed by yourself
- Requirements file
- Splitting dependencies by situation



## Demo



### Managing dependencies for libraries

- Not deployed by yourself
- Distributed to others
- Pyproject.toml file
- Don't pin versions



# Demo



## Understanding dependency resolution



# Demo



## Handling dependency conflicts



# Summary



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**Up Next:**

# **Beyond pip: pipenv and poetry**

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