Christian-Albrechts-Universität zu Kiel

JupterNotebook, Package management using Pip

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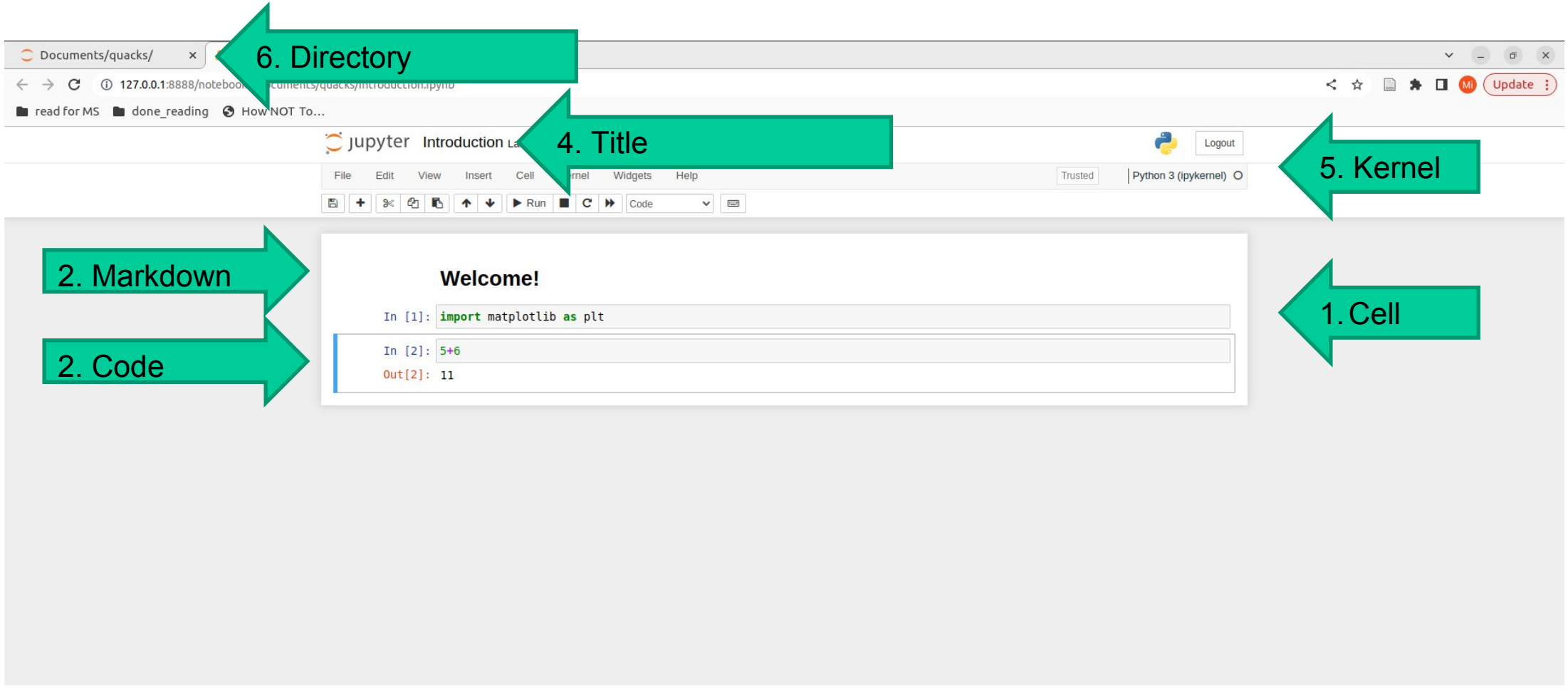
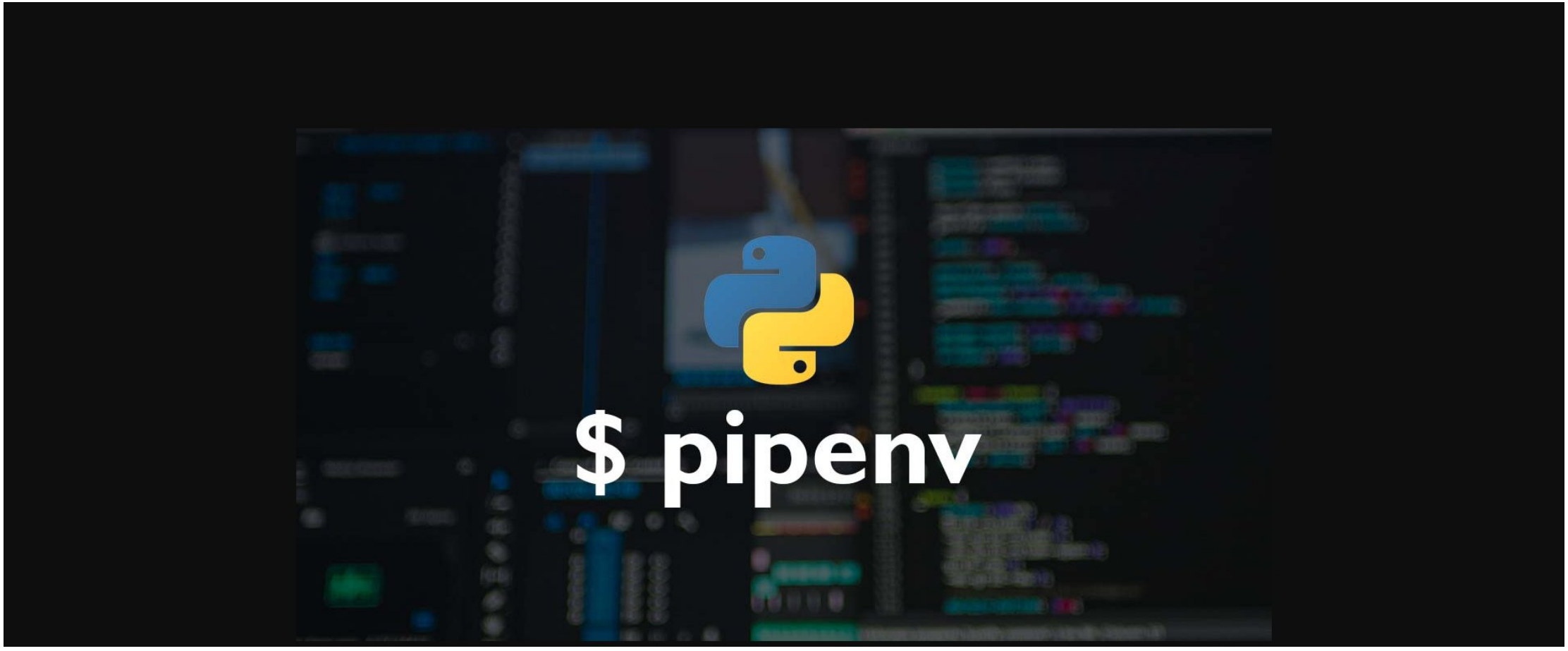
Goal:

- Understand the tools
- Have tool running on your local machine
- Experiment with them

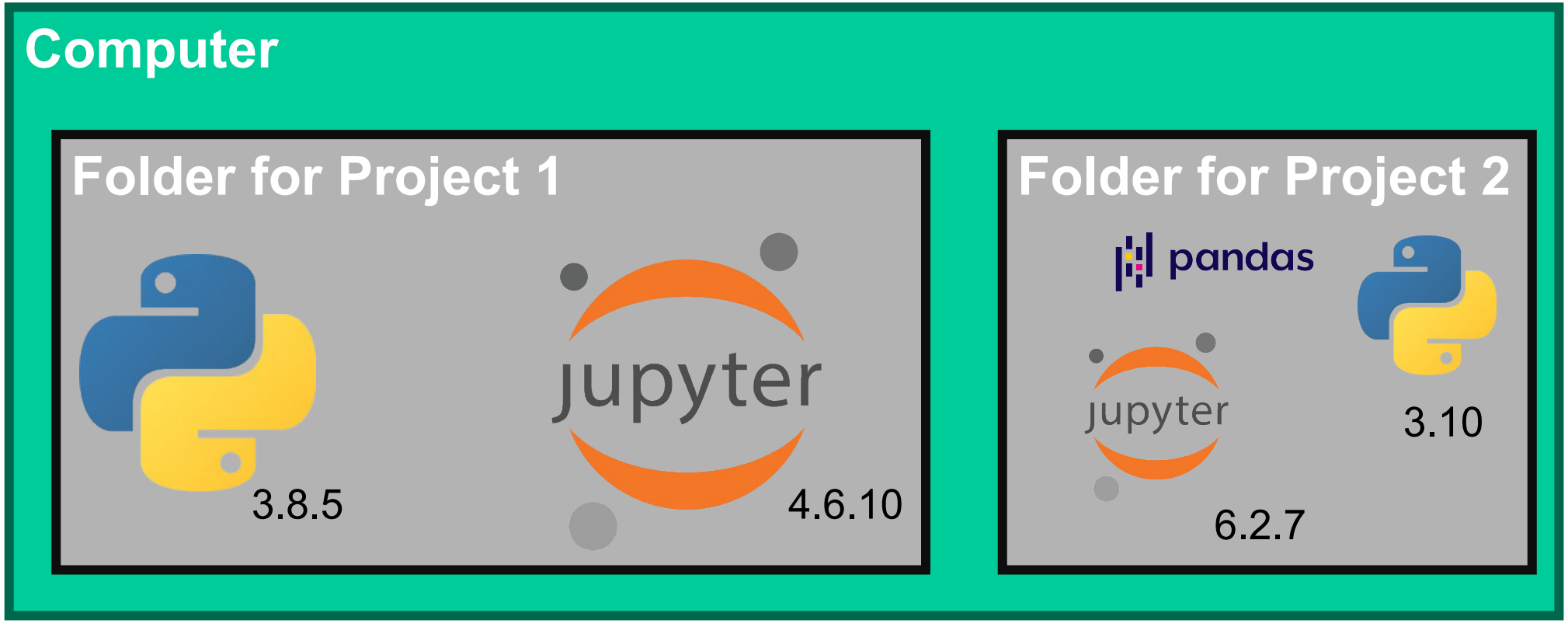
Agenda

JupyterNotebook Explained




$ pipenv

Package management with virtual environments



For testing with Arxiv Project

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- Download the Arxiv Tutorial from Moodle
- Extract to your desired directory
- Open Terminal in that directory
- Run *pipenv shell* to create a virtual environment for the project arxiv
- Following steps on next slide

Package management with Pip and pipenv

One Time SetUp:

	Windows	MacOS	Linux
Verify python installation	python3 - -version		
Verify pip installation	pip3 - -version pip 24.0		
Install pipenv	pip install pipenv		

	Windows	MacOS	Linux
Create Environment	Pipenv shell		
Activate Environment	Pipenv shell		
Install package	Pipenv install numpy		
Install from requirements.txt	Pipenv install –r requirements.txt		
Deactivate Environment	deactivate		
Freeze Environment	Pip freeze > requirements.txt		
Delete Environment	pipenv --rm		

Make Pipenv available in Jupyter Notebook

Per Environment:

	Windows	MacOS	Linux
Install jupyter notebook kernel	pip install jupyter		
Add env kernel	ipython kernel install --user --name=venv		
Run jupyter notebook	jupyter notebook		