### **Effective Programming Practices for Economists**

## **Basic Python**

#### Running Python code via pytest

Janoś Gabler, Hans-Martin von Gaudecker, and Tim Mensinger

## **Preparation**

We assume you have:

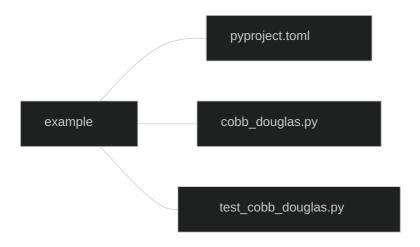
- Installed pixi
- Navigated to the root directory of your project in a shell
- The root directory of your contains a pyproject.toml file that includes pytest and at least one file expected by pytest

# How does pytest execute code?

- Executing .py files: Run the entire file
- Executing notebooks: Run individual cells
- Pytest: Run individual functions in multiple .py files

Very useful for automating test execution across an entire project

### **Example Project Structure**



- Our shell is in the example directory
- We want to run all functions that start with test\_ in test\_cobb\_douglas.py
- Could be spread across multiple test files, across different subdirectories
- Command is pytest

### **Execute**

```
hmg@hmg-home:/tmp/example
                                                                  Q = 0 0
     pixi run pytest
platform linux -- Python 3.13.2, pytest-8.3.5, pluggy-1.5.0
rootdir: /tmp/example
configfile: pyproject.toml
collected 3 items
test_cobb_douglas.py ...
```