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

# **Basic Python**

#### Running Python code via pytask

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### **Preparation**

- We assume you have installed anaconda and created the course environment
- Open a shell in the root directory of your project
  - On Windows, use the anaconda prompt or the powershell
  - If conda is not recognized in the powershell, check out this stackoverflow post
- Activate the environment using `conda activate epp`
- Confirm the activation worked using `conda info`

### 0: Activate and Info

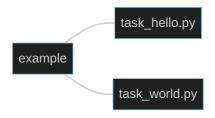
```
hmg@hmg-home:/mnt/econ/epp/example Q
(base) → example conda activate epp
(epp) \rightarrow example conda info
    active environment : epp
   active env location: /home/hmg/mambaforge/envs/epp
            shell level: 2
      user config file : /home/hmg/.condarc
 populated config files : /home/hmg/.condarc
         conda version: 23.1.0
   conda-build version : not installed
        python version: 3.10.10.final.0
      virtual packages : __archspec=1=x86_64
                         cuda=11.4=0
                           glibc=2.35=0
                           linux=6.2.0=0
                            unix=0=0
      base environment : /home/hmg/mambaforge (writable)
      conda av data dir : /home/hmg/mambaforge/etc/conda
 conda av metadata url : None
          channel URLs : https://conda.anaconda.org/conda-forge/linux-64
                          https://conda.anaconda.org/conda-forge/noarch
                          https://conda.anaconda.org/pytask/linux-64
                          https://conda.anaconda.org/pytask/noarch
                          https://repo.anaconda.com/pkgs/main/linux-64
```

# How does pytask execute code?

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

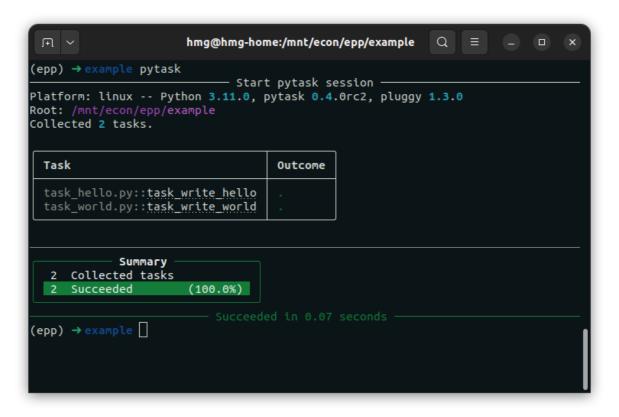
Very useful for automating research pipelines

### **Example Project Structure**



- Our shell is in the `example` directory
- We want to run all functions that start with `task\_` in both `.py` files
- Command is `pytask`

#### 1: Execute



# 1: Execute again

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(epp) → example 📗					