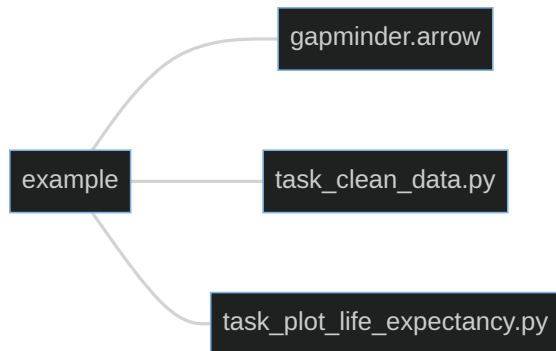# Effective Programming Practices for Economists

Reproducible Research

What does pytask do?

Janoś Gabler and Hans-Martin von Gaudecker

A tiny example project

- `example/task_clean_data.py`
    - Contains the function `task_clean_data`
    - If called, the function reads in `example/gapminder.arrow` and produces `example/bld/data.pkl`

- `example/task_plot_life_expectancy.py`
    - Contains the function `task_plot_life_expectancy`
    - If called, the function reads in `example/bld/data.pkl` and produces `example/bld/life_expectancy.svg`

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Step 3: Track changes and execute

- Pytask knows which files should need to be generated
- Also keeps track on when code or products have changed
- Functions are only run if:
  - They have changed
  - A dependency has changed
- Huge time savings in large empirical projects!

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