Effective Programming Practices for Economists

Miscellaneous Tools

Why use shells today?

Janoś Gabler and Hans-Martin von Gaudecker

Command line interfaces vs. GUIs

CLI

- Faster if you know commands
- More precise
- Do everything in one place and don't change windows
- Multiple steps can be chained and automated to become one

GUI

- Faster for beginners
- Less need to memorize
- Use an interface that is designed specifically for your task
- No potential for automation or command chaining

Install packages and manage env
Version control with git

Run tests for your Python project

Create, copy and delete files

Edit files in vim

Try out things in a Python REPL

Debug your python code with a debugger

Run your fully automated research pipeline VS Code

Task that can be done in a Shell

nvironments -

Alternative

VS Code

VS Code

File Explorer

Modern Editor

- Shell
Git GUI, VS Code Shell

Shell

Shell

Jupyter Notebook You decide

You decide

You decide

Modern Editor

Recommendation

Aside: Learn typing

- You won't be fast in the command line if you cannot touch-type
- After one or two days of practice you will be as fast as before
- Huge payoffs in the long run!
- Many free apps to learn it!
- No single person has ever regretted to have learned it