

Pipes, Functions, and Iteration

HES 505 Fall 2025: Session 6

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What is literate programming?

- Documentation containing code (not vice versa!)
- Direct connection between code and explanation
- Convey meaning to humans rather than telling computer what to do!

Why not just use scripts

Better documentation, better reproducibility: Quarto

Keeping your documents readable

Pipes

Iteration

Building your own functions

Documenting functions

Bringing it all together: Project Management

Directory structure

The data folder

The scripts folder

The docs folder

Avoiding pitfalls with git

- Always pull before you start working on anything new
- Avoid committing large files
- Using `.gitignore`