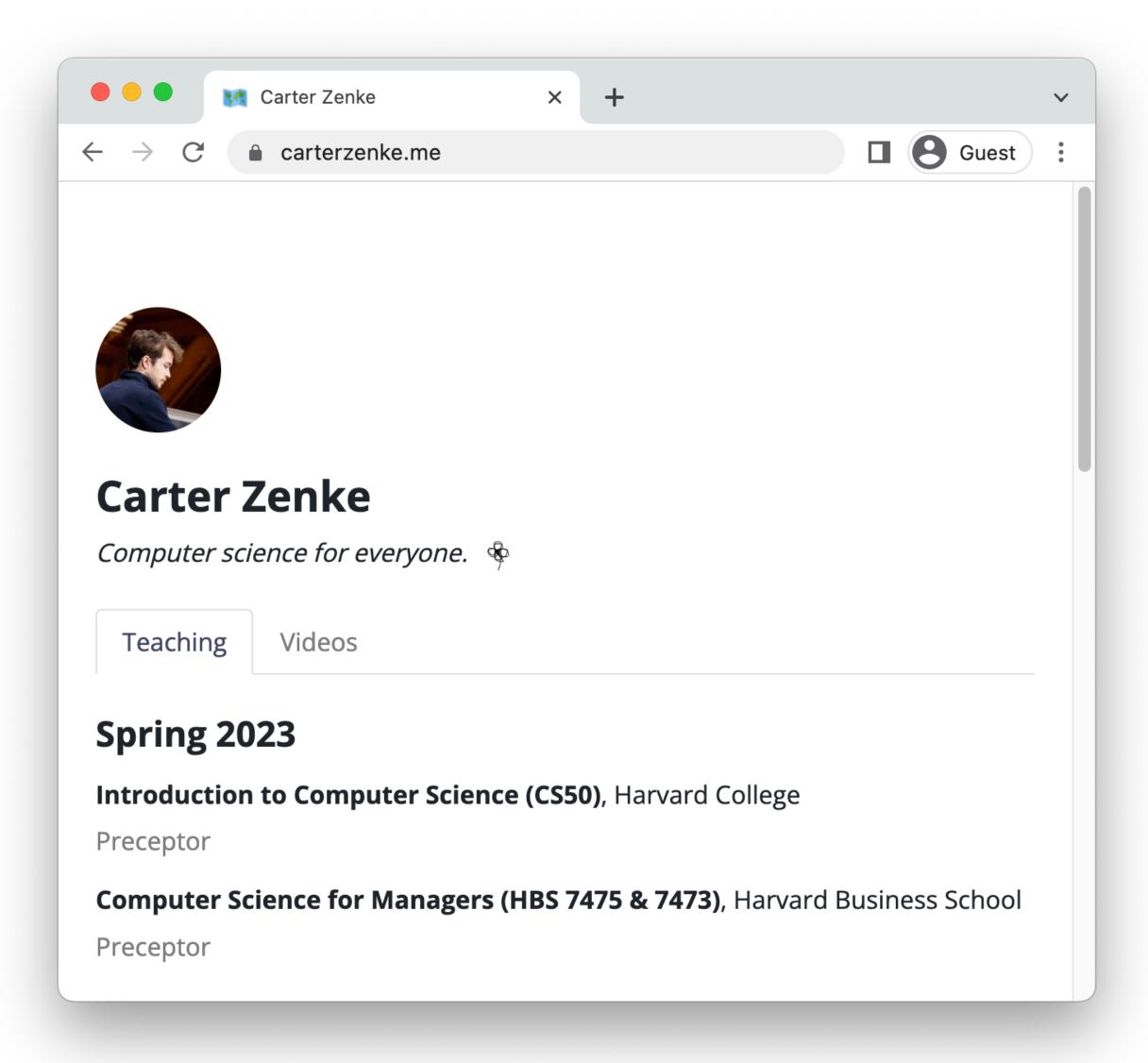
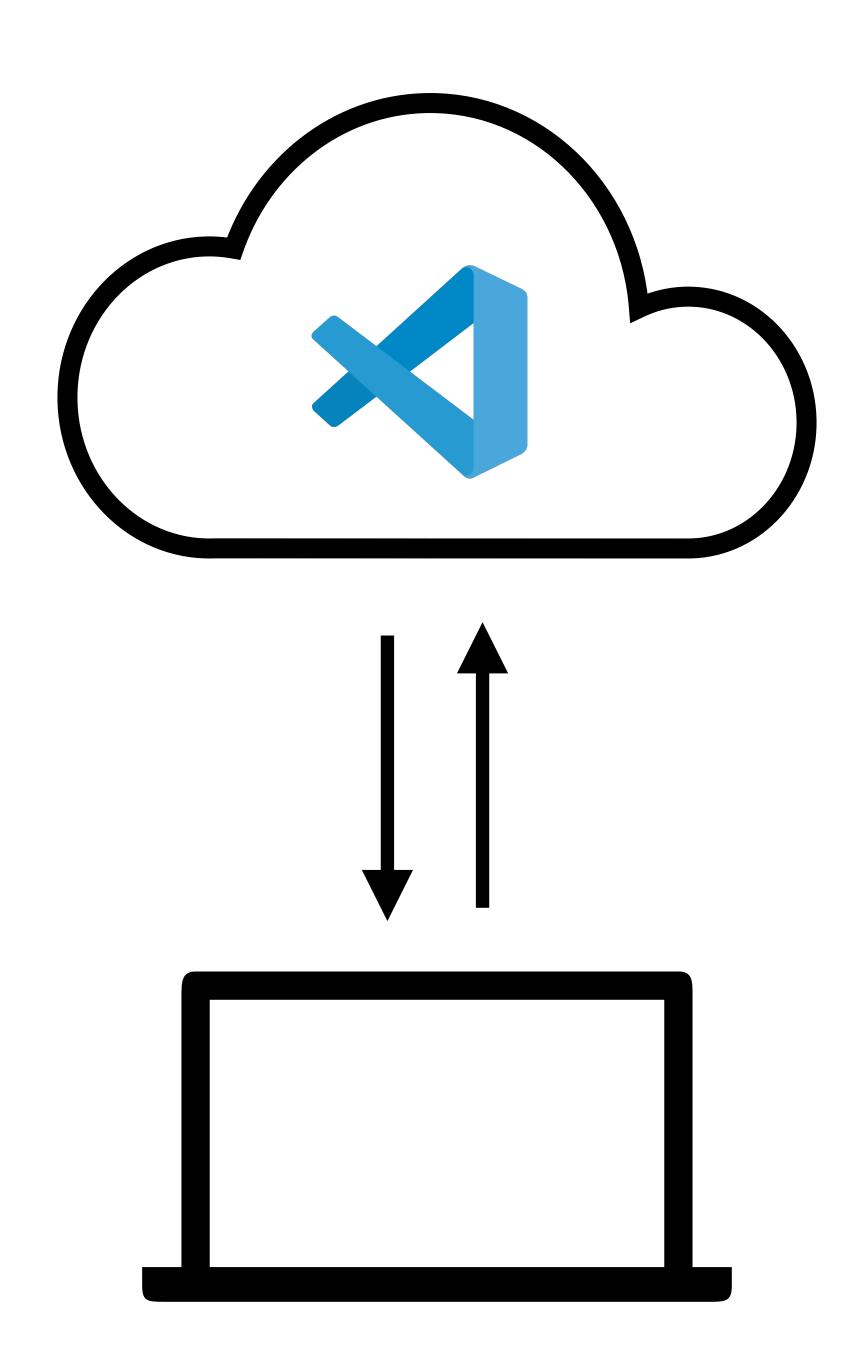
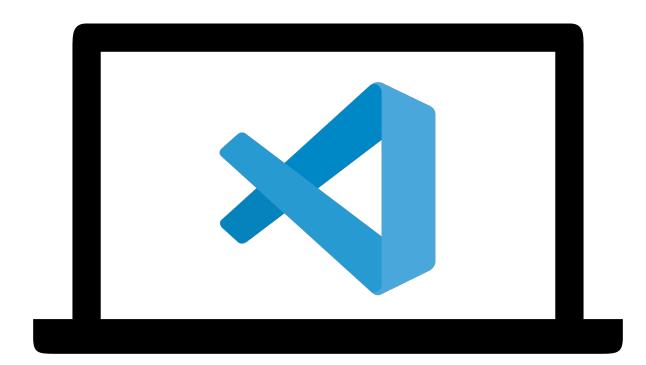


CS50 for MBAs

carterzenke.me/lab







Today

- Prepare your computer with key tools for local development
- Use those tools to create and "deploy" a simple web page, using GitHub Pages

Local Development

Key Software

- Visual Studio Code, to write and edit code
- Python Interpreter, to run Python code
- Git and GitHub, to track changes to files and sync your code on the internet

Git and GitHub

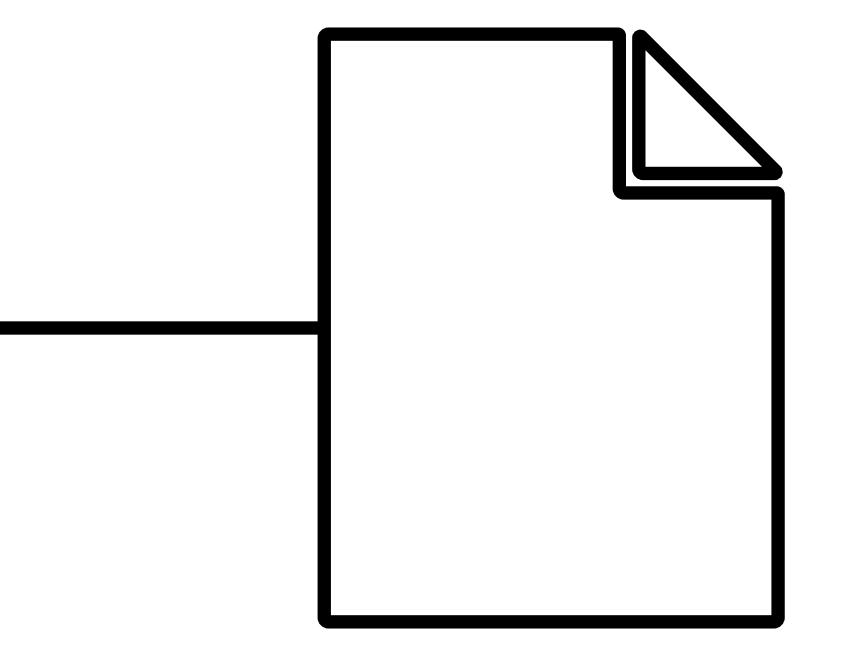
Scenario

You're working on a CS50 assignment, survey.

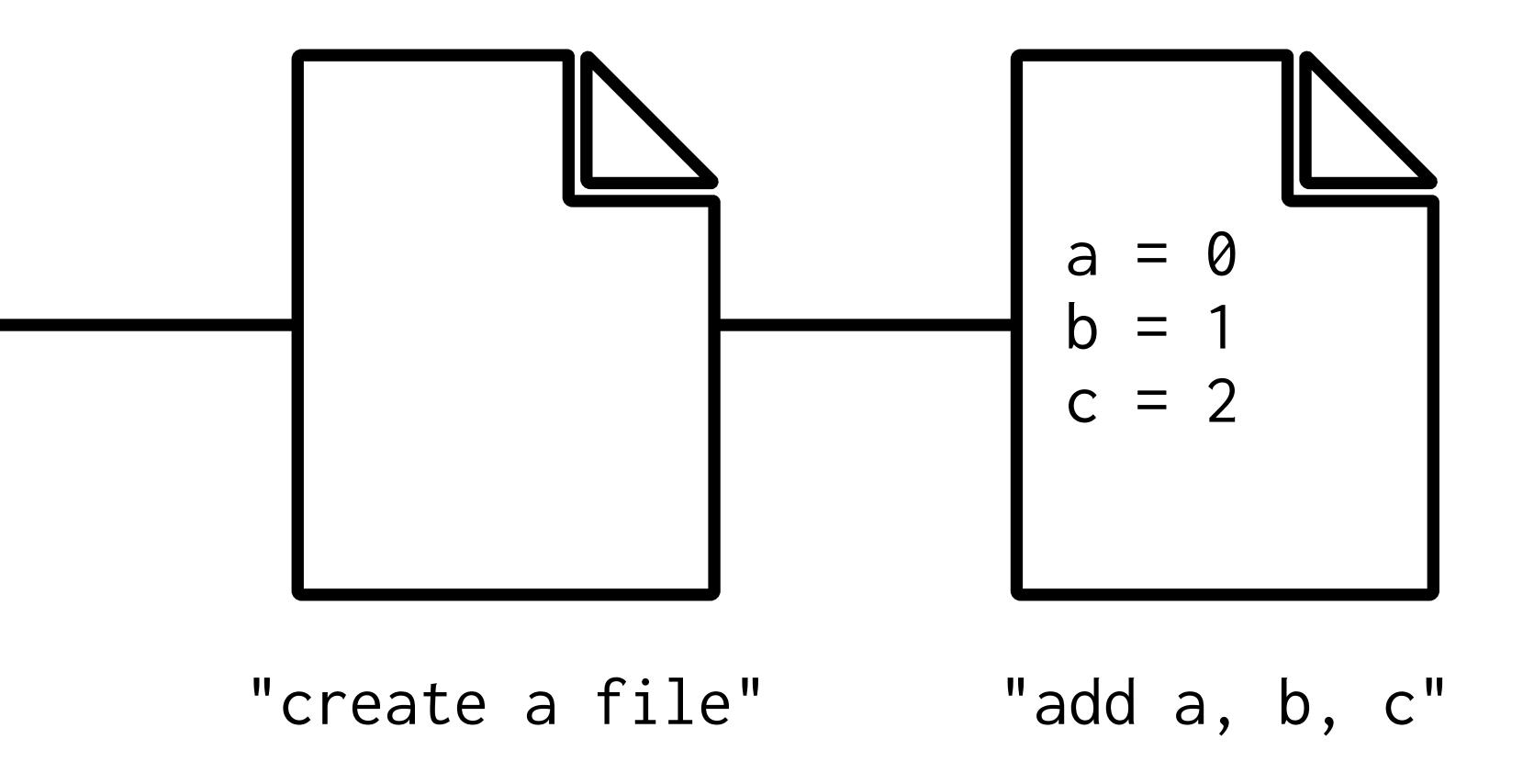
Some parts work perfectly! You can write and read data from the CSV of responses.

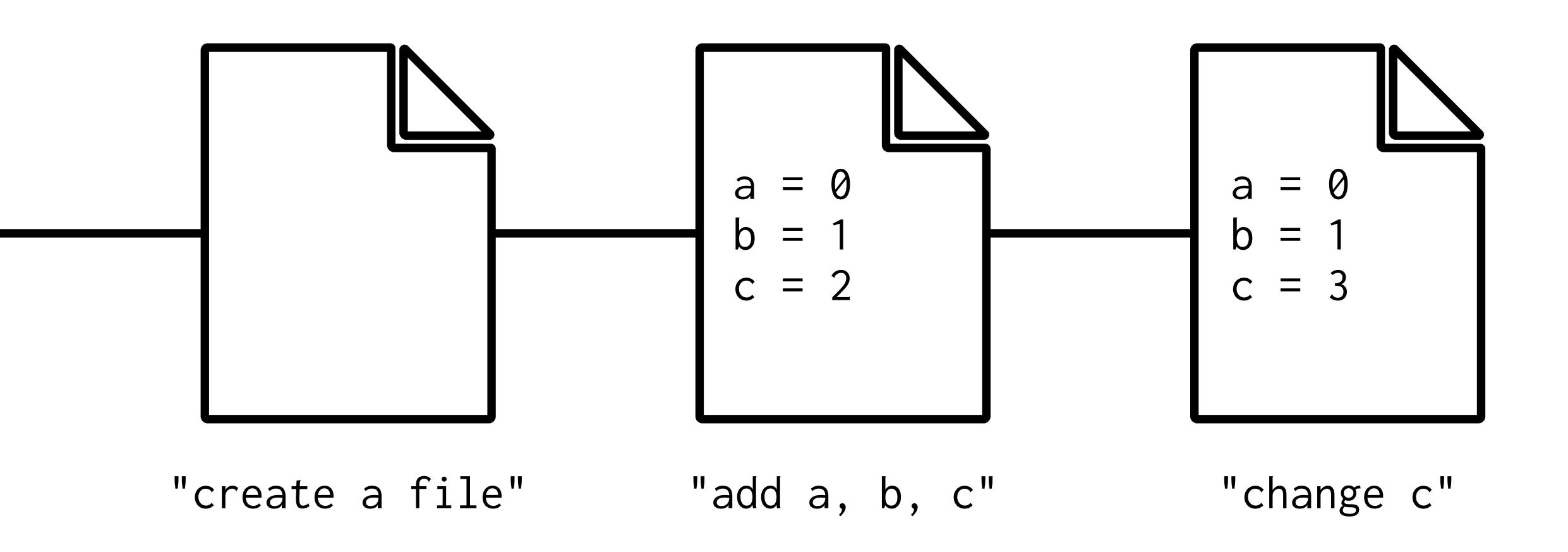
But, while adding a SQLite database, you break some of the code that worked before.

In hindsight, what could you have done to prevent this?

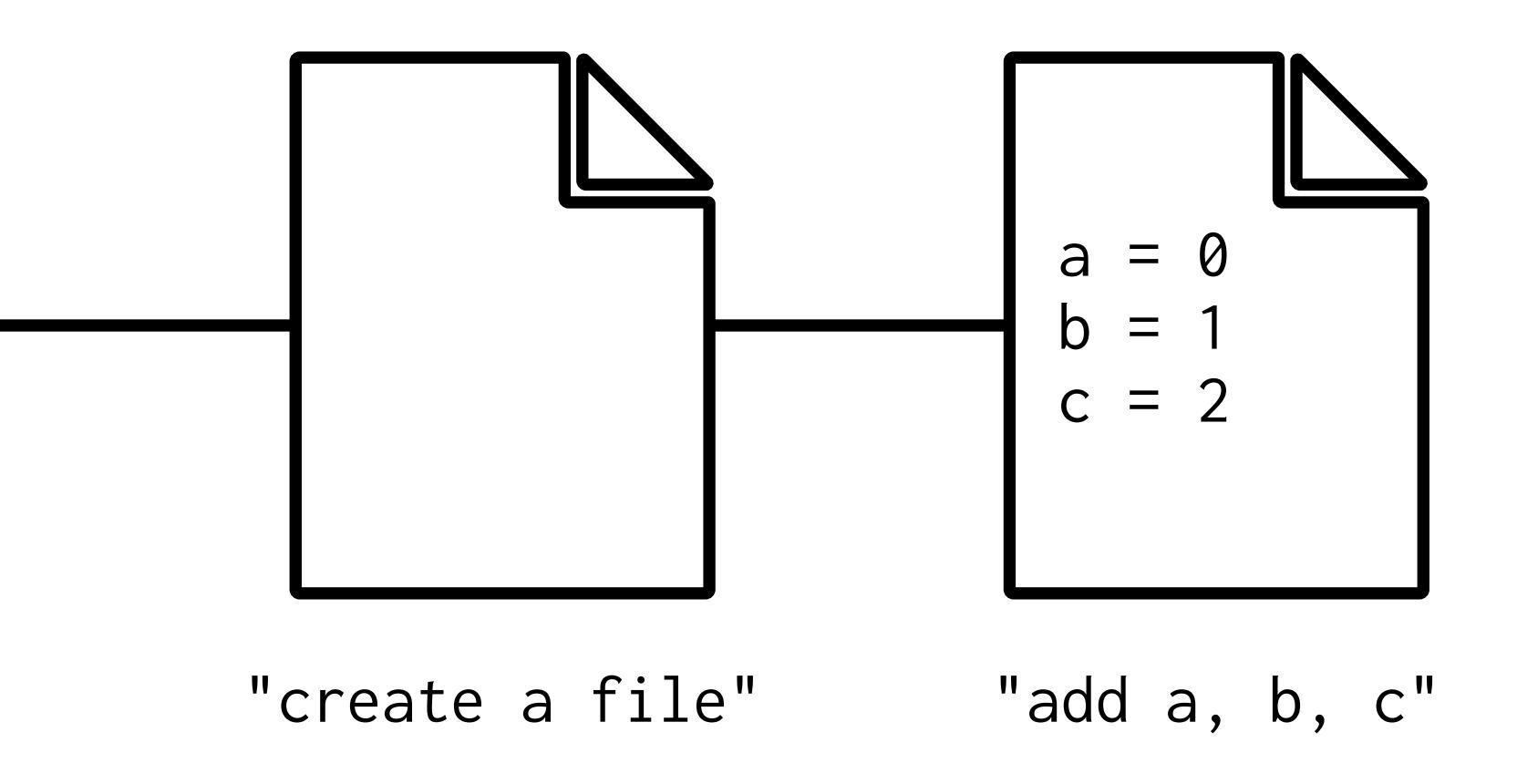


"create a file"



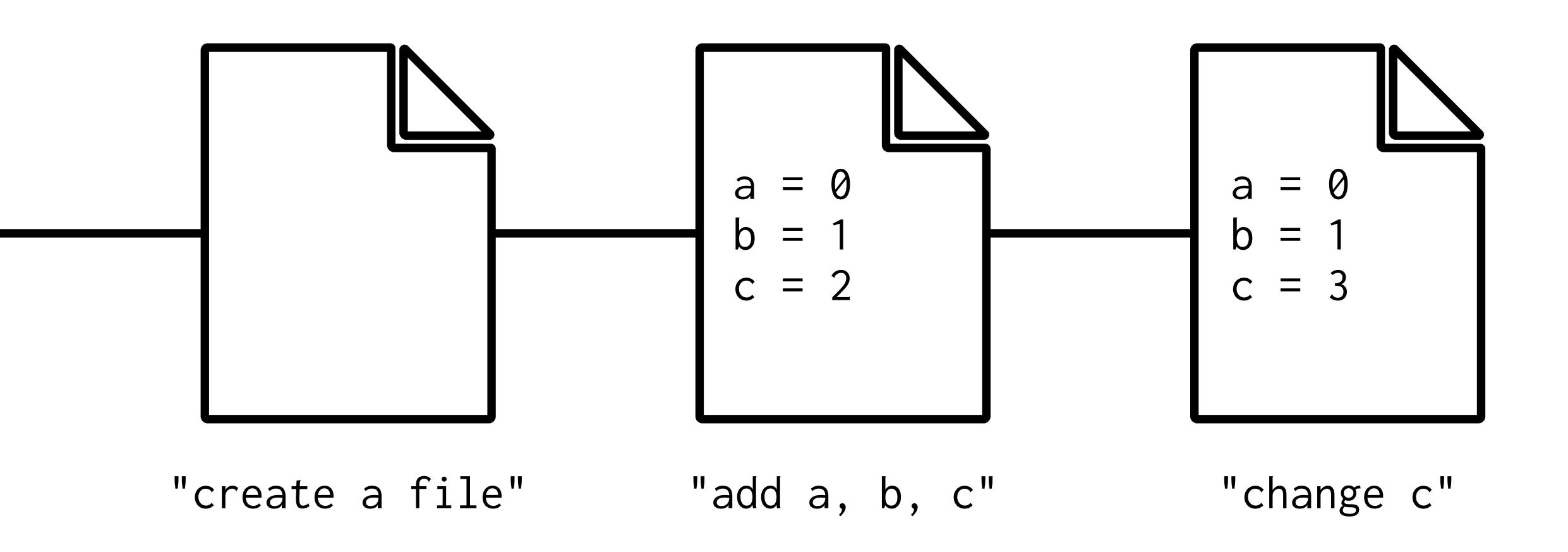


Revert back to old versions

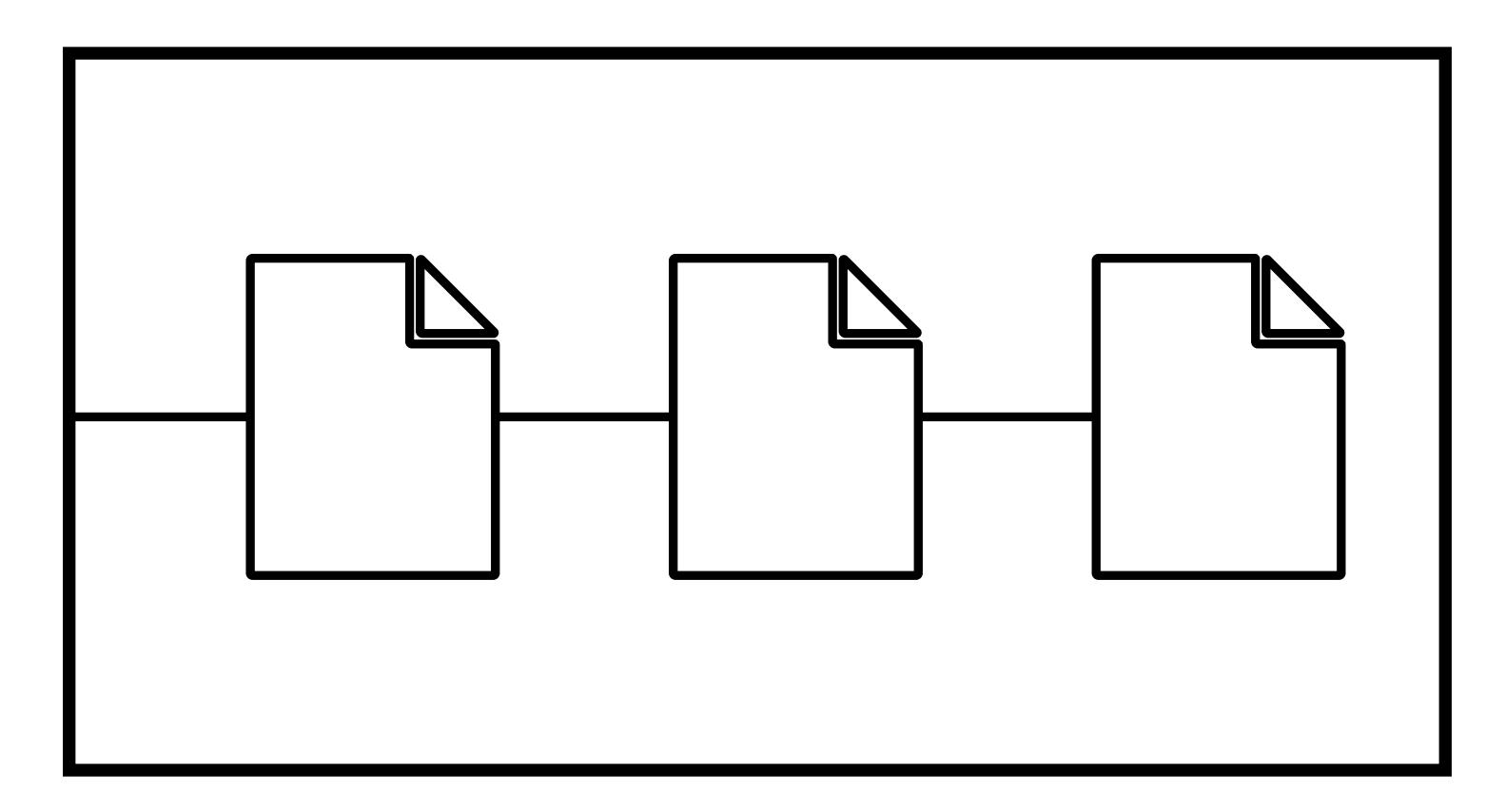


What is Git?

- Git is a "version control system"
- Use Git to...
 - Keep track of changes to your files
 - Keep a history of all changes you've made
- Git stores your project files in a repository



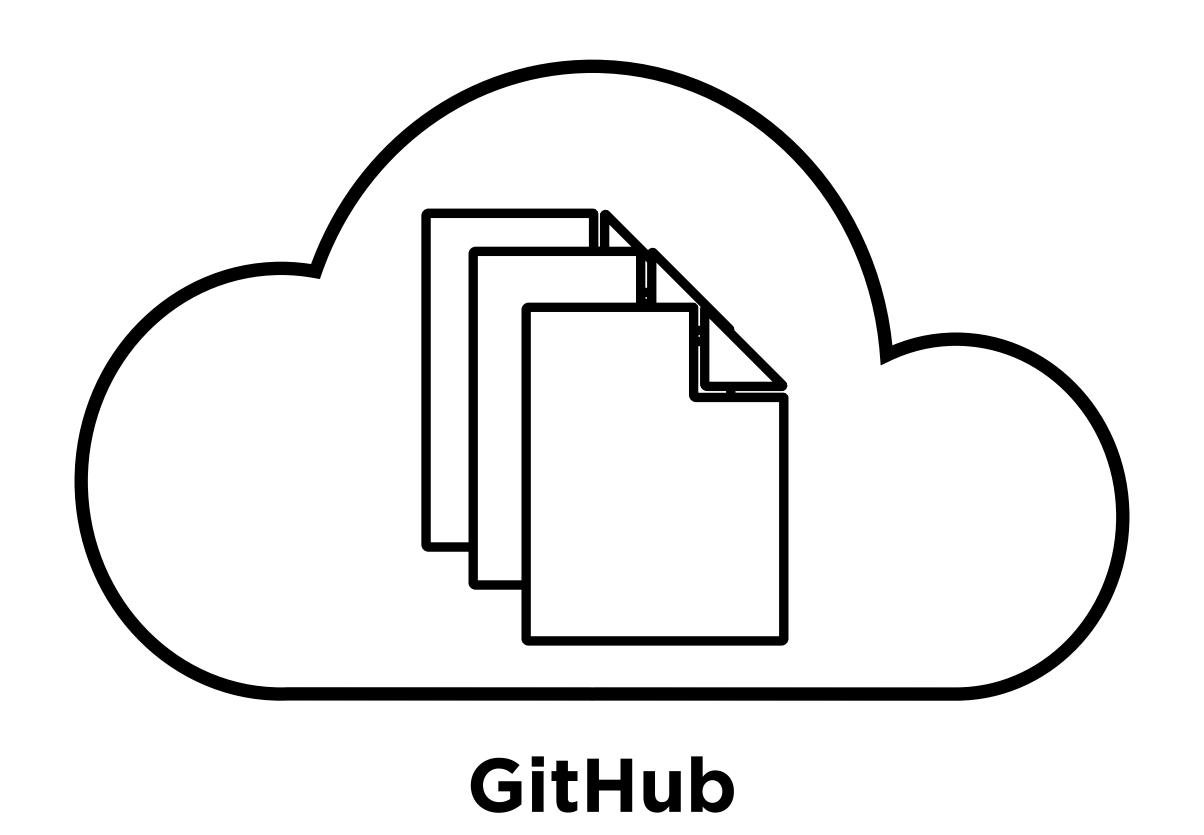
Repository



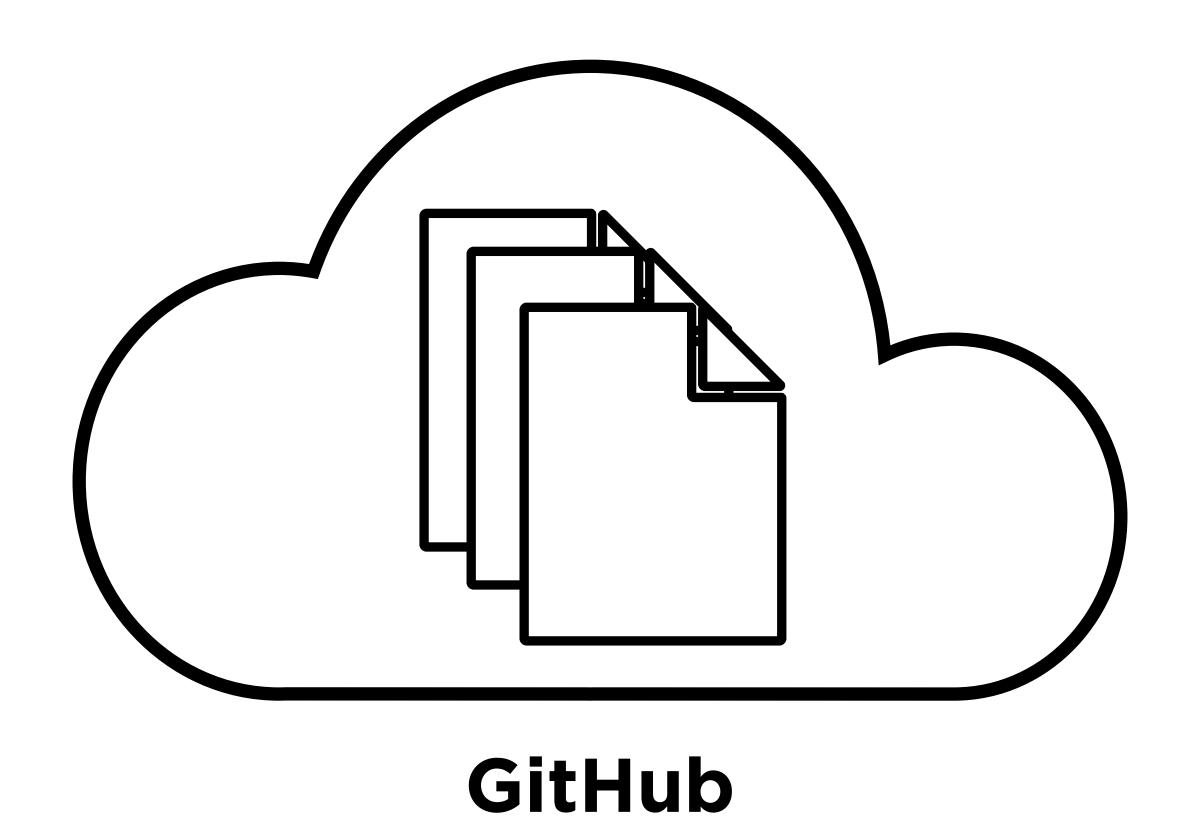
What is GitHub?

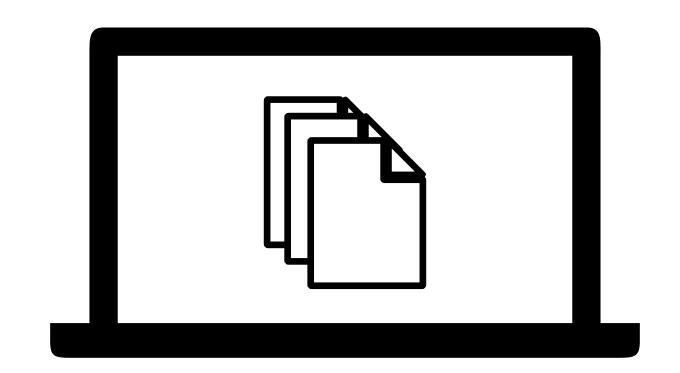
- **GitHub** is a platform that offers cloud-based ("remote") Git repository hosting
- **GitHub Pages** is a service to turn a Git repository into a simple website others can access

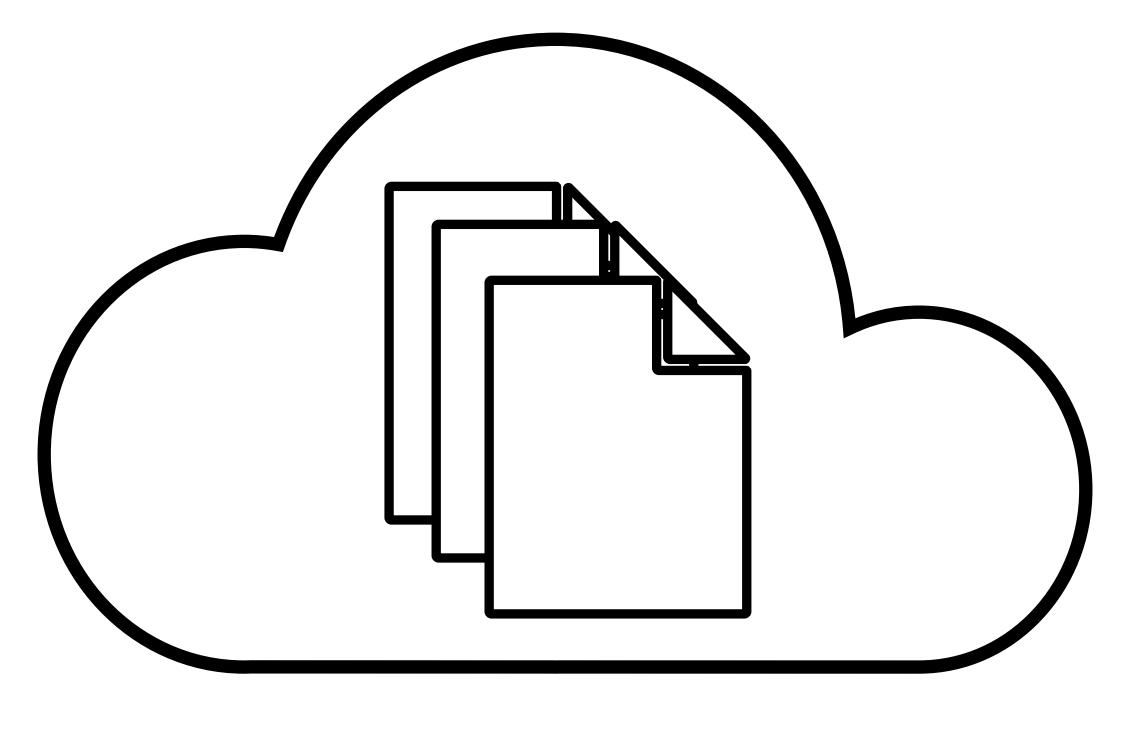
Cloning, Pulling, and Pushing



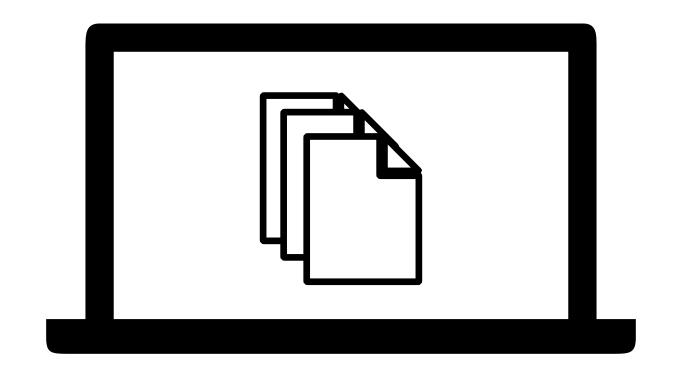




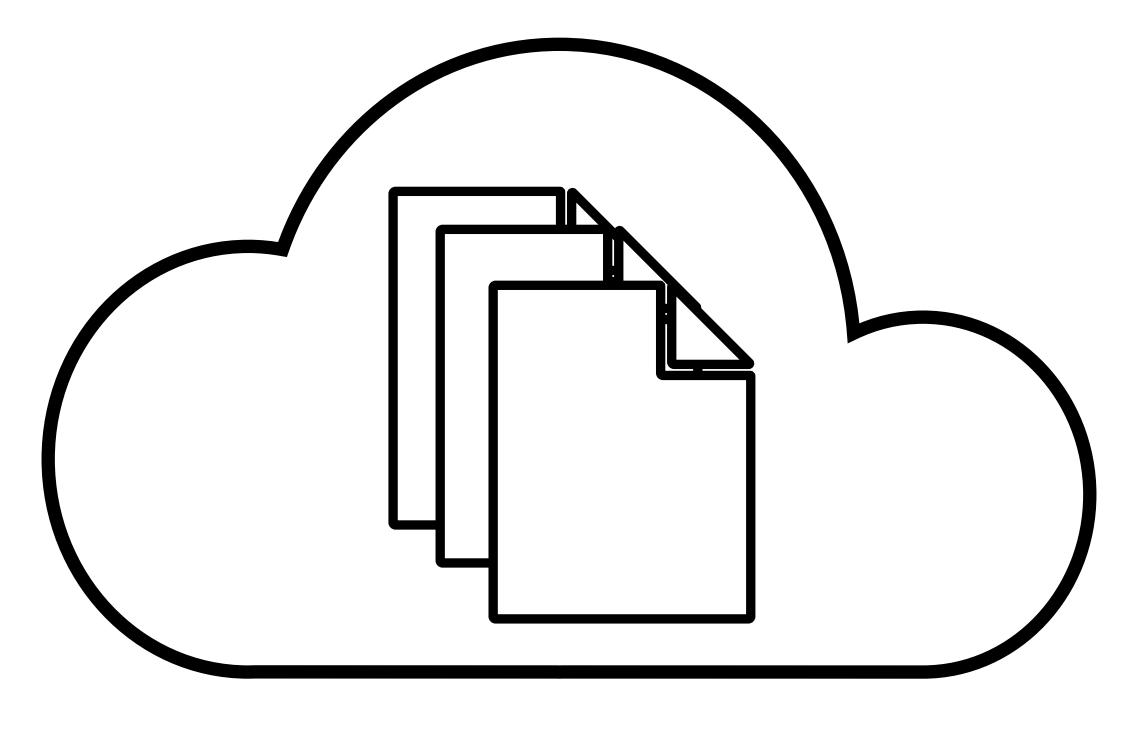




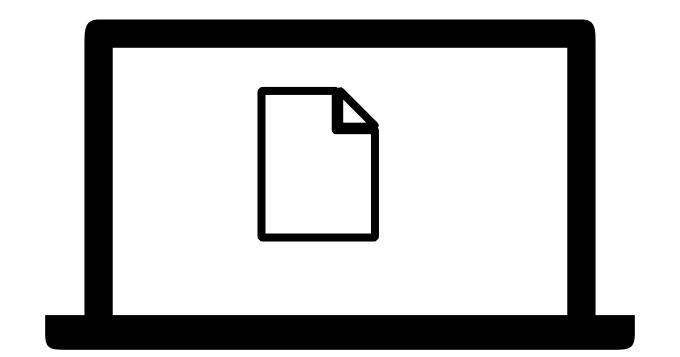
"Remote" repository



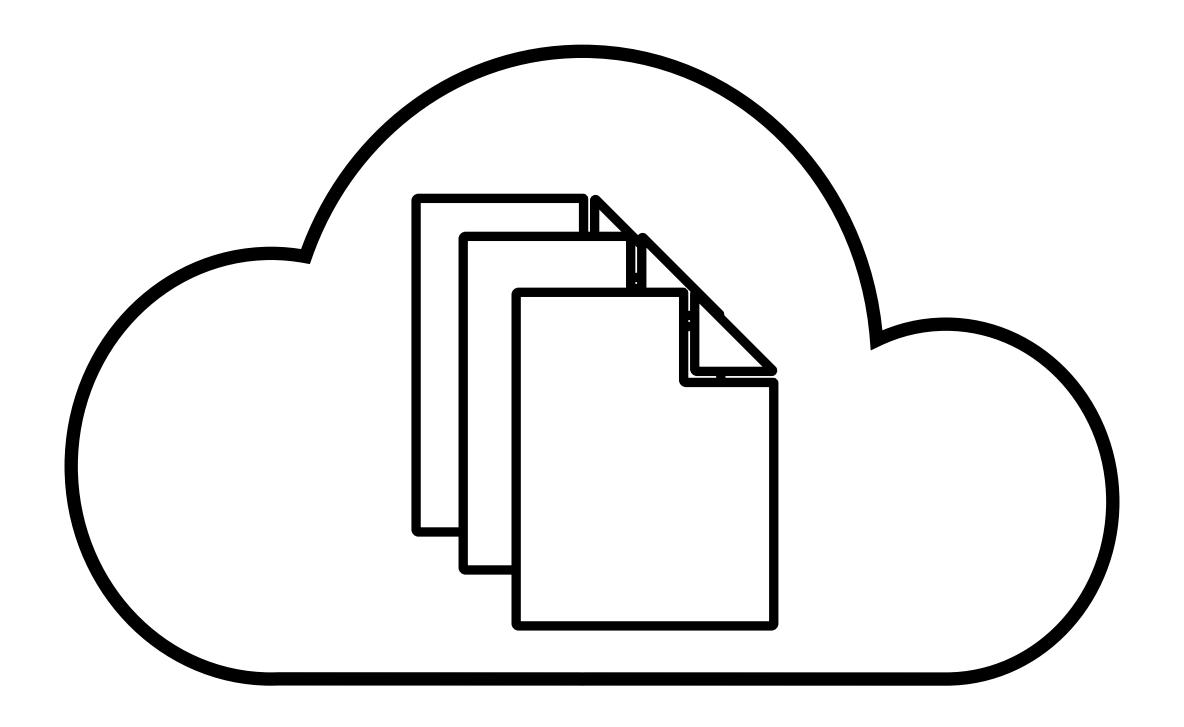
Cloning



"Remote" repository

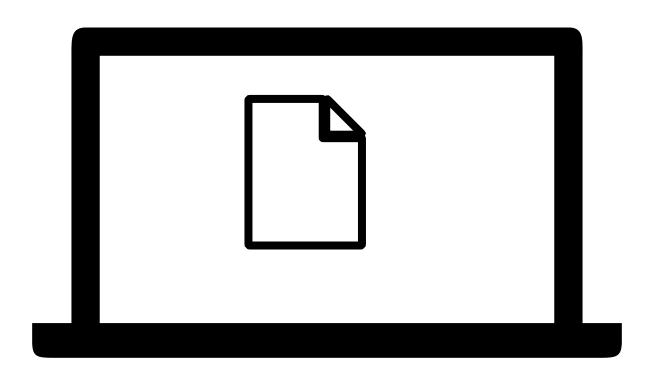


Pushing

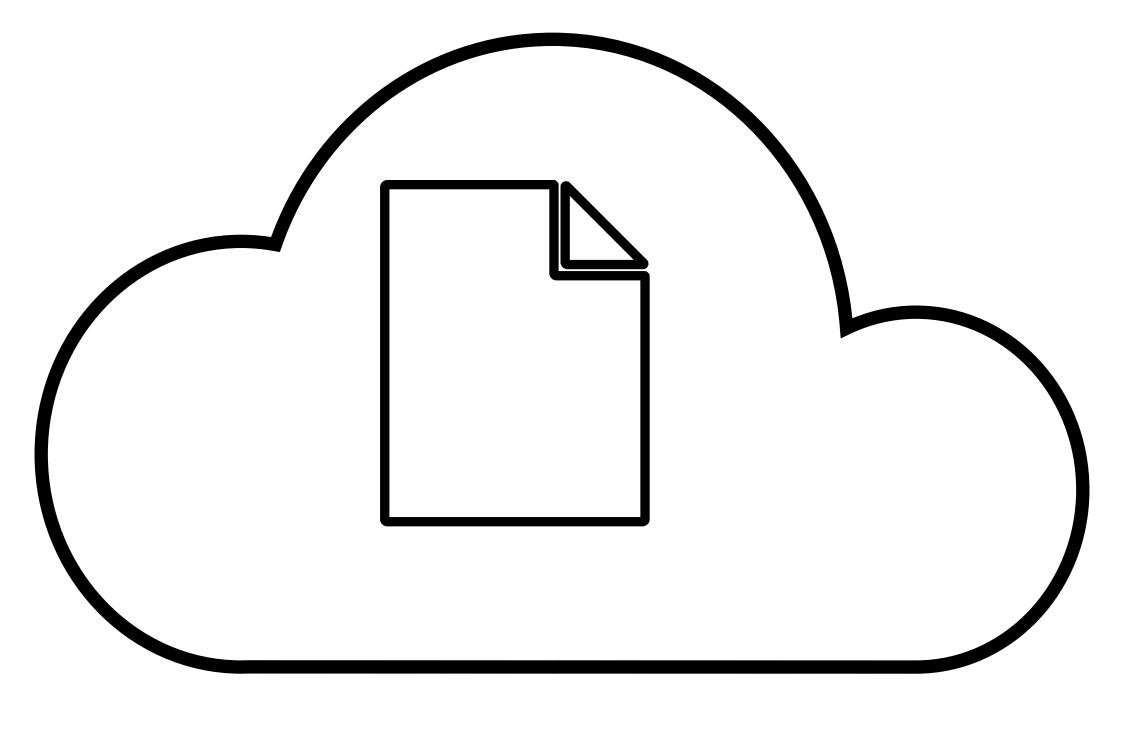


"Remote" repository

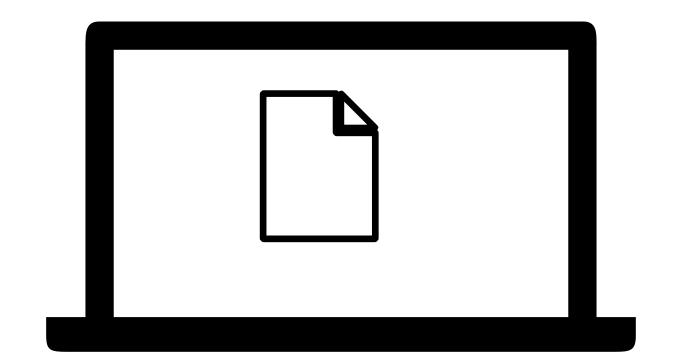
out of sync!



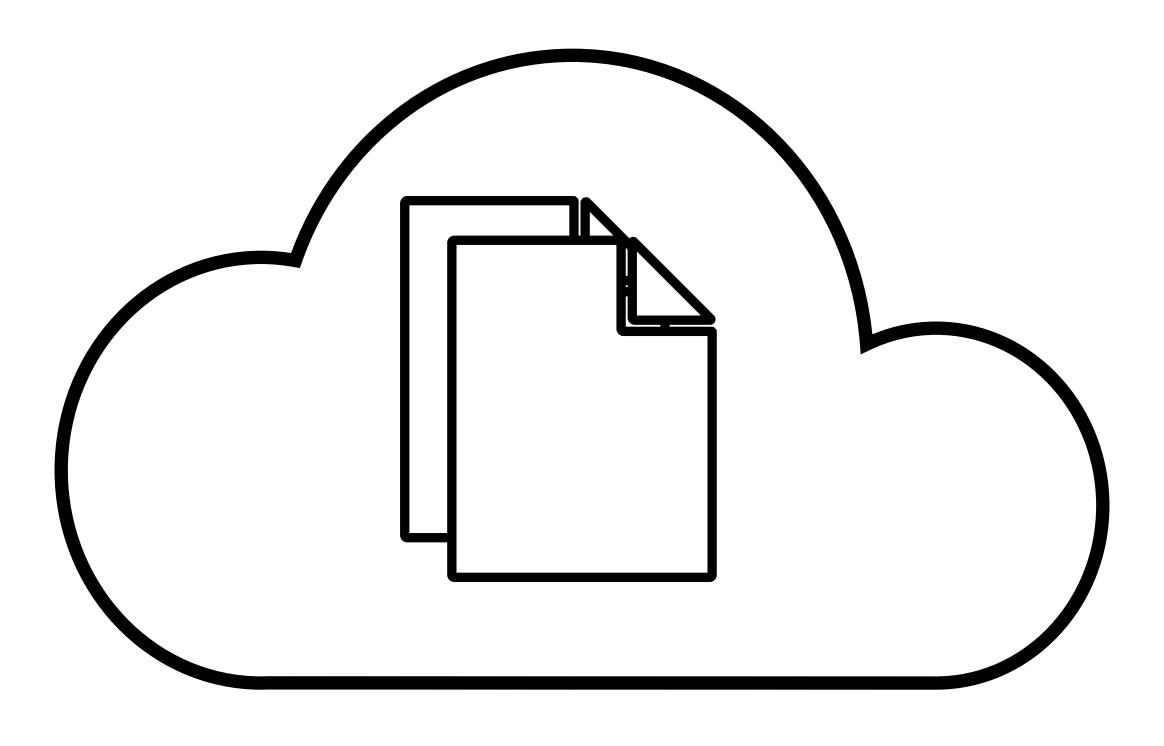
Pushing



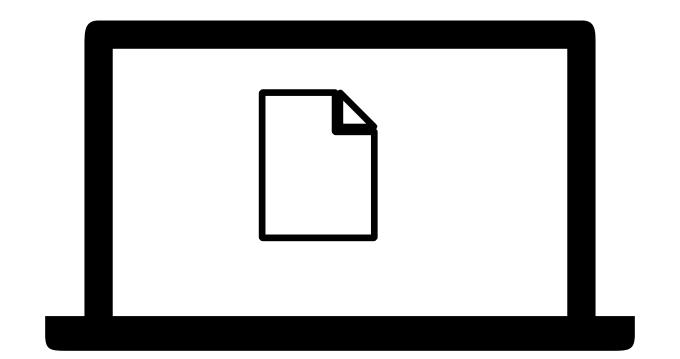
"Remote" repository



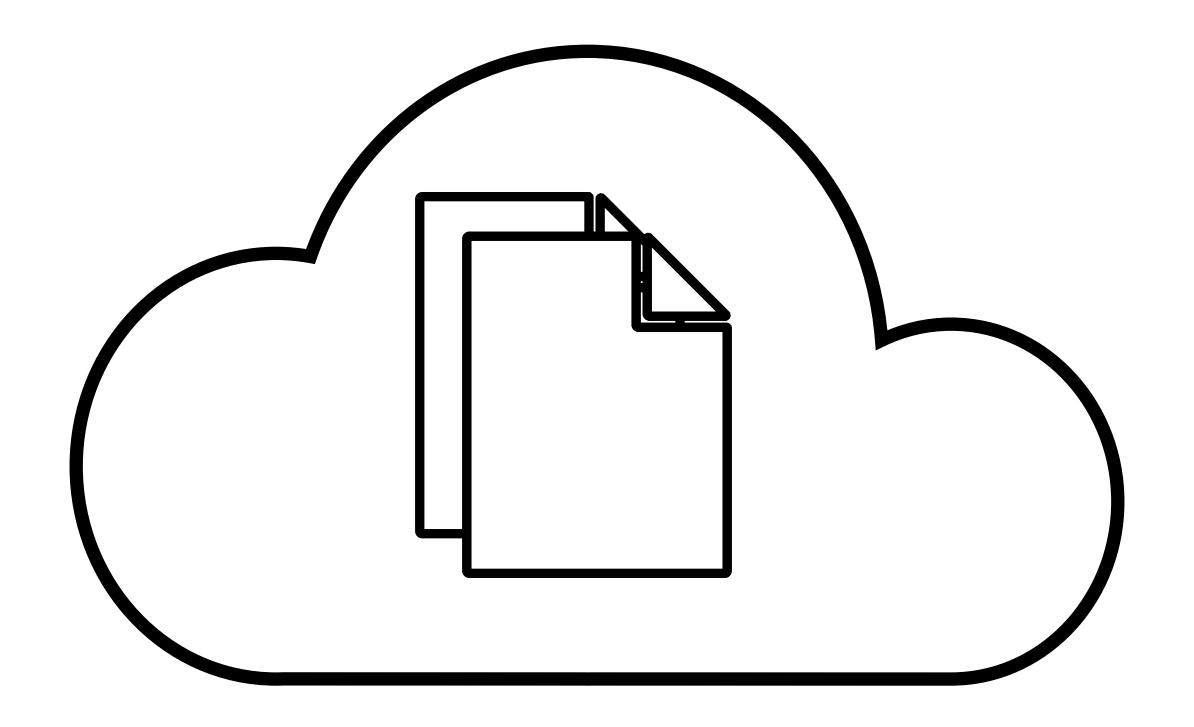
Pushing



"Remote" repository

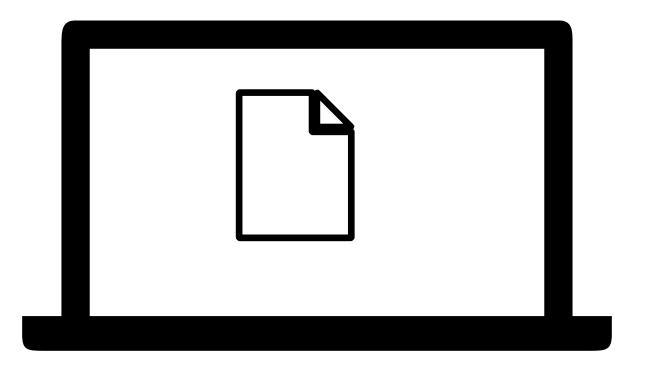


Pulling

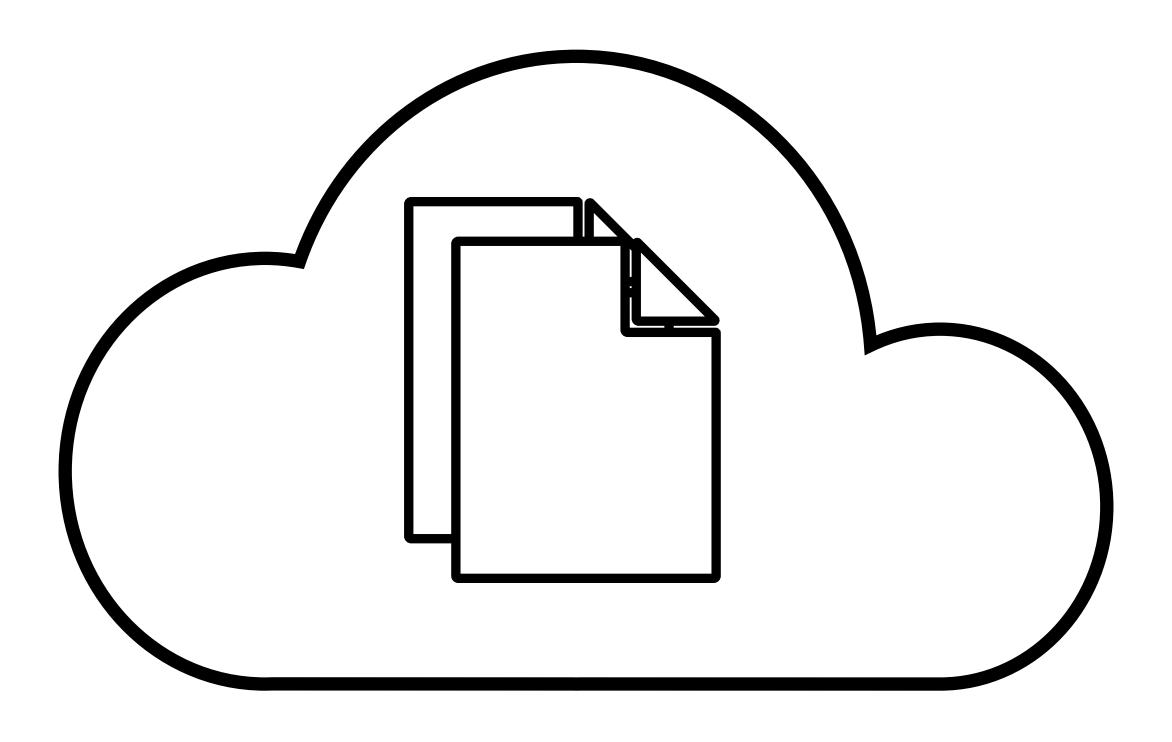


"Remote" repository

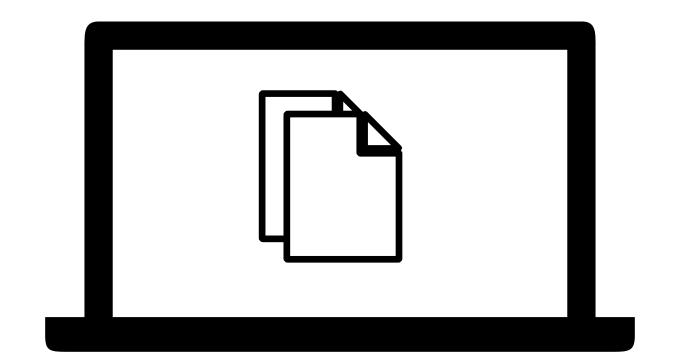
out of sync!



Pulling



"Remote" repository



Pulling

Submission

• Submit files for your website to Gradescope by Friday, March 3, 3:10 PM.