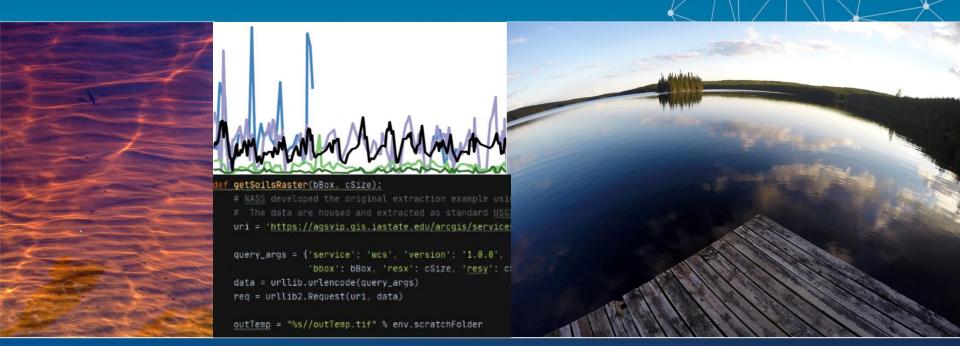


Data Management





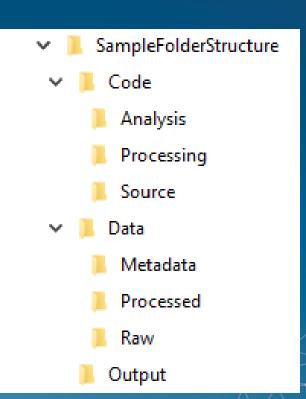
Files and Folder Structures

File naming conventions

- No spaces!
- Use only letters, numbers, punctuation
- Consistent naming structure throughout a project (e.g., LakeA_Nutrients_Raw.csv)

Folder structure conventions

- Nested folders are helpful
- Separate folders for raw and processed data (optional: metadata folder)
- Consider separating code folder into processing scripts, analysis scripts, and scripts received from elsewhere (source)
- Output can contain image files, reports, slides, etc.





Version Control: Benefits

- Track multiple versions of a file through time
- Revert back to a previous version to fix a mistake
- Access files from any machine
- Provide access to multiple people who can work simultaneously

"FINAL".doc







FINAL.doc!

FINAL_rev. 2. doc







FINAL_rev.6.COMMENTS.doc

FINAL_rev.8.comments5.







FINAL_rev.18.comments7. corrections9.MORE.30.doc

FINAL_rev.22.comments49. corrections.10.#@\$%WHYDID ICOMETOGRADSCHOOL?????.doc

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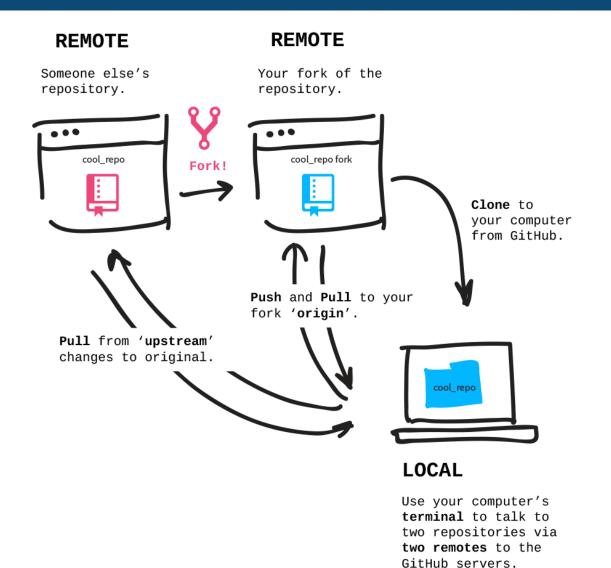


GitHub

- Cloud-based storage for files
- Max. file size = 100 MB
- File repositories track version history w/ ability to revert
- Can link multiple machines to a repository
- Repositories can be private or public









GitHub Example: Workshop Repository

https://github.com/KateriSalk/ACWA_OpenSourceWorkshop_2021

☐ KateriSalk / ACWA_OpenSourceWorkshop_2021 Public									
<> Code	O Issues 11 F	Pull requests	Actions	Projects	□ Wiki	① Security	∠ Insights	Settings	
	ሦ main ▼		♡ 0 tags	gs			Go to file	Add file ▼	Code →
	SalkGun	SalkGundersen and SalkGundersen Updating climate and water quality sessions				ef938dd 43 minutes ago 🐧 4 commits			
	Data		Updating climate and water quality sessions				43 minutes ago		
	Output	Adding folder structure and day 1 materials				7 days ago			
	Sessions	Updating climate and water quality sessions					43 minutes ago		