Using Github for research and life | Part II

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Reproducible

Unlimited

Transparent

Shareable

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Complete control and ease of workflow

Automate your commands, e.g. schedule an automatic daily backup

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Initialising and using your repo
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2. Create and stage your files

- add and commit your files

3. Push to a remote github repo

- push your files to your Github

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That's it! \mid Your data is now stored and version controlled in local and remote repos

Cloning an existing repo

Clone a remote repo to your local computer

This creates a git repository on your local machine complete with version control.

Every version of every file for the history of the project is grabbed by default when you run git clone.

```
git clone "github url" "new repo name (optional)" # e.g. git clone https://github.com/darwinanddavis/UsefulCo
```

Why clone?

You can dump the contents of any public repo, including its complete version history, onto your own computer, then upload it onto the cloud.

The short version

local git (version control on your comp)

Common errors

fatal: remote origin already exists

The remote origin already exists, so you can't add it again

git remote rm origin # if origin already exists, remove it git remote add origin "your github repo" # then re-add git push origin master # then push again

! [rejected] master -> master (non-fast-forward) Someone else has made changes since your latest ones and git refuses to lose the commit, so won't push your new changes

git pull origin master # fetches any updates to online repo

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