Version Control w/ R







November 04, 2019 Melissa Dale dalemeli@msu.edu



To begin: https://github.com/rladies-eastlansing/2019-workshop-git/blob/master/Setup-instructions.md

Register for a GitHub account

Install Git

Install a Git client

Install/upgrade your R and R studio versions

GIT

GITHUB, GITLABS, BITBUCKET







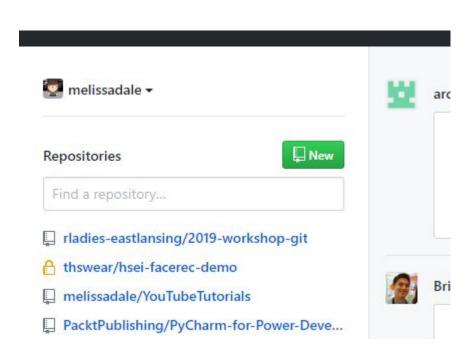


LOCAL HOST

Making a Repository on GitHub

Log into GitHub.com

Click green "New" button

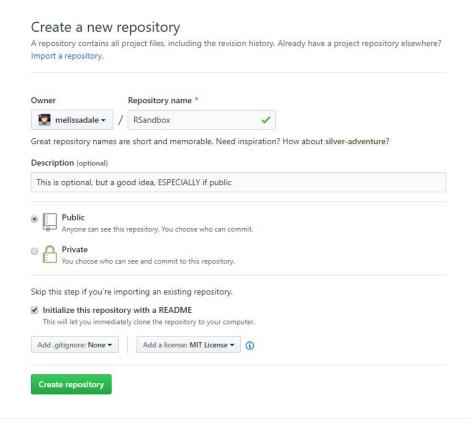


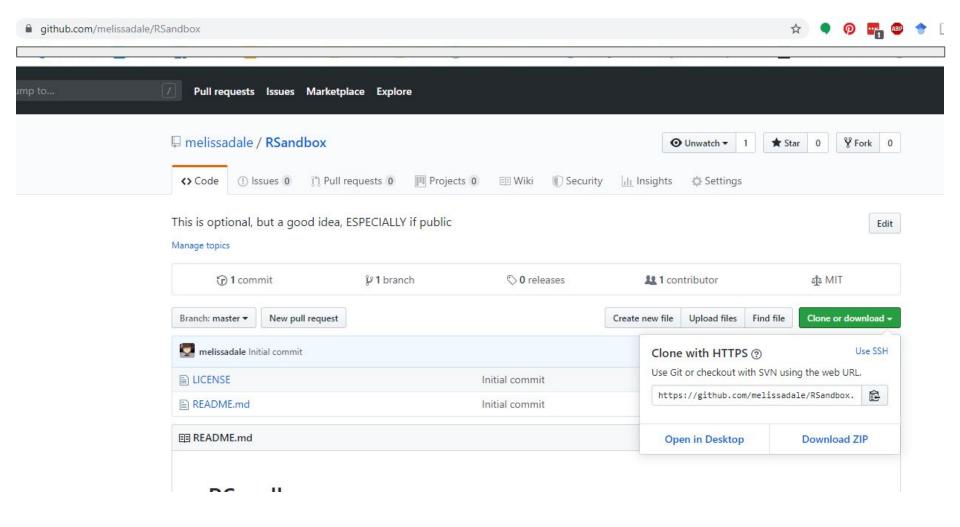
Making a Repository on GitHub

Log into GitHub.com

Click green "New" button

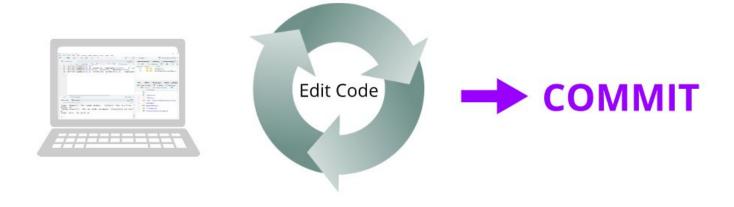
Fill out details and create repository:





Some minimal terminology

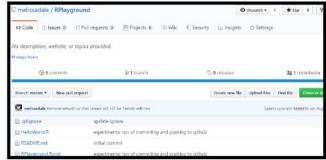
On your own machine - LOCAL



Pushing - update LOCAL branch commits to HOST







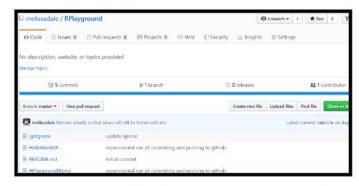
REPO: www.github.com/YOU/project

Pulling - update LOCAL from corresp. HOST branch





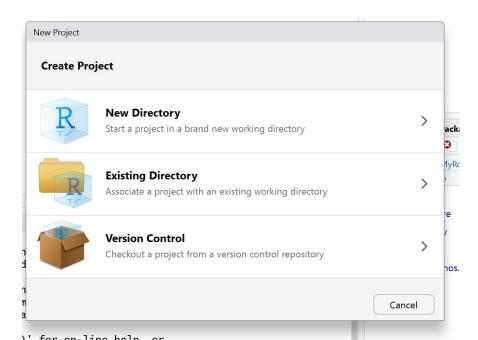




REPO: www.github.com/YOU/project

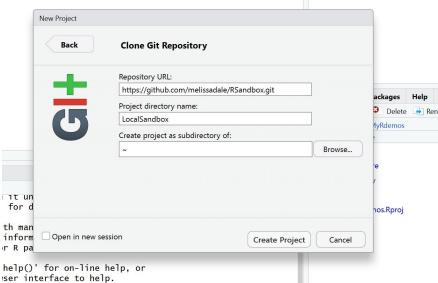
Now to R-Studio

- 1. How to get existing code (on LOCAL) TO your GitHub Repository (Push)
 - a. Open R-Studio, create new project, Version Control



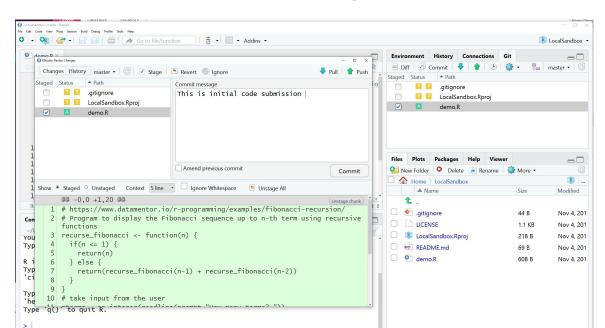
Now to R-Studio

- 1. How to get existing code TO your GitHub Repository (Push)
 - a. Open R-Studio, create new project, Version Control
 - b. GIT, Fill Out Form (cloned address from github, local directory name, save location)
 - c. Create Project



Now to R-Studio

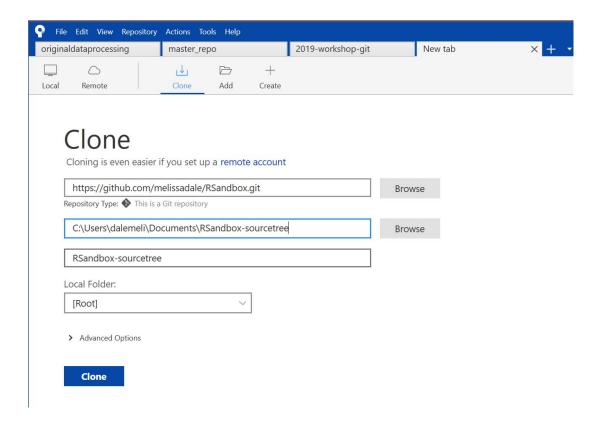
- 2. Copy existing scripts, or create new R scripts
- 3. Click on Git, Commit (with commit message)
- 4. Push



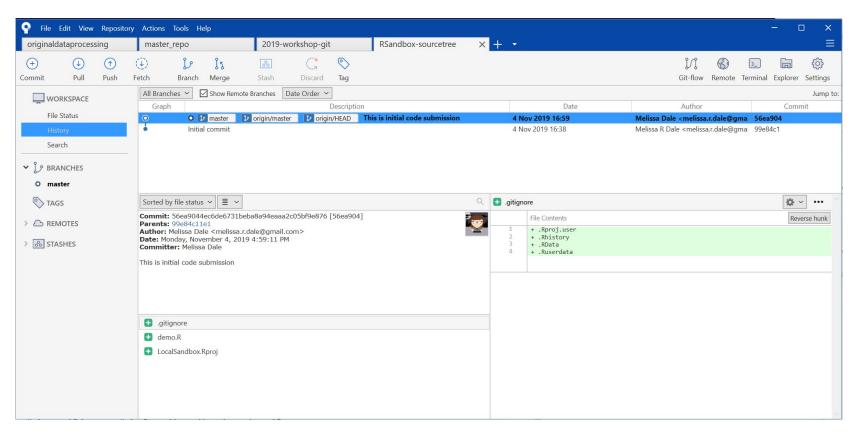
See your stuff on GitHub!

Now to Source Tree (or whatever client)

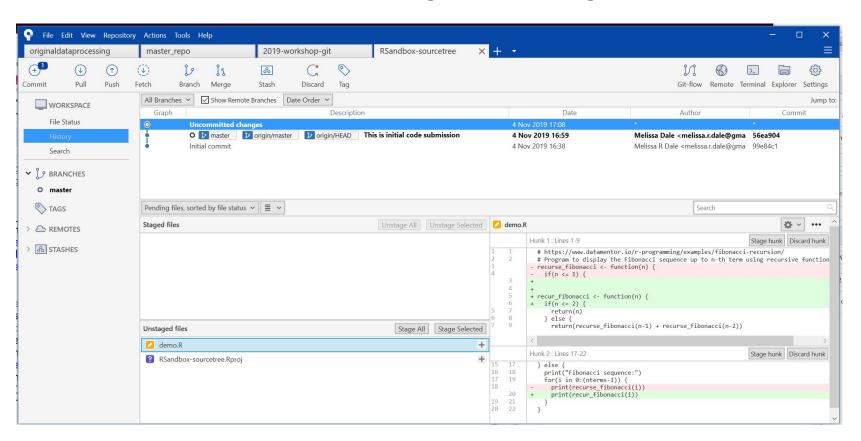
- 1. File "Clone/New"
- 2. Add Repo Address
- 3. Clone



Probably Looks like this (See, there's our last commit!)



Make some other changes, now go to SourceTree



Again Commit, comment, and push

Commit

Stage desired commits

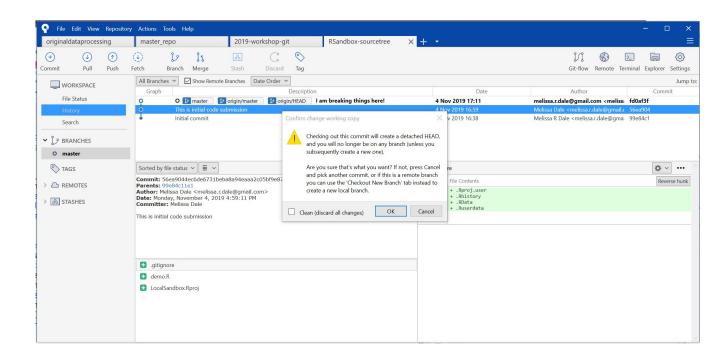
Comment

Commit button

Push

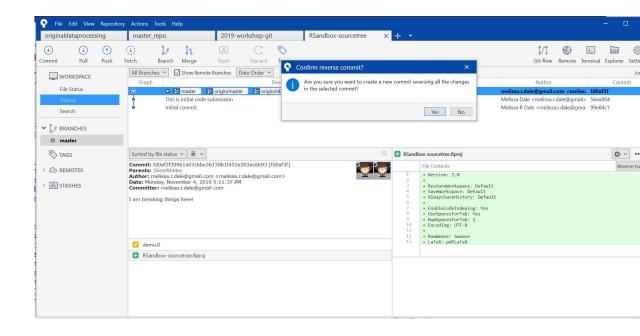
Reset! In Source Tree

Double click previous commit



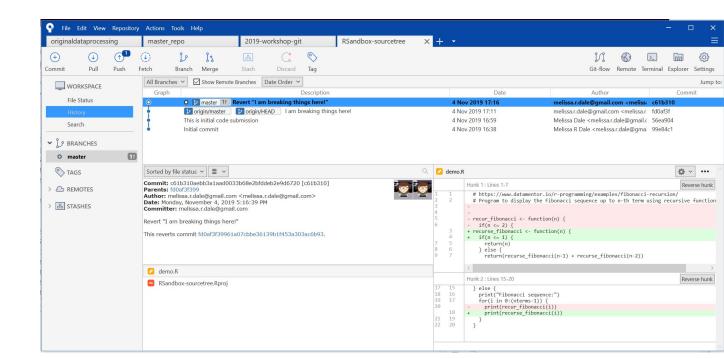
Reset! In Source Tree

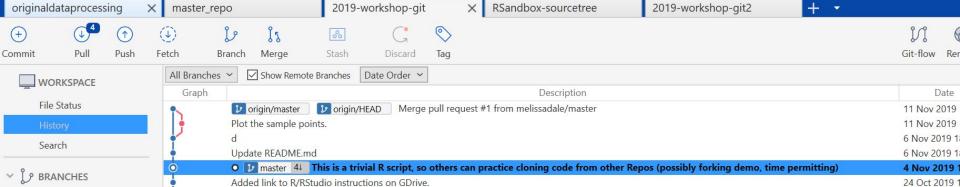
Right-click version to undo, reverse commit:



Reset! In Source Tree

Right-click version to undo, reverse commit:

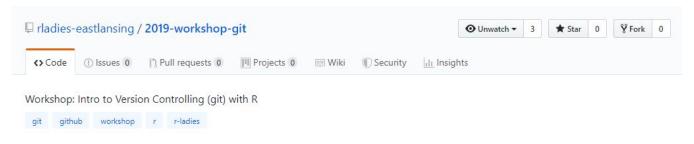




210 . 2010

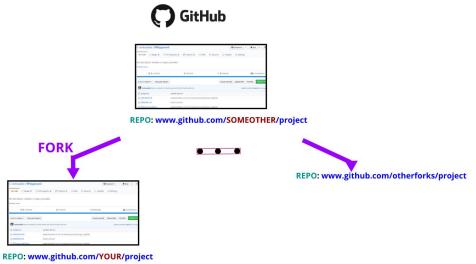
File Edit View Repository Actions Tools Help

Cloning vs Forking



Clone = download to LOCAL

Fork = copy to my HOST



Other terms

