Using Git and Github in RStudio

R cafe showcase — Monday October 15th

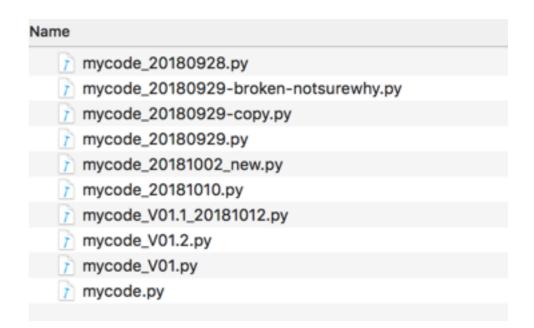


What is Git?

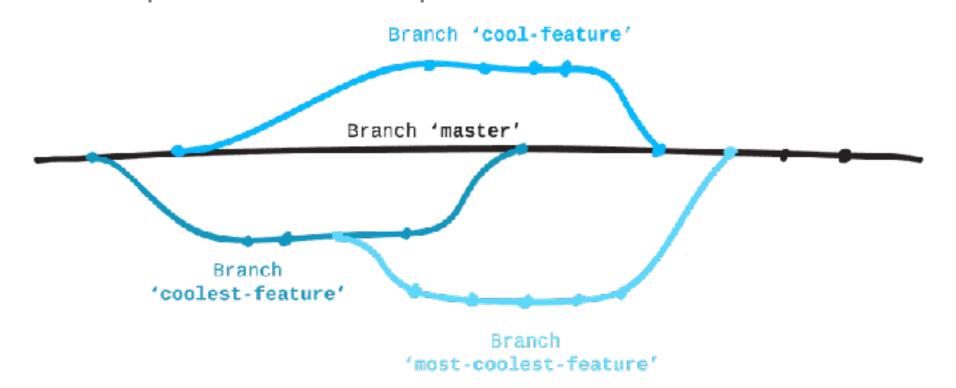
- Version control software
- Free, powerful, reliable, and increasingly popular! (Yes, there are others. There are more ways to skin a cat. But we like git!)

Why use version control?

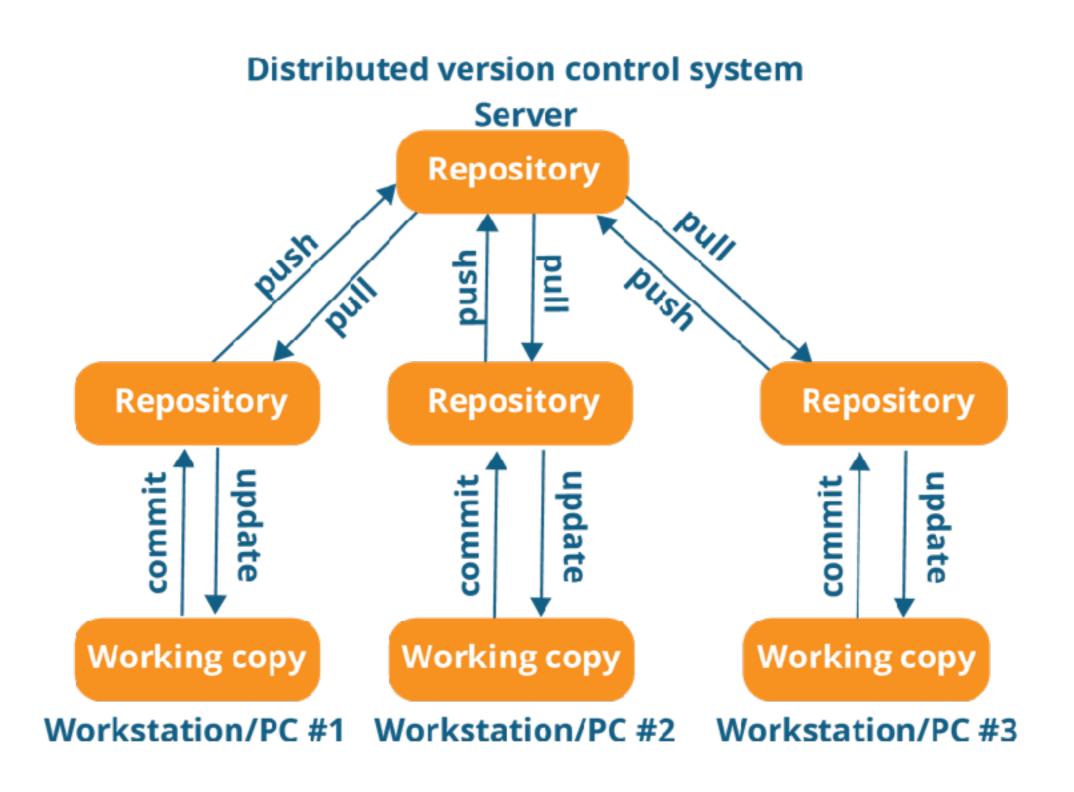
· Instead of this cluster



... you can update and experiment:



... and you can collaborate!



Do you have...

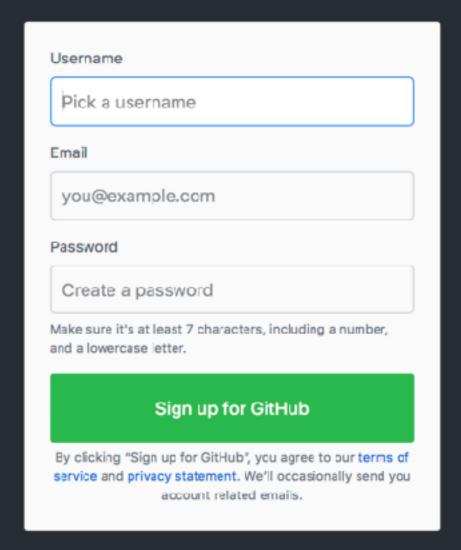
- Git installed on your computer?
 - Windows: gitforwindows.org
 - Mac: http://git-scm.com/downloads
 - Linux: sudo apt-get install git-core
- A GitHub account?
 - · github.com
- (An updated version of R and Rstudio?)
- Let's get started!





Built for developers

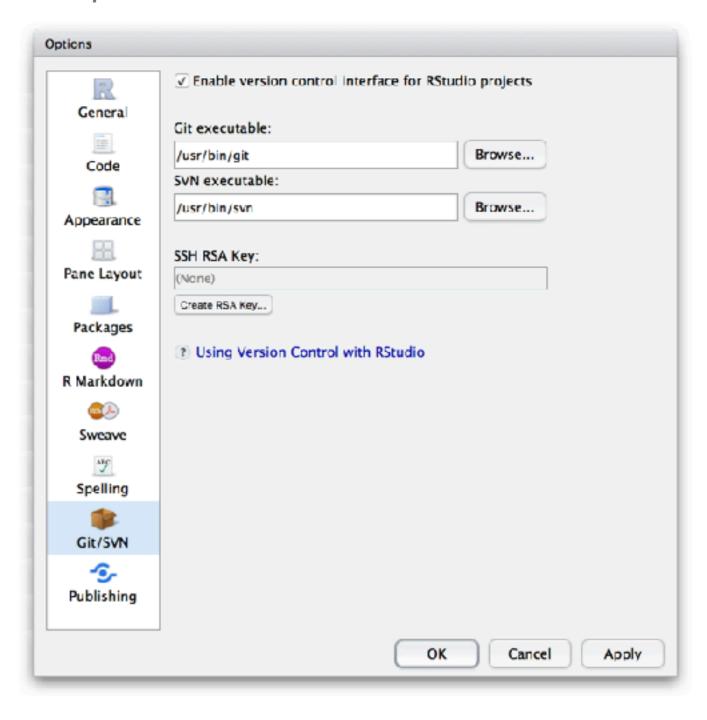
GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 28 million developers.





Activate Git in RStudio

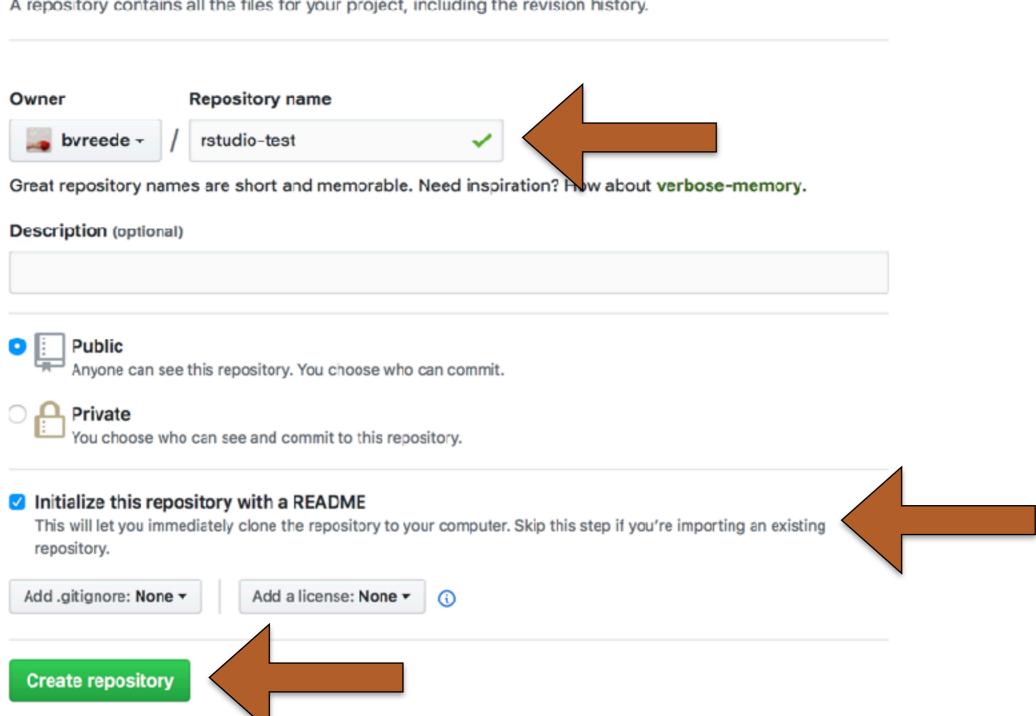
Tools > Global Options > Git/SVN



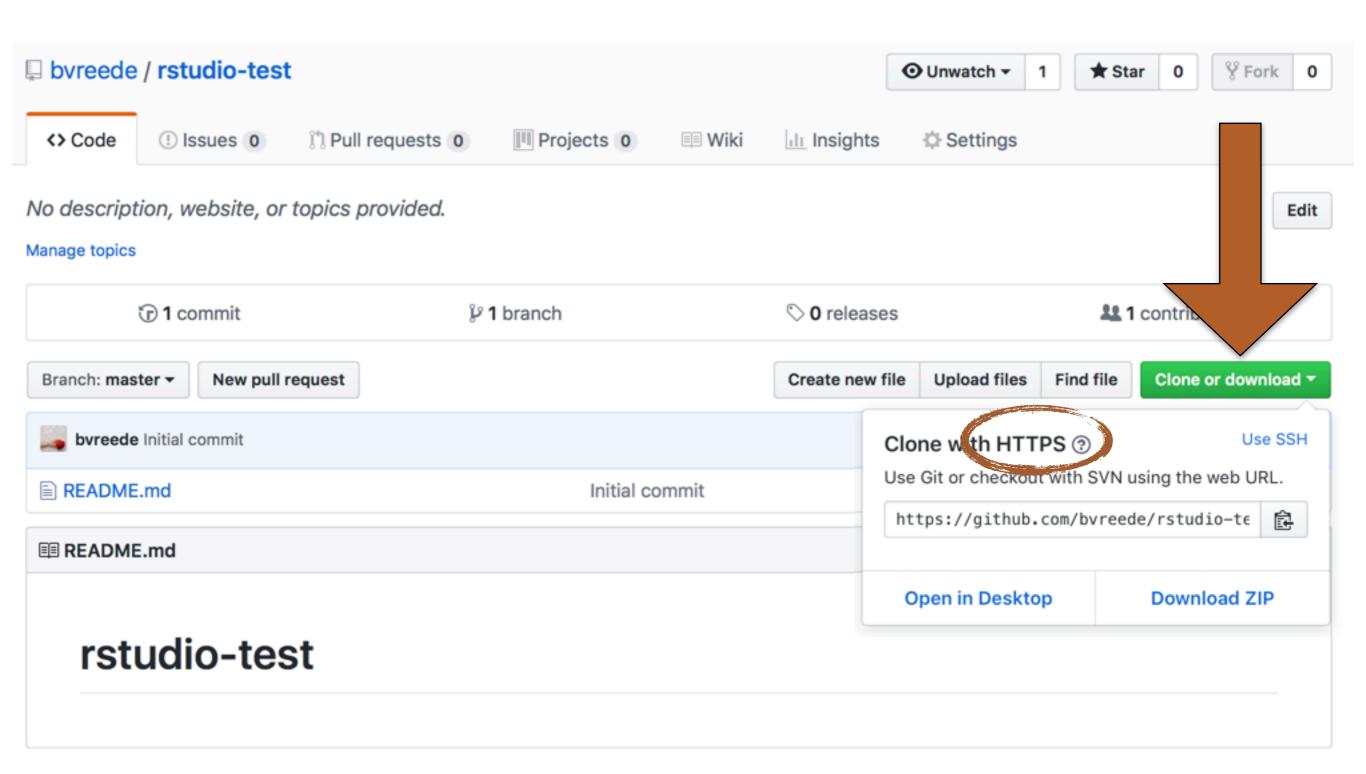
Create and initialize a new repository

Create a new repository

A repository contains all the files for your project, including the revision history.



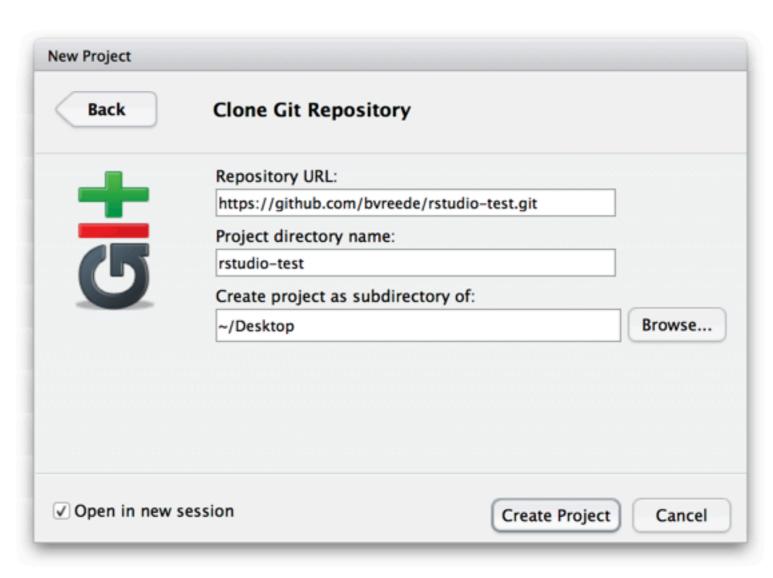
Clone the repository



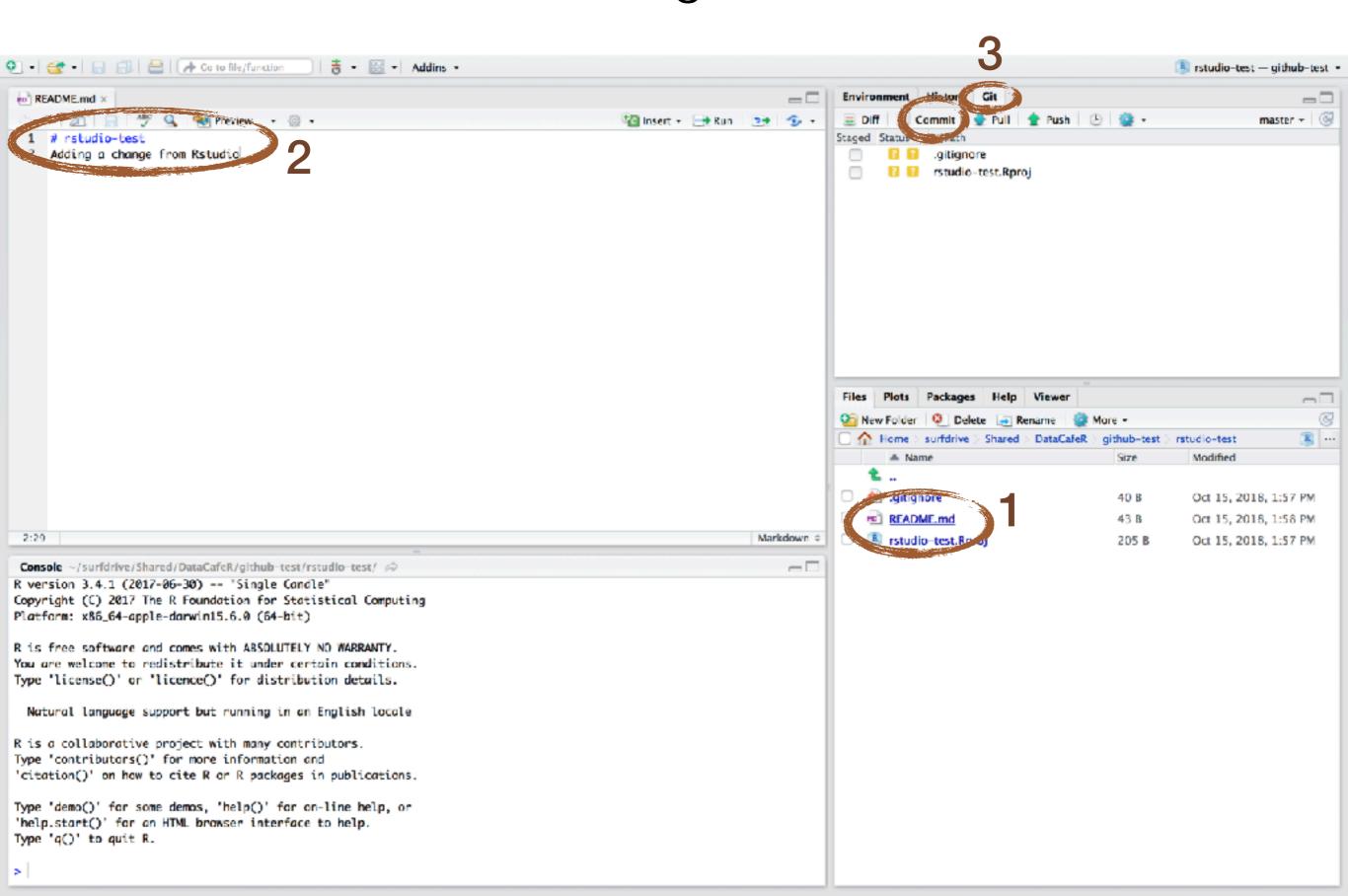
In Rstudio: start a new project



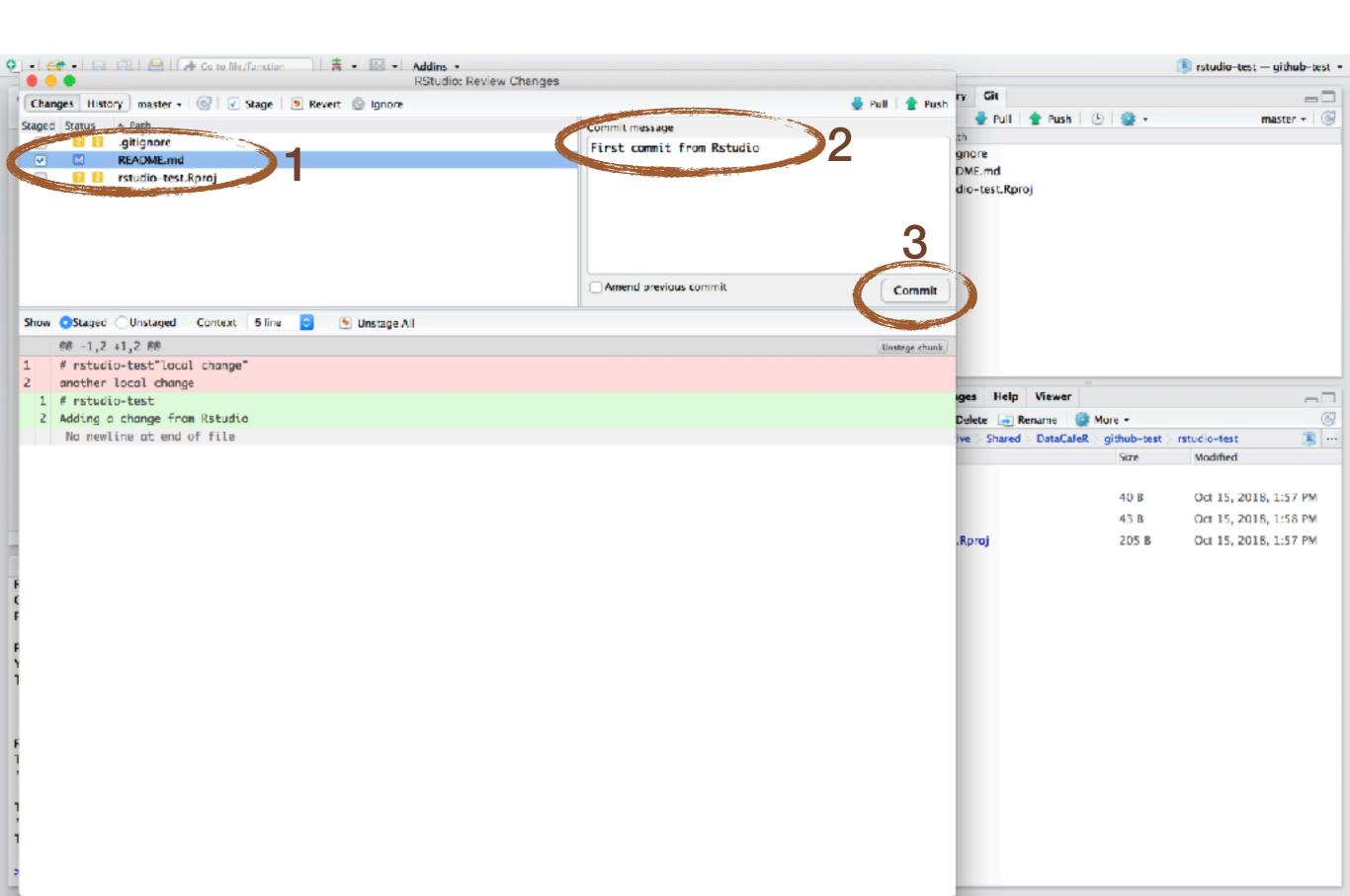
- File > New Project > Version Control > Git
- Paste the https: url of your repository



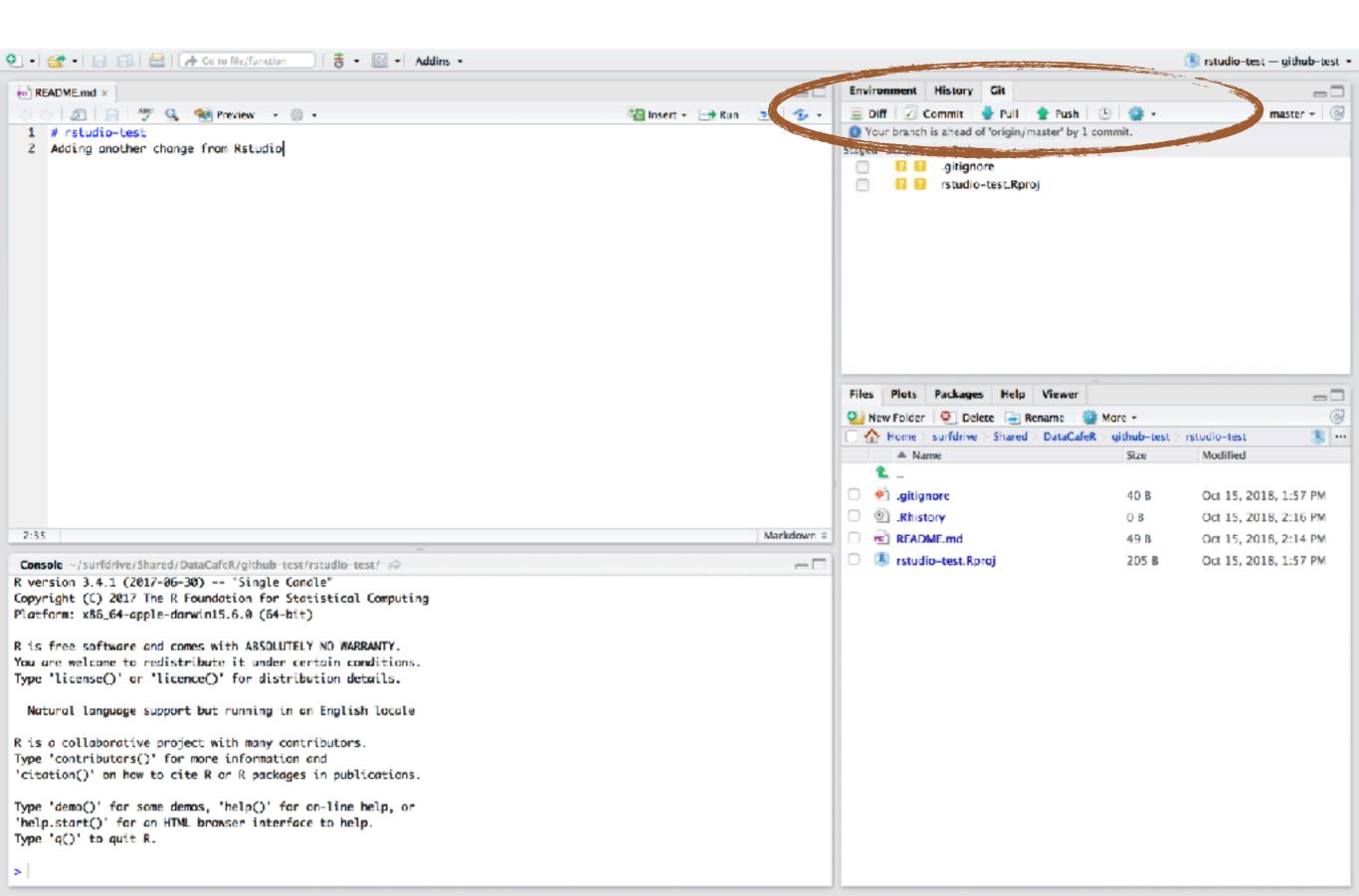
Select a file, make a change, save, commit...



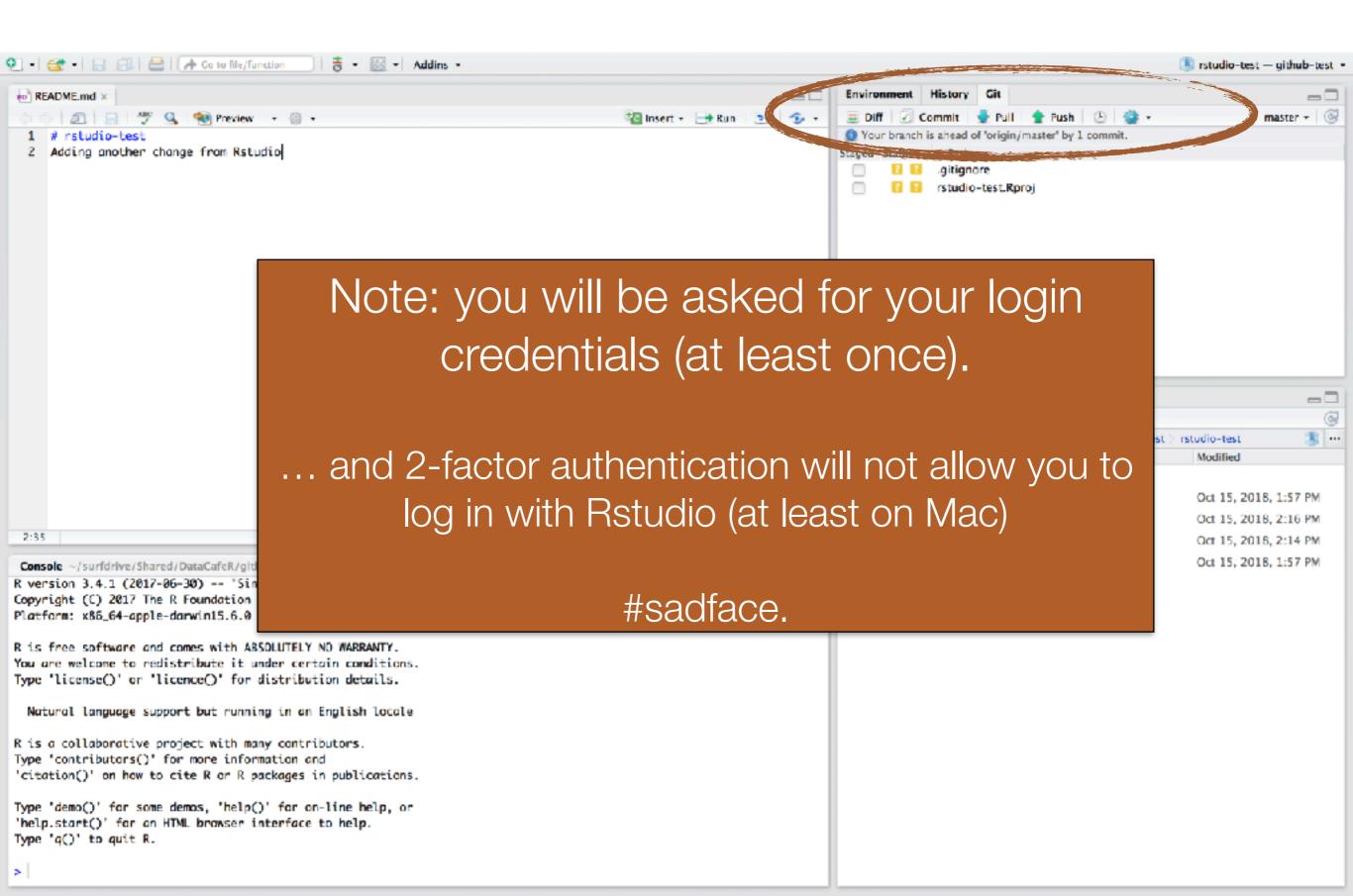
Commit the edited file...



Push the commit to the repository...



Push the commit to the repository...



The other way around...

File > New Project > New Directory > Empty...

DEMO!

More info?

Check out happygitwithr.com (and particularly chapter 13!)