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R/RStudio & Git/GitHub

Resources

Any External Resources Needed for Help with
Using Git/GitHub and R/RStudio

Website Guides:

- [*Happy Git and GitHub for the useR*](#) - Jenny Bryan, the STAT 545 TAs, Jim Hester
 - *The* top resource for beginners in the Git field, thoroughly laying out the steps to go from nothing at all to a linked and connected system in ~45 minutes
 - A wonderful long-form resource for:
 - Installing Git and connecting it with GitHub and R/RStudio
 - Setting up easy and common workflows in R & Git
 - Using R Markdown with Git/GitHub
 - **Troubleshooting** - There's a whole section at the end for determining why your R/RStudio cannot pull, push, or anything else you may need
- [*Git and GitHub*](#) - Hadley Wickham (yes, *that* Hadley Wickham)
 - A thorough introduction to Git and GitHub focused solely on integrating R and Git, though a bit shell-focused (typing in Git Bash script)
 - Useful long-form resource for:
 - Learning to use Git as a way to save R scripts
 - **Referencing** useful commands
- [*Git for Humans*](#) - Alice Bartlett
 - A quick, accessible, and entertaining slideshow covering *why* Git is useful and *how* it can be used, focusing on basic tasks such as the ones our lab will be using. With great graphics and essential vocabulary, this **~5-10 minute slideshow** is a must-view
 - Useful short-form slideshow for:
 - Vocabulary refresher

- Helpful graphics to understand what is really going on with Git

Publications:

- [**Excuse me, do you have a moment to talk about version control?*](#) - Bryan, 2017
 - The publication version of the “Happy Git” guide, functions as a great introduction to the topic of version control for those who have never heard of Git before
 - Includes:
 - What Git and GitHub (and version controls in general) are
 - Why using Git/GitHub is helpful is the first place
 - Initial set-up instructions and helpful hints
 - A guide to go from nothing to a functional and connected Git/R interface
- [Ten Simple Rules for Taking Advantage of Git and GitHub](#) - Riverol et al, 2016
 - Publication with ten rules for Git, advanced methods for tracking files, tagging, and automating tasks
 - Likely to be above what our lab is using Git for, but contains some useful notes

Other resources:

-[Using Git within RStudio](#): Walkthrough for simple things, such as sending a script to a repo in RStudio & setting up a GitHub repo from RStudio

-[An introduction to Git and how to use it with RStudio · The R class](#): In-depth and quick guide to doing specific tasks, such as branching and pull requests

-[Terminus](#): An educational game/simulation to get you used to typing in a command line shell

-[Introduction to the Shell](#): A useful reference for operating in command line interfaces (such as Git), with a guide to some of the most commonly used commands and instructions for how to do simple to intermediate level tasks