

# GEOG 5680

## Introduction to R

### 13: R and GitHub

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# What is git?

- Version control system
- Manages a set of files in a *\*repository\**
- Provides simple method for incremental backups
- System for collaboration and communication
- Tools for updating, tracking changes, bug notification and tracking, ...

# Why use GitHub?

- GitHub provides a hosting service for your repository (others include Bitbucket and Gitlab)
- Provides a frontend to your project as well as a cloud-based backup
- Makes it easy to share code (and retrieve your own code if your local copy is not working)
- Used for the development of lots of R packages - you can use it to develop your own package

# How do you set it up?

To get R/Rstudio talking to GitHub you will need to do the following:

- Create a GitHub account (it's free...)
- Install/upgrade R and RStudio
- Install git
- Setup github
- Connect R to GitHub

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# GitHub

The screenshot shows a web browser displaying the GitHub repository page for 'simonbrewer / chrissie'. The repository has 28 commits, 1 branch, 0 packages, 0 releases, and 1 contributor. The 'Code' tab is selected, showing a list of files and their commit history. The files listed are: chrissie\_lake, cru/cl, dem, fortran, README.md, chrissie.Rproj, getClimDailyGrid.R, getPWA.R, getPWA\_test.R, and helpers.R. The commit history for each file is shown, with the latest commit for each file being 15 months ago, except for helpers.R which is 9 months ago.

simonbrewer / chrissie

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28 commits 1 branch 0 packages 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

File	Commit Message	Time Ago
chrissie_lake	Modified pwa routines	15 months ago
cru/cl	Modified script to generate climate indices	15 months ago
dem	Added new test case - small 4x3 region based on Chrissie DEM	15 months ago
fortran	Minor updates to fortran code (appears to be working but flowing too ...)	15 months ago
README.md	Example commit	15 months ago
chrissie.Rproj	Set up git with basic scripts and fortran codes	15 months ago
getClimDailyGrid.R	Modified script to generate climate indices	15 months ago
getPWA.R	Modified pwa routines	15 months ago
getPWA_test.R	Corrected getpwa.f (again) to capture pour point	15 months ago
helpers.R	Updated test case to use more sensible values	9 months ago