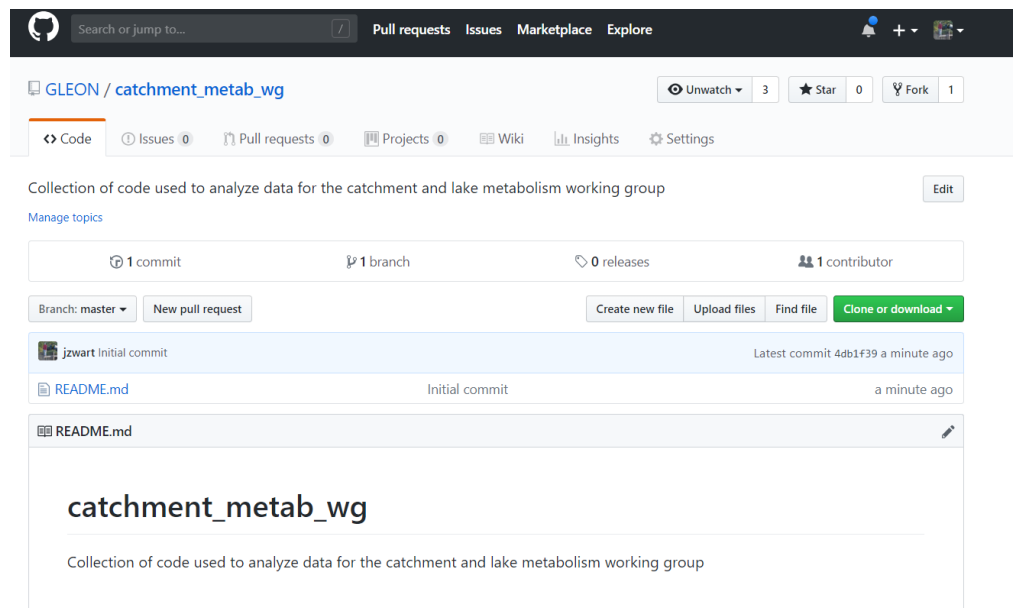
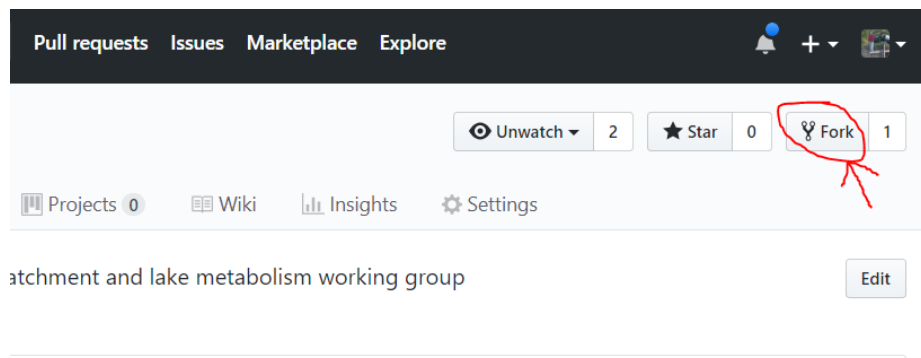


## How to contribute to the repository (shown using RStudio)

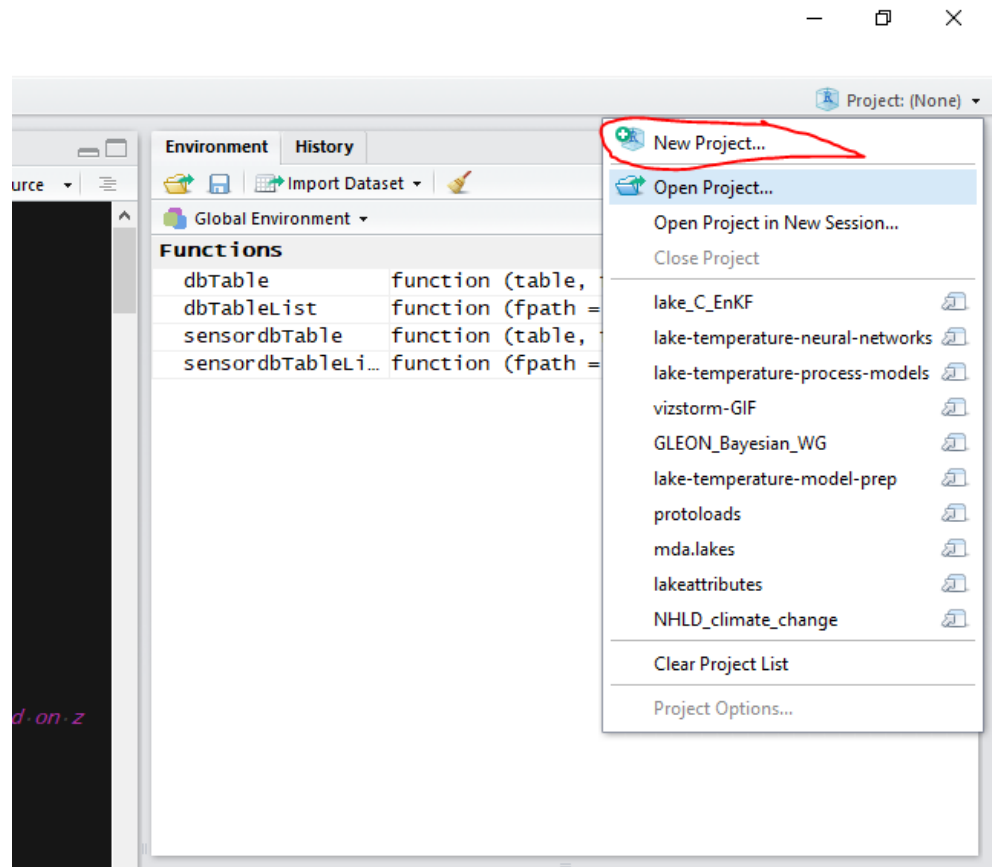
1. Make sure you have a [GitHub](#) account. You can practice using git for version control with some simple [tutorials](#). This [webpage](#) will show you how to enable version control in RStudio and how to [add a SSH key](#) for quicker pushing to Github.
2. Navigate to the [repository](#) in the GLEON organization.



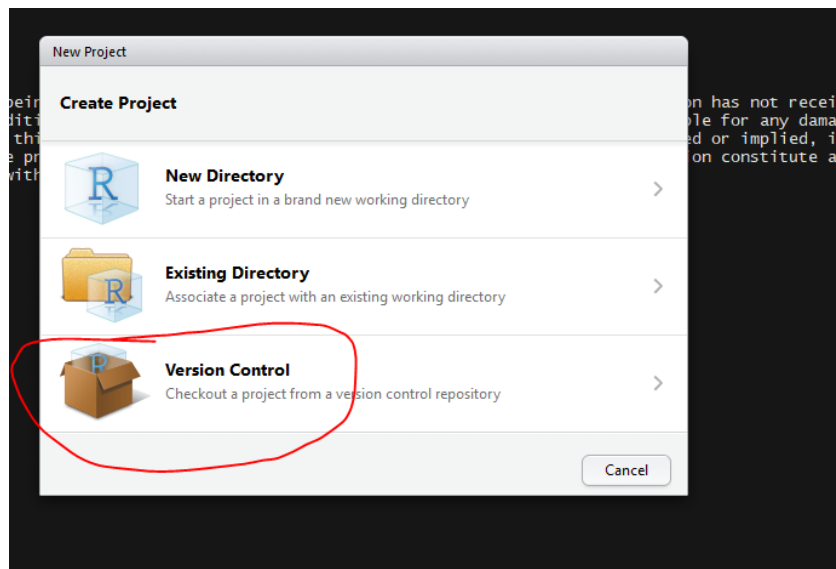
3. Fork the catchment\_metab\_wg repository to your own Github account



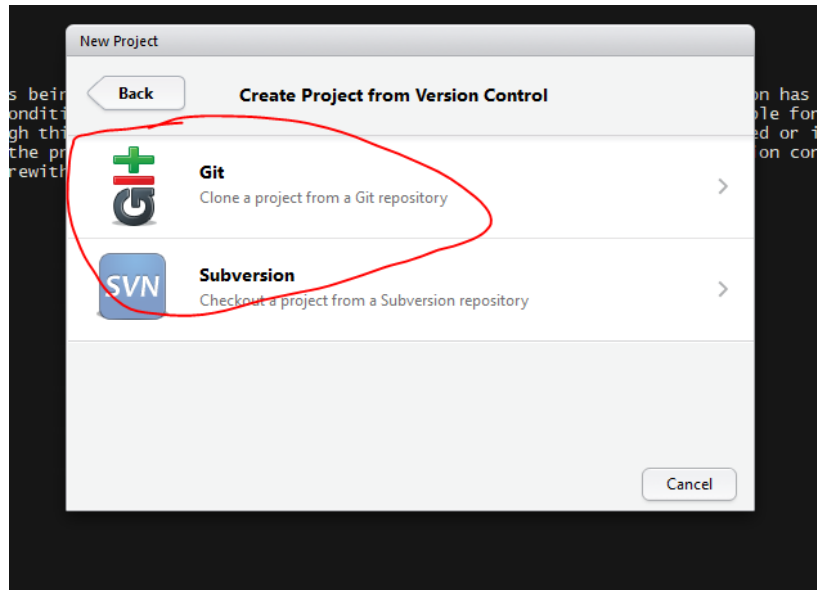
4. Open RStudio and click on the *Project* pull down tab. Select *New Project...*



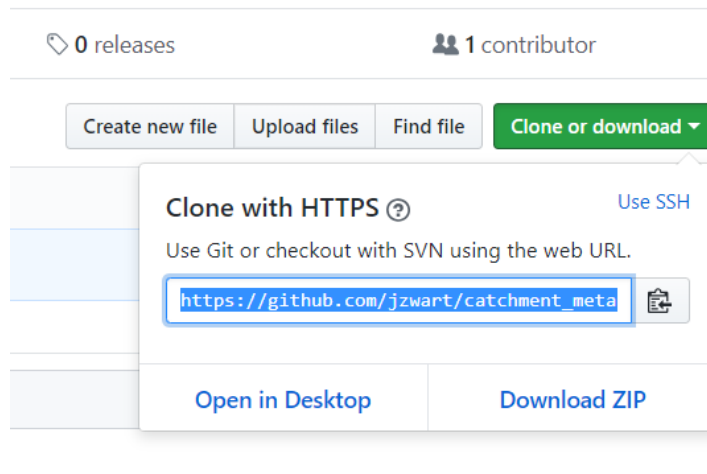
5. Select *Version Control*



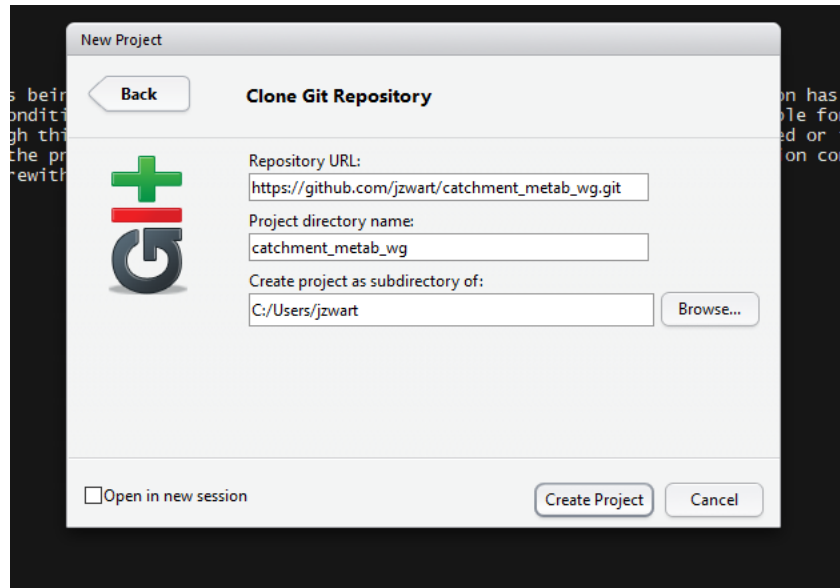
6. Select *Git*



7. Now you need to download your remote repository to your local computer. You will make changes on your local files and push them up to the remote repository. To download, navigate to your forked repository and click “Clone or download” and copy the URL



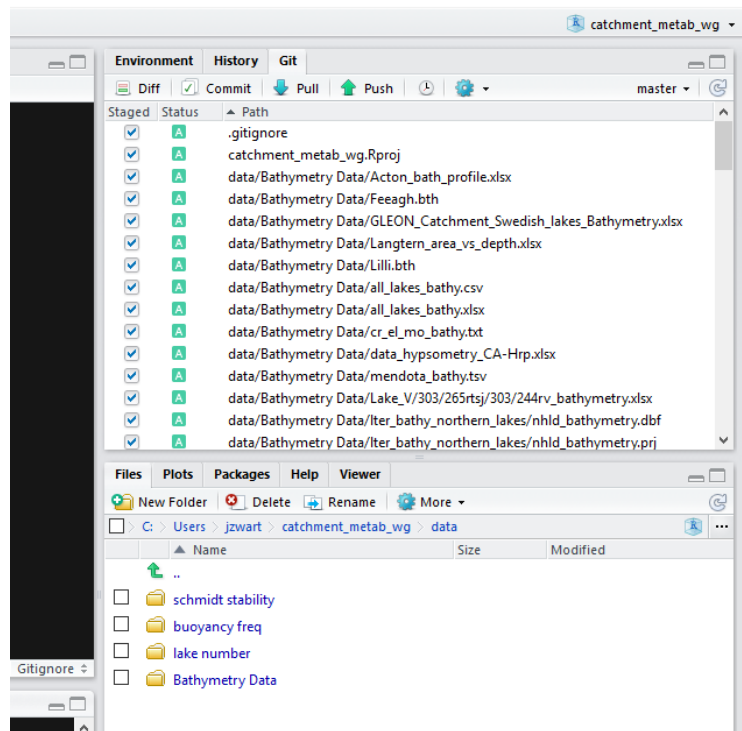
8. Paste the URL in the new project's *Repository URL*; the directory name should automatically populate. Click 'Create Project'. All the files on the Github repository will download to your local computer.



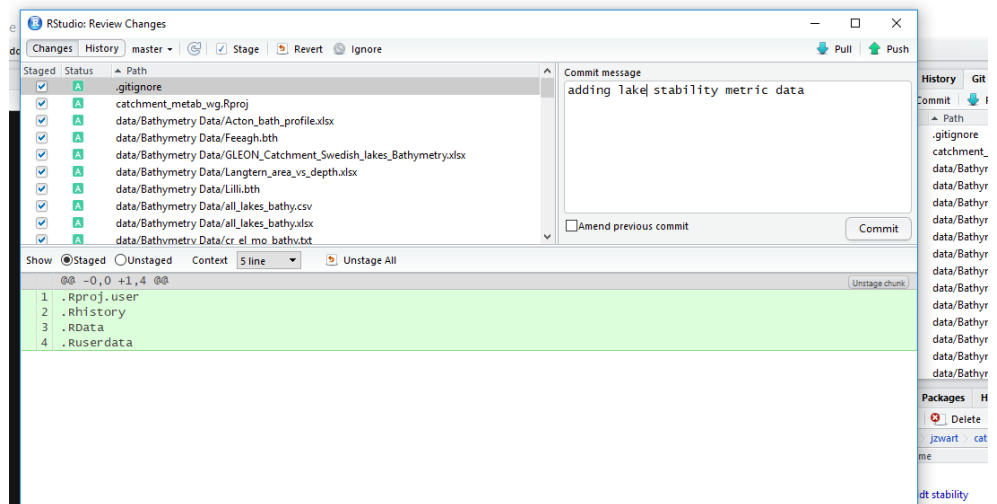
9. Start Coding! When you make changes to a file or group of files and you want other people working on the repository aware of you changes, you need to:
  - a. *Commit* your changed files,
  - b. *Push* your commit up to your remote repository (your forked repo on you own github account), and
  - c. create a *Pull Request* for a group of commits that you want to be merged into the main repository on the GLEON organization github repository.

More details on these steps below.

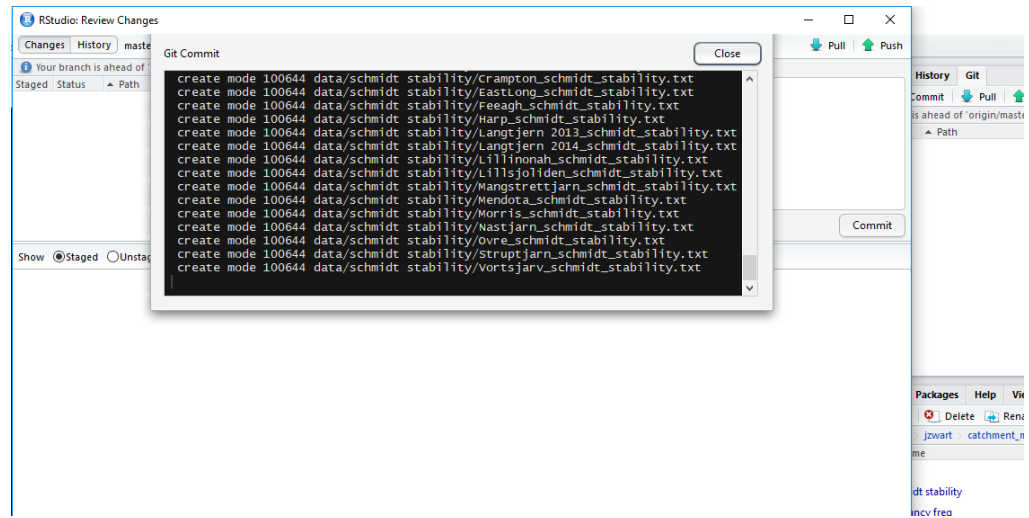
10. When you have made changes to files locally, navigate to the *Git* tab in RStudio and check the files you want to Commit.



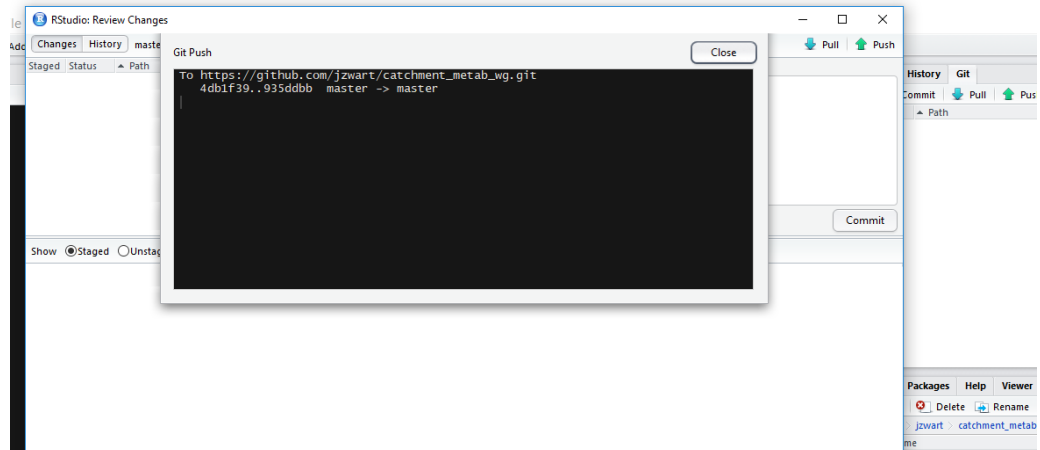
11. Add a commit message about your file changes



## 12. Press Commit



## 13. Push your committed files up to your remote repository (this will be on your github account)



14. When you have made commits that you want to be merged into the main 'upstream' repository (the GLEON repo), you need to create a *Pull Request* from your remote repository to the GLEON repository. Navigate to your remote forked repository and select *New pull request*

The screenshot shows the GitHub interface for a repository named 'catchment\_metab\_wg' by user 'jzwart', which is a fork of 'GLEON/catchment\_metab\_wg'. The repository description is 'Collection of code used to analyze data for the catchment and lake metabolism working group'. It has 4 commits, 1 branch, 0 releases, and 1 contributor. The 'Branch: master' dropdown is open, and the 'New pull request' button is highlighted with a red circle. Below this, a commit history table is visible.

File	Commit Message	Time Ago
data	adding lake stability metric data	12 minutes ago
results	adding nutrient load results	2 minutes ago
.gitignore	adding nutrient load results	2 minutes ago
README.md	Initial commit	an hour ago
catchment_metab_wg.Rproj	adding lake stability metric data	12 minutes ago

15.