Using git in RStudio

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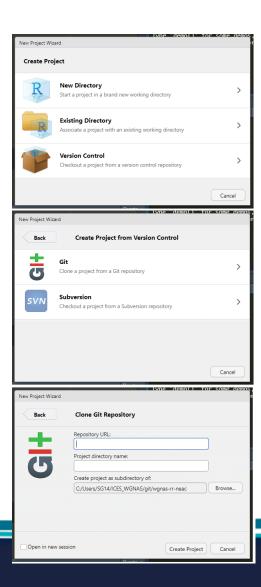
Together we are working for a sustainable blue future





Setup

- Assume R, RStudio & git installed & working together
 - If not, see Appendix
- Create a GitHub account
- Create a repository ("repo") on GitHub
- clone the repo as an RStudio project
- Write a **README.md** using markdown







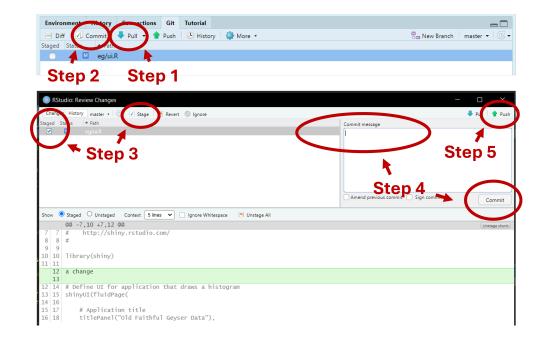
Regular use

Step 1 Click *Pull* on *Git panel*

• Create, edit, modify, e.g., R scripts, then:

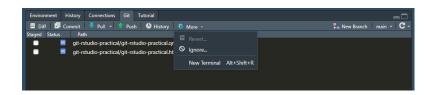
Step 2 Click Commit on Git panel
Step 3 Check boxes to Stage changes to commit
Step 4 Write Commit message & click Commit
Step 5 Once committed, don't forget to Push

• Changes visible on GitHub 😂

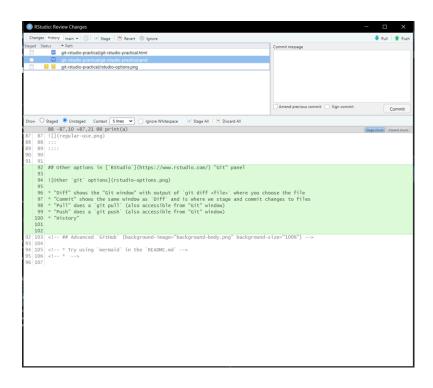




Other options in RStudio



Other git options in the Git panel



- **Diff** opens *Git window* with output of **git diff** <**file**> of choosen file
- Commit opens Git window is where we stage and commit changes to files
- Pull does a git pull (also accessible from Git window)
- **Push** does a **git push** (also accessible from *Git window*)
- History opens a window with output of git log
- ! Go directly to bash and don't pass go

 By now, you've exhausted git options in RStudio: use bash!
- More menu allows access to git revert & add files to .gitignore
- Create and checkout a Branch using buttons on the RHS

RStudio Git window

Appendix





Install R on Windows

- Visit the R website
- Follow the links to download R, incl. select mirror and OS
- Double click installer and follow instructions
- Install required packages with install.packages()



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Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To **download R**, please choose your preferred CRAN mirror.

If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked questions before you send an email.

News

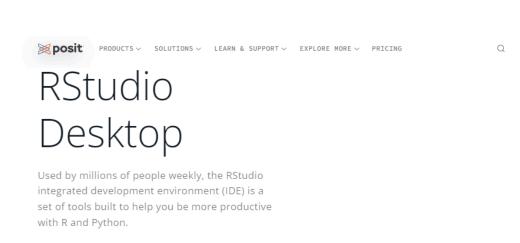
- R version 4.4.1 (Race for Your Life) prerelease versions will appear starting Tuesday 2024-06-04. Final release is scheduled for Friday 2024-06-14.
- We are deeply sorry to announce that our friend and colleague Friedrich (Fritz) Leisch has died. Read our tribute to Fritz here.
- R version 4.4.0 (Puppy Cup) has been released on 2024-04-24.
- R version 4.3.3 (Angel Food Cake) (wrap-up of 4.3.x) was released on 2024-02-29.
- Registration for useR! 2024 has opened with early bird deadline March 31 2024.
- You can support the R Foundation with a renewable subscription as a supporting member.

News via Mastodon

D Foundation

Install RStudio on Windows

- Download RStudio installer
- Double click installer and follow instructions



Don't want to download or install anything? Get started with RStudio on <u>Posit Cloud for free</u>. If you're a professional data scientist looking to download RStudio and also need common enterprise features, don't hesitate to <u>book a call</u> with us.

1: Install R

RStudio requires R 3.6.0+. Choose a version of R that matches your computer's operating system.

DOWNLOAD AND INSTALL R

2: Install RStudio

DOWNLOAD RSTUDIO DESKTOP FOR WINDOWS

Size: 263.07 MB | <u>SHA-256: 44C8797C</u> | Version: 2024.04.1+748 | Released: 2024-05-11

RStudio Desktop download page

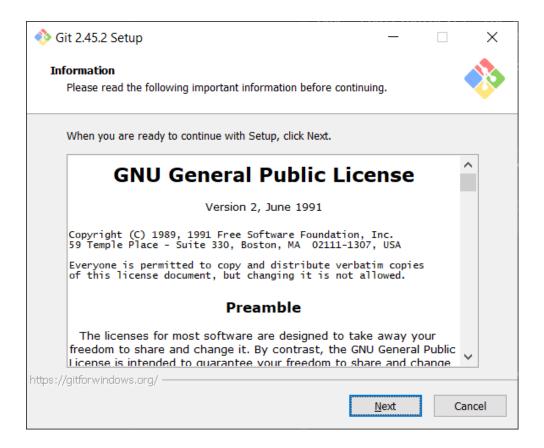
Install git on Windows

- Download git, currently v 2.45.2
- Double click installer and follow instructions

! Installation location

Note the location where git is installed, e.g.
C:\Users\{...}\AppData\Local\Programs\

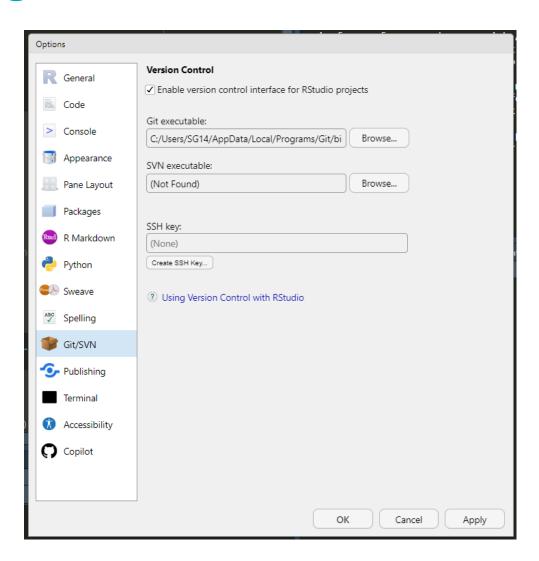
• Set git configurations, e.g., user.name, user.email, etc.



Initial git installer screen

Getting them to work together

- git authentication is OS-specific see David's slides
- Connect RStudio and git: Tools > Global Options... > Git/SVN



Connect RStudio and git