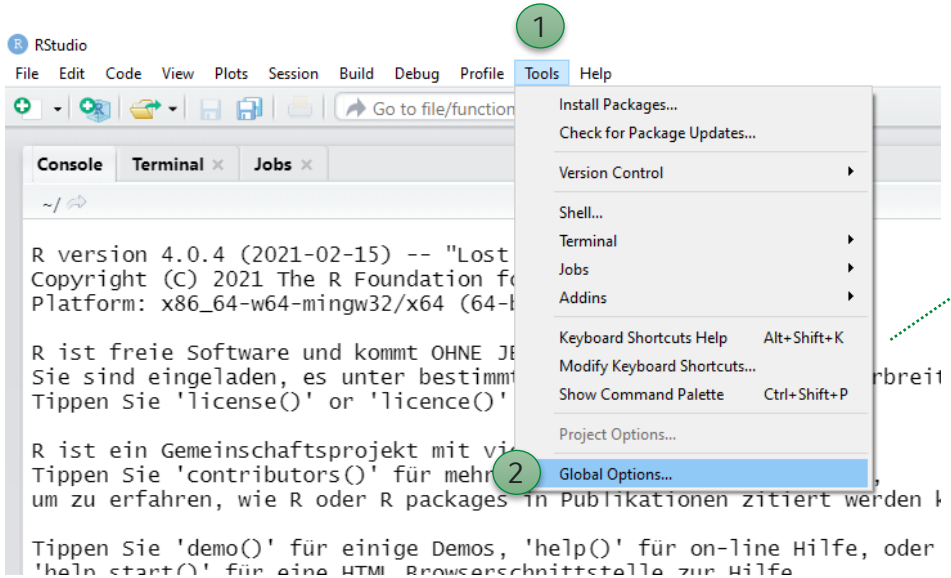
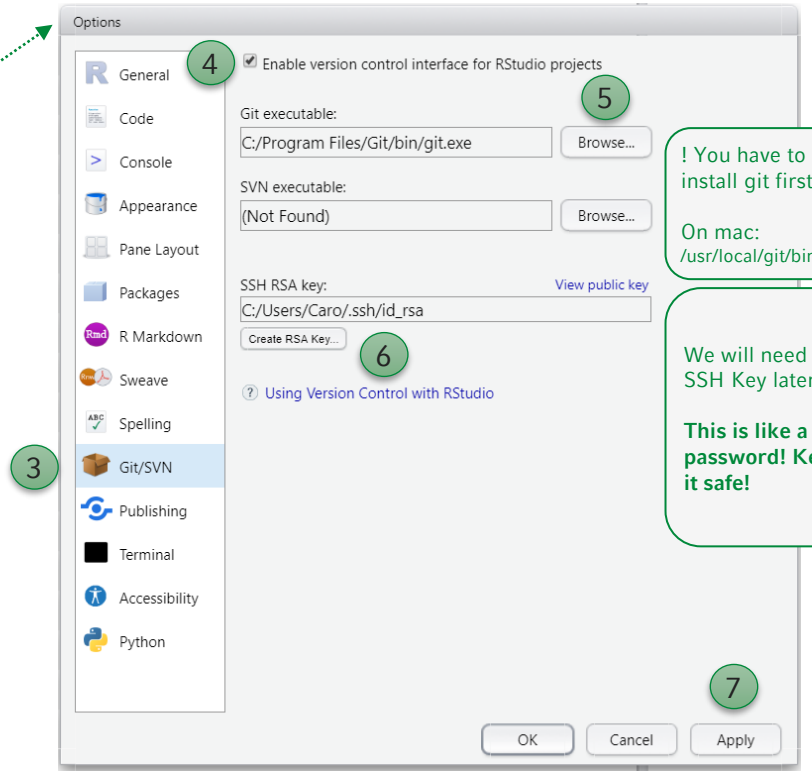
Live Demo – Connect Rstudio and Git (necessary only once)





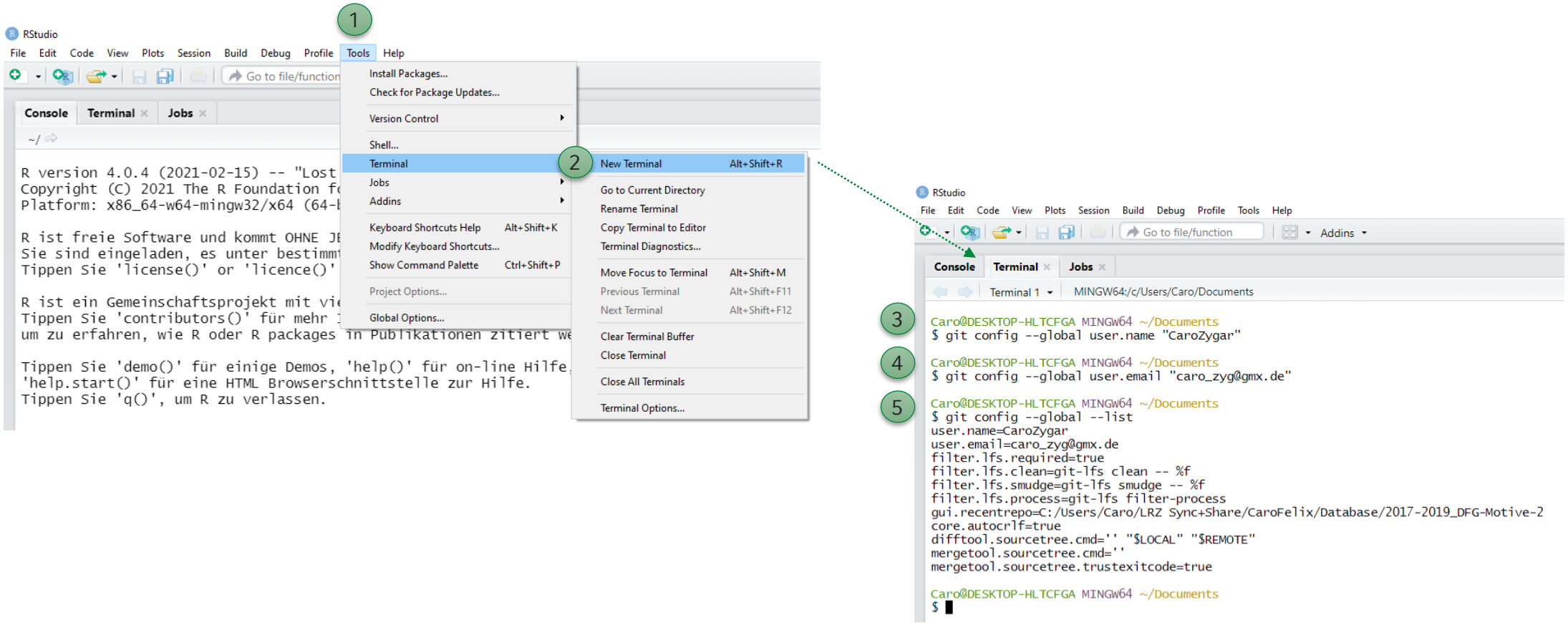
! You have to install git first !

On mac: /usr/local/git/bin/git

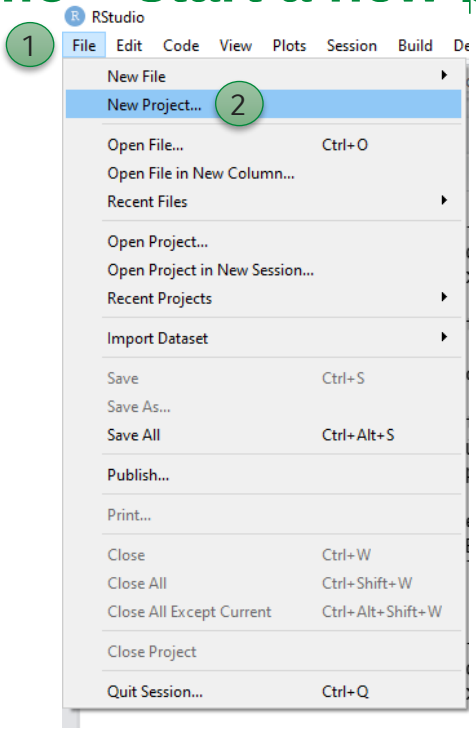
We will need the SSH Key later…

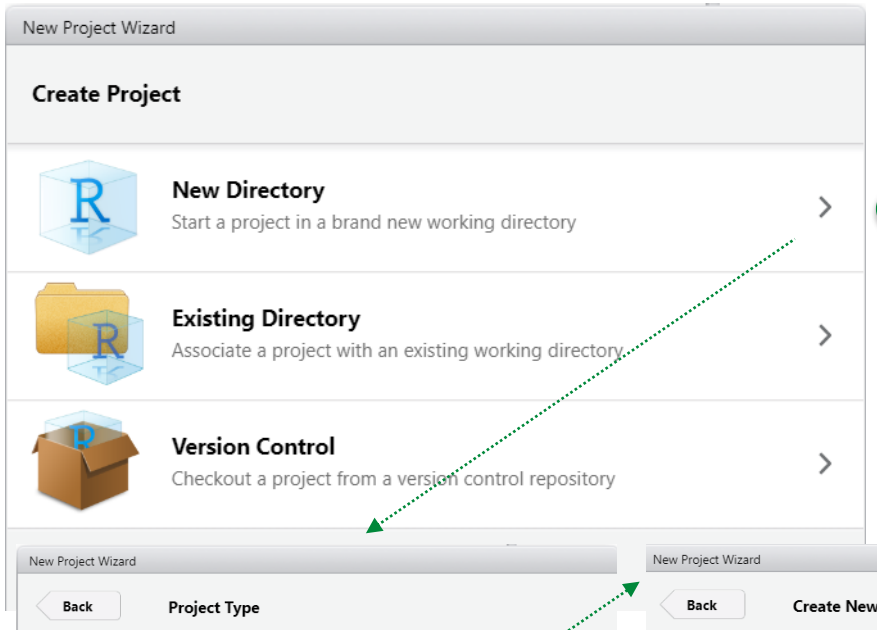
This is like a password! Keep it safe!

Live Demo – Initialize git (necessary only once)

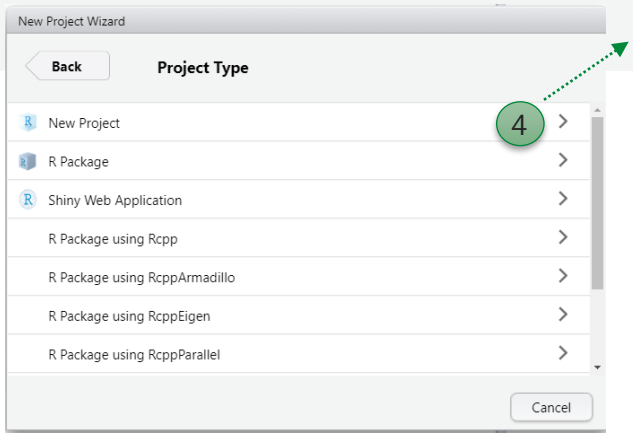


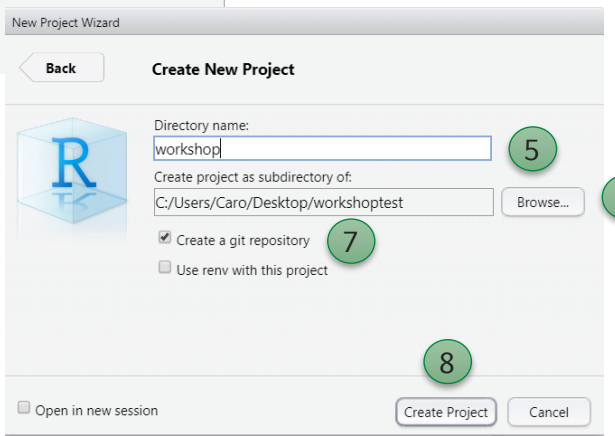
Live Demo – start a new project which includes git





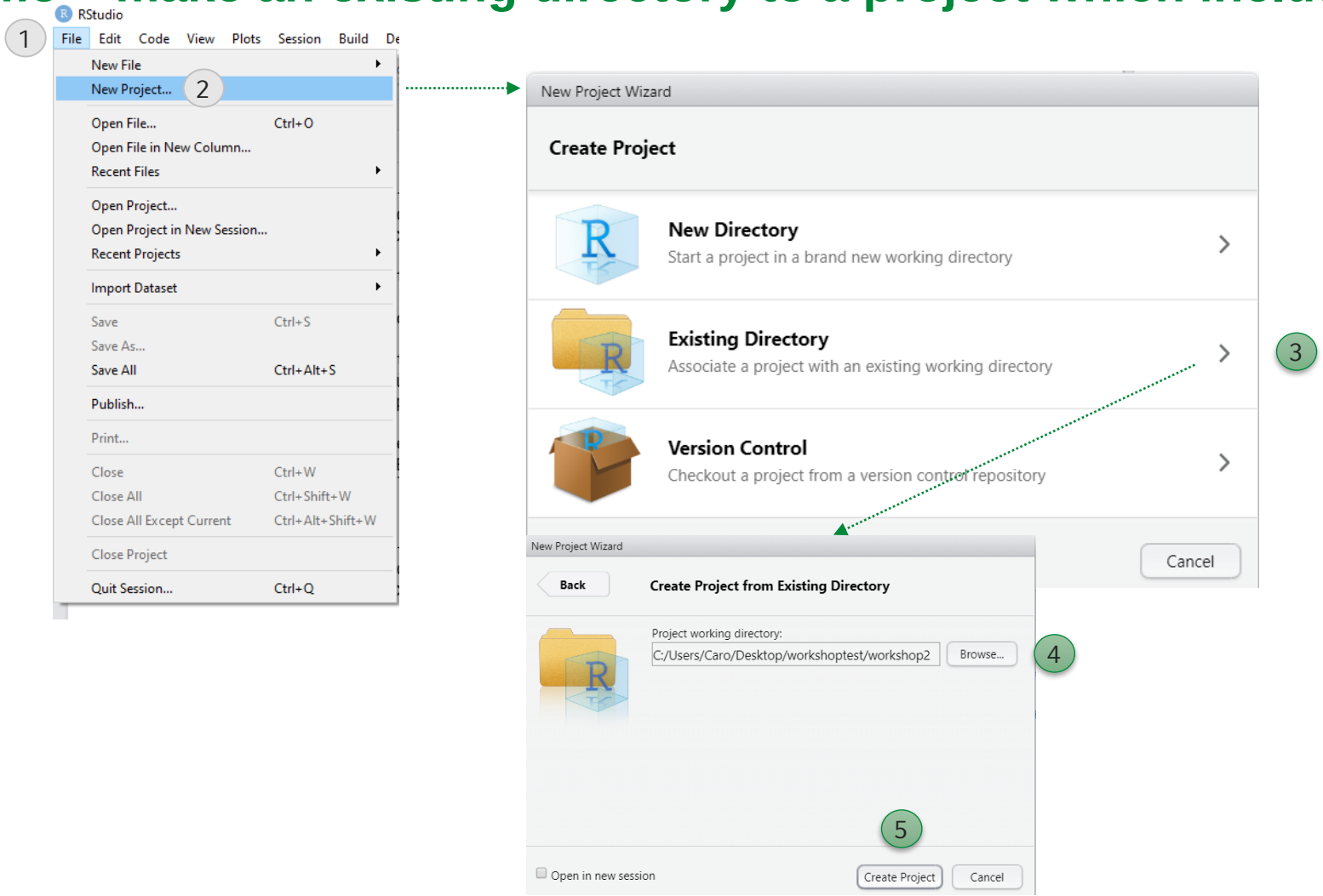
This will be relevant later…



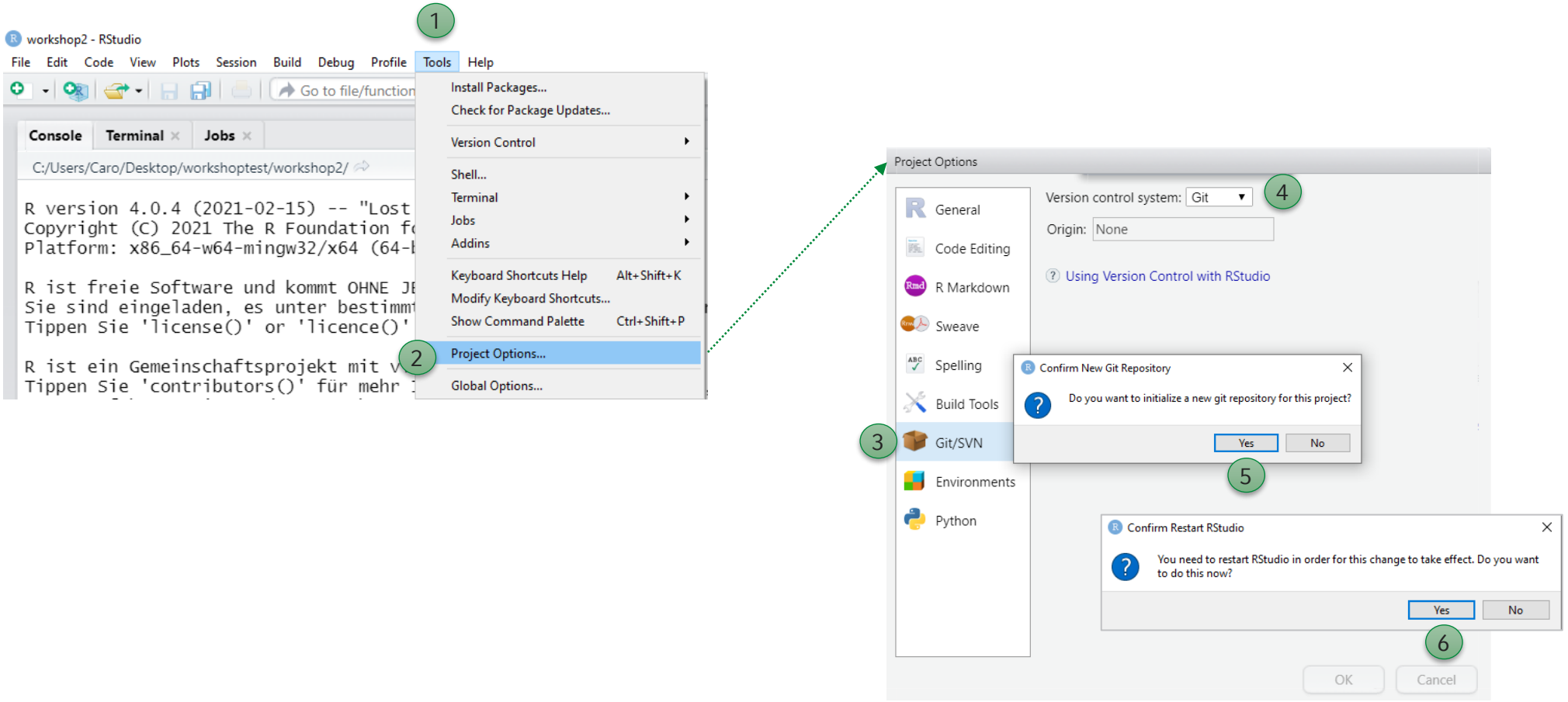


Irrespecitive of git: Using projects in R is useful, because your paths are relative to the project directory and you can re-open all associated R-scripts!

Live Demo – make an existing directory to a project which includes git (1)

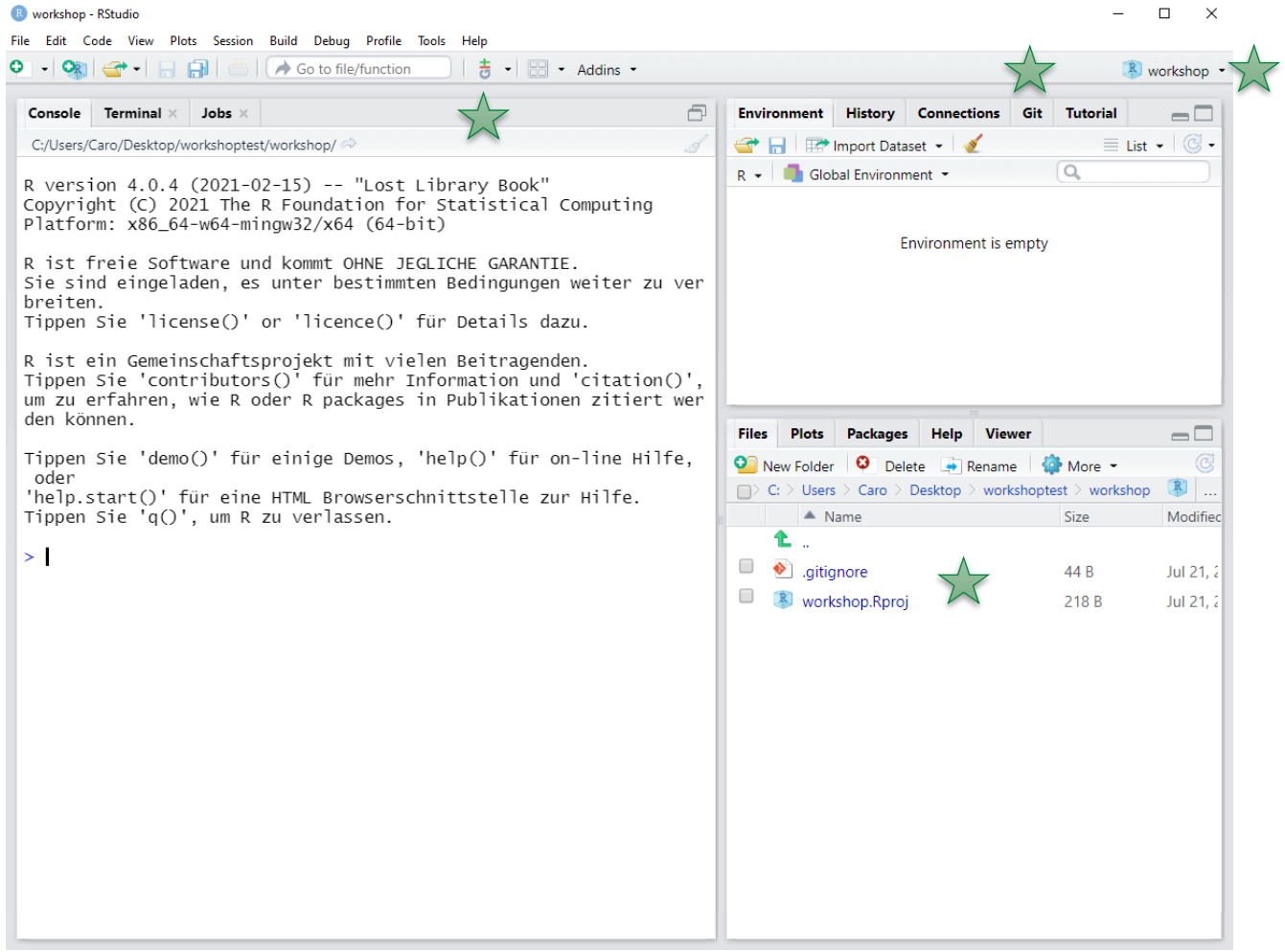


Live Demo – make an existing directory to a project which includes git (2)

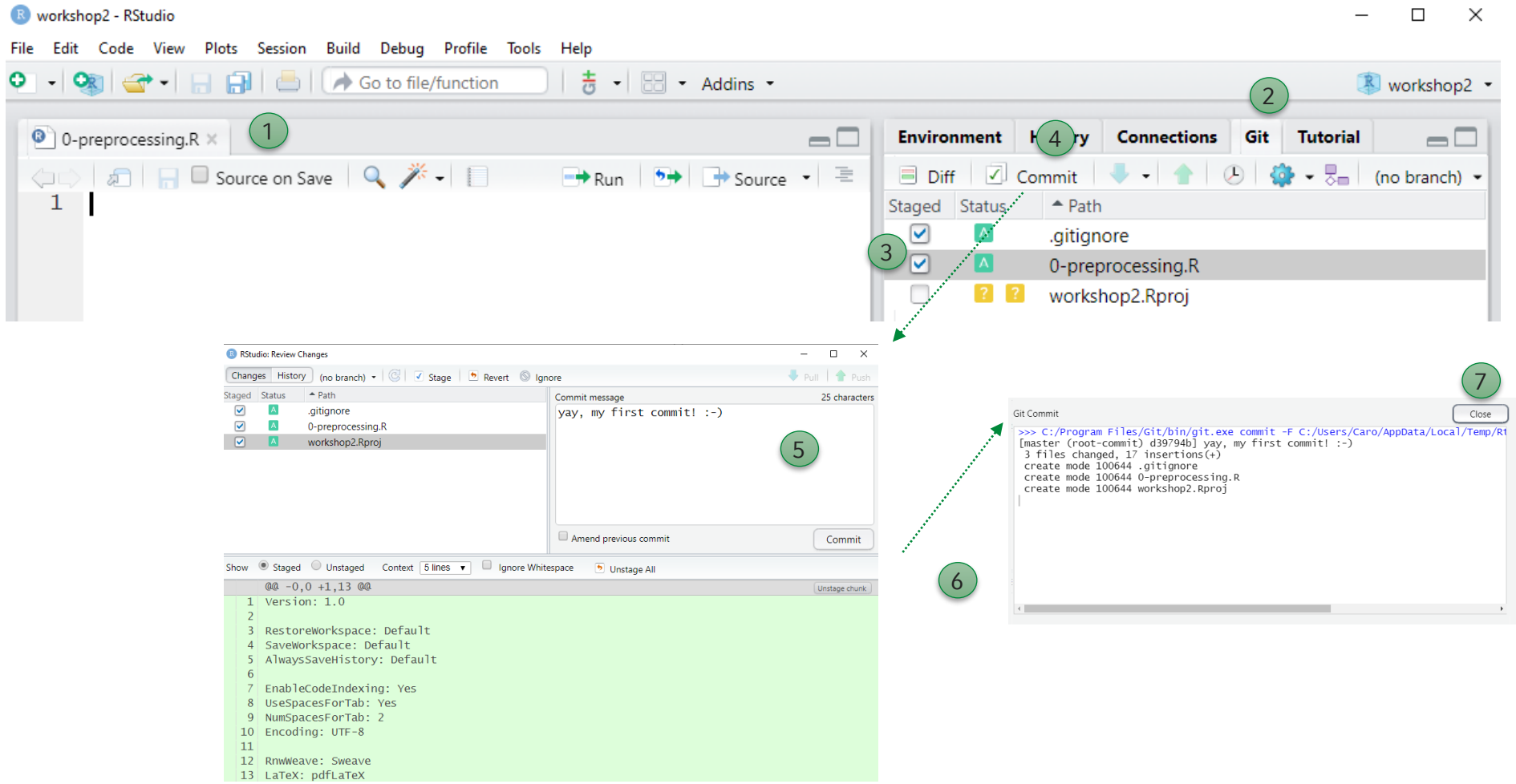


LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

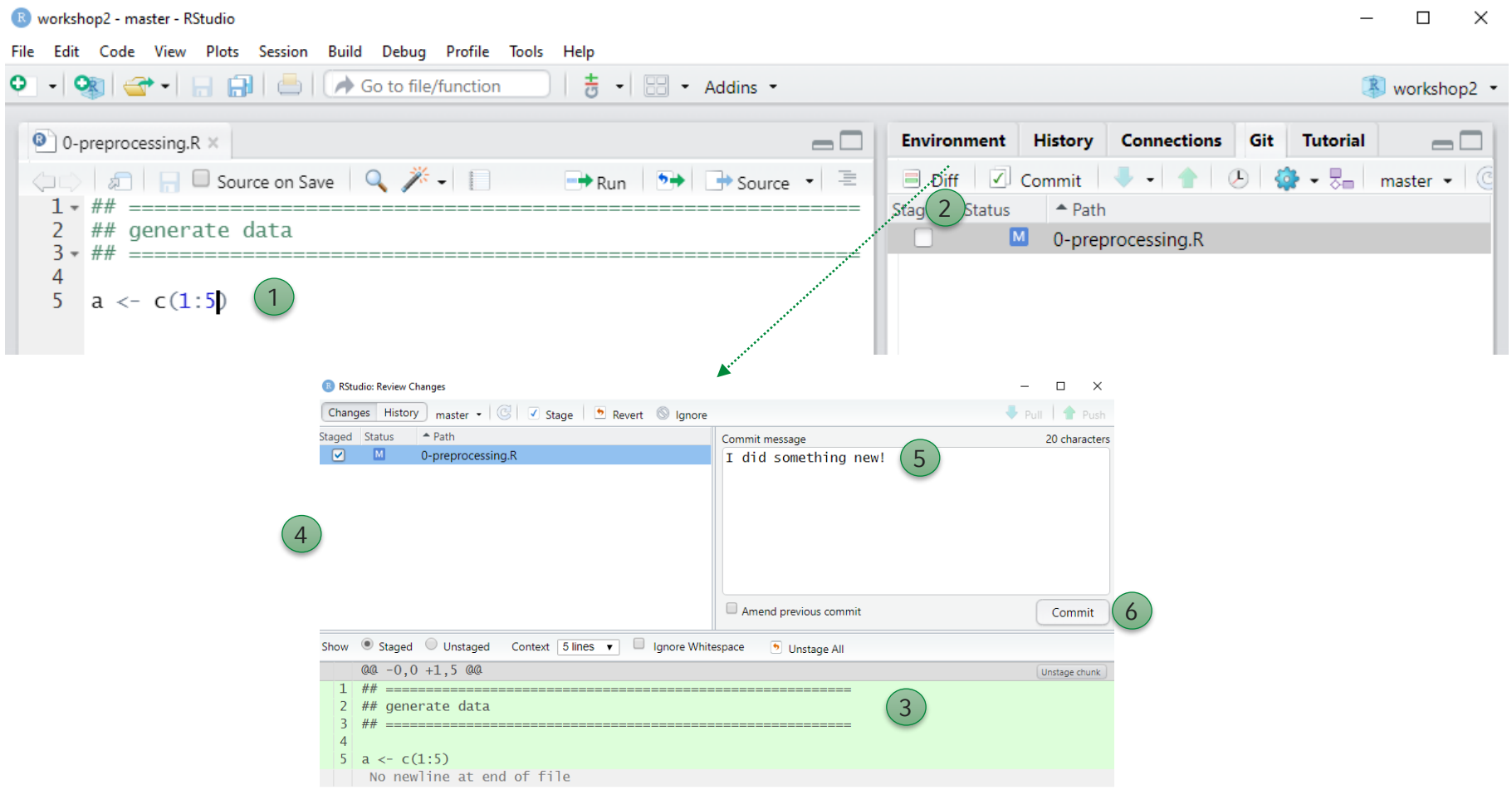
Live Demo – yay, we have a new project which includes git! :-)



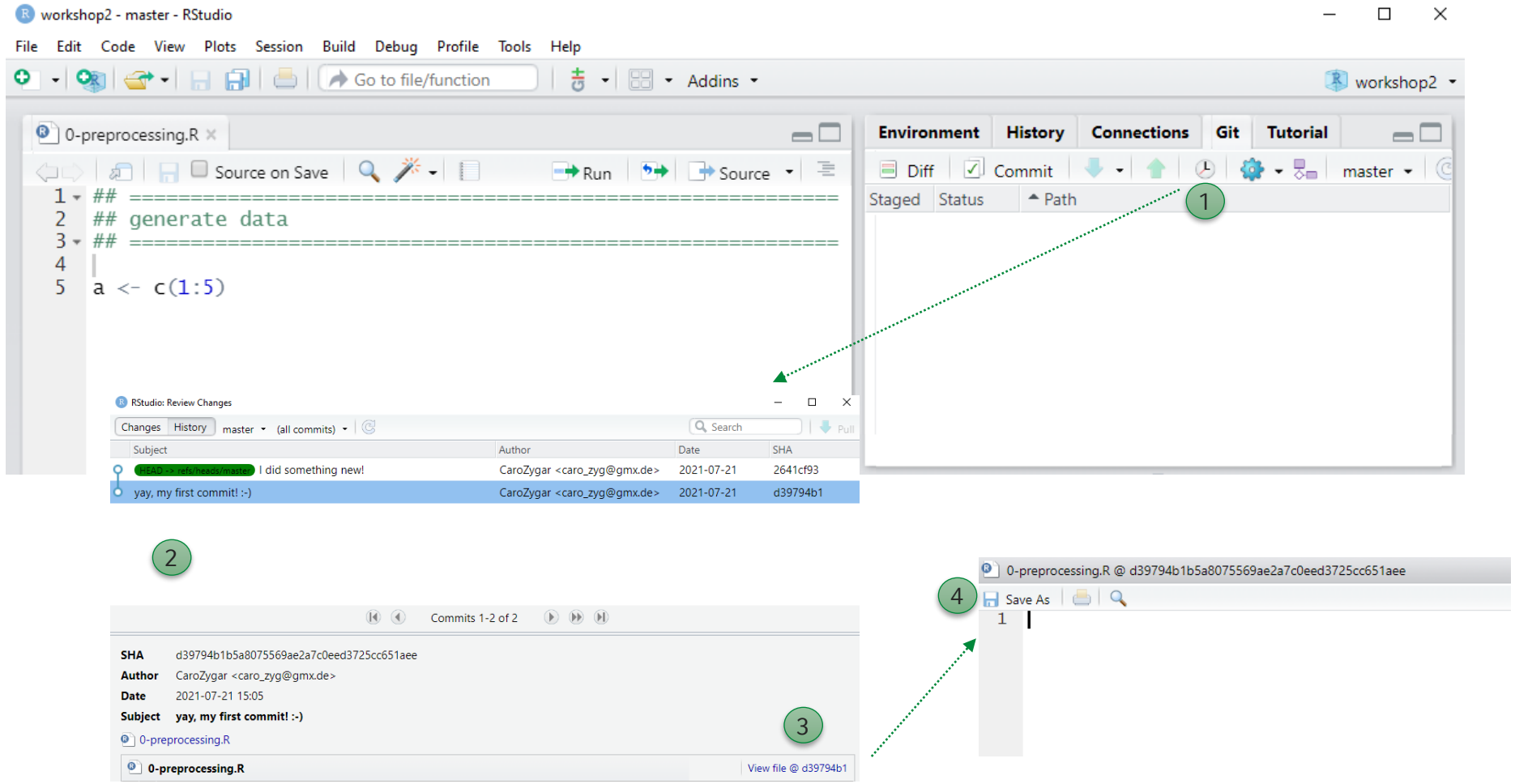
Live Demo – committing



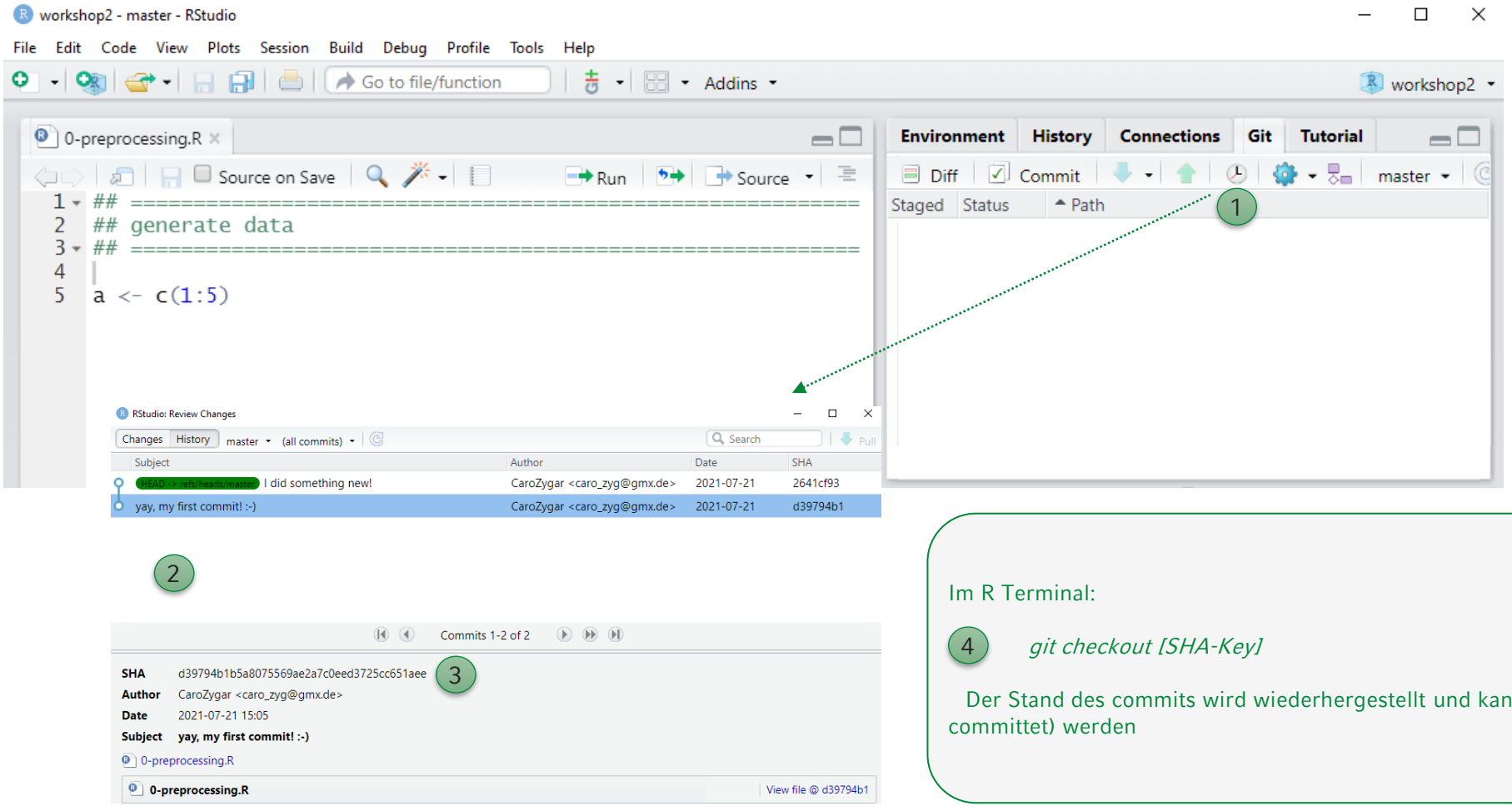
Live Demo – working in R with git



Live Demo – restore earlier versions (of files that can be opened in R)



Live Demo – restore earlier versions (of other files)



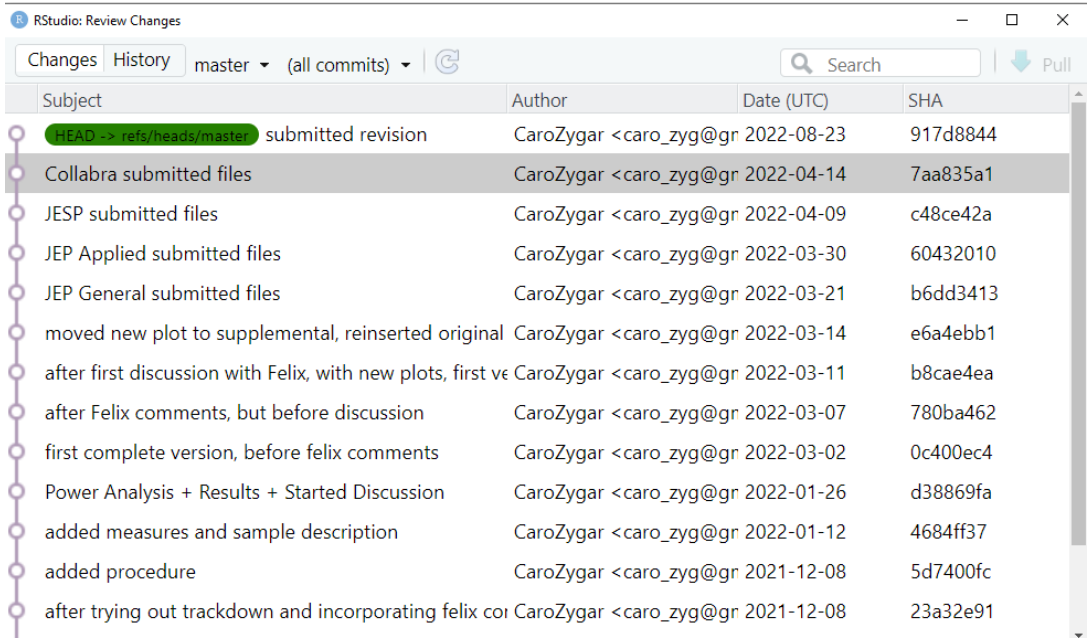
Im R Terminal:

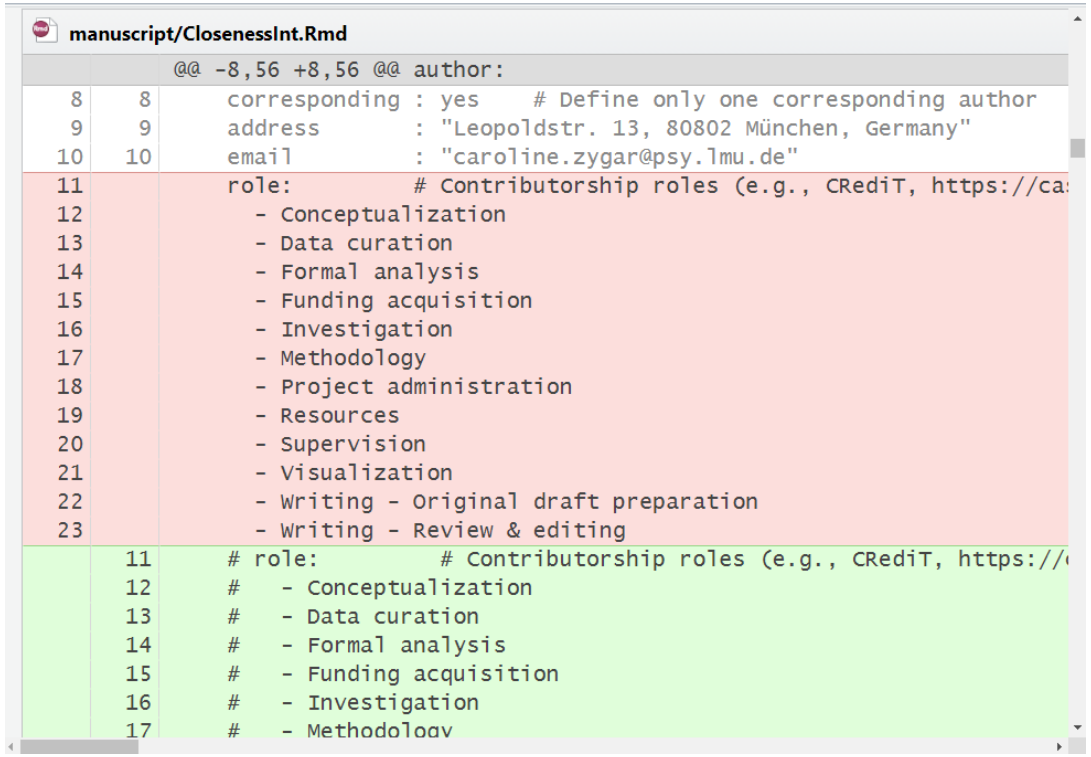
4 *git checkout [SHA-Key]*

Der Stand des commits wird wiederhergestellt und kann kopiert (und wieder committet) werden

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Live Demo – how I use git for papers





Hands-On

Tasks:

1. Get Git going in RStudio (incl. SSH and setting up name and email address)
2. Start a local project in R, give it a meaningful name, and activate git
3. Create two folders “raw_data” and “preprocessing” and make your first commit
4. Add the folder „raw_data“ to the .gitignore
5. Start a new r-script in the „preprocessing“-folder, load the packages „dplyr“ and „psych“ and save the script.
6. Make a new commit and describe it meaningfully
7. Change the r-script by replacing „dplyr“ with the „tidyverse“, by no longer loading „psych“ and by adding a line which says „a <- 4“
8. Make a new commit, and have a look at the diff
9. Revert the r-script bake to the second commit

Git Ressources / Tipps & Tricks

* https://docs.google.com/document/d/1WvApy4ayQcZaLRpD6bvAqhWncUaPmmRimT016-PrLBk/edit
* https://swcarpentry.github.io/git-novice/
* https://happygitwithr.com/
* https://guides.github.com/activities/hello-world/
* https://ohshitgit.com/
* https://twitter.com/aosmith16/status/1382424048857014272?s=09

Rmarkdown + Git:

* https://resulumit.com/blog/rmd-workshop/
* https://twitter.com/ed_hagen/status/1381746314019414020?s=09