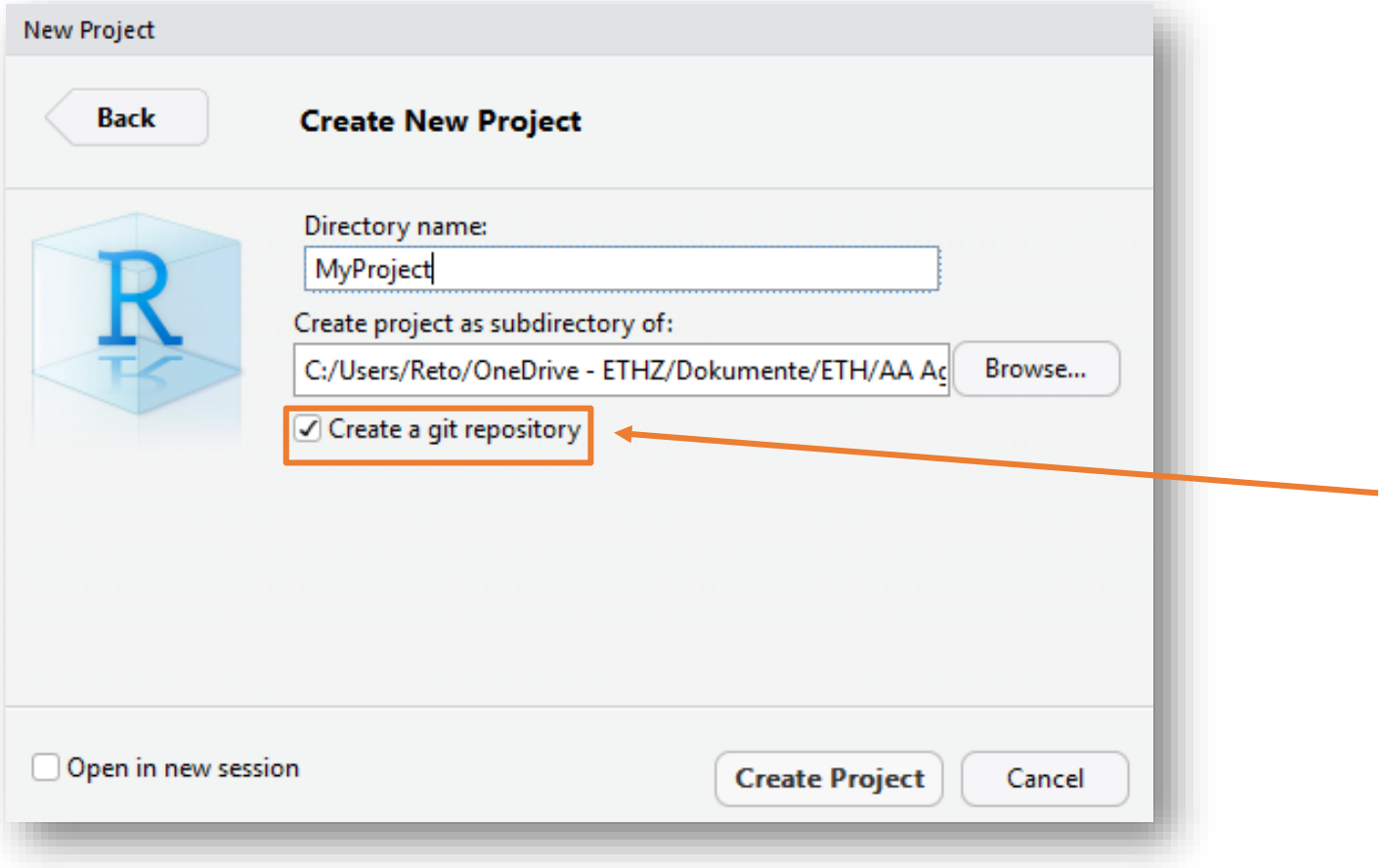
Version control

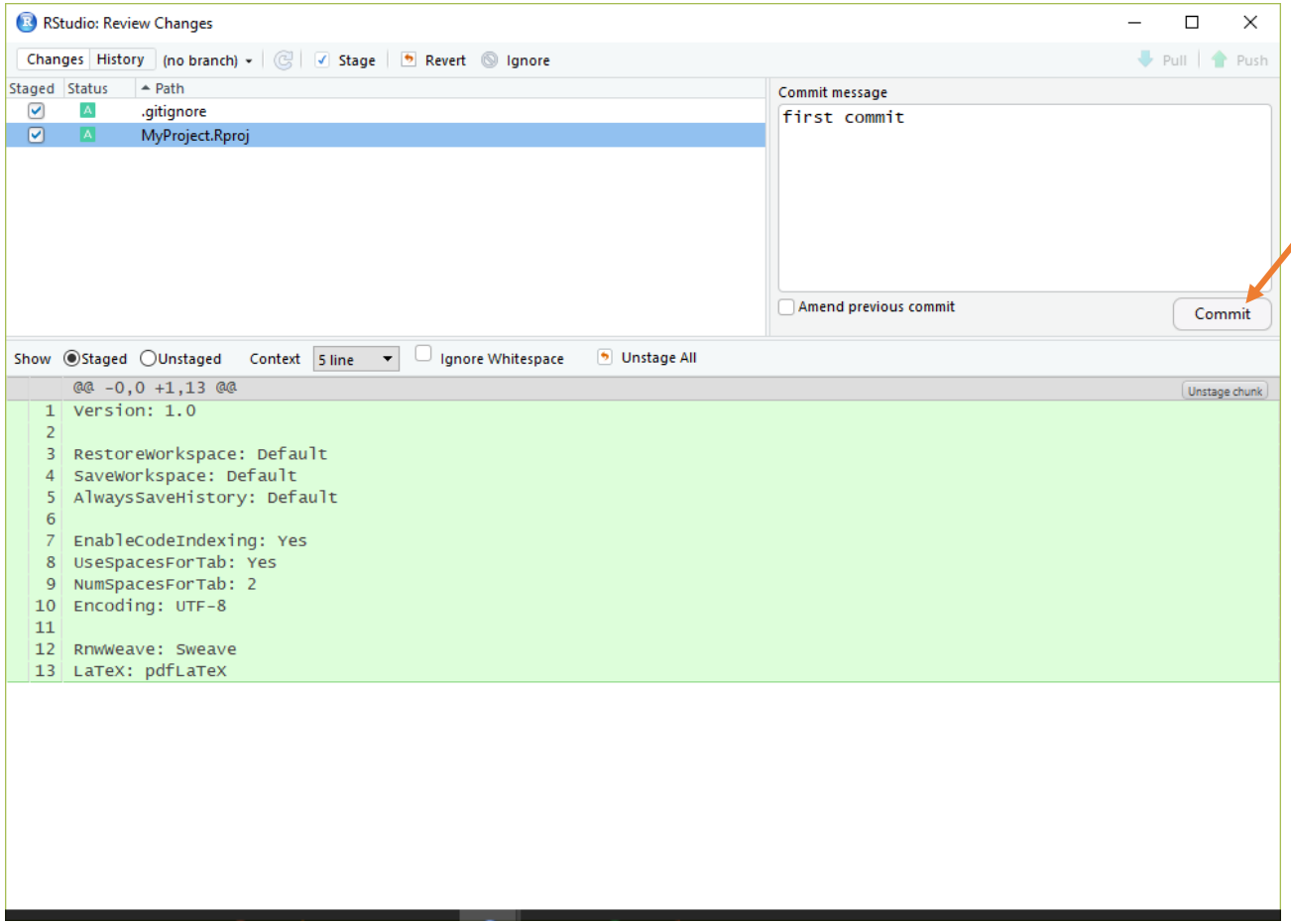
https://www.rstudio.com/resources/webinars/rstudio-essentials-webinar-series-managing-part-2/

1) Make new project with git version control



Version control

2) Commit your first files

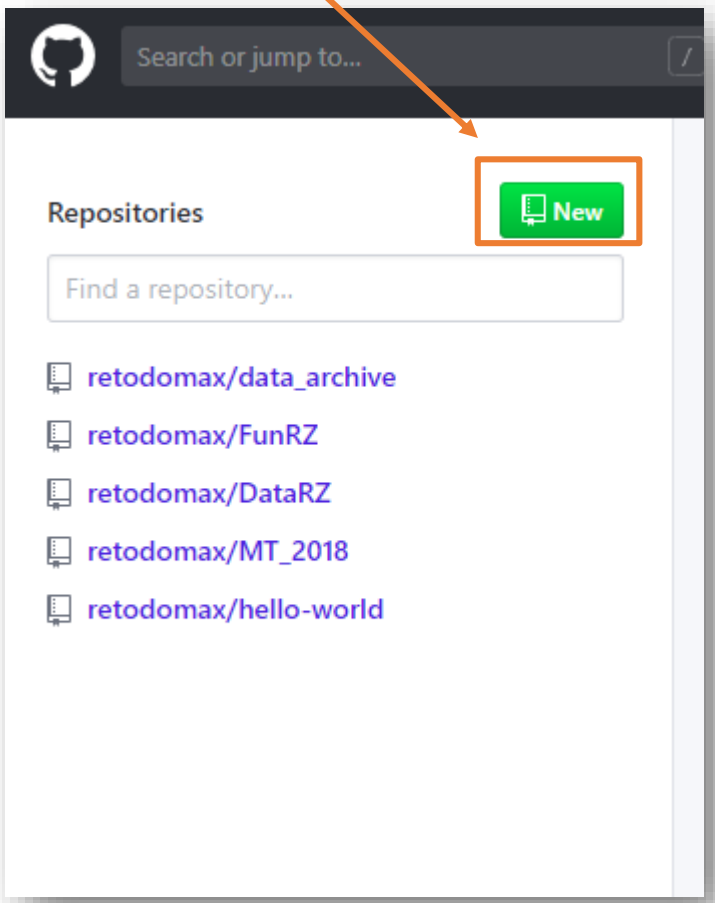


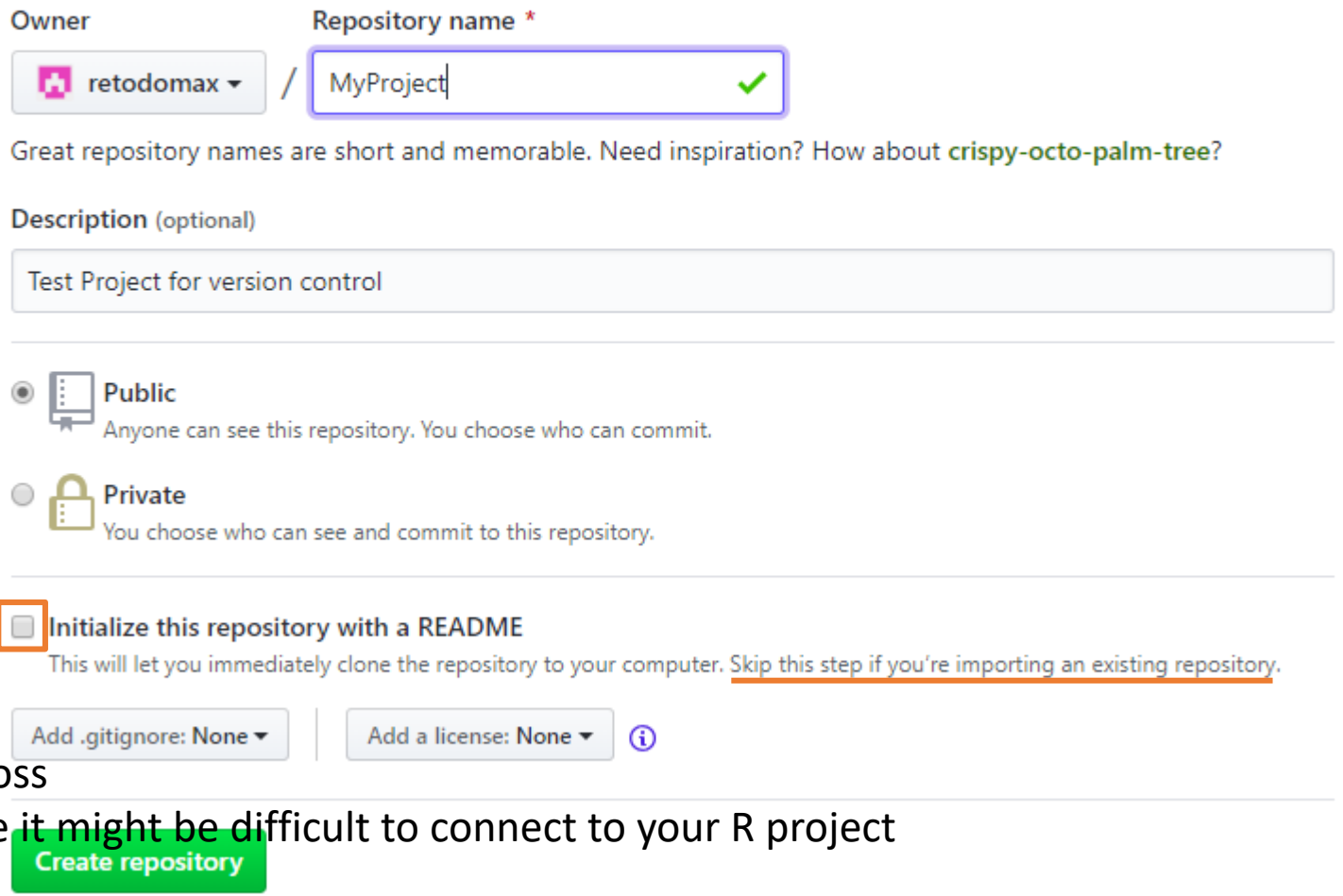
important to have at least one commit

=> it is not possible to push empty (no commit) git file to github

Version control

3) Make new Repository on github.com





Do not cross

Otherwise it might be difficult to connect to your R project

Version control

better use https instead of ssh (less problems with ssh client and passwords)

You also find this link later by clicking on the green "clone or download" button

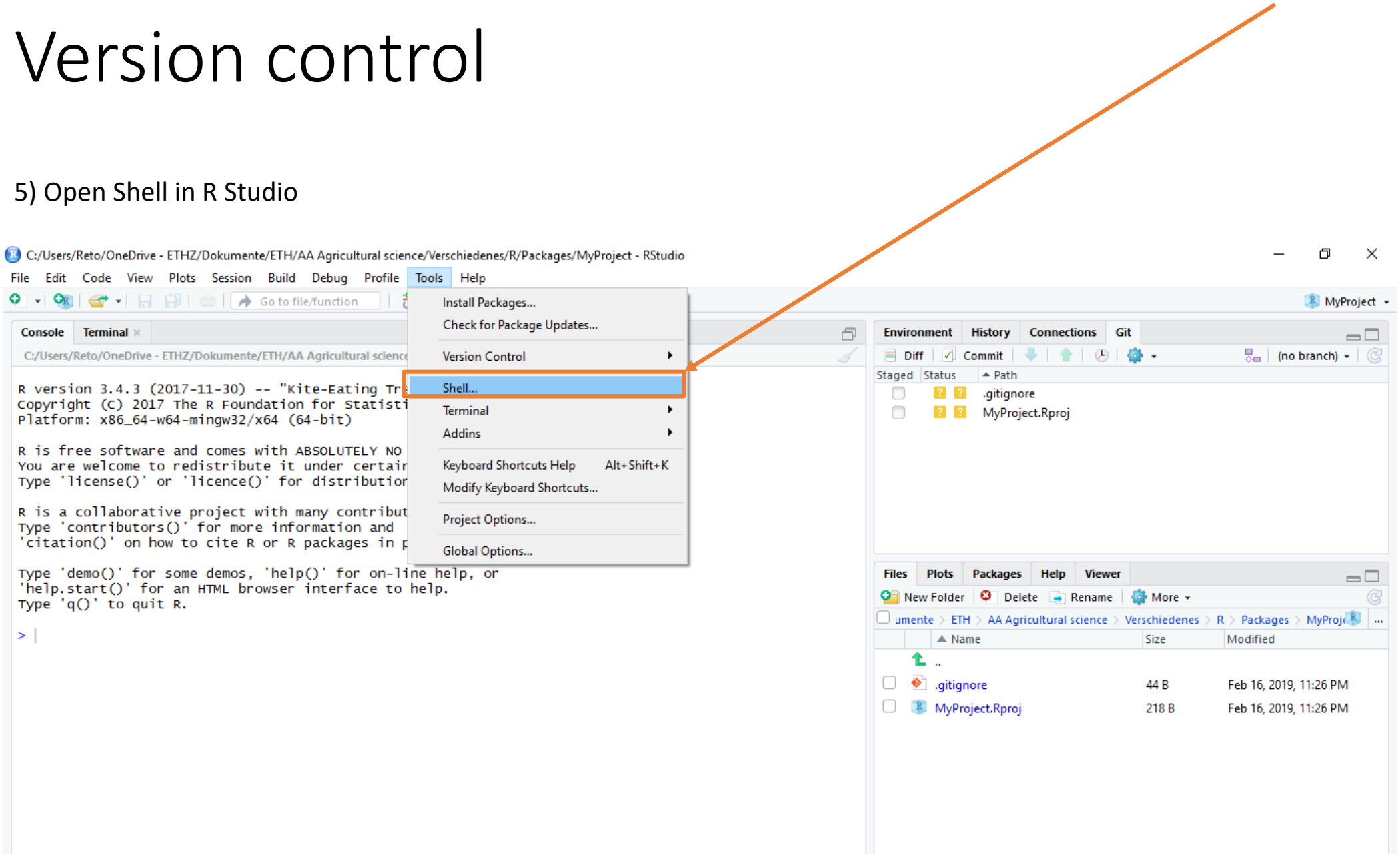
4) Copy git command to push existing repository

Copy button

git remote add origin https://github.com/retodomax/R_Ref_Book.git
git push -u origin master

Version control

5) Open Shell in R Studio



Version control

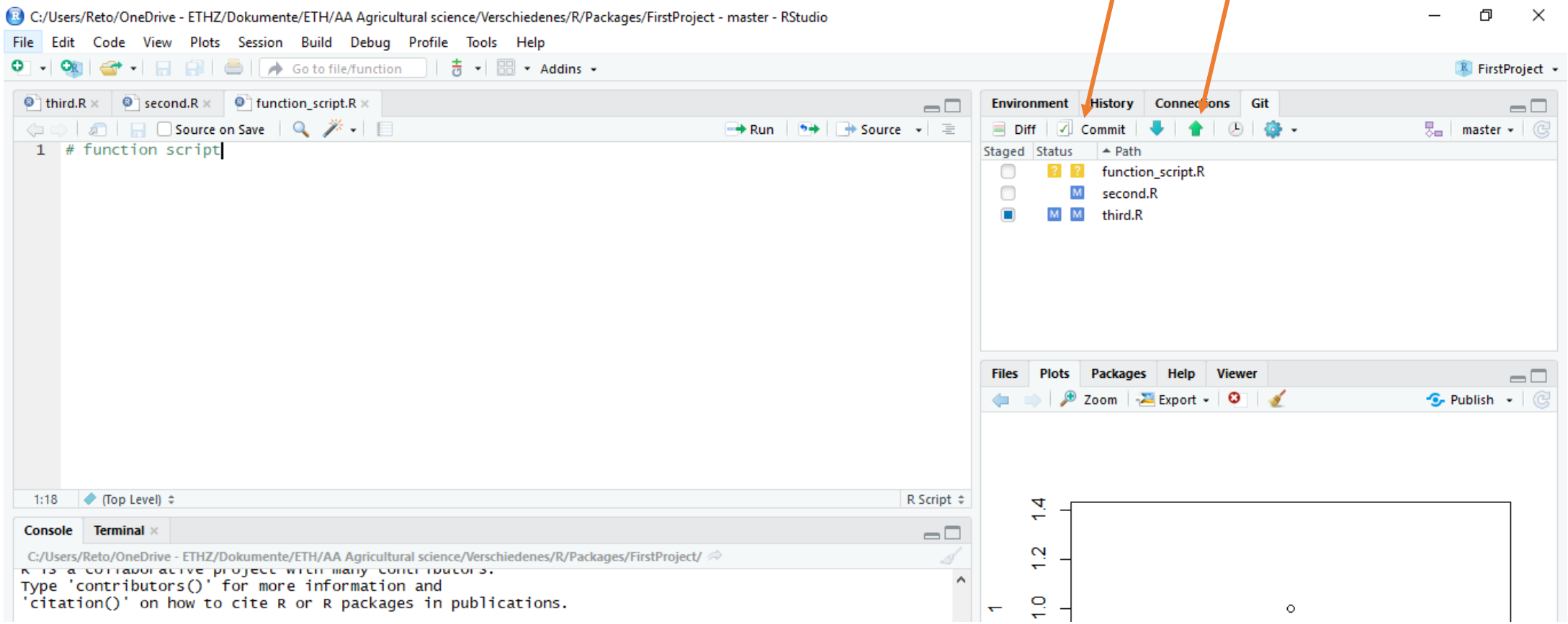
6) Paste copied commands into the shell therminal → Enter

Version control

Commit
(save new version of project)

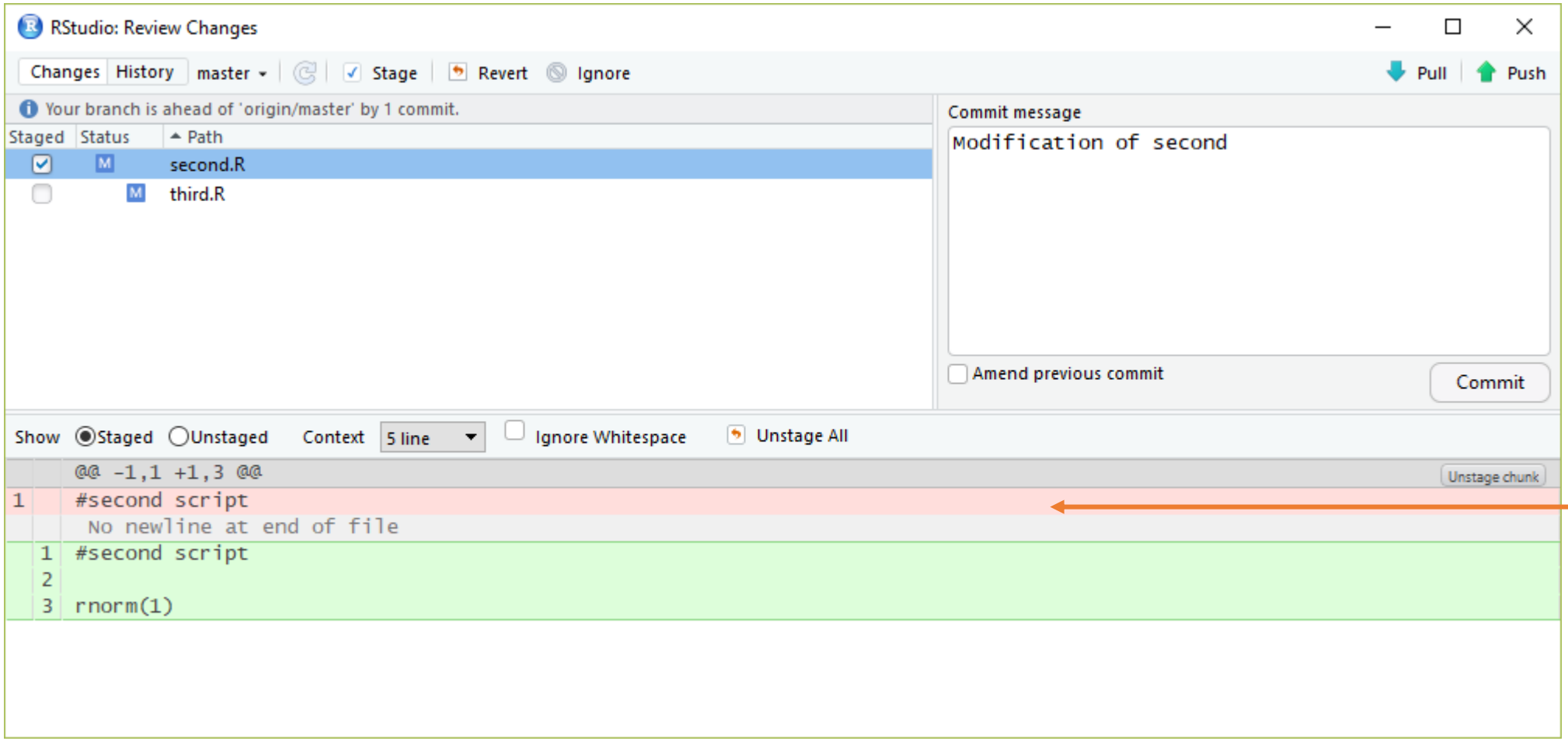
Push
(push new version of project on github)

7) Regularly Commit changes and push newest version on githup



Version control

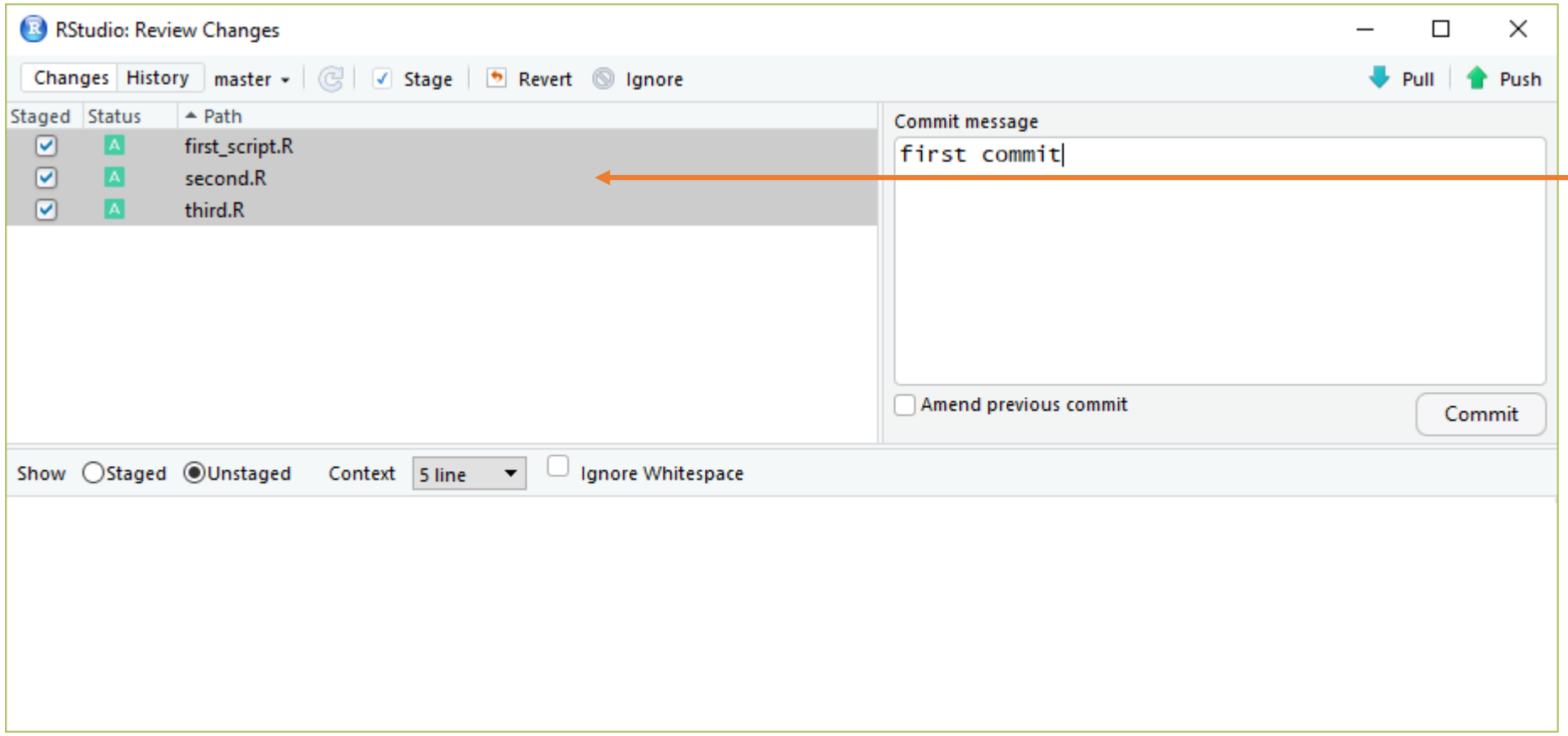
Tips:



See changes before you commit them

Version control

Tips:



Tick (stage) all changes at once:

1) press Ctrl + a
2) press Enter

Version control

Password problem with ssh

Common problem

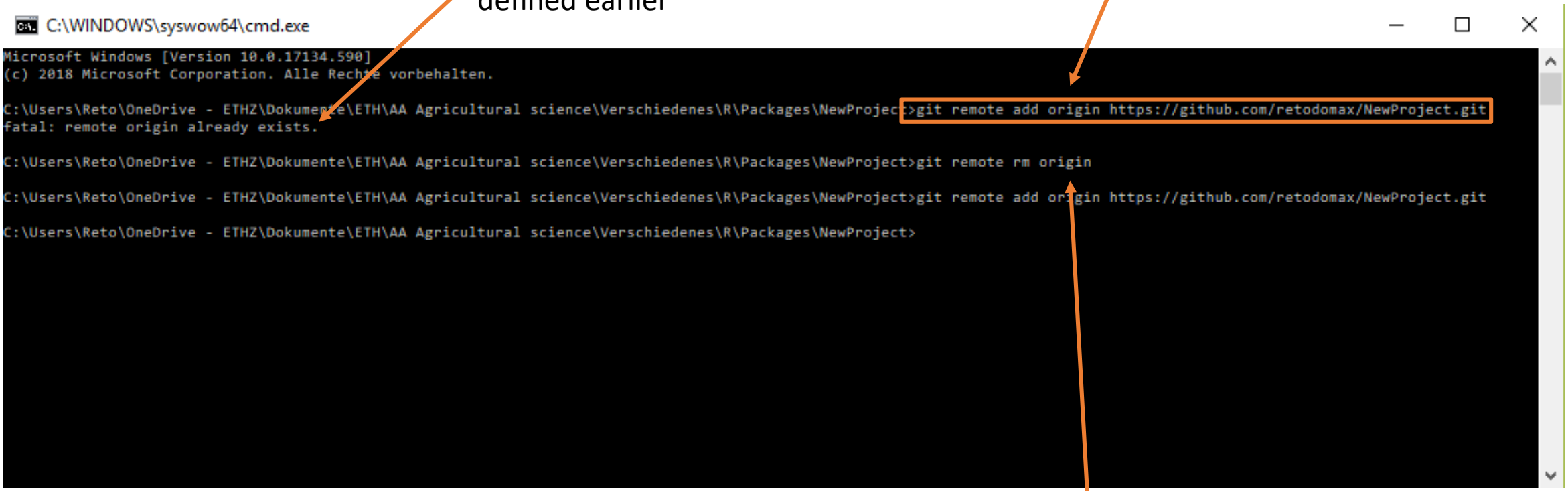
```
C:\Users\Reto\OneDrive - ETHZ\Dokumente\ETH\AA Agricultural science\Verschiedene
s\R\Packages\MyProject>git push -u origin master
Warning: Permanently added the RSA host key for IP address '140.82.118.4' to the
 list of known hosts.
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

C:\Users\Reto\OneDrive - ETHZ\Dokumente\ETH\AA Agricultural science\Verschiedene
s\R\Packages\MyProject>
```

Version control

Common problem

Problem: variable origin was already defined earlier

Devine variable origin (which defines git remote => where the git file is pushed to)




```
git remote rm origin
```

Solution: First delete the path in variable origin