

FAST TALK:

Integrating Git in RStudio

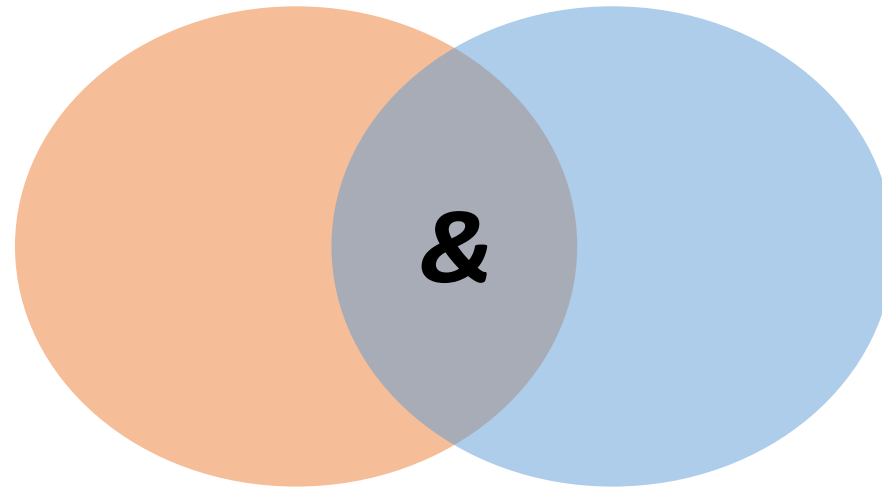


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WHY ?

RStudio History Panel /
Saving different files

Google Docs /
Codeshare.io



Version track of your Edits

Collaborative Environment

STEPS

- **Zero:** Download and Install (or update): R, Rstudio, Git
- **One:** Configure Git inside RStudio – Single-Time Step
- **Two:** Clone your Git directory into a local RStudio Project – For Each Directory

DEVELOP YOUR R SCRIPTS OR PROJECT

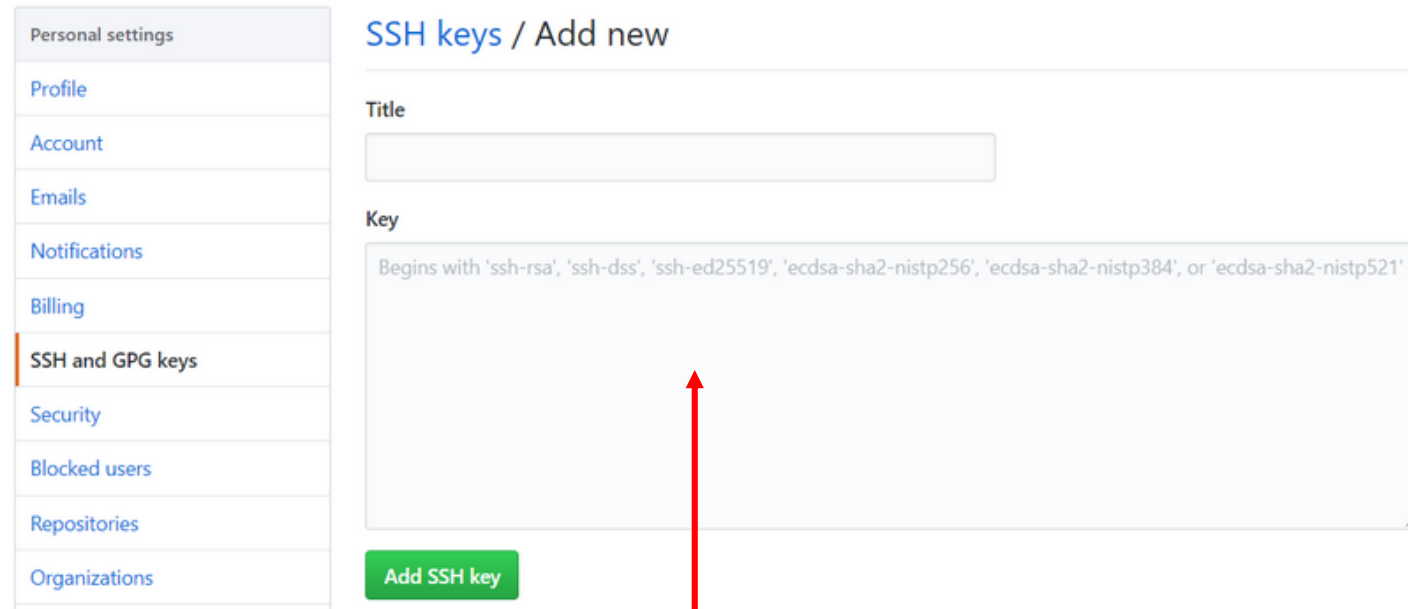
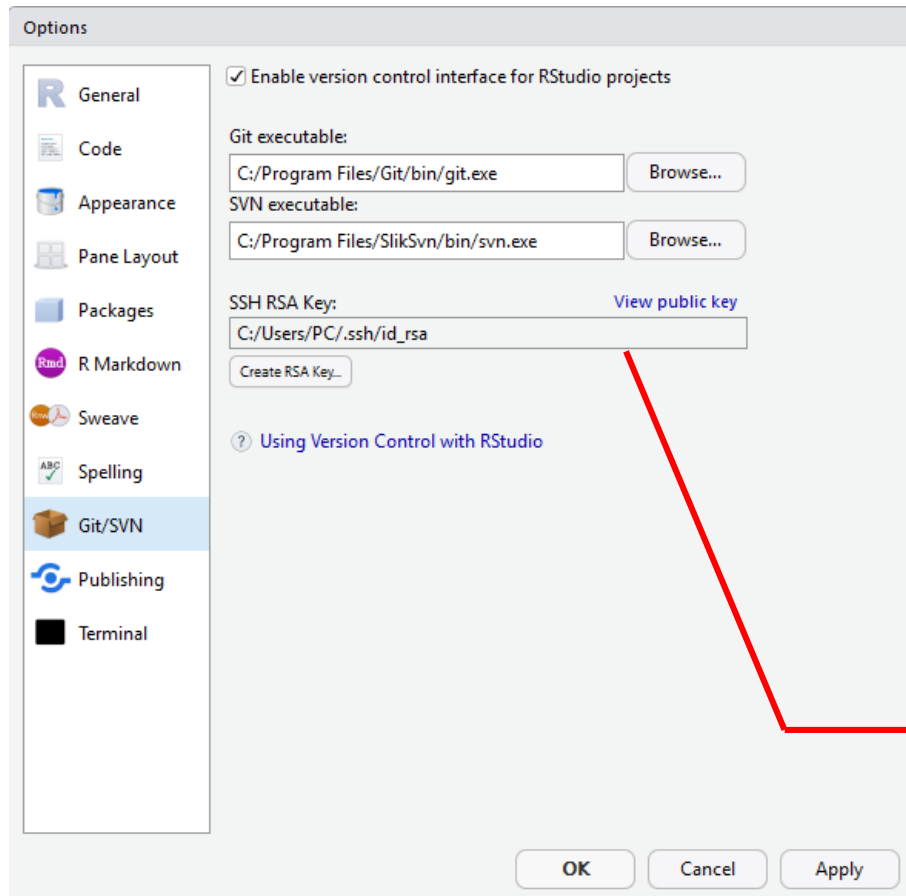
- **Three:** Save (Commit) and Upload (Push) Edits

1

Configure Git inside RStudio

Rstudio: **Tools > Global Options > Git/SVN**

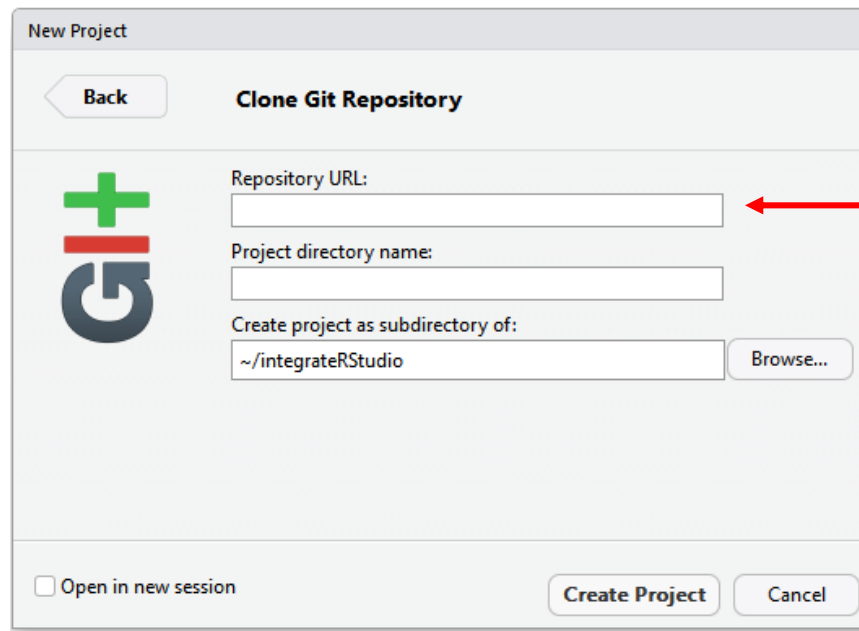
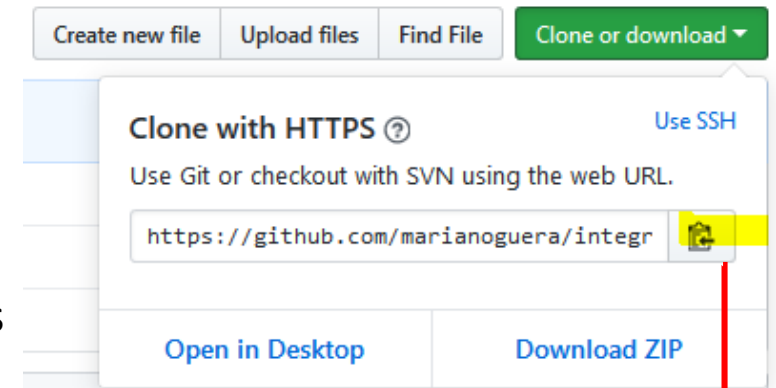
GitHub online account: **Personal Settings > SSH and GPG keys**



2

Clone your Git directory into a local RStudio Project

- A. In RStudio, go to **Project > Create Project > Version Control > Git**.
- B. On GitHub, you should select a git, clone options, and copy the https:// URL.
- C. Fill into the New Project details in RStudio: Paste the URL and specify a directory name and subdirectory address into your desktop where you want this project to live locally.
- D. Click 'Create Project' in RStudio.



3

Save (Commit) and Upload (Push) Edits

The screenshot illustrates the workflow for saving and uploading edits in RStudio using Git. The main editor window displays R code for data processing, including reading CSV files and calculating dimensions. The 'RStudio: Review Changes' window shows the files staged for commit, with '3_Build_a_big_dataframe.R' selected. A 'Git Push' dialog box is open, showing the command to push the changes to the master branch.

RStudio: Review Changes

Staged	Status	Path
<input type="checkbox"/>	?	.gitignore
<input checked="" type="checkbox"/>	M	3_Build_a_big_dataframe.R
<input type="checkbox"/>	?	clone_script.Rproj

Git Push

```
>>> C:/Program Files/Git/bin/git.exe push origin refs/heads/master
Everything up-to-date
```

Console

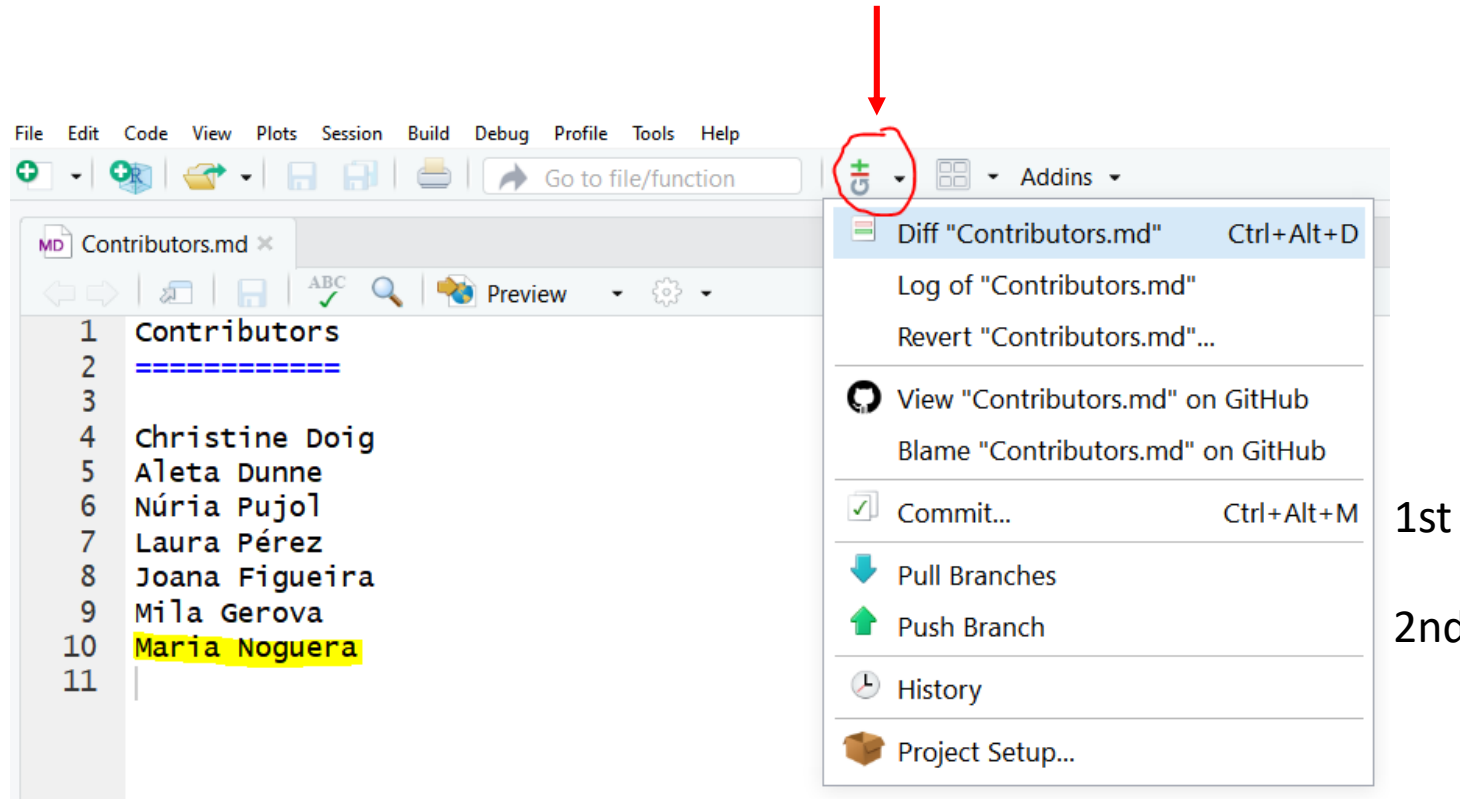
```
Copyright (C) 2019 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
```

3

Save (Commit) and Upload (Push) Edits – External Repository

Example: <https://github.com/pyladies-bcn/git-practice/blob/master/Contributors.md>



3

Save (Commit) and Upload (Push) Edits – External Repository

Example: <https://github.com/pyladies-bcn/git-practice/blob/master/Contributors.md>

The screenshot shows the RStudio 'Review Changes' window. On the left, the 'Contributors.md' file is open in the editor, showing a list of names. The 'Review Changes' window is in the center, displaying a table of changes. The 'Contributors.md' file is selected, and the commit message 'few edits done' is entered in the 'Commit message' field. The 'Commit' button is visible. Below the table, the diff for the selected file is shown, highlighting the changes made to the list of contributors.

Staged	Status	Path
<input type="checkbox"/>	?	.gitignore
<input checked="" type="checkbox"/>	M	Contributors.md
<input type="checkbox"/>	?	git-practice3.Rproj

Commit message: few edits done

☐ Amend previous commit Commit

Show ☒ Staged ☐ Unstaged Context 5 line ☐ Ignore Whitespace Unstage All

@@ -5,6 +5,7 @@ Christine Doig

5	5	Aleta Dunne
6	6	Núria Pujol
7	7	Laura Pérez
8	8	Joana Figueira
9	9	Mila Gerova
10		Maria Noguera
	10	contr.x
	11	contr.y

No newline at end of file

Original Source

<https://happygitwithr.com/>

Alternatively

<https://eliademy.com/catalog/oer/module-5-open-research-software-and-open-source.html>



Thank you for your attention !