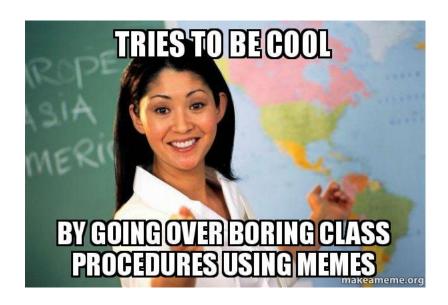
### Becoming Fluent in Data (2022)

# Setup





#### Software

#### The course uses different software components for learning.



Statistical Software



Integrated
Development
Environment



Version
Control &
file sharing



**GitHub** 

Cloud storage



Datacamp (Learning Platform)



Datacamp Mobile

\*All work on either Mac or Windows operation system.



### Setup

### Steps to complete.

Step 1. Install R.

Step 2. Install RStudio.

Step 3. Install git.

Step 4. Connect RStudio to Github.

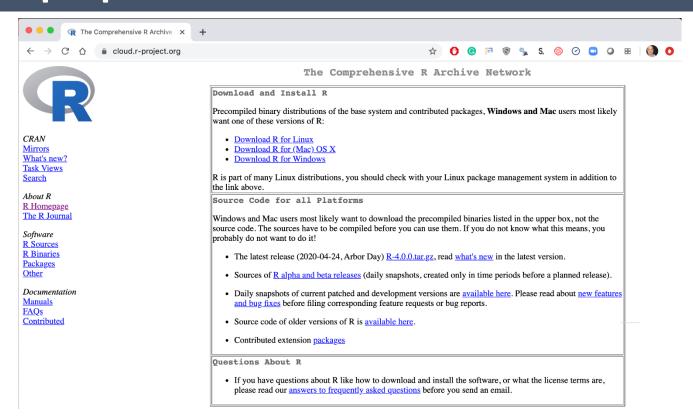
\* If you have completed this setup and can run code ...you're off to a great start! And don't worry if you hit a hiccup, we will figure it out.



IT'S THAT EASY makeameme.org

#### Step 1. Install Base -R

## **Local Laptop – Windows or Mac**



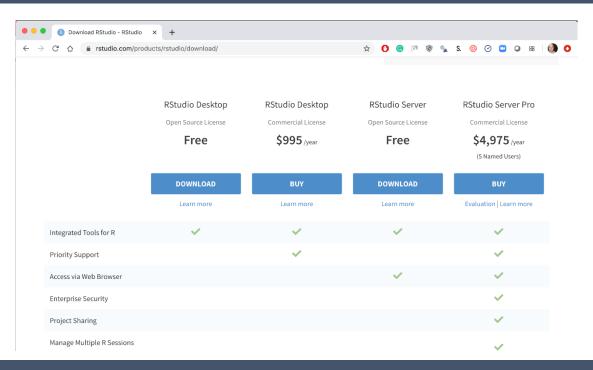
Download the appropriate version Linux, Mac or Windows.

nttps://cloud.r-project.org/



### Step 2. Install RStudio

## **Local Laptop – Windows or Mac**



#### **Download the RStudio Desktop (Free)**

https://rstudio.com/products/rstudio/download/

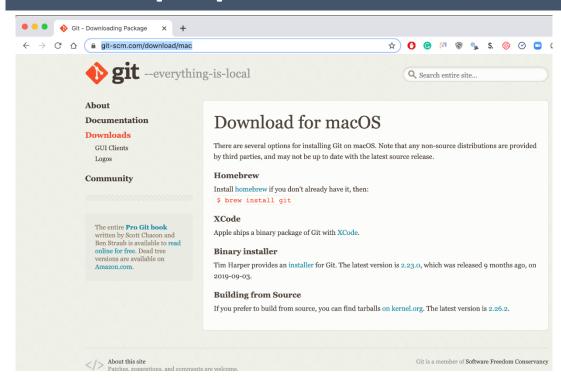
https://rstudio.com/products/rstudio/download/#download



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## Step 3. Install Git (Mac)

#### **Local Laptop – Mac**



#### Download the Git Program, then follow prompts for installation.

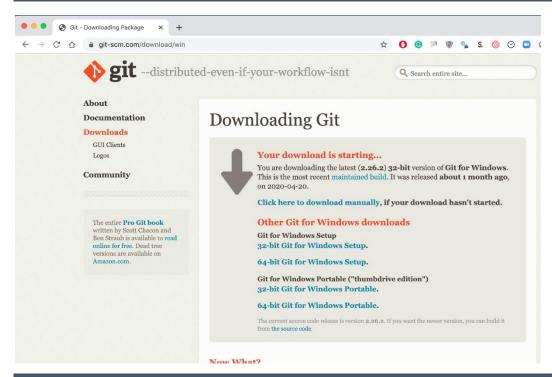
https://git-scm.com/download/mac

<u> https://www.youtube.com/watch?v=twFo9wCpdSU</u>



## Step 3. Install Git (Windows)

#### **Local Laptop – Windows**



Download the Git Program, then follow prompts for installation.

nttps://git-scm.com/download/win

<u> https://www.youtube.com/watch?v=nbFwejIsHlY</u>



## Magic



You should now have R, R-Studio and git.



3/3/2022

#### All good?



Mac: Use "Launchpad" & Type R

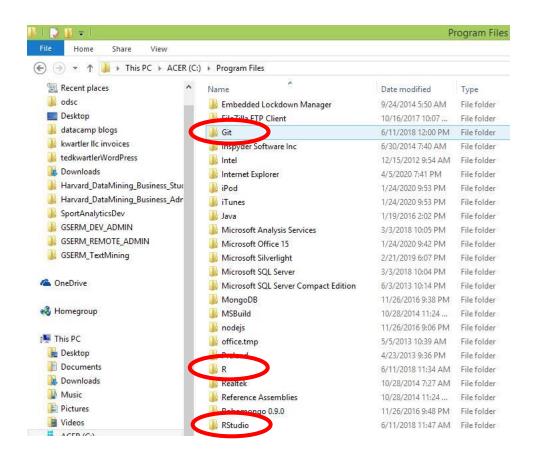


Mac: Use: "Terminal" & Type "git version"

Mac: Look for R and RStudio Icons.



#### All good?



Windows: Navigate to the program folder look for git, R and RStudio



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## You should now have R, R-Studio and git.







### Step 4. Connect Rstudio to Repo.

Now that you have R, R-Studio & git, time to connect to our class repository.



R Studio sits on top of base R & adds functionality.

Connect to git repository.



Makes the programmatic connection.



Class Files hosted on github.com

\*Think of GitHub as a dropbox for programmer.

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3/3/2022

## Step 4. Setup a new project & do a "git pull"

#### For you to look at in browser:

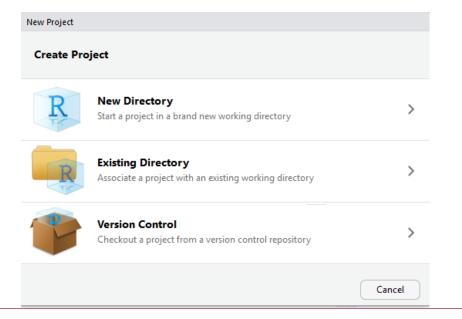
https://github.com/MarcoKuehne/seminars in applied economics

#### Enter in your Rstudio Instance:

https://github.com/MarcoKuehne/seminars in applied economics.git

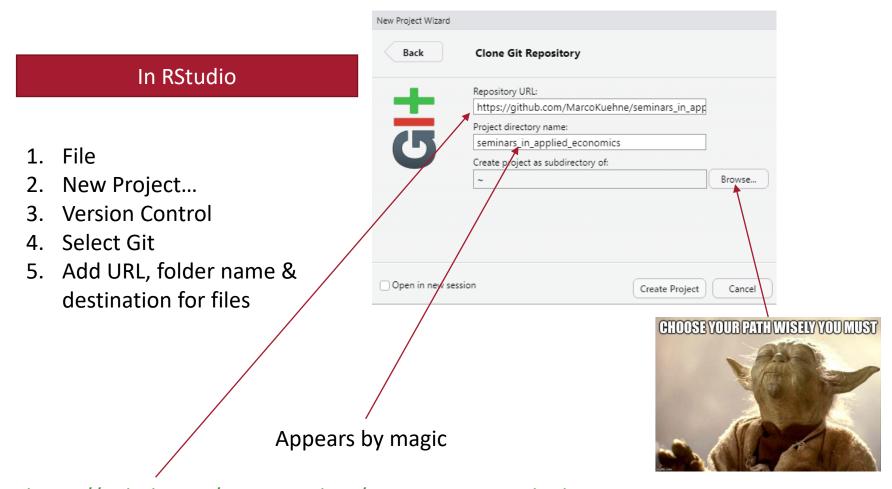
#### Open RStudio

- File
- 2. New Project
- Version Control





### Step 4. Setup a new project & do a "git pull"



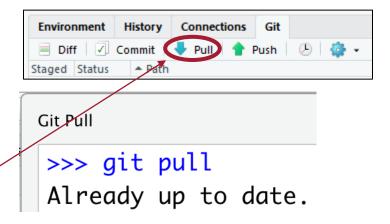
https://github.com/MarcoKuehne/seminars in applied economics.git



Each day we will perform a "git pull" in case there are updates to curriculum to aid learning.

#### In RStudio

- 1. File
- 2. New Project...
- Version Control
- 4. Select Git
- Add URL, folder name & destination for files
- EACH Class session perform a Git Pull to update files





### One folder, all data.

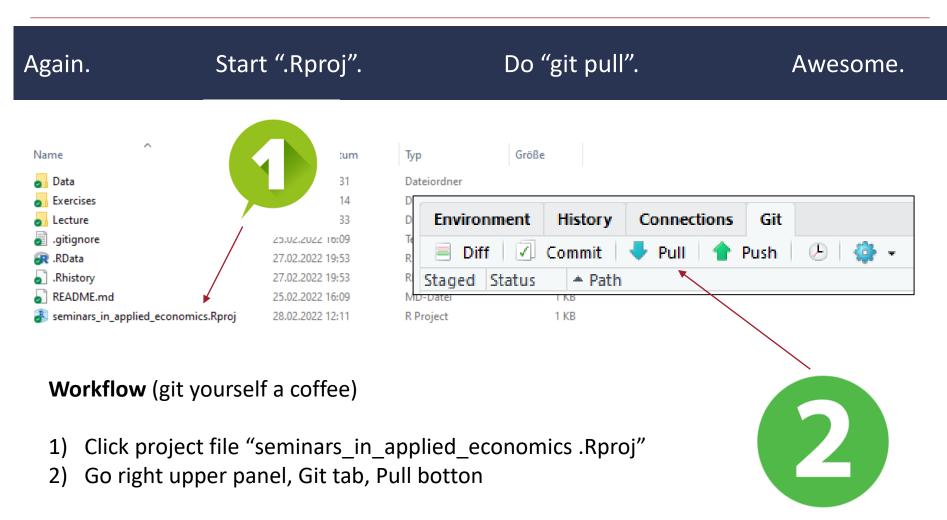
Somewhere in your favorite destination you now synchronized all course material (data, homework, lectures, etc.).

Name	Änderungsdatum	Тур	Größe
<b></b> Data	27.02.2022 08:31	Dateiordner	
Exercises	27.02.2022 09:14	Dateiordner	
Lecture	27.02.2022 08:33	Dateiordner	
📝 .gitignore	25.02.2022 16:09	Textdokument	1 KB
🙊 .RData	27.02.2022 19:53	R Workspace	49 KB
.Rhistory	27.02.2022 19:53	RHISTORY-Datei	1 KB
README.md	25.02.2022 16:09	MD-Datei	1 KB
seminars_in_applied_economics.Rproj	28.02.2022 12:11	R Project	1 KB

Everytime you start to work, click this project file ".Rproj" EACH Class session perform a **Git Pull** to update files



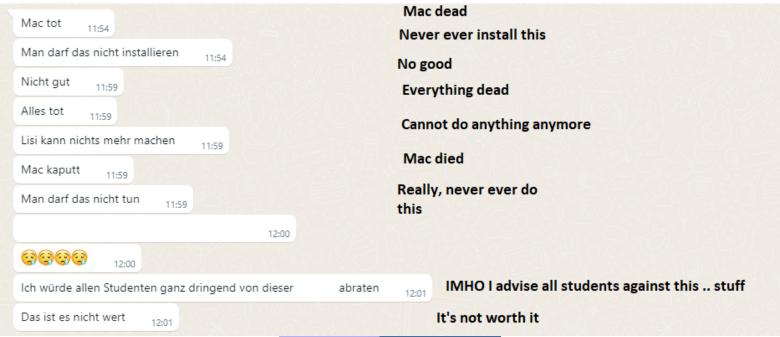
#### One folder, all data.



#### Enjoy



#### True stories ...







## Now just run some code (we will explain it later)

https://github.com/MarcoKuehne/seminars in applied economics has the R code.

#### 

Here are the first R packages that we will need. Run this install once on your system.

```
# Easiest method to run in your console
install.packages('pacman')
pacman::p_load(tidyverse, cowplot, magick, haven, DT, beepr, fun, cowsay, plotly)

# You can install packages individually such as below if pacman fails.
install.packages('tidyverse')

# Or using base functions use a nested `c()`
install.packages(c("fun", "beepr", "cowsay"))
```

install.packages('pacman')
pacman::p\_load(tidyverse, cowplot, magick, haven, DT, beepr, fun, cowsay, plotly)



### Last item. Create a personal folder.

#### Why?

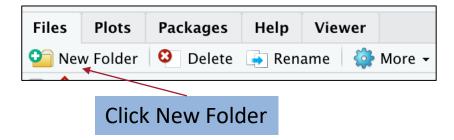
- Create a personal folder inside the R project.
- "Git pull" downloads all new changes from the Github repository.
- There is a "Git push" button that you cannot use.
- The Github repo is public but read-only.
- Create a personal folder that is ignored by git.
- This is were you can work on scripts and homework.



### Last item. Create a personal folder.

In the lower right file section click "New Folder". Name it "personal" exactly as in the gitignore (capitalization)

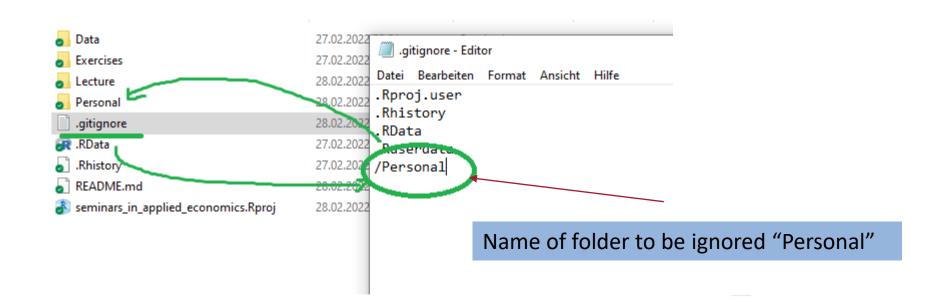
You can create folders from inside Rstudio.





### Last item. Create a personal folder.

#### Open the "gitignore" file. Add slash personal



When you work and make changes to scripts, SAVE AS to a personal folder that is ignored by git.



## Almost setup...don't worry if you need help live.



