

# Making Python run in Rstudio

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## Reticulate

- 1) Make sure that your `Rcpp` package is updated
- 2) Then install `reticulate` running (if not already:

```
update.packages('Rcpp')
install.packages('reticulate')
```

## Updating your environment created from conda

- 1) Since we installed our python environment in Week 01, I realized that a few packages were missing, so I have added them to the `methods3_environment.yml` in the Week 06 folder
  - i. To update, run the following from a *Terminal* (Mac/Linux) or from the *Anaconda Power Shell* (Windows), note that `--force` means that it overwrites the old environment (should be okay). The packages added are `pandas` (to introduce more *R*-like data tables) and `seaborn` for nice graphics
  - ii. Note that this may take up to 5 minutes

```
conda env create --force -f methods3_environment.yml
```

## .Renviron

- 1) Create a file called **.Renviron** with the path to your environment installed through `conda` (Figure 1)
- 2) Make sure that you don't add an extension (`.txt` or `.rtf`) to the file (`.Renviron` is the extension)
- 3) You can do this by creating `.Renviron` from *RStudio* (see Figure 2):
- 4) Put in in the folder where you have the **.Rproj** file we created in Week 01
  - i. if you haven't done this, create a new project (File>New Project) and add it to an existing directory (your directory) (Figure 3)
- 5) Restart *R* (Session>Restart R)
- 6) To check whether `.Renviron` has been put in the right place, run (From *R*):
  - i. if you get a warning, check whether you are in the project that **.Renviron** is in (Figure 4)

```
print(rp <- Sys.getenv('RETICULATE_PYTHON'))

## [1] "/home/lau/miniconda3/envs/methods3/bin/python"

if(nchar(rp) == 0) warning('.Renviron file not placed correctly') else
{
  print('.Renviron file placed correctly')
}
```

```
## [1] ".Renviron file placed correctly"
```

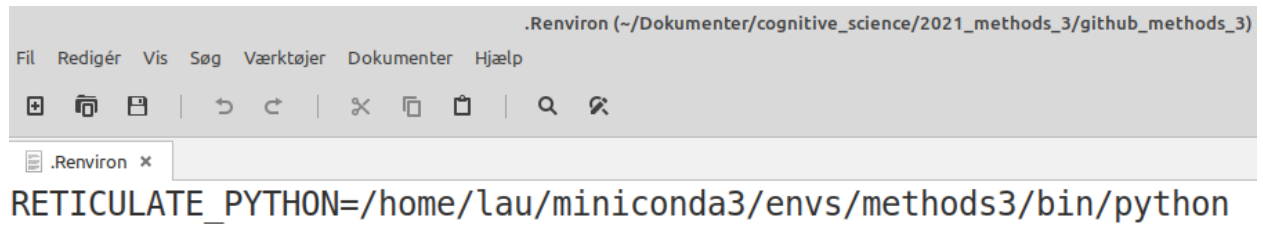


Figure 1: Create *.Renviron* file

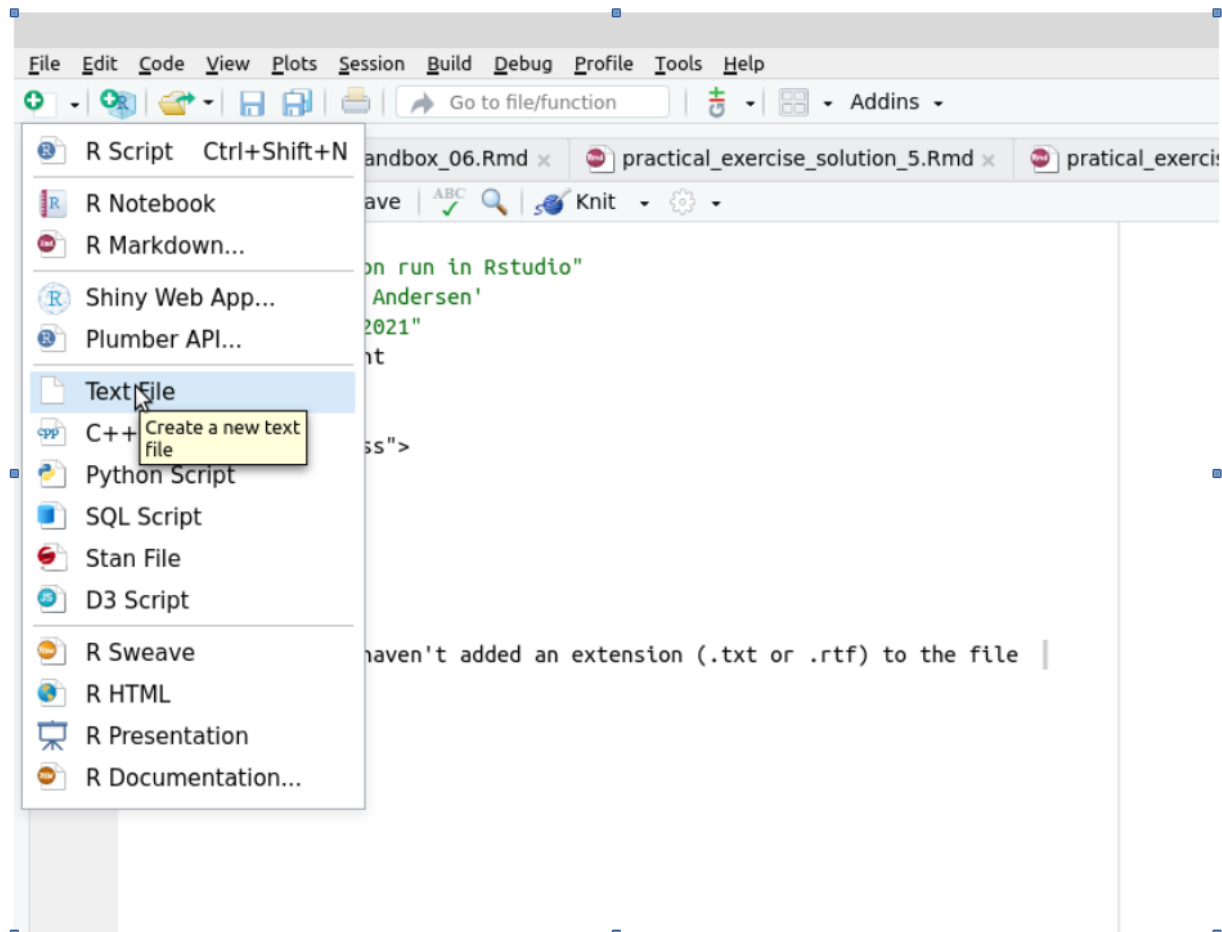


Figure 2: Create text file within *RStudio*

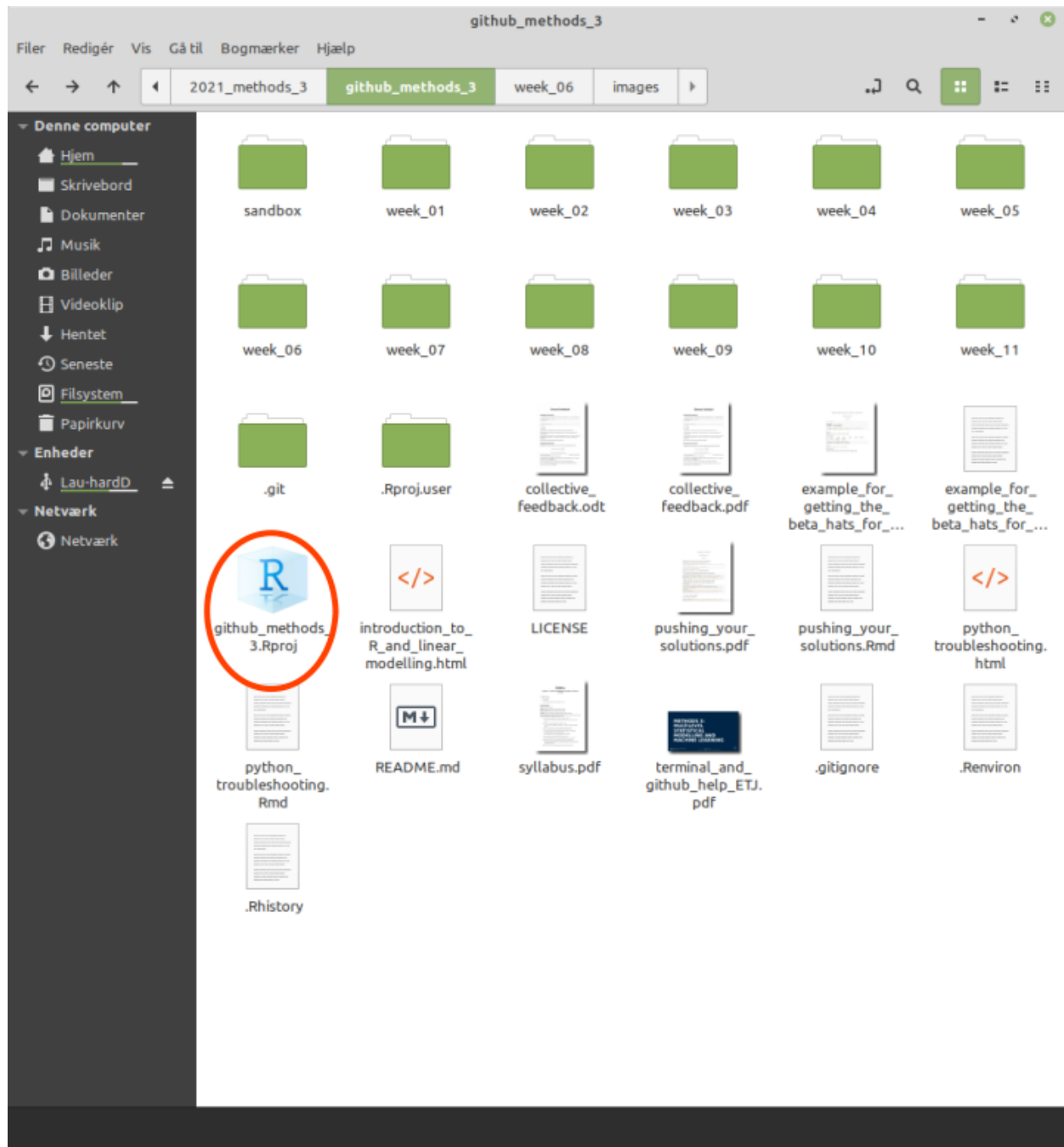


Figure 3: Where to place the **.Rproj** file

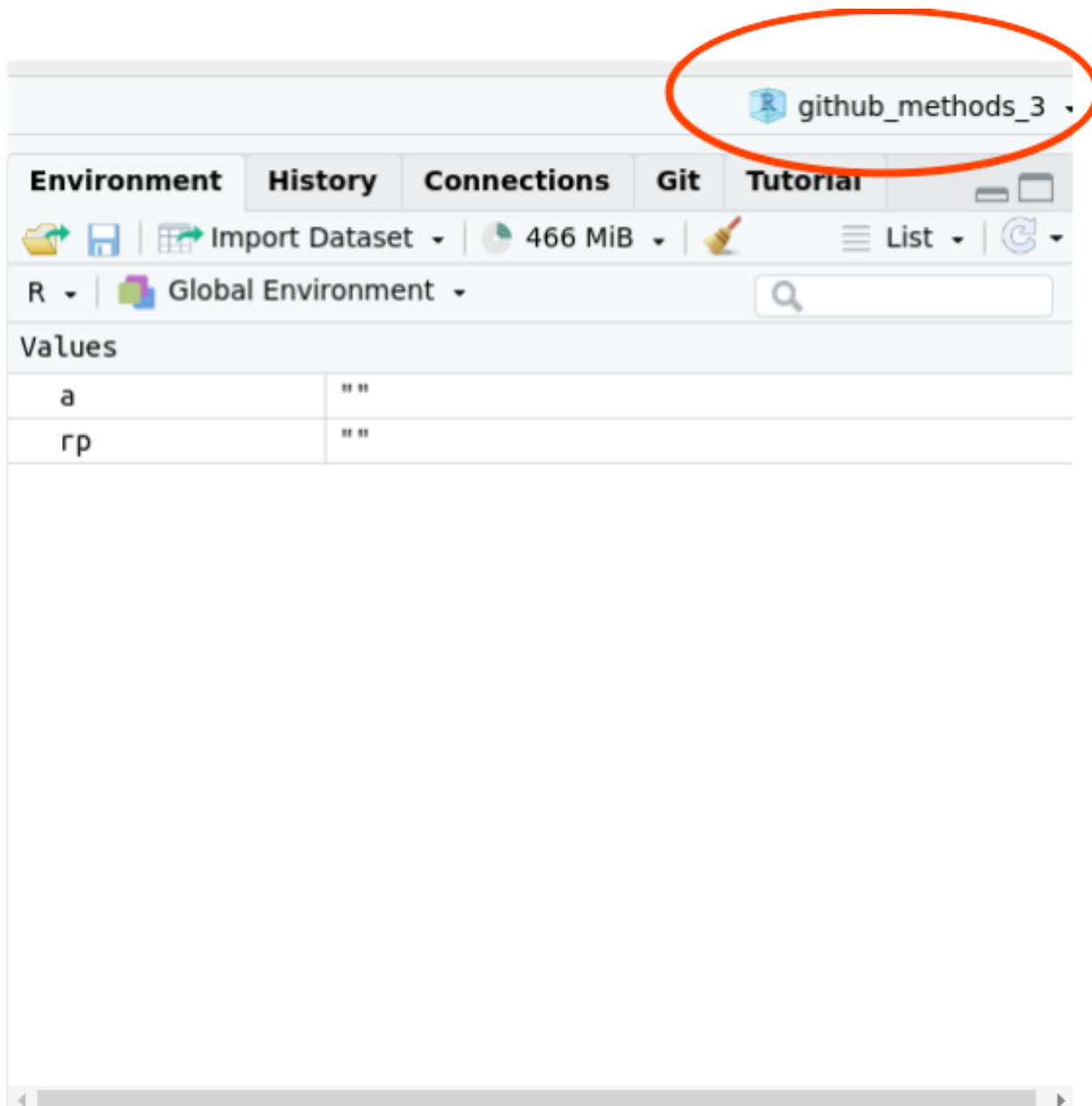


Figure 4: Check that you are inside the project that the *.Renvi* file is in