

R Coding Best Practices

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Some best practices for writing r-code (add more as discovered)

No use of `{r} rm(list = ls())` at beginning of files

- Do not empty the workspace with `{r} rm()`
- `{r} rm()` keeps many previous settings
- For example, all the packages that were already loaded remain or options like `{r} options(stringsAsFactors = FALSE)` remain set
- *Instead:* always start with a fresh r-session

No use of `{r} setwd()`

- *Instead: use the here package*, see: https://github.com/jennybc/here_here
- If you use r-studio, create an R-project for the project in the main folder
- When loading `{r} library(here)` within the project, the main folder will become the basis from which to declare any paths
- Use `{r} here()` to declare paths from main folder
- This means no more changing of paths, etc.
- The code will run on different machines or at different points in time. Even if we rename the main folder at some point or move it to a different location.

No massive package loading

- *Instead: only load those packages that are actually used in the file*
- Also, pay attention to function conflicts when loading, i.e., which functions are masked when loading a new package.
- For example, if tidyverse is loaded the lag functions within plm, lfe will not work!
- *Instead: use the conflicted package*, see: <https://github.com/r-lib/conflicted>
- The conflicted package will alert/throw an error when using any function that has conflict.
- Also, when loading a package that has a conflicted function, immediately after loading the package declare which package to use the function from, e.g.: `r{ } conflict_prefer("filter", "dplyr")`
`### use filter from dplyr`