

Module 10 Pre-Read - renv

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Initializing renv library

1. Set working directory to the project root directory
2. Run `renv::init()` and hit Y to proceed
3. The `renv.lock` file is thus created

Taking snapshots to add packages to lockfile

1. Set working directory to project root directory
2. Run `renv::snapshot()`

Taking snapshots to remove packages from lockfile

1. Set working directory to project root directory
2. Run `renv::snapshot()`
3. Run `renv::remove("packagenamehere")`

Activating the renv library

In R console:

1. `.libPaths()`
Check where all the packages are installed
2. Set working directory to project root directory
3. `renv::activate()`
4. `.libPaths()` - location should have changed

Running R from terminal:

1. Set working directory to project root directory
2. `Rscript code/myscript.R`
Will run the script
3. Package environment activate automatically

Under the hood: .Rprofile

A set of R commands that run when you open R

So your `.Rprofile` should have code that activates the package environment like
`source("renv/activate.R")`

Update a version of a package

1. Set working directory to project root directory
2. `renv::activate()` and make sure package environment is correct
3. `renv::snapshot()`

What files to commit (and NOT to commit)

COMMIT the `.Rprofile` so that project environment is activated automatically

DO NOT COMMIT the renv library (your `.gitignore` file in the renv library should ignore everything in `library/` and `staging/`)

Restoring a project library from lock file

1. Go to R console
2. Set working directory to project root directory
3. Use `source("renv/activate.R")` to see if renv is even installed

4. Use `renv::restore()`

Submitting a PR that updates the lock file

1. Take a snapshot
2. Remove the `.Rproj` file
3. Commit as usual

Testing PR code that updates the lock file

1. `git remote add theusernameoftheperson link.com`
2. `git fetch theusernameoftheperson`
3. `git checkout -b newbranch`
4. `renv::activate()`

Adding a Make rule in the Makefile to restore package library

```
82
83 .PHONY: install
84 install:
85     Rscript -e "renv::restore(prompt = FALSE)"
86
```

The `Rscript -e` just runs R code for whatever you put in the quotes