Module 6 Pre-Read - config and GNU Make

Sunday, February 25, 2024 12:44

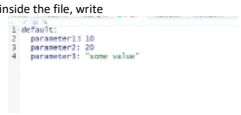
To create a variable in git bash (environment variable):

```
export SOME_VARIABLE="some value"
echo $SOME_VARIABLE
```

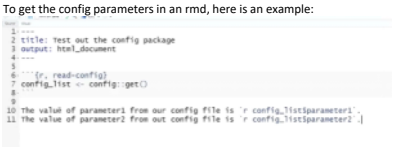
Then, to pass it into an R script, type
`sys.getenv("SOME_VARIABLE")`

The config package

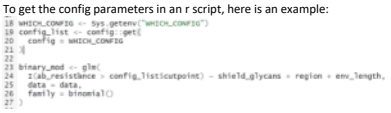
`touch config.yml`
Creates a yaml file, inside we will specify our parameters
e.g. inside the file, write



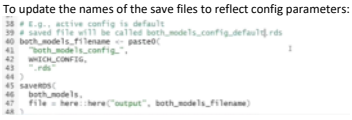
To get the config parameters in an rmd, here is an example:



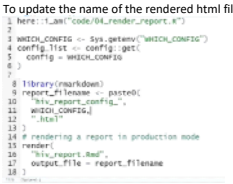
To get the config parameters in an r script, here is an example:



To update the names of the save files to reflect config parameters:



To update the name of the rendered html file:



GNU Make

Make an empty file called Makefile
`touch Makefile`

In Makefile, to write a rule, here is an example:
`output/data_clean.rds: code/00_clean_data.R raw_data/vrc01_data.csv`
[press enter and then the tab key, NOT A SPACE] `Rscript code/00_clean_data.R`

Then in git bash write
`make output/data_clean.rds`

A full example:

```
output/table_one.rds: code/01_make_table1.R output/data_clean.rds
    Rscript code 01/make_table1.R
```

Here, our `table_one` object inherits the stuff from `data_clean` object, so if something changes in `code/00_clean_data.R`, then when we try to make `table_one`, everything will be rebuilt accordingly, including `data_clean` dependencies

To remove all the output:

```
.PHONY: clean
clean:
    rm -f output/*.rds && rm -f output/*.png
```

Then in bash: `make clean`

We need the phony because otherwise GNU make thinks ur looking for a file called clean.

Grouped targets:

Commands executed in sequence: