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:

```
2 title: Test out the config package
3 output: html_document
   ''(r, read-config)
config_list <- config::get()
10 The value of parameter1 from our config file is 'r config_listSparameter1'.

11 The value of parameter2 from out config file is 'r config_listSparameter2'.
```

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

```
wHICH_CONFIG <- Sys.getenv('
config_list <- config::get(
config = NHICH_CONFIG
22 | 22 | 23 binary_nod <- qlm( | 24 | 16ab,resistânce > config_listicutpoint) - shield_glycans + region + env_length, | 25 | data = data, | 26 | family = binomial() | 27 | 7 |
```

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

```
savemos(
  both_models,
  file = here::here("output", both_models_filename)
```

To update the name of the rendered html file:

```
WHICH_CONFIG <- Sys.getenv("WHICH_CONFIG")
config_list <- config::get(
config = WHICH_CONFIG
   )
# rendering a report in production mode
    "hiv_report.Rmd",
output_file - report_filename
```

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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

```
To remove all the output:
 .PHONY: clean
```

clean:
rm -f output/*.rds && rm -f output/*.png
Theninbash:make clean

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

```
13: output/both_models_config_default.rds output/both_regression_tables_config_default.rds6: \ 14 01_models_n output/data_clean.rds
15 Rscript code/01_models_n
16 77 /HoRV: Clean
$ export NHICH_CONFIG=default
```

.PHONY: regression_analysis regression_analysis: output/both_models_config_default.rds \ output/both_regression_tables_config_default.rds

```
1 ## hiv_report_config_default.html: This is the final report.
2 hiv_report_config_${\text{WHICH_CONFIG}}{\text{html}: code/04_render_report.R} \
3 hiv_report.Rmd descriptive_analysis regression_analysis
4 Rscript code/04_render_report.R
```

Commands executed in sequence:

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```
10 ## output/table_one.rds:
                                       This is the table 1 summary created using gtsummary
11-output/table_one.rds: code/01_make_table1.R
     Rscript code/00_clean_data.R && \
12
     Rscript code/01_make_table1.R
```