

bare_script.R

jan

2025-02-28

```
#####  
# Template of a bare-bones R script  
#  
# last change: 2024/06/26  
# author: jan.vanhove@unifr.ch  
#####  
  
# You can use File > Compile report... to compile a report based on this script.  
# But also take a look at script_with_markdown.R, which shows how you can obtain  
# nicer reports.
```

```
#-----  
# Preliminaries
```

```
# Load packages  
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --  
## v dplyr      1.1.4      v readr      2.1.5  
## v forcats    1.0.0      v stringr    1.5.1  
## v ggplot2    3.5.1      v tibble     3.2.1  
## v lubridate  1.9.3      v tidyr      1.3.1  
## v purrr      1.0.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()  
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(here)
```

```
## here() starts at /home/jan/ownCloud/Documents/Workshops/DatasetsAndGraphs
```

```
# Load datasets  
skills <- read_csv(here("data", "helascot_skills.csv"))
```

```
## Rows: 1904 Columns: 6  
## -- Column specification -----  
## Delimiter: ","  
## chr (2): Subject, LanguageTested  
## dbl (4): Time, Reading, Argumentation, Narration  
##  
## i Use 'spec()' to retrieve the full column specification for this data.  
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

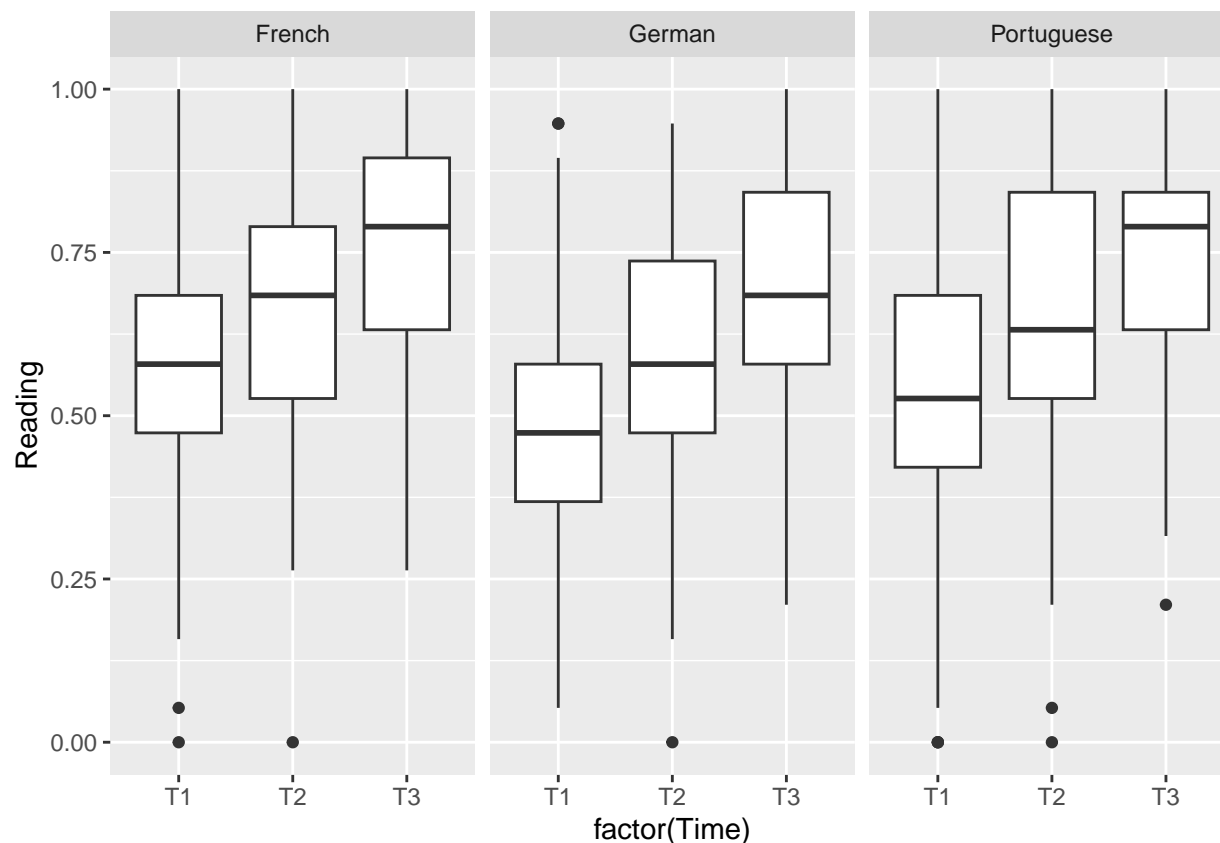
```
#-----
# Summary
skills |>
  group_by(LanguageTested, Time) |>
  summarise(
    mean_reading = mean(Reading, na.rm = TRUE),
    mean_arg     = mean(Argumentation, na.rm = TRUE),
    mean_narr    = mean(Narration, na.rm = TRUE)
  )
```

```
## 'summarise()' has grouped output by 'LanguageTested'. You can override using
## the '.groups' argument.
```

```
## # A tibble: 9 x 5
## # Groups:   LanguageTested [3]
##   LanguageTested Time mean_reading mean_arg mean_narr
##   <chr>          <dbl>      <dbl>    <dbl>    <dbl>
## 1 French         1      0.568     11.2     7.79
## 2 French         2      0.665     13.2     8.37
## 3 French         3      0.742     16.3    10.1
## 4 German         1      0.476     9.46     6.33
## 5 German         2      0.599     12.2     7.06
## 6 German         3      0.689     13.2     7.68
## 7 Portuguese     1      0.545     11.4     8.50
## 8 Portuguese     2      0.652     13.3     9.16
## 9 Portuguese     3      0.737     16      10.2
```

```
#-----
# Graph
ggplot(skills,
  aes(x = factor(Time),
      y = Reading)) +
  geom_boxplot() +
  scale_x_discrete(labels = paste0("T", 1:3)) +
  facet_grid(cols = vars(LanguageTested))
```

```
## Warning: Removed 23 rows containing non-finite outside the scale range
## ('stat_boxplot()').
```



```
# Use ggsave() to save.
```

```
#-----
```

```
# Software versions
```

```
devtools::session_info()
```

```
## - Session info -----
## setting value
## version R version 4.4.2 (2024-10-31)
## os Ubuntu 22.04.5 LTS
## system x86_64, linux-gnu
## ui X11
## language en_US
## collate en_US.UTF-8
## ctype en_US.UTF-8
## tz Europe/Zurich
## date 2025-02-28
## pandoc 3.1.1 @ /usr/lib/rstudio/resources/app/bin/quarto/bin/tools/ (via rmarkdown)
##
## - Packages -----
## package * version date (UTC) lib source
## bit 4.0.5 2022-11-15 [1] CRAN (R 4.4.0)
## bit64 4.0.5 2020-08-30 [1] CRAN (R 4.4.0)
## cachem 1.0.6 2021-08-19 [2] CRAN (R 4.2.0)
## callr 3.7.6 2024-03-25 [1] CRAN (R 4.4.0)
## cli 3.6.3 2024-06-21 [1] CRAN (R 4.4.1)
```

```

## colorspace      2.1-0    2023-01-23 [1] CRAN (R 4.4.0)
## crayon          1.5.1    2022-03-26 [2] CRAN (R 4.2.0)
## devtools        2.4.5    2022-10-11 [1] CRAN (R 4.4.0)
## digest          0.6.36   2024-06-23 [1] CRAN (R 4.4.0)
## dplyr           * 1.1.4    2023-11-17 [1] CRAN (R 4.4.0)
## ellipsis        0.3.2    2021-04-29 [2] CRAN (R 4.2.0)
## evaluate        0.24.0   2024-06-10 [1] CRAN (R 4.4.0)
## farver          2.1.2    2024-05-13 [1] CRAN (R 4.4.0)
## fastmap         1.2.0    2024-05-15 [1] CRAN (R 4.4.0)
## forcats         * 1.0.0    2023-01-29 [1] CRAN (R 4.4.0)
## fs              1.5.2    2021-12-08 [2] CRAN (R 4.2.0)
## generics        0.1.3    2022-07-05 [1] CRAN (R 4.4.0)
## ggplot2         * 3.5.1    2024-04-23 [1] CRAN (R 4.4.0)
## glue            1.8.0    2024-09-30 [1] CRAN (R 4.4.1)
## gtable          0.3.5    2024-04-22 [1] CRAN (R 4.4.0)
## here           * 1.0.1    2020-12-13 [1] CRAN (R 4.4.0)
## hms             1.1.3    2023-03-21 [1] CRAN (R 4.4.0)
## htmltools       0.5.8.1   2024-04-04 [1] CRAN (R 4.4.0)
## htmlwidgets    1.6.4     2023-12-06 [1] CRAN (R 4.4.0)
## httpuv         1.6.15    2024-03-26 [1] CRAN (R 4.4.0)
## knitr           1.47      2024-05-29 [1] CRAN (R 4.4.0)
## labeling        0.4.3    2023-08-29 [1] CRAN (R 4.4.0)
## later           1.3.2    2023-12-06 [1] CRAN (R 4.4.0)
## lifecycle       1.0.4    2023-11-07 [1] CRAN (R 4.4.0)
## lubridate       * 1.9.3    2023-09-27 [1] CRAN (R 4.4.0)
## magrittr        2.0.3    2022-03-30 [1] CRAN (R 4.4.0)
## memoise         2.0.1    2021-11-26 [2] CRAN (R 4.2.0)
## mime            0.10     2021-02-13 [2] CRAN (R 4.0.2)
## miniUI          0.1.1.1   2018-05-18 [1] CRAN (R 4.4.0)
## munsell         0.5.1    2024-04-01 [1] CRAN (R 4.4.0)
## pillar          1.10.1    2025-01-07 [1] CRAN (R 4.4.1)
## pkgbuild        1.3.1    2021-12-20 [2] CRAN (R 4.2.0)
## pkgconfig       2.0.3    2019-09-22 [2] CRAN (R 4.2.0)
## pkgload         1.3.4    2024-01-16 [1] CRAN (R 4.4.0)
## prettyunits     1.1.1    2020-01-24 [2] CRAN (R 4.2.0)
## processx        3.8.4    2024-03-16 [1] CRAN (R 4.4.0)
## profvis         0.3.8    2023-05-02 [1] CRAN (R 4.4.0)
## promises        1.3.0    2024-04-05 [1] CRAN (R 4.4.0)
## ps              1.7.6    2024-01-18 [1] CRAN (R 4.4.0)
## purrr           * 1.0.2    2023-08-10 [1] CRAN (R 4.4.0)
## R6              2.5.1    2021-08-19 [2] CRAN (R 4.2.0)
## Rcpp            1.0.12    2024-01-09 [1] CRAN (R 4.4.0)
## readr           * 2.1.5    2024-01-10 [1] CRAN (R 4.4.0)
## remotes         2.4.2    2021-11-30 [2] CRAN (R 4.2.0)
## rlang           1.1.4    2024-06-04 [1] CRAN (R 4.4.0)
## rmarkdown       2.27     2024-05-17 [1] CRAN (R 4.4.0)
## rprojroot       2.0.3    2022-04-02 [2] CRAN (R 4.2.0)
## rstudioapi      0.16.0    2024-03-24 [1] CRAN (R 4.4.0)
## scales          1.3.0    2023-11-28 [1] CRAN (R 4.4.0)
## sessioninfo     1.2.2    2021-12-06 [2] CRAN (R 4.2.0)
## shiny           1.8.1.1   2024-04-02 [1] CRAN (R 4.4.0)
## stringi         1.8.4    2024-05-06 [1] CRAN (R 4.4.1)
## stringr         * 1.5.1    2023-11-14 [1] CRAN (R 4.4.0)
## tibble          * 3.2.1    2023-03-20 [1] CRAN (R 4.4.0)

```

```
## tidy      * 1.3.1  2024-01-24 [1] CRAN (R 4.4.0)
## tidyselect 1.2.1  2024-03-11 [1] CRAN (R 4.4.0)
## tidyverse  * 2.0.0  2023-02-22 [1] CRAN (R 4.4.2)
## timechange 0.3.0  2024-01-18 [1] CRAN (R 4.4.0)
## tzdb       0.4.0  2023-05-12 [1] CRAN (R 4.4.0)
## urlchecker 1.0.1  2021-11-30 [1] CRAN (R 4.4.0)
## usethis    2.2.3  2024-02-19 [1] CRAN (R 4.4.0)
## utf8       1.2.4  2023-10-22 [1] CRAN (R 4.4.1)
## vctrs      0.6.5  2023-12-01 [1] CRAN (R 4.4.0)
## vroom      1.6.5  2023-12-05 [1] CRAN (R 4.4.0)
## withr      3.0.2  2024-10-28 [1] CRAN (R 4.4.2)
## xfun       0.44   2024-05-15 [1] CRAN (R 4.4.0)
## xtable     1.8-4   2019-04-21 [1] CRAN (R 4.4.0)
## yaml       2.3.5   2022-02-21 [2] CRAN (R 4.2.0)
```

```
##
## [1] /home/jan/R/x86_64-pc-linux-gnu-library/4.4
## [2] /usr/local/lib/R/site-library
## [3] /usr/lib/R/site-library
## [4] /usr/lib/R/library
```

```
##
## -----
```