FACTOR RELEVELLING EXAMPLE

A Practical Foray into Lengthy Subtitle Management, Iris Dataset Tampering, and the Unceasing Pursuit of Stakeholder-Friendly Data Presentation.

From Markdown Mastery to Factor Finagling:

This work entitled

Factor relevelling example

A Practical Foray into Lengthy Subtitle Management, Iris Dataset Tampering, and the Unceasing Pursuit of Stakeholder-Friendly Data Presentation.

From Markdown Mastery to Factor Finagling:

was compiled by

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Chapter 1 Summary

This is a lightweight document for me to kink out the particulars of producing serious-looking but verstile documents. Rendering for 10 minutes would be unpalatable for this document, however I wanted it to serve some useful purpose besides flaunting my template.

Chapter 2 Relevelling & Forcats

Factors sometimes get on my nerve. Their levels' order keep changing, you want to switch between human readable (stakeholder readable) and easy-to-type names, etc.

Take a look at the 'iris' dataset. Species is clearly a factor.

```
unique(iris$Species)
```

[1] setosa versicolor virginica Levels: setosa versicolor virginica

Lets rename some species. The below code is a bit bloated but intuitive IMHO.

And to test the results, lets see what a printout would say. Can I reference said table? Lets try (??):

```
source(here::here("R","theme_marty_flextable.r"))
set.seed(12345)
iris_recode %>%
   .[sort(sample(nrow(.),10)),] %>%
   flextable::flextable() %>%
   theme_marty()
```

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species	Species_hr
4.90	3.00	1.40	0.20	setosa	smelly
4.90	3.60	1.40	0.10	setosa	smelly
7.00	3.20	4.70	1.40	versicolor	fluffy
4.90	2.40	3.30	1.00	versicolor	fluffy
6.40	2.90	4.30	1.30	versicolor	fluffy
6.00	3.40	4.50	1.60	versicolor	fluffy
5.80	2.60	4.00	1.20	versicolor	fluffy
5.70	3.00	4.20	1.20	versicolor	fluffy
6.90	3.10	5.10	2.30	virginica	virginica
6.70	3.00	5.20	2.30	virginica	virginica

3 Notes

Information regarding the compilation of this document:

```
knitr::opts_chunk$set(comment = NA)
sessionInfo() %>% report::report() %>% cat()
```

Analyses were conducted using the R Statistical language (version 4.3.0; R Core Team, 2023) on Windows 10 x64 (build 19045), using the packages rmarkdown (version 2.23; Allaire J et al., 2023), effects (version 4.2.2; Fox J, Weisberg S, 2019), carData (version 3.0.5; Fox J et al., 2022), flextable (version 0.9.2; Gohel D, Skintzos P, 2023), lubridate (version 1.9.2; Grolemund G, Wickham H, 2011), DHARMa (version 0.4.6; Hartig F, 2022), huxtable (version 5.5.2; Hugh-Jones D, 2022), labelled (version 2.12.0; Larmarange J, 2023), emmeans (version 1.8.7; Lenth R, 2023), nlme (version 3.1.162; Pinheiro J et al., 2023), gtsummary (version 1.7.1; Sjoberg D et al., 2021), ggplot2 (version 3.4.2; Wickham H, 2016), readxl

(version 1.4.2; Wickham H, Bryan J, 2023), roxygen2 (version 7.2.3; Wickham H et al., 2022), dplyr (version 1.1.2; Wickham H et al., 2023), knitr (version 1.43; Xie Y, 2023), pagedown (version 0.20; Xie Y et al., 2022) and kableExtra (version 1.3.4.9000; Zhu H, 2023).

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This document was compiled at:

```
Sys.time()

[1] "2023-07-06 17:38:02 CEST"

save.image(file = here::here("inst", "states", "cookbook_out.Rdata"))
```

4 Appendix

This is how put all your code into an appendix.

```
knitr::opts_chunk$set(echo = TRUE,
                      fig.align = 'center',
                      warning = FALSE,
                      message = FALSE)
unique(iris$Species)
library(dplyr)
iris recode <- iris %>%
 mutate(Species hr =
           forcats::fct_recode( Species,
                                 smelly =
        as.character(unique(iris$Species)[1]),
                                 fluffy =
        as.character(unique(iris$Species)[2])
                                 #Didn't recode 'virginica' as an
        example
                                 ))
source(here::here("R","theme_marty_flextable.r"))
set.seed(12345)
iris_recode %>%
 .[sort(sample(nrow(.),10)),] %>%
 flextable::flextable() %>%
 theme marty()
knitr::opts chunk$set(comment = NA)
sessionInfo() %>% report::report() %>% cat()
Sys.time()
save.image(file = here::here("inst", "states", "cookbook out.Rdata"))
# This throws a warning everytime so lets forget about it
#| tidy=TRUE
```