

# COOKBOOK

My Subtitle because subtitles are great and long and great and commonly span multiple lines  
arent they great? arent yours not? I can't believe how long they can be

This work entitled

**Cookbook**

My Subtitle because subtitles are great and long and great and commonly span multiple lines  
arent they great? arent yours not? I can't believe how long they can be

was compiled by

*Márton Kiss MD*

This document has been meticulously compiled by the author, who assures the application of the finest methodologies and the most comprehensive professional knowledge available at the time of writing. The author guarantees that every effort has been made to ensure the accuracy and reliability of the information contained within, reflecting a rigorous approach to research, analysis, and attention to detail.

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Márton Kiss MD, Applied Biostatistician 4242

november 20.

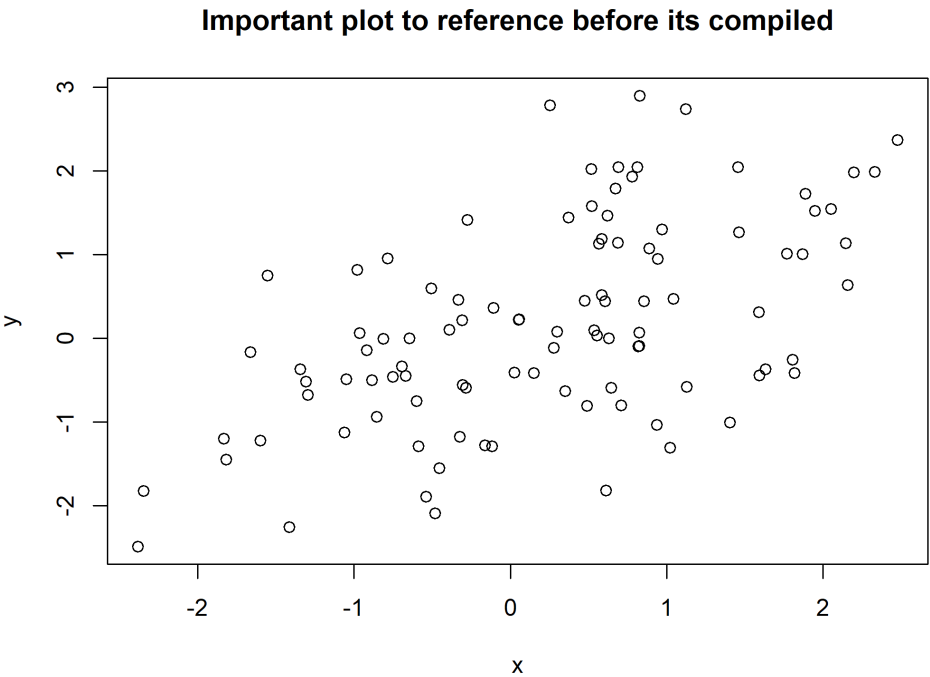
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# 1 Results

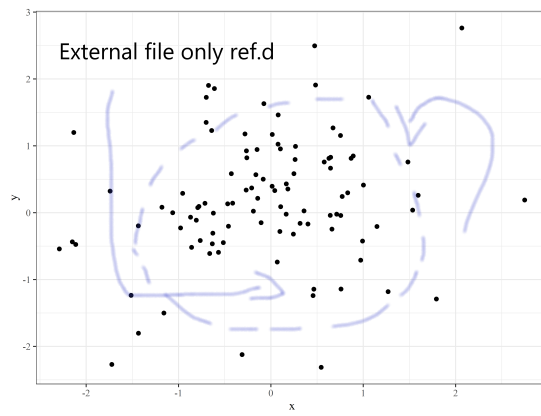
## 1.1 Executive summary

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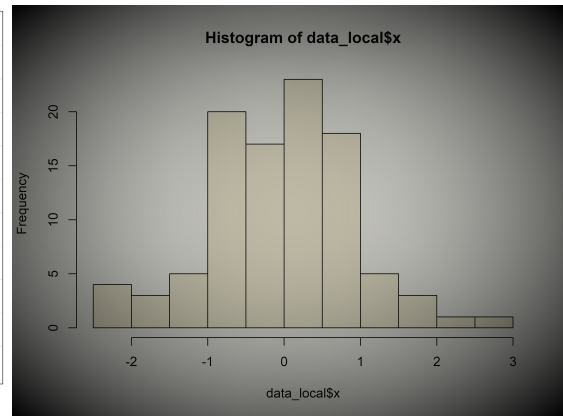
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Executive graph for executive thoughts



Caption for image 1



Caption for image 2

## 1.2 Introduction

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Links can be given in this format (for html versions): [link](#)

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scelerisque. Maecenas id ligula ultricies, tristique sem eu, eleifend est. Cras tempor feugiat nibh sit amet efficitur.

### 1.3 Deviations from the Protocol

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### 1.4 Planned investigations

If you're feeling cocky, spruce up your report with model descriptions in Latex, eg.:

$$FPR = \frac{FP}{N} = \frac{FP}{FP + TN}$$

$$TPR = \frac{TP}{P} = \frac{FP}{FP + FN}$$

$$\log(\text{Cool variable}_{i,j}) = \alpha_0 + \alpha_1 \times \text{Independent variable}_1 +$$

$$\alpha_2 \times \text{Independent variable}_{2,i,j} + \alpha_3 \times \text{Sex}_i +$$

$$\alpha_2 \times \text{Independent variable}_{3,i,j} * \alpha_{3,k} \times \text{Treatment} +$$

$$\delta_{0,i} + \delta_{1i} \times j + \epsilon_{i,j}$$

where,

- *i* is the subject number,
- *j* is the time point,
- *k* is the treatment,
- $\epsilon$  is the residual error, and
- $\delta$  represents the random effects.

## 2 Cyclic child Rmd call

### 2.1 Chapter title

#### 2.1.1 Side-by-side log graphs

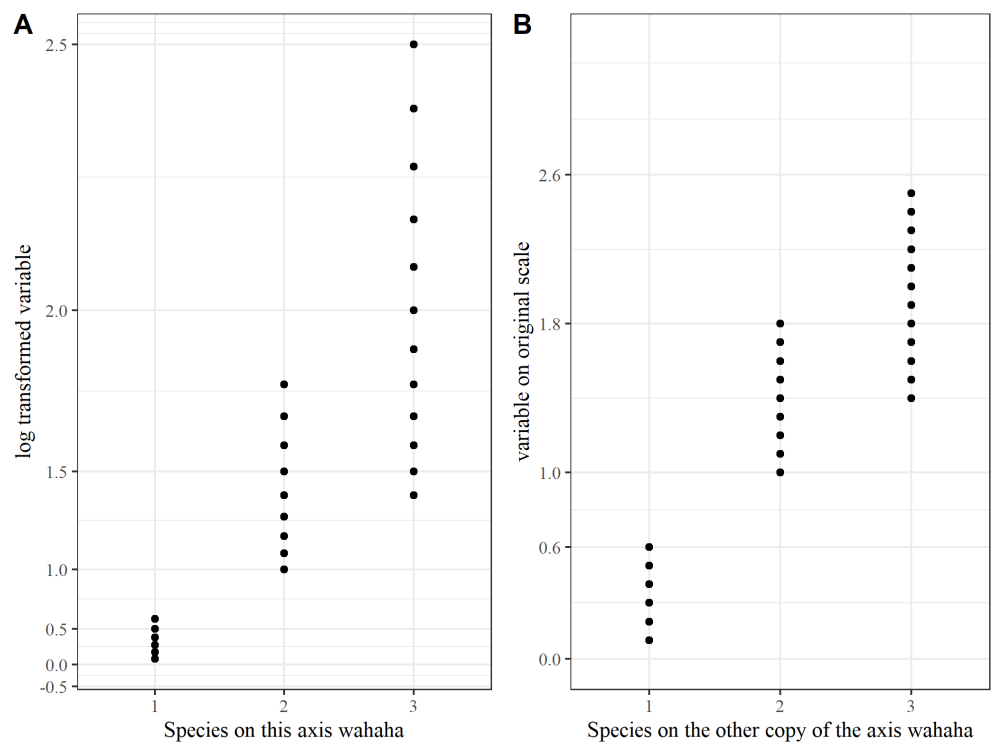
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Title of the plot above

### *2.1.2 Side by side different graphs, different fig. title*

### 2.1.3 A *tbl\_summary* example

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Plot without much thought or meaning

= 50	Verginica, N = 50	Versicolor, N = 50	
Numeric representation of species			
1	50 (100%)	0 (0%)	0 (0%)
2	0 (0%)	0 (0%)	50 (100%)
3	0 (0%)	50 (100%)	0 (0%)
These are the width of the petals	0.20 (0.20, 0.30)	2.00 (1.80, 2.30)	1.30 (1.20, 1.50)
These are the length of the petals	1.50 (1.40, 1.58)	5.55 (5.10, 5.88)	4.35 (4.00, 4.60)
These are the width of the sepals	3.40 (3.20, 3.68)	3.00 (2.80, 3.18)	2.80 (2.53, 3.00)
These are the length of the sepals	5.00 (4.80, 5.20)	6.50 (6.23, 6.90)	5.90 (5.60, 6.30)
This is a date column to illustrate transformations	2022-01-01 to 2022-02-19	2022-04-11 to 2022-05-30	2022-02-20 to 2022-04-10
This is my new example variable, adding up the lengths	3.70 (3.40, 3.90)	4.95 (4.63, 5.38)	4.20 (3.73, 4.40)
mock_ID	11.5 (6.0, 15.0)	10.0 (5.3, 15.8)	9.5 (5.0, 14.0)

Dis be the second table

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4

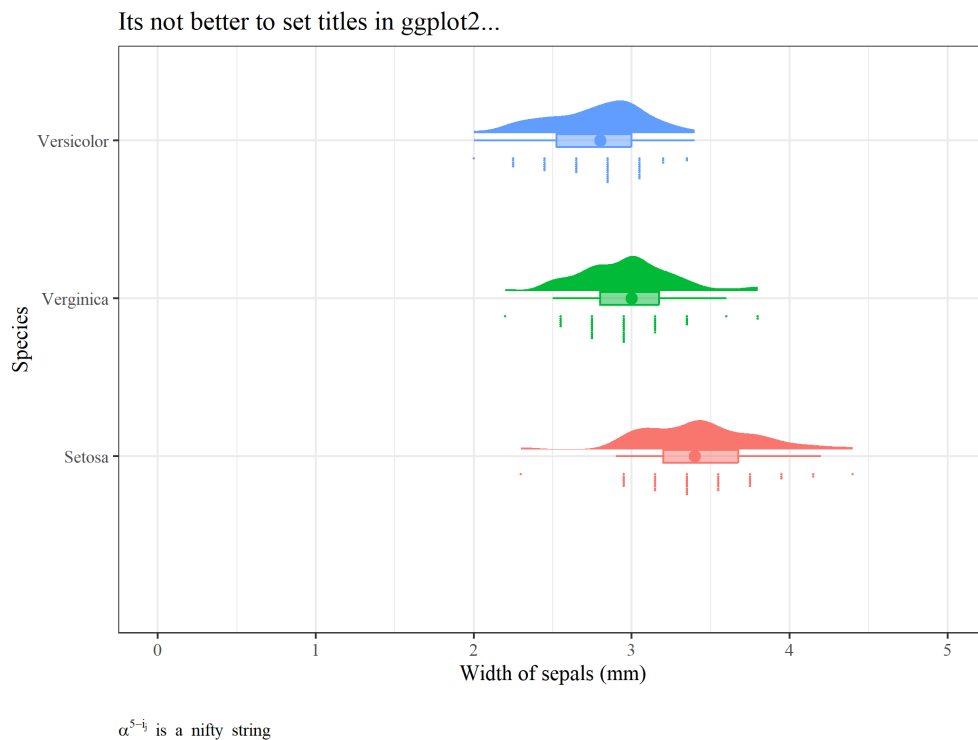
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1

#### 2.1.4 A raincloud plot

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Raincloud plot(!)

### 2.1.5 Mixed model specification

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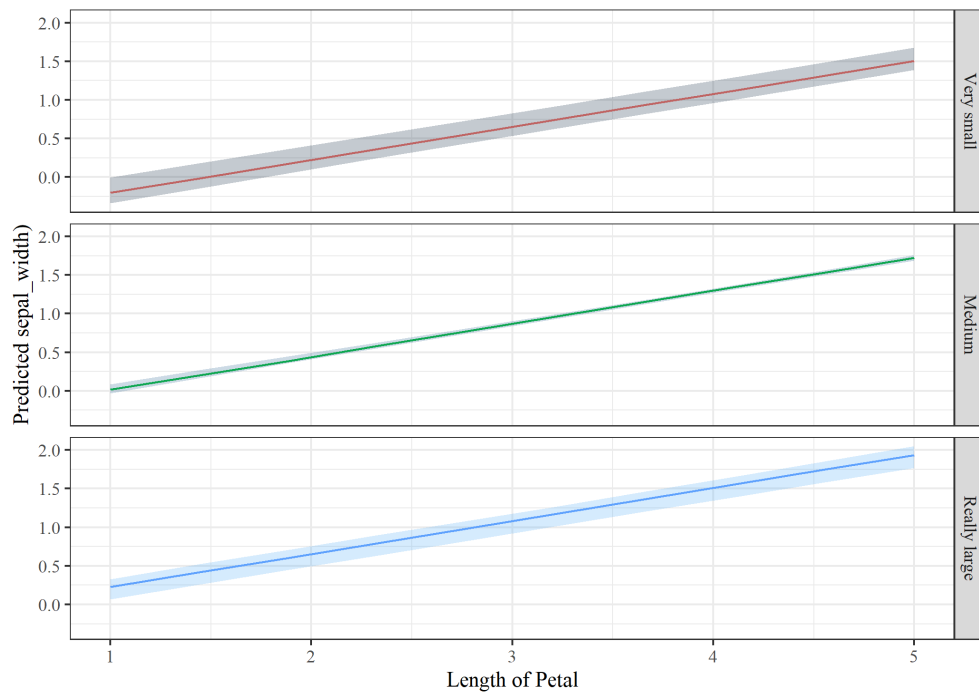
Specification of an lmer model

<i>Predictors</i>	Width of petal (mm)	
	<i>Estimates</i>	<i>CI</i>
Intercept	-0.70	-0.95 - -0.38
Length of petal	0.43	0.40 - 0.44
Width of sepal	0.10	0.01 - 0.17
<b>Random Effects</b>		
$\sigma^2$	0.040	
$\tau_{00}$ mock_ID	0.001	
ICC	0.033	
N <sub>mock_ID</sub>	21	
Observations	150	
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.929 / 0.931	

These are some texts.

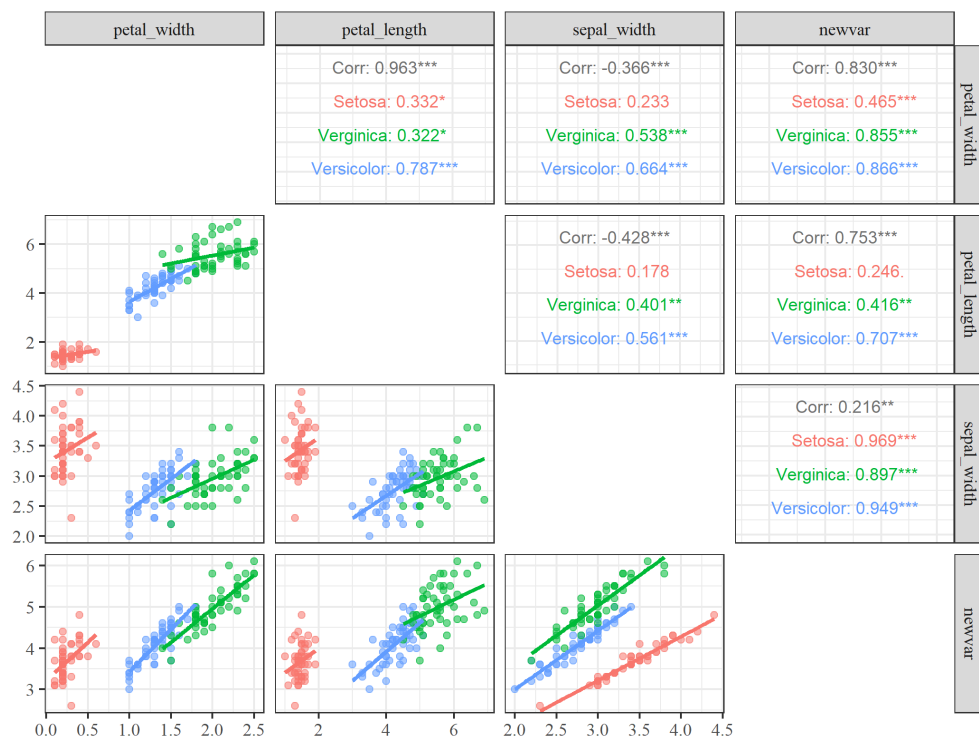
Cashcashing....

plottyplotting...



Confidence bands are conditional on the random effects(?)

### lmer predictions with bootstrap and labelled facets



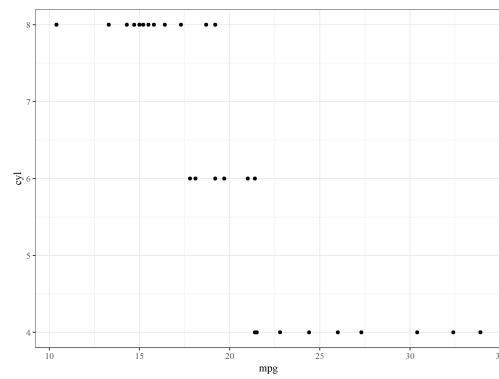
Especially Cool 'pairs' plot

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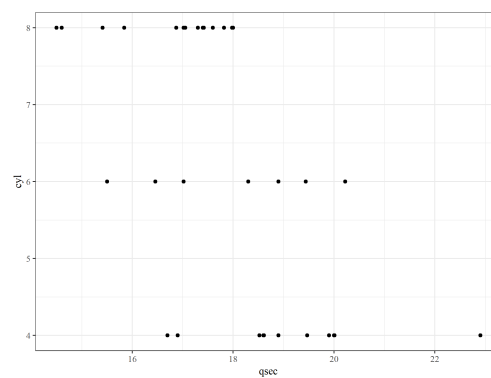
### 3.0.1 *cyl*

#### 3.0.1.1 Table

#### 3.0.1.2 Figures



A negyedik paraméteres kód ábrái



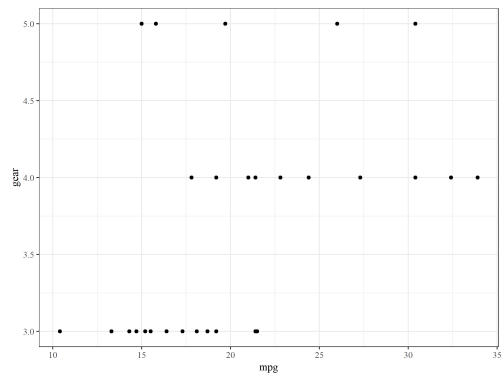
A negyedik paraméteres kód ábrái

És még hivatkozni is tudunk a(z) ??? ábrára.

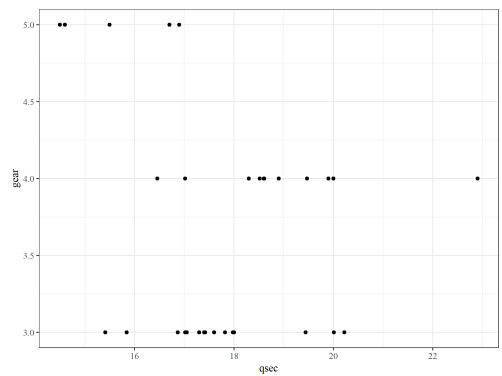
### 3.0.2 *gear*

#### 3.0.2.1 Table

#### 3.0.2.2 Figures



A negyedik paraméteres kód ábrái



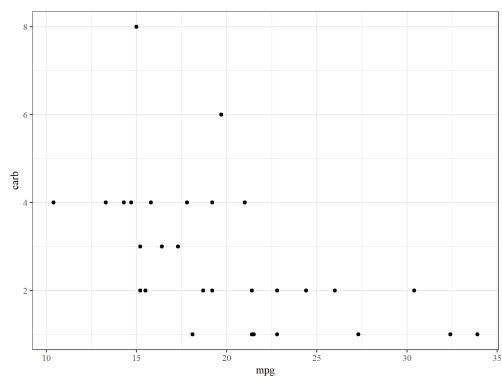
A negyedik paraméteres kód ábrái

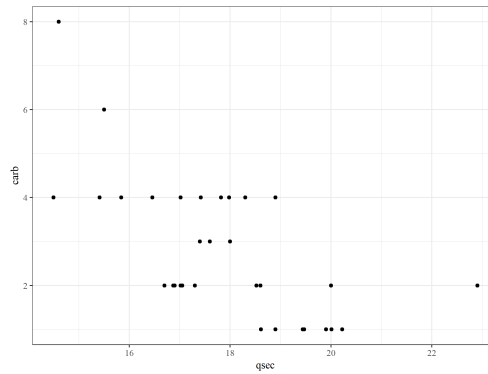
És még hivatkozni is tudunk a(z) ??? ábrára.

### 3.0.3 carb

#### 3.0.3.1 Table

#### 3.0.3.2 Figures



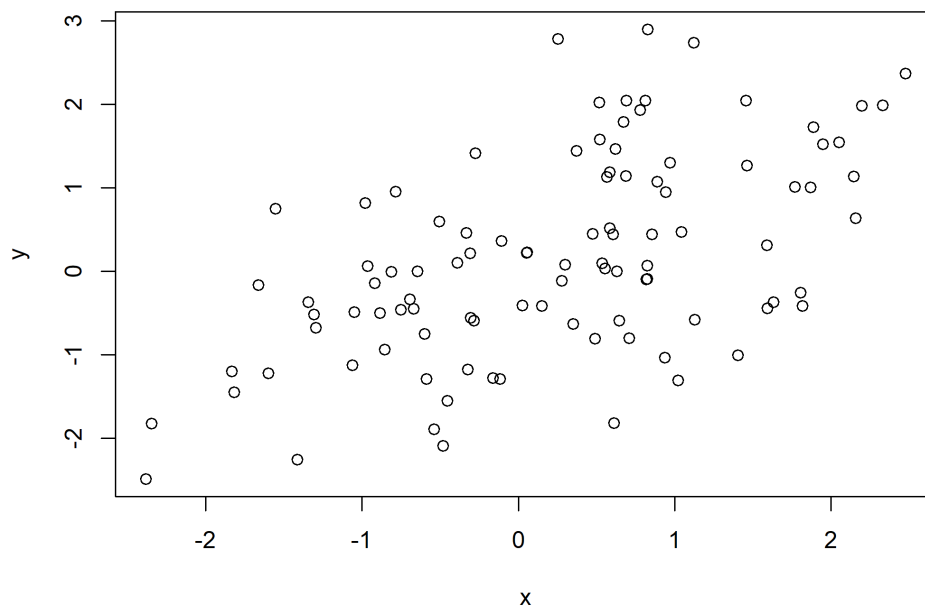


A negyedik paraméteres kód ábrái

És még hivatkozni is tudunk a(z) ??? ábrára.

## 4 Plot compilation to be referenced

Important plot to reference before its compiled



Executive graph for executive thoughts

## 5 Notes

The MD5 checksum of the database used:

```
## C:/OneDrive_DKM/-/Dinamikus Kiválóság Menedzsment - General/Stats_R/R/MartysCookbook/
## "1ed4b9d54186"
```

Other information regarding the compilation of this document:

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 2.22; Allaire J et al., 2023), `lme4` (version 1.1.33; Bates D et al., 2015), `Matrix` (version 1.5.4.1; Bates D et al., 2023), `effects` (version 4.2.2; Fox J, Weisberg S, 2019), `carData` (version 3.0.5; Fox J et al., 2022), `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 2.11.0; Larmarange J, 2023), `emmeans` (version 1.8.6; 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; Zhu H, 2021).

## 5.1 References

- Allaire J, Xie Y, Dervieux C, McPherson J, Luraschi J, Ushey K, Atkins A, Wickham H, Cheng J, Chang W, Iannone R (2023). *rmarkdown: Dynamic Documents for R*. R package version 2.22, <https://github.com/rstudio/rmarkdown>.
- Bates D, Mächler M, Bolker B, Walker S (2015). “Fitting Linear Mixed-Effects Models Using lme4.” *Journal of Statistical Software*, 67(1), 1-48. .
- Bates D, Maechler M, Jagan M (2023). *Matrix: Sparse and Dense Matrix Classes and Methods*. R package version 1.5-4.1, <https://CRAN.R-project.org/package=Matrix>.
- Fox J, Weisberg S (2019). *An R Companion to Applied Regression*, 3rd edition. Sage, Thousand Oaks CA. <https://socialsciences.mcmaster.ca/jfox/Books/Companion/index.html>.
- Fox J, Weisberg S, Price B (2022). *carData: Companion to Applied Regression Data Sets*. R package version 3.0-5, <https://CRAN.R-project.org>

/package=carData.

- Grolemund G, Wickham H (2011). “Dates and Times Made Easy with lubridate.” *Journal of Statistical Software*, 40(3), 1-25. <https://www.jstatsoft.org/v40/i03/>.
- Hartig F (2022). *DHARMA: Residual Diagnostics for Hierarchical (Multi-Level / Mixed) Regression Models*. R package version 0.4.6, <https://CRAN.R-project.org/package=DHARMA>.
- Hugh-Jones D (2022). *huxtable: Easily Create and Style Tables for LaTeX, HTML and Other Formats*. R package version 5.5.2, <https://CRAN.R-project.org/package=huxtable>.
- Larmarange J (2023). *labelled: Manipulating Labelled Data*. R package version 2.11.0, <https://CRAN.R-project.org/package=labelled>.
- Lenth R (2023). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. R package version 1.8.6, <https://CRAN.R-project.org/package=emmeans>.
- Pinheiro J, Bates D, R Core Team (2023). *nlme: Linear and Nonlinear Mixed Effects Models*. R package version 3.1-162, <https://CRAN.R-project.org/package=nlme>.
- R Core Team (2023). *R: A Language and Environment for Statistical Computing*. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>.
- Sjoberg D, Whiting K, Curry M, Lavery J, Larmarange J (2021). “Reproducible Summary Tables with the gtsummary Package.” *The R Journal*, 13, 570-580. , <https://doi.org/10.32614/RJ-2021-053>.
- Wickham H (2016). *ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. ISBN 978-3-319-24277-4, <https://ggplot2.tidyverse.org>.
- Wickham H, Bryan J (2023). *readxl: Read Excel Files*. R package version 1.4.2, <https://CRAN.R-project.org/package=readxl>.
- Wickham H, Danenberg P, Csárdi G, Eugster M (2022). *roxygen2: In-Line Documentation for R*. R package version 7.2.3, <https://CRAN.R-project.org/package=roxygen2>.

- Wickham H, François R, Henry L, Müller K, Vaughan D (2023). *dplyr: A Grammar of Data Manipulation*. R package version 1.1.2, <https://CRAN.R-project.org/package=dplyr>.
- Xie Y (2023). *knitr: A General-Purpose Package for Dynamic Report Generation in R*. R package version 1.43, <https://yihui.org/knitr/>.
- Xie Y, Lesur R, Thorne B, Tan X (2022). *pagedown: Paginate the HTML Output of R Markdown with CSS for Print*. R package version 0.20, <https://CRAN.R-project.org/package=pagedown>.
- Zhu H (2021). *kableExtra: Construct Complex Table with ‘kable’ and Pipe Syntax*. R package version 1.3.4, <https://CRAN.R-project.org/package=kableExtra>.

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[1] "2023-07-03 15:37:19 CEST"

## 6 Appendix

This is how put all your code into an appendix.



```

# https://dotcms.com/docs/latest/markdown-syntax
# https://yihui.org/knitr/options/
# https://zbib.org/
# https://www.r-bloggers.com/2019/09/first-world-problems-very-long-
  rmarkdown-documents/

# # For citations insert this into the yaml header (without spaces)
# # And make a book.bib file to the location of the mother .rmd
# bibliography: book.bib
# biblio-style: apalike
# link-citations: yes

source(here::here("inst","functions","load_stuff.r"))

relpath <- "inst/example_cookbook" %>%
  file.path(here::here(),.)

fig_directory      <- paste0(relpath, "/figures/")
fig_directory_ext  <- paste0(relpath, "/figures_ext/")

knitr::opts_chunk$set(
  echo = FALSE,                # Ne mutassa a kódokat
  cached = FALSE,              ###!!! # Ne cache-eljen
  warning = FALSE,             # Ne írja ki a warningokat
  message = FALSE,
  fig.align = 'center',        # Ábra középre rendezése
  out.width = '90%',           # Ábra szélessége, alter.:
    #fig.fullwidth = TRUE,
  fig.asp = .75,               # Ábra Hossz/szélesség
  tidy.opts = list(width.cutoff = 60), # legyenek 60 karakter
    szélességűre törölve
  tidy = TRUE, #"styler",      # legyenek clean
    codingra megformázva
  dev = 'png', #'tiff',        # PNG legyen az
    alapértelmezett képformátum
  compression = 'lzw',
  dpi = 300,                   # a PNG képek elég jó
    minőségűek legyenek
  fig.pos = 'H',               # nem próbálja az ábrákat az
    oldal tetejére tenni
  fig.path = fig_directory     # Ábra kimenet helye
)

options(scipen = 1) # Require 5 instead of 4 for scientific notation
  (eg. for p-values)
options(digits = 3) # default no. of digits (!)
options(encoding = "UTF-8")

plot(x,y)

plot_a_path <- paste0( fig_directory_ext,
  "mandatory_chunk_name-1.png")

```