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.

Márton Kiss MD, Applied Biostatistician 4242

november 20.

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1 Results

1.1 Executive summary

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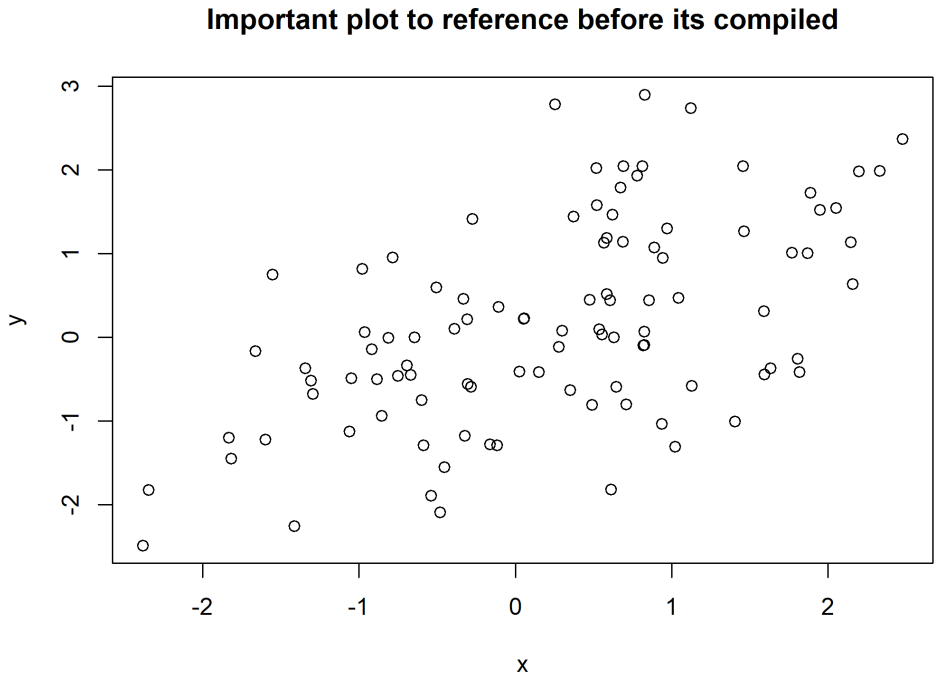
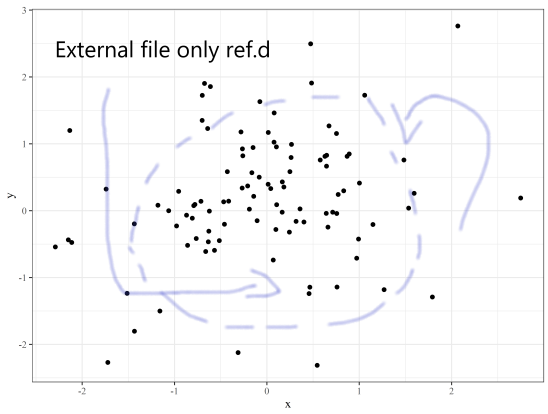
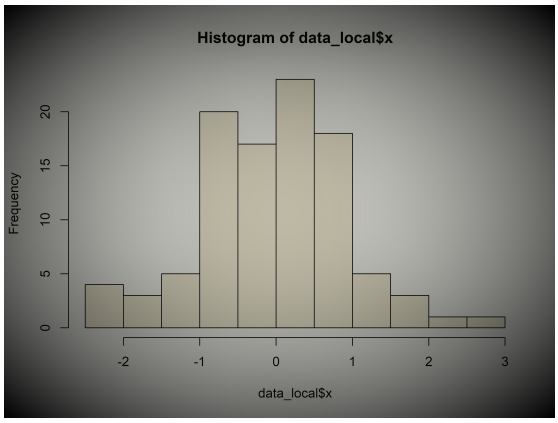


Executive graph for executive thoughts



Caption for image 1



Caption for image 2

1.2 Introduction

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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.:

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

$$log(Cool\ variable_{i,j}) = \alpha_0 + \alpha_1 \times Independent\ variable_1 +$$
$$\alpha_2 \times Independent\ variable_{2,i,j} + \alpha_3 \times Sex_i +$$

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

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

where,

- **i** is the subject number,
- **j** is the time point,
- **k** is the treatment,
- ϵ is the residual error, and
- δ 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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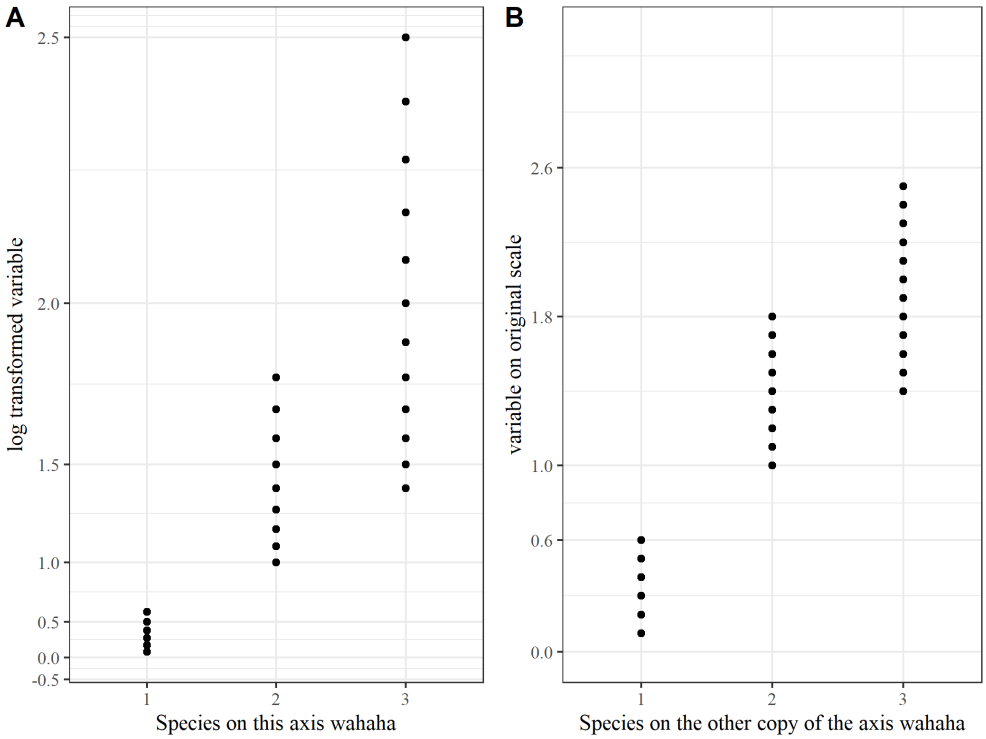

Title of the plot above

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	9.5 (4.3, 13.0)	8.5 (5.0, 15.8)	10.5 (7.0, 16.0)

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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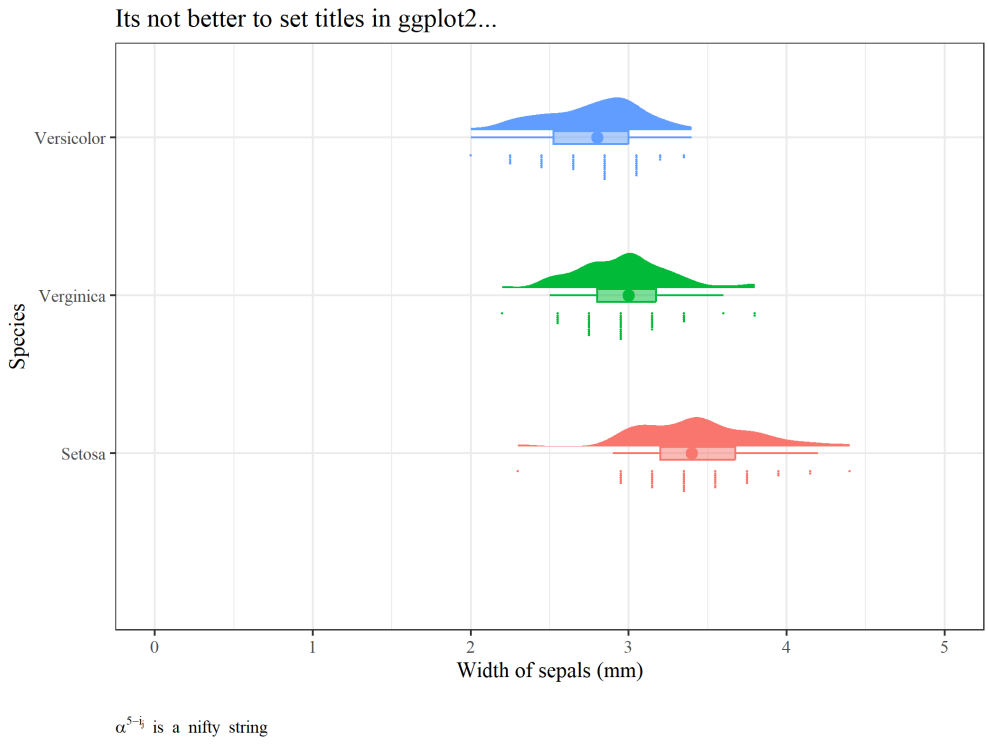

Raincloud plot(!)

2.1.5 Mixed model specification

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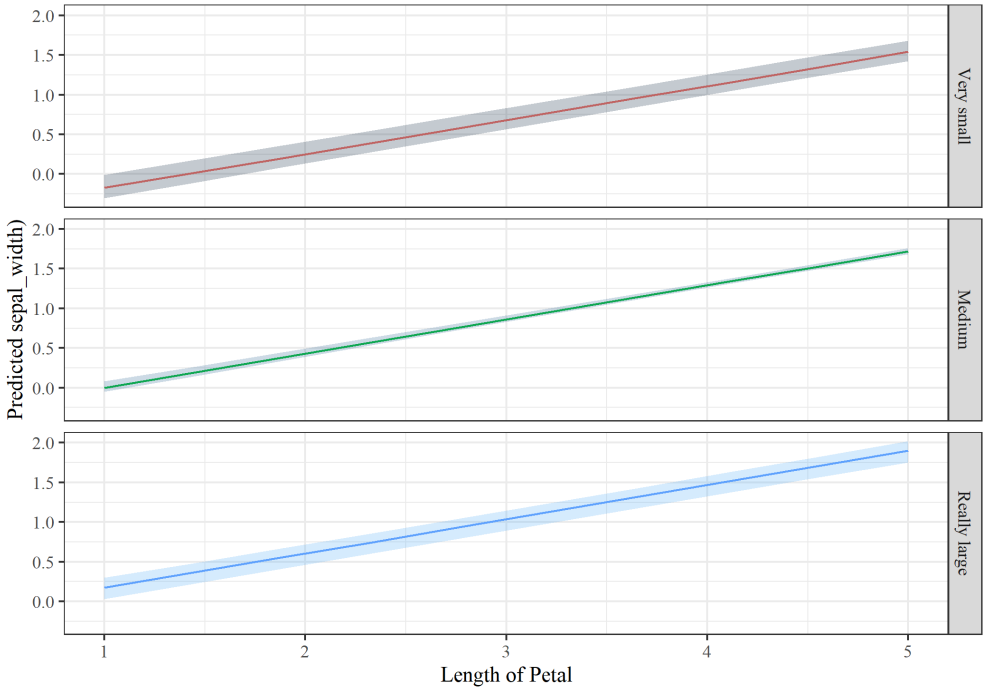
Specification of an lmer model

	Width of petal (mm)	
Predictors	*Estimates*	*CI*
Interceeeeept	-0.71	-0.97 – -0.37
Length of petal	0.43	0.41 – 0.44
Width of sepal	0.10	0.01 – 0.17
Random Effects		
σ^2	0.041	
$\tau_{00\ mock\_ID}$	0.000	
$N_{\ mock\_ID}$	21	
Observations	150	
Marginal R^2 / Conditional R^2	0.929 / NA	

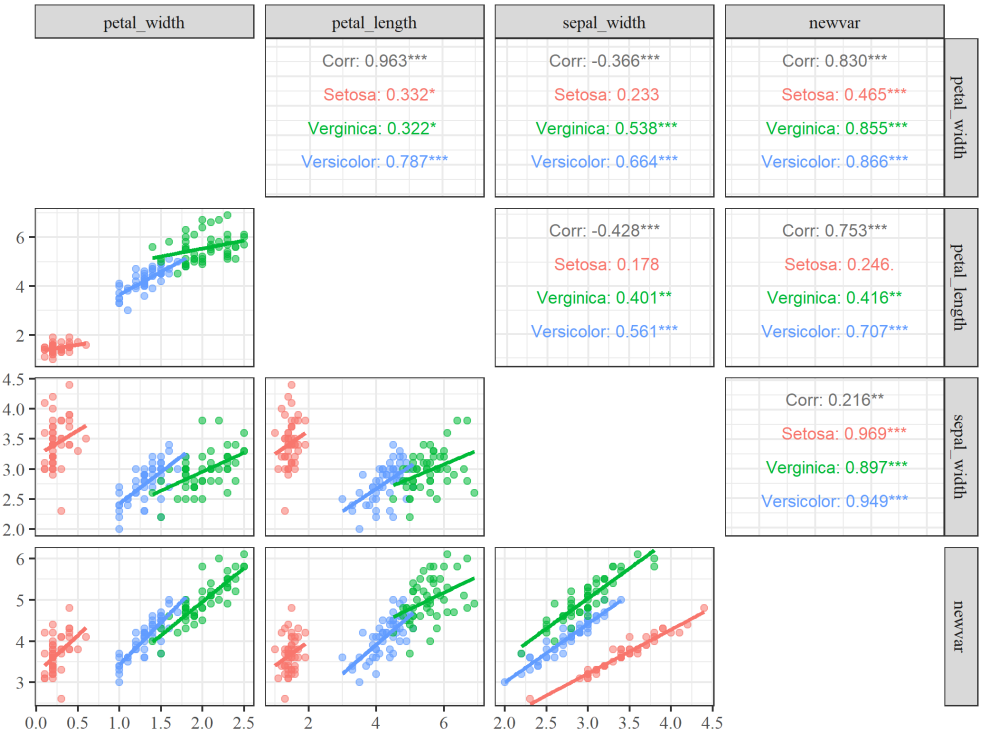
These are some texts.

Cashycashing….

plottyplotting…



lmer predictions with bootstrap and labelled facets



Especially Cool 'pairs' plot

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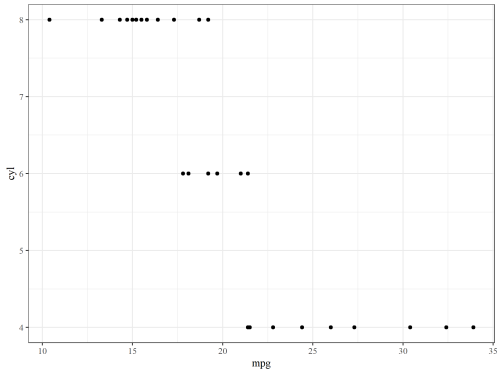
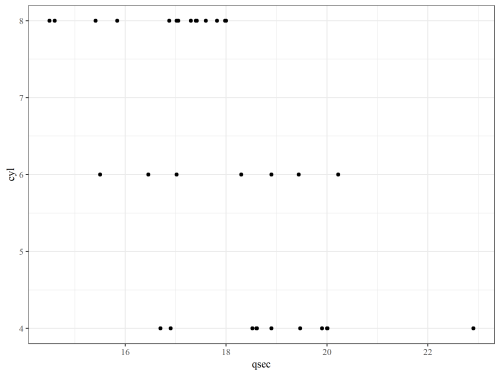
3.0.1 cyl

3.0.1.1 Table

3.0.1.2 Figures



A negyedik paraméteres kód ábrái



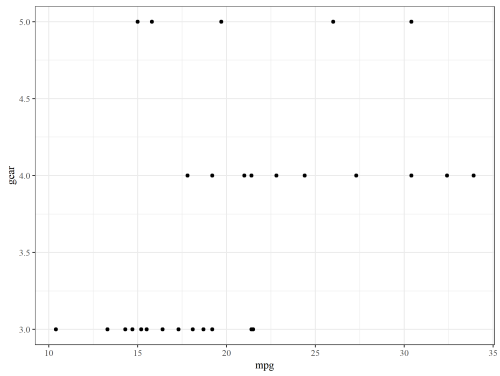
A negyedik paraméteres kód ábrái

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

3.0.2 gear

3.0.2.1 Table

3.0.2.2 Figures



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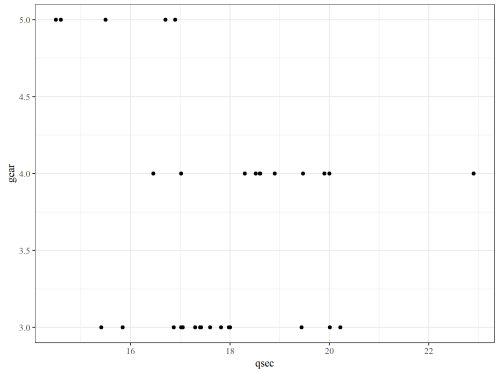


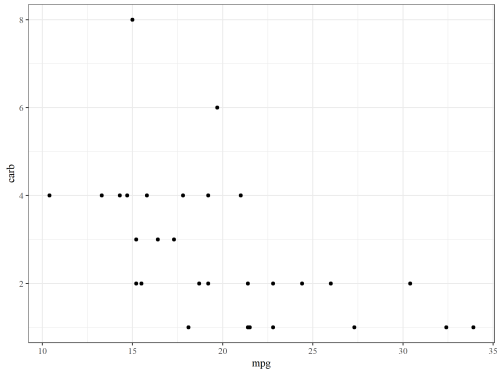
A negyedik paraméteres kód ábrái

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

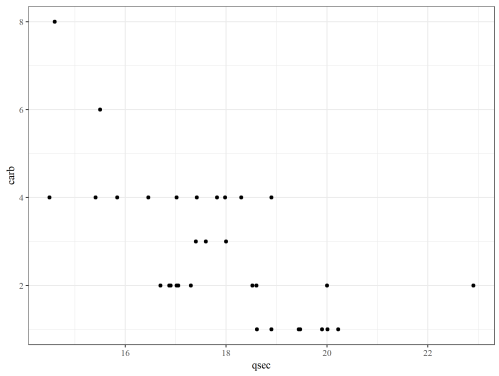
3.0.3 carb

3.0.3.1 Table

3.0.3.2 Figures



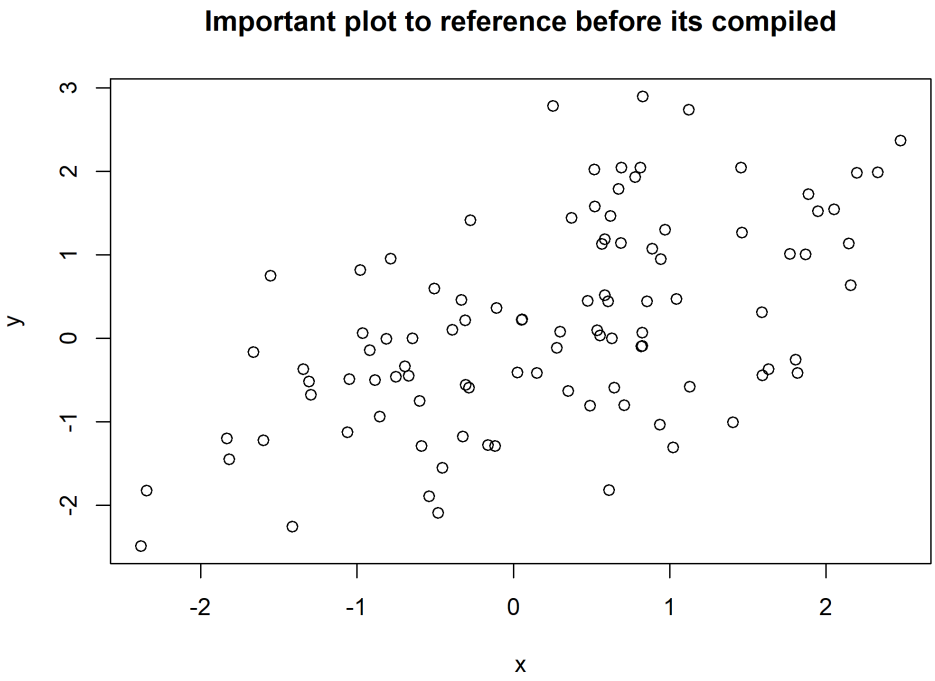
A negyedik paraméteres kód ábrái



A negyedik paraméteres kód ábrái

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

4 Plot compilation to be referenced



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).

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This document was compiled at:

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[1] "2023-07-03 16:06:57 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"))

# This is a pain but prefer to have it in a separate file which may be
        updated
# by functions from th outside. Will result in precompilation having the
# right references
relpath <- readLines("_location.txt")

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 tördelve
    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)
```