coda club live

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2022-09-21

Contents

1 rmarkdown references (cheatsheets etc)

1. https://shiny.rstudio.com/articles/rm-cheatsheet.html.
2. reference guide (pdf)

2 this is a title

2.0.0.0.1 My third heading These are some of my favourite papers: [1,2] as well as [3] and [4–9].

This is a website that definitely exists: github yo.

bold text

italic

3 dot points, numbered lists

1. *kdjgfkjgfds*
2. dfkjlsgsfd;lkg
3. fjkgslgh

- dfgdfgs
- dfggdf
- dfgdfg

3.1 tables

stat	value
dfggf	456546
dfggf2	456546+2

4 monospace

code looking text `code_variables_etc`

5 let's look at some code

Hey Ash, you already know this, but this is storing 10 in a variable `x`

```
x <- 10
x
```

```
## [1] 10
```

Another chunk reading in data dynamically and doing stuff

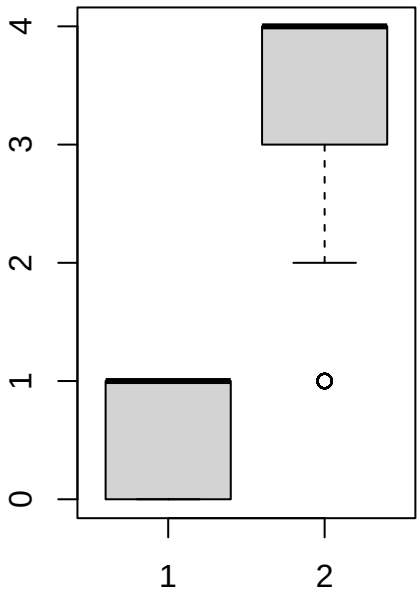
```
library("readr")
library("knitr")

hsb <- read_csv("dat/hsb2.csv", col_names = FALSE)
```

```
## Rows: 200 Columns: 11
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## dbl (11): X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11
##
## 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.
```

```
hsb
```

```
## # A tibble: 200 x 11
##       X1    X2    X3    X4    X5    X6    X7    X8    X9   X10   X11
##    <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
##  1    70     0     4     1     1     1    57    52    41    47    57
##  2   121     1     4     2     1     3    68    59    53    63    61
##  3    86     0     4     3     1     1    44    33    54    58    31
##  4   141     0     4     3     1     3    63    44    47    53    56
##  5   172     0     4     2     1     2    47    52    57    53    61
##  6   113     0     4     2     1     2    44    52    51    63    61
##  7    50     0     3     2     1     1    50    59    42    53    61
##  8    11     0     1     2     1     2    34    46    45    39    36
##  9    84     0     4     2     1     1    63    57    54    58    51
## 10    48     0     3     2     1     2    57    55    52    50    51
## # ... with 190 more rows
```

```
boxplot(hsb$X2, hsb$X3)
```



The third column has a mean of 3.43 (units are kgs)

```
sub_hsb <- hsb[1:10, 1:4]
sub_hsb
```

```
## # A tibble: 10 x 4
##       X1    X2    X3    X4
##    <dbl> <dbl> <dbl> <dbl>
##  1    70     0     4     1
##  2   121     1     4     2
##  3    86     0     4     3
##  4   141     0     4     3
##  5   172     0     4     2
##  6   113     0     4     2
##  7    50     0     3     2
##  8    11     0     1     2
##  9    84     0     4     2
## 10    48     0     3     2
```

```
kable(sub_hsb)
```

X1	X2	X3	X4
70	0	4	1
121	1	4	2
86	0	4	3
141	0	4	3
172	0	4	2

X1	X2	X3	X4
113	0	4	2
50	0	3	2
11	0	1	2
84	0	4	2
48	0	3	2

References

[1] Smith AE, Goldsworthy MR, Garside T, Wood FM, Ridding MC. The influence of a single bout of aerobic exercise on short-interval intracortical excitability. Experimental Brain Research 2014;232:1875–82.

[2] Dumuid D, Stanford TE, Martin-Fernández J-A, Pedišić Ž, Maher CA, Lewis LK, et al. Compositional data analysis for physical activity, sedentary time and sleep research. Statistical Methods in Medical Research 2018;27:3726–38.

[3] Mellow ML, Crozier AJ, Dumuid D, Wade AT, Goldsworthy MR, Dorrian J, et al. How are combinations of physical activity, sedentary behaviour and sleep related to cognitive function in older adults? A systematic review. Experimental Gerontology 2022:111698.

[4] Howlett CA, Wewege MA, Berryman C, Oldach A, Jennings E, Moore E, et al. Same room-different windows? A systematic review and meta-analysis of the relationship between self-report and neuropsychological tests of cognitive flexibility in healthy adults. Clinical Psychology Review 2021;88:102061.

[5] Ridgers ND, Salmon J, Parrish A-M, Stanley RM, Okely AD. Physical activity during school recess: A systematic review. American Journal of Preventive Medicine 2012;43:320–8.

[6] Miatke A, Maher C, Fraysse F, Dumuid D, Olds T. Are all MVPA minutes equal? Associations between MVPA characteristics, independent of duration, and childhood adiposity. BMC Public Health 2021;21:1–9.

[7] Turnbull C, Boomsma A, Milte R, Stanton TR, Hordacre B. Safety and adverse events following non-invasive electrical brain stimulation in stroke: A systematic review. Topics in Stroke Rehabilitation 2022:1–3.

[8] Curtis RG, Bartel B, Ferguson T, Blake HT, Northcott C, Virgara R, et al. Improving user experience of virtual health assistants: Scoping review. Journal of Medical Internet Research 2021;23:e31737.

[9] Matricciani LA, Olds TS, Blunden S, Rigney G, Williams MT. Never enough sleep: A brief history of sleep recommendations for children. Pediatrics 2012;129:548–56.