

coda club live

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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. dfkjlsgsf;lkg
3. fjkgsfgh
 - 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")

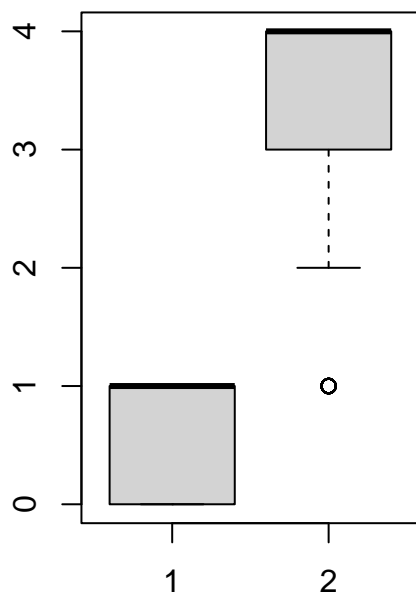
hsb <- read_csv("dat/hsb2.csv", col_names = FALSE)

## Rows: 200 Columns: 11
## -- Column specification -----
## Delimiter: ","
## dbf (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.
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- [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.