Title

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HS-Fresenius: Data Science for Business

Table of Contents

Rendered at 24 November, 2022

Word count: 685

# Abstract

Bli bla blub

# h1 Heading 8-)

## h2 Heading

### h3 Heading

#### h4 Heading

##### h5 Heading

###### h6 Heading

## Set your working directory.

## Horizontal Rules

## Emphasis

**This is bold text**

**This is bold text**

*This is italic text*

*This is italic text*

~~Strikethrough~~

## Lists

Unordered

* Create a list by starting a line with +, -, or \*
* Sub-lists are made by indenting 2 spaces:
  + Marker character change forces new list start:
    - Ac tristique libero volutpat at
    - Facilisis in pretium nisl aliquet
    - Nulla volutpat aliquam velit
* Very easy!

Ordered

1. Lorem ipsum dolor sit amet
2. Consectetur adipiscing elit
3. Integer molestie lorem at massa
4. You can use sequential numbers…
5. …or keep all the numbers as 1.

Start numbering with offset:

1. foo
2. bar

## Code

Inline code

Indented code

// Some comments  
line 1 of code  
line 2 of code  
line 3 of code

Block code “fences”

Sample text here...

Syntax highlighting

var foo = function (bar) {  
 return bar++;  
};  
  
console.log(foo(5));

## R Code Chunks

norm <- rnorm(100, mean = 0, sd = 1)

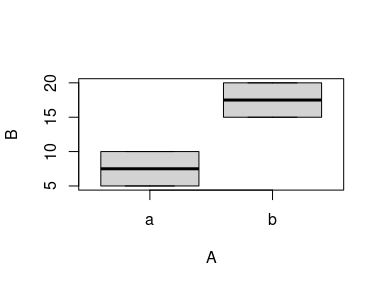
## A B  
## 1 a 5  
## 2 a 10  
## 3 b 15  
## 4 b 20

library(dplyr)

A <- c("a", "a", "b", "b")  
B <- c(5, 10, 15, 20)  
dataframe <- data.frame(A, B)  
print(dataframe)

## A B  
## 1 a 5  
## 2 a 10  
## 3 b 15  
## 4 b 20

boxplot(B~A,data=dataframe)



## Tables

| Option | Description |
| --- | --- |
| data | path to data files to supply the data that will be passed into templates. |
| engine | engine to be used for processing templates. Handlebars is the default. |
| ext | extension to be used for dest files. |

Right aligned columns

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| Plant | Temp. | Growth |
| --- | --- | --- |
| A | 20 | 0.65 |
| B | 20 | 0.95 |
| C | 20 | 0.15 |

## Links

[link text](http://dev.nodeca.com)

[link with title](http://nodeca.github.io/pica/demo/)

Autoconverted link <https://github.com/nodeca/pica> (enable linkify to see)

## Images



Minion



Minion

## Formulas

When , there are two solutions to and they are

Alternatively, you can use a math code block syntax to display a math expression as a block. With this syntax, you don’t need to use the dollar delimiters.

\sqrt{3}

## [Footnotes](https://github.com/markdown-it/markdown-it-footnote)

Footnote 1 link[[1]](#footnote-49).

Footnote 2 link[[2]](#footnote-50).

Inline footnote[[3]](#footnote-51) definition.

Duplicated footnote reference[[4]](#footnote-52).

## Citing Papers

You can cite papers like that: The book [*R for Data Science*](https://r4ds.had.co.nz/) by Wickham and Grolemund (2018) is a good one. I am the author of Huber and Rust (2016).

In order to be able to do that you need to save the references in the reference.bib file that I mentioned in the header. I highly recommend using a bibliography manager such as <www.jabref.org> that allows to save and manage all bibliography entries.

## Render everything

If you separately run this code, it will render the file and produce all the different formats that are mentioned in the preamble. Here the following file formats will be generated: pdf, html, and word.

setwd("/home/sthu/Dropbox/hsf/github/courses/rmd/")  
rmarkdown::render("rmarkdown-template.Rmd", "all")

# Literature

Huber, Stephan, and Christoph Rust. 2016. “Calculate Travel Time and Distance with OpenStreetMap Data Using the Open Source Routing Machine (OSRM).” *The Stata Journal* 16 (2): 416–23.

Wickham, Hadley, and Garrett Grolemund. 2018. *R for Data Science: Import, Tidy, Transform, Visualize, and Model Data*. Sebastopol, CA: O’Reilly.

1. Footnote **can have markup**

   and multiple paragraphs. [↑](#footnote-ref-49)
2. Footnote text. [↑](#footnote-ref-50)
3. Text of inline footnote [↑](#footnote-ref-51)
4. Footnote text. [↑](#footnote-ref-52)