

Title

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HS-Fresenius: Data Science for Business

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Word count: 685

Abstract

Bli bla blub

1 h1 Heading 8-)

1.1 h2 Heading

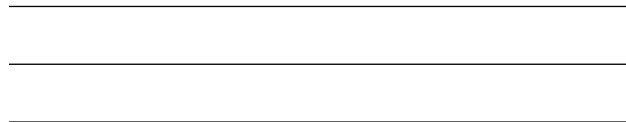
1.1.1 h3 Heading

1.1.1.1 h4 Heading

1.1.1.1.1 h5 Heading h6 Heading

1.2 Set your working directory.

1.3 Horizontal Rules



1.4 Emphasis

This is bold text

This is bold text

This is italic text

This is italic text

~~Strikethrough~~

1.5 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:

57. foo
58. bar

1.6 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));
```

1.7 R Code Chunks

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

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

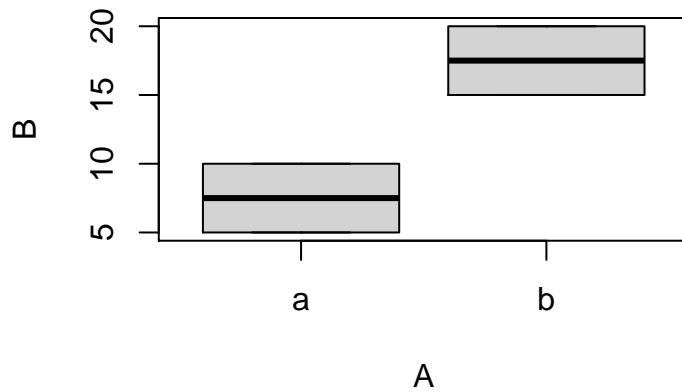
```
library(dplyr)
```

```
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)
```



1.8 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

	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.

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

1.9 Links

[link text](#)

[link with title](#)

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

1.10 Images



Figure 1: Minion



Figure 2: Minion

1.11 Formulas

When $a \neq 0$, there are two solutions to $(ax^2 + bx + c = 0)$ and they are

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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}
```

1.12 Footnotes

Footnote 1 link¹.

Footnote 2 link².

Inline footnote³ definition.

Duplicated footnote reference⁴.

1.13 Citing Papers

You can cite papers like that: The book *R for Data Science* 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.

1.14 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.

¹Footnote **can have markup**
and multiple paragraphs.

²Footnote text.

³Text of inline footnote

⁴Footnote text.

```
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 Grolmund. 2018. *R for Data Science: Import, Tidy, Transform, Visualize, and Model Data*. Sebastopol, CA: O’Reilly.