Reproducible\_Report

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12 Dezember 2017

## This is my Report

# Advantage 1: Consitent layout whatever you do

I can write stuff in **R-Markdown** and it will appear in Word with the Layout I pre-defined in my style.docx. Very nice indeed. This means I can make sure that all documents I write have exactly the same layout because they all use the same style template. Set a layout once and you don't need to care about it anymore.

# Advantage 2: Easily including graphs/images/tables produced in R into your document

But that is only part of the beauty. I can also include all sorts of R code chunks, and easily include graphs and tables.

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots



# Advantage 3: Set global variables, pieces of text that you can re-use in the whole document.

You can use pre-defined variables in your text:

email= "my\_email@adress.com"

This is my [my\_email@adress.com](mailto:my_email@adress.com)

# Advantage 4: Combining advantage 3 with databases

If you combine this feature with an outside database, for example an excel sheet, and let R loop trough the rows, including certain variables in the text, you can create several equal documents with content changing according to a database.

For example, if you have to write several letters to different people, this will come in very handy.

We can write one letter setting one set of values:

Name= "Bob"  
Status= "Famous"  
Address= "Penny Lane"

To: Famous Bob  
Address: Penny Lane

## Now lets write 3 letters to 3 customers at the same time:

For this we need to use an additional R file which will call this markdown file!

If we do not have this additional file, the next piece of code needs to be commented out!

row=data[rownames(data)==i,]  
Name= row$Name  
Status= row$Status  
Address= row$Address

To: Dear Anna  
Address: Blue House