R markdown Tutorial

Doro Hodapp

7 November 2016

## Setup

To use R markdown you first need to install the two packages *rmarkdown* and *knitr*.  
If you want to be able to producde pdf documents additional to html and word documents in R markdown you also need to install TeX on your computer.

Once you have installed the packages go to File -> New File -> R markdown. Specifiy the type of document you want to produce and click **OK**.

## R Markdown

Plain text  
End a line with two spaces to end a paragraph.  
You can use different styles, e.g. *italics* or alternatively *italics* or write something in **bold**, or alternatively use **bold**.  
You can use superscripts2  
or ~~strikethrough~~  
or include a link to a webpage like this link to the [Rstudio](www.rstudio.com) site.

You can also use a hierarchical system of headers:

# Header 1

## Header 2

### Header 3

#### Header 4

##### and so on.

endash: --  
emdash: ---  
ellipsis: ...

inline equation:   
embed and image like this check mark:  


horizontal rule (or slide break):

block quote indicated by a line on the side highlighting all lines included in your block quote

Include ordered or unordered lists of itmes and subitems, but be sure to leave an empty line before your list otherwise it won't show up.

* unordered list
* item 2
* subitem 1
* subitem 2

1. numbered item 1
2. numbered item 2

* subitem 1
* subitem 2

Include simple tables:

|  |  |
| --- | --- |
| Table Header | Second Header |
| Table cell | Cell 2 |
| Cell 3 | Cell 4 |

You can also inlude so called chunks of R code to load and manipulate data or run analyses by typing three back ticks followed by an r in braces:

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

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.