R Markdown Example of MS Word

Jason Thomas

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# Markdown

Surround text with two asterisks, \*\*like this\*\*, to make text **bold**. Use a single asterisk, \*like this\*, to *italicize*. Here is a nested lest (indentation is used for sub-levels):

* Point A
  + A.1
    - A.1.1
    - A.1.2
      * A.1.2.1
  + A.2
* Point B

You can include footnotes.[[1]](#footnote-21) If you want use a font like this[[2]](#footnote-23), surround your text with back ticks, i.e., `.

## R Markdown

R Markdown is a special type of markdown that weaves R output directly into the final document. Here is an example.

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

We can also include R output in a line. For example, the third observation of the speed variable is 7. Now we will replace it with a random value

cars$speed[3] <- rnorm(1)  
cars$speed[3]

## [1] 0.04930964

and show that it has changed to 0.0493096.

# Tables

# create table from iris data set (150 observations of plant species  
# with variables sepal length and width, and pedal length and names.  
names(iris)

## [1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species"

table(iris$Species)

##   
## setosa versicolor virginica   
## 50 50 50

# create a matrix of means  
tab1 <- aggregate(. ~ Species, data = iris, FUN = mean)  
specieNames <- gsub("\\.", " ", names(iris))  
  
# use kable() to format the table  
kable(tab1, digits = 2, col.names = specieNames, align = c('l', rep('c', 4)),  
 caption = "Table 1: Variable means for iris data.")

Table 1: Variable means for iris data.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sepal Length | Sepal Width | Petal Length | Petal Width | Species |
| setosa | 5.01 | 3.43 | 1.46 | 0.25 |
| versicolor | 5.94 | 2.77 | 4.26 | 1.33 |
| virginica | 6.59 | 2.97 | 5.55 | 2.03 |

[This link](https://www.rdocumentation.org/packages/knitr/versions/1.26/topics/kable) contains the help file for the kable() function.

## Example with [kableExtra](https://cran.r-project.org/package=kableExtra)

Another useful R package is [kableExtra](https://cran.r-project.org/package=kableExtra).

## Example with [stargazer](https://cran.r-project.org/package=stargazer)

If you are interested in make tables for your regression models, take a look at the R package [stargazer](https://cran.r-project.org/package=stargazer).

# 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.

1. To format footnotes (e.g., set the font size) you probably have to use a template. [Here](https://rmarkdown.rstudio.com/articles_docx.html) is an example. [↑](#footnote-ref-21)
2. I think it is called Consolas in MS Word. [↑](#footnote-ref-23)