rmarkdown notes

Steven Wong

# Resources

[RStudio R Markdown](http://rmarkdown.rstudio.com/)  
[R Markdown Cheat Sheet](https://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf)  
[R Markdown Reference Guide](https://www.rstudio.com/wp-content/uploads/2015/03/rmarkdown-reference.pdf) [Bookdown: Books with R Markdown](https://bookdown.org/yihui/bookdown/)

# Basics

A YAML is header is a set of key. Output can also be:

* pdf\_document
* word\_document
* beamer\_document
* ioslides\_document

To knitr the .Rmd file to the output, in R, execute:

render("file.rmd")

To knitr the .Rmd file as shiny output, in R, execute:

run("file.rmd")

# Basic Syntax

Plain text  
End a line with two spaces to start a new paragraph.

Or  
End a line with a \. This is useful in tables.

Put an empty line between two line to start a new paragraph, with a gap.

*italics* and *italics*  
**bold** and **bold**  
superscript2  
~~strikethrough~~  
[link](www.rstudio.com)

# Header 1

## Header 2

# Header 1

## Header 2

### Header 3

#### Header 4

##### Header 5

###### Header 6

endash: --  
emdash: ---  
ellipsis: ...  
inline equation:

block quote

plain code blocks

Inline code block.

LaTeX Equations:  
Inline:   
Display equation:

* unordered list
* item 2
* sub-item 1
* sub-item 2

1. ordered list
2. item 2

* sub-item 1
* sub-item 2

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

horizontal rule (or slide break; 3 or more is good):

# Embedding R Codes

Default:

paste("Hello, World!")

## [1] "Hello, World!"

Include code: 2 + 2 = 4

#### Chuck Options (inside {r})

To only show the codes:

paste("Hello, World!")

To only show the evaluation:

## [1] "Hello, World!"

#### Example:

With ggplot2:

imdb <- read\_csv('~/Documents/Projects/IMDB/ratings\_list\_short\_151120.csv')  
ggplot(imdb, aes(x = Rating)) +   
 geom\_histogram(binwidth = 0.2)