

# rmarkdown notes

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## Resources

RStudio R Markdown

R Markdown Cheat Sheet

R Markdown Reference Guide Bookdown: Books with R Markdown

## 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")
```

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## 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**

superscript<sup>2</sup>

~~strikethrough~~

link

## Header 1

## Header 2

## Header 1

## Header 2

## Header 3

## Header 4

## Header 5

## Header 6

endash: –

emdash: —

ellipsis: ...

inline equation:  $A = \pi * r^2$

block quote

plain code blocks

Inline code block.

LaTeX Equations:

Inline: *equation*

Display equation:

*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):

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## 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)
```

