#### Pandoc's Markdown Write with syntax on the left to create effect on right (after render) Plain text Plain text End a line with two spaces to start a new paragraph. italics and bold \*italics\* and \*\*bold\*\* verbatim code `verbatim code` sub/superscript22 sub/superscript^2^~2~ strikethrough ~~strikethrough~~ escaped: \* \_ \ escaped: \\* \\_ \\ endash: --, emdash: --equation block: equation: $A = \pi^{2}$ equation block:

End a line with two spaces to start a new paragraph. endash: -, emdash: equation:  $A = \pi * r^2$ 

 $E = mc^2$ 

block quote

# Header1

Header 2

# Header 3

Header 4

Header 5 Header 6

HTML ignored in pdfs

http://www.rstudio.com <http://www.rstudio.com> [link](www.rstudio.com) Jump to Header 1 Jump to [Header 1](#anchor)



## Caption

2. item 2

continues after

2. an interruption

- unordered list
  - sub-item 1
- sub-sub-item 1

Continued (indent 4 spaces)

i. sub-item 1

1. A list whose numbering

Here is the footnote.

A. sub-sub-item

- 1. ordered list 1. ordered list
- 2. item 2

\* item 2

image:

 $$E = mc^{2}$$ 

> block quote

#### Header 4

##### Header 5

##### Header 6

<!--Text comment-->

# Header1 {#anchor}

## Header 2 {#css\_id}

### Header 3 {.css\_class}

\textbf{Tex ignored in HTML}

![Caption](smallorb.png)

\* unordered list

+ sub-item 1

+ sub-item 2

<em>HTML ignored in pdfs

i) sub-item 1 A. sub-sub-item 1

- sub-sub-item 1

Continued (indent 4 spaces)

(@) A list whose numbering continues after

[^1]: Here is the footnote.

(@) an interruption

Term 1				Definition	n 1		
: Defin	ition	1		Right	Left	Default	Center
Right   Le				12	12	12	12
12   1	.2	12	12	123	123	123	123
123   1	1	123   1	123	1	1	1	1
- slide b - slide b		_			lide bu lide bu		
(>- to have	bullets	appear	on click)	(>- to ha	ave bu	llets appea	ır on click
horizonta	l rule	/slid	e break:	horizont	al rule	/slide brea	k:
***					4		
A footnot	e [^1]			A footno	ote 1		

#### When you render, R Markdown 1. runs the R code, embeds results and text into .md file with knitr 2. then converts the .md file into the finished format with pandoc Set a document's default output format output: html document in the YAML header: # Body output value creates html document html pdf\_document pdf (requires Tex) word\_document Microsoft Word (.docx) **OpenDocument Text** odt document rtf document Rich Text Format Markdown md\_document github document Github compatible markdown ioslides\_presentation ioslides HTML slides slidy\_presentation slidy HTML slides **beamer presentation** Beamer pdf slides (requires Tex)



sub-option	description	html	pdf	word	odt	ŧ	ш	gituhb	ioslides	slidy	beamer
citation_package	The LaTeX package to process citations, natbib, biblatex or none		Χ				Χ				Χ
code_folding	Let readers to toggle the display of R code, "none", "hide", or "show"	Χ									
colortheme	Beamer color theme to use										Χ
CSS	CSS file to use to style document	Χ							Χ		
dev	Graphics device to use for figure output (e.g. "png")	Χ	Χ				Χ	Χ	Χ		Χ
duration	Add a countdown timer (in minutes) to footer of slides									Χ	
fig_caption	Should figures be rendered with captions?	Χ	Χ	Χ	Χ				Χ	Χ	Χ
fig_height, fig_width	Default figure height and width (in inches) for document	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
highlight	Syntax highlighting: "tango", "pygments", "kate", "zenburn", "textmate"	Χ	Χ	Χ						Χ	Χ
includes	File of content to place in document (in_header, before_body, after_body)	Χ	Χ		Χ		Χ	Χ	Χ	Χ	Χ
incremental	Should bullets appear one at a time (on presenter mouse clicks)?								Χ	Χ	Χ
keep_md	Save a copy of .md file that contains knitr output	Χ		Χ	Χ	Χ			Χ	Χ	
keep_tex	Save a copy of .tex file that contains knitr output		Χ								Χ
latex_engine	Engine to render latex, "pdflatex", "xelatex", or "lualatex"		Χ								Χ
lib_dir	Directory of dependency files to use (Bootstrap, MathJax, etc.)	Χ							Χ	Χ	
mathjax	Set to local or a URL to use a local/URL version of MathJax to render	Χ							Χ	Χ	
md_extensions	Markdown extensions to add to default definition or R Markdown	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
number_sections	Add section numbering to headers	Χ	Χ								
pandoc_args	Additional arguments to pass to Pandoc	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
preserve_yaml	Preserve YAML front matter in final document?						Χ				
reference_docx	docx file whose styles should be copied when producing docx output			Χ							
self_contained	Embed dependencies into the doc	Χ							Χ	Χ	
slide_level	The lowest heading level that defines individual slides										Χ
smaller	Use the smaller font size in the presentation?								Χ		
smart	Convert straight quotes to curly, dashes to em-dashes, to ellipses, etc.	Χ							Χ	Χ	
template	Pandoc template to use when rendering file	Χ	Χ		Χ					Χ	Χ
theme	Bootswatch or Beamer theme to use for page	Χ									Χ
toc	Add a table of contents at start of document	Χ	Χ	Χ		Χ	Χ	Χ			Χ
toc_depth	The lowest level of headings to add to table of contents	Χ	Χ	Χ		Χ	Χ	Χ			
toc_float	Float the table of contents to the left of the main content	Χ									
	extra_dependencies, fig_crop, fig_retina, font_adjustment, font_theme, foot	er,	log	o, h	tm	l_pı	revi	iew	<b>/</b> ,		

reference\_odt, transition, variant, widescreen

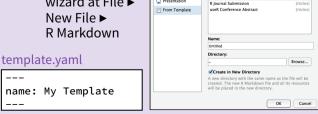
### **Create a Reusable template**

Create a new package with a inst/rmarkdown/templates directory

In the directory, **Place a folder** that contains:

- template.vaml (see below)
  - **skeleton.Rmd** (contents of the template)
- any supporting files
- Install the package

Access template in wizard at File ▶ New File ▶ R Markdown



# **Table suggestions**

### Several functions format R data into tables

Set render options with YAML

Table with kable eruptions waiting	eruptionswaiting		Table with stargazer
3.600 79	2 1.80 54.00		eruptionswaiting
1.800 54	3 3.33 74.00		2 1.800 54
3.333 74	4 2.28 62.00		3 3.333 74
2.283 62	Table with xtable		4 2.283 62
	C 101 C 154 A	,	

data <- faithful[1:4,]

```{r results = 'asis'}

knitr::kable(data, caption = "Table with kable")

``{r results = "asis"}

print(xtable::xtable(data, caption = "Table with xtable"), type = "html", html.table.attributes = "border=0"))

``{r results = "asis"}

stargazer::stargazer(data, type = "html", title = "Table with stargazer")

Learn more in the stargazer, **xtable**, and **knitr** packages.

# **Citations and Bibliographies**

Create citations with .bib, .bibtex, .copac, .enl, .ison, .medline, .mods, .ris, .wos, and .xml files

**Set bibliography file** and CSL 1.0 Style file (optional) in the YAML header

> bibliography: refs.bib csl: style.csl

Use citation keys in text

Smith cited [@smith04]. Smith cited without author [-@smith04]. @smith04 cited in line.

**Render.** Bibliography will be added to end of document

> Smith cited (Joe Smith 2004). Smith cited without author (2004). Joe Smith (2004) cited in line.