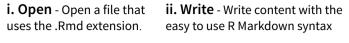
R Markdown Cheat Sheet

learn more at <u>rmarkdown.rstudio.com</u> rmarkdown 0.2.50 Updated: 8/14

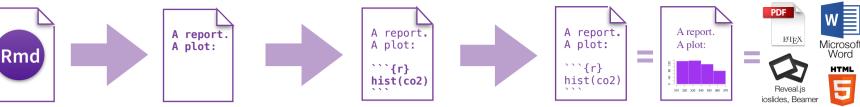


1. Workflow R Markdown is a format for writing reproducible, dynamic reports with R. Use it to embed R code and results into slideshows, pdfs, html documents, Word files and more. To make a report:

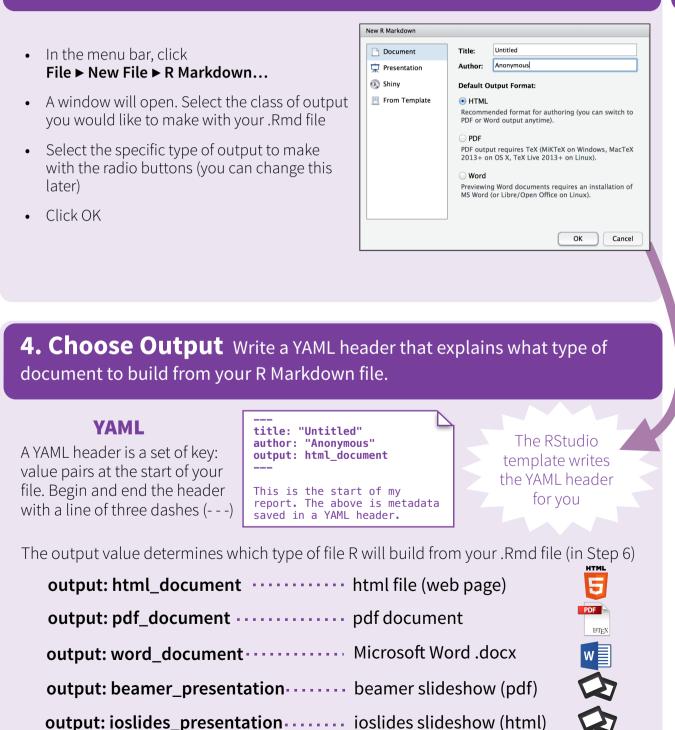


ntent with the **iii. Embed** - Embed R code that creates output to include in the report

iv. Render - Replace R code with its output and transform the report into a slideshow, pdf, html or ms Word file.



2. Open File Start by saving a text file with the extension .Rmd, or open an RStudio Rmd template



3. Markdown Next, write your report in plain text. Use markdown syntax to describe how to format text in the final report.

syntax

becomes

Plain text End a line with two spaces to start a new paragraph. *italics* and _italics_ **bold** and __bold__ superscript^2^ ~~strikethrough~~ [link](www.rstudio.com)

Header 1

Header 2

Header 3

Header 4

Header 5

Header 6

endash: -emdash: --ellipsis: ...
inline equation: \$A = \pi*r^{2}\$
image:

horizontal rule (or slide break):

- > block quote
- * 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 Plain text End a line with two spaces to start a new paragraph. *italics* and *italics* **bold** and **bold** superscript² strikethrough link Header 1

Header 2

Header 3

Header 4

Header 5

Header 6 endash: –

emdash: -

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

image:

horizontal rule (or slide break):

```
block quoteunordered list
```

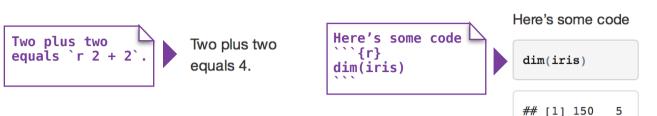
item 2					
0	sub-item	1			

- sub-item 2
- 1. ordered list
- 2. item 2
 - sub-item 1
 - sub-item 2
- Table HeaderSecond HeaderTable CellCell 2Cell 3Cell 4

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5. Embed Code Use knitr syntax to embed R code into your report. R will run the code and include the results when you render your report.

inline code Surround code with back ticks and r. R replaces inline code with its results.



code chunks

Start a chunk with ```{r}.

End a chunk with

display options

Use knitr options to style the output of a chunk. Place options in brackets above the chunk.

Here's some code ```{r eval=FALSE} dim(iris)	Here's some code	Here's some code ```{r echo=FALSE} dim(iris)	Here's some code	
	dim(iris)		## [1] 150 5	

option	default	effect
eval	TRUE	Whether to evaluate the code and include its results
echo	TRUE	Whether to display code along with its results
warning	TRUE	Whether to display warnings
error	FALSE	Whether to display errors
message	TRUE	Whether to display messages
tidy	FALSE	Whether to reformat code in a tidy way when displaying it
results	"markup"	"markup", "asis", "hold", or "hide"
cache	FALSE	Whether to cache results for future renders
comment	"##"	Comment character to preface results with
fig.width	7	Width in inches for plots created in chunk
fig.height	7	Height in inches for plots created in chunk

For more details visit <u>yihui.name/knitr/</u>

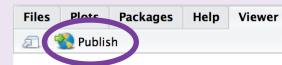
8. Publish Share your report where users can visit it online

Rpubs.com

Share non-interactive documents on RStudio's free R Markdown publishing site <u>www.rpubs.com</u>

ShinyApps.io

Host an interactive document on RStudio's server. Free and paid options <u>www.shinyapps.io</u> Click the "Publish" button in the RStudio preview window to publish to <u>rpubs.com</u> with one click.



6. Render Use your .Rmd file as a blueprint to build a finished report.

Render your report in one of two ways

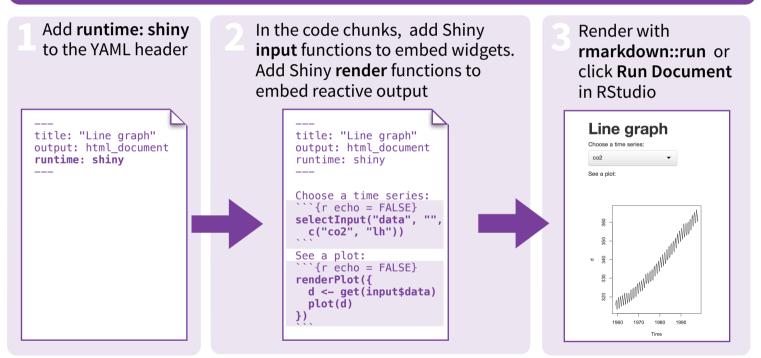
- 1. Run rmarkdown::render("<file path>")
- 2. Click the **knit HTML** button at the top of the RStudio scripts pane

When you render, R will

• execute each embedded code chunk and insert the results into your report

- build a new version of your report in the output file type
- open a preview of the output file in the viewer pane
- save the output file in your working directory

7. Interactive Docs Turn your report into an interactive Shiny document in 3 steps



* Note: your report will be a Shiny app, which means you must choose an html output format, like **html_document** (for an interactive report) or **ioslides_presentation** (for an interactive slideshow).

9. Learn More

Documentation and examples - <u>rmarkdown.rstudio.com</u>

- Further Articles shiny.rstudio.com/articles
- 🚯 <u>blog.rstudio.com</u>
- 🎔 @rstudio



🐑 Untitled2* 🗶 ABC S 🧃 Knit HTML ? 1 - ---Knit H 2 title: "Un 🔁 Knit PDF 3 author: "A 🛃 Knit Word 4 date: "Jul 5 output: ht View in Pane 6 - ---View in Window