R Markdown Cheat Sheet

learn more at rmarkdown.rstudio.com





.Rmd files

An R Markdown (.Rmd) file is a record of your research. It contains the code that a scientist needs to reproduce your work along with the narration that a reader needs to understand your work.



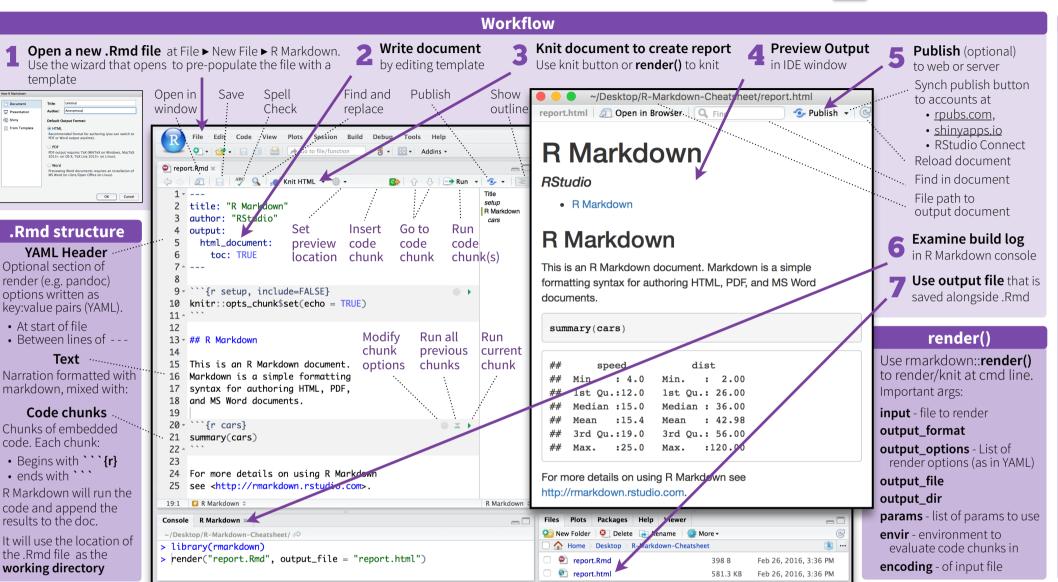
Reproducible Research

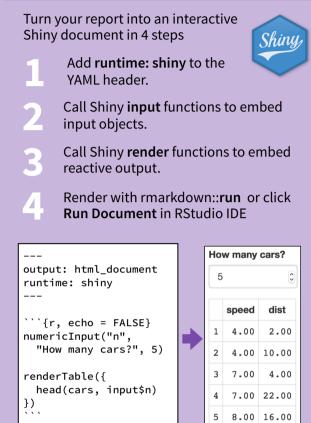
At the click of a button, or the type of a command, you can rerun the code in an R Markdown file to reproduce your work and export the results as a finished report.



Dynamic Documents

You can choose to export the finished report as a html, pdf, MS Word, ODT, RTF, or markdown document; or as a html or pdf based slide show.





Interactive Documents

Embed a complete app into your document with shiny::shinyAppDir()

* Your report will rendered as a Shiny app, which means you must choose an html output format, like html_document, and serve it with an active R Session.

Parameters

Parameterize your documents to reuse with

different inputs (e.g., data sets, values, etc.)

Add parameters

parameters in the

params\$<name>

Set parameters

Set values wth **Knit**

Create and set

of params

Embed code with knitr syntax

One or more lines surrounded

with ```{r} and ```. Place

chunk options within curly

braces, after r. Insert with

Code chunks

Options not listed above: R.options, aniopts, autodep, background, cache.comments, cache.lazy, cache.rebuild, cache.vars, dev, dev.args, dpi, engine.opts, engine.path, fig.asp, fig.env, fig.ext, fig.keep, fig.lp, fig.path, fig.pos, fig.process, fig.retina, fig.scap, fig.show, fig.showtext, fig.subcap, interval, out.extra, out.height, out.width, prompt, purl, ref.label, render, size, split, tidy.opts

`{r echo=TRUE}

getRversion()

Inline code

Insert with `r <code>`. Results appear as text without code.



cache - cache results for future knits

cache.path - directory to save cached

child - file(s) to knit and then include

collapse - collapse all output into single

comment - prefix for each line of results

results in (default = "cache/")

Important chunk options

(default = FALSE)

(default = NULL)

(default = '##')

block (default = FALSE)

Built with 3.2.3

dependson - chunk dependencies for caching (default = NULL)

echo - Display code in output document (default = TRUE)

engine - code language used in chunk (default = 'R')

error - Display error messages in doc (TRUE) or stop render when errors occur (FALSE) (default = FALSE)

eval - Run code in chunk (default = TRUE)

fig.align - 'left', 'right', or 'center' (default = 'default')

getRversion()

[1] '3.2.3'

fig.cap - figure caption as character string (default = NULL)

fig.height, fig.width - Dimensions of plots in inches

highlight - highlight source code (default = TRUE)

include - Include chunk in doc after running (default = TRUE)

Set with knitr::opts_chunk\$set(), e.g.

`{r include=FALSE} knitr::opts_chunk\$set(echo = TRUE)

Global options

message - display code messages in document (default = TRUE)

results (default = 'markup') 'asis' - passthrough results 'hide' - do not display results 'hold' - put all results below all code

tidy - tidy code for display (default =

warning - display code warnings in document (default = TRUE)

of render(): render("doc.Rmd",

ndent 2 params: n: 100 d: !r Sys.Date() header as sub-values

Call parameters Today's date Call parameter is `r params\$d` values in code as

ABC 🔍 Knit HTML Nnit to HTML with parameters or Knit to PDF the params argument Knit to Word Knit with Parameters...

params = list(n = 1, d = as.Date("2015-01-01"))