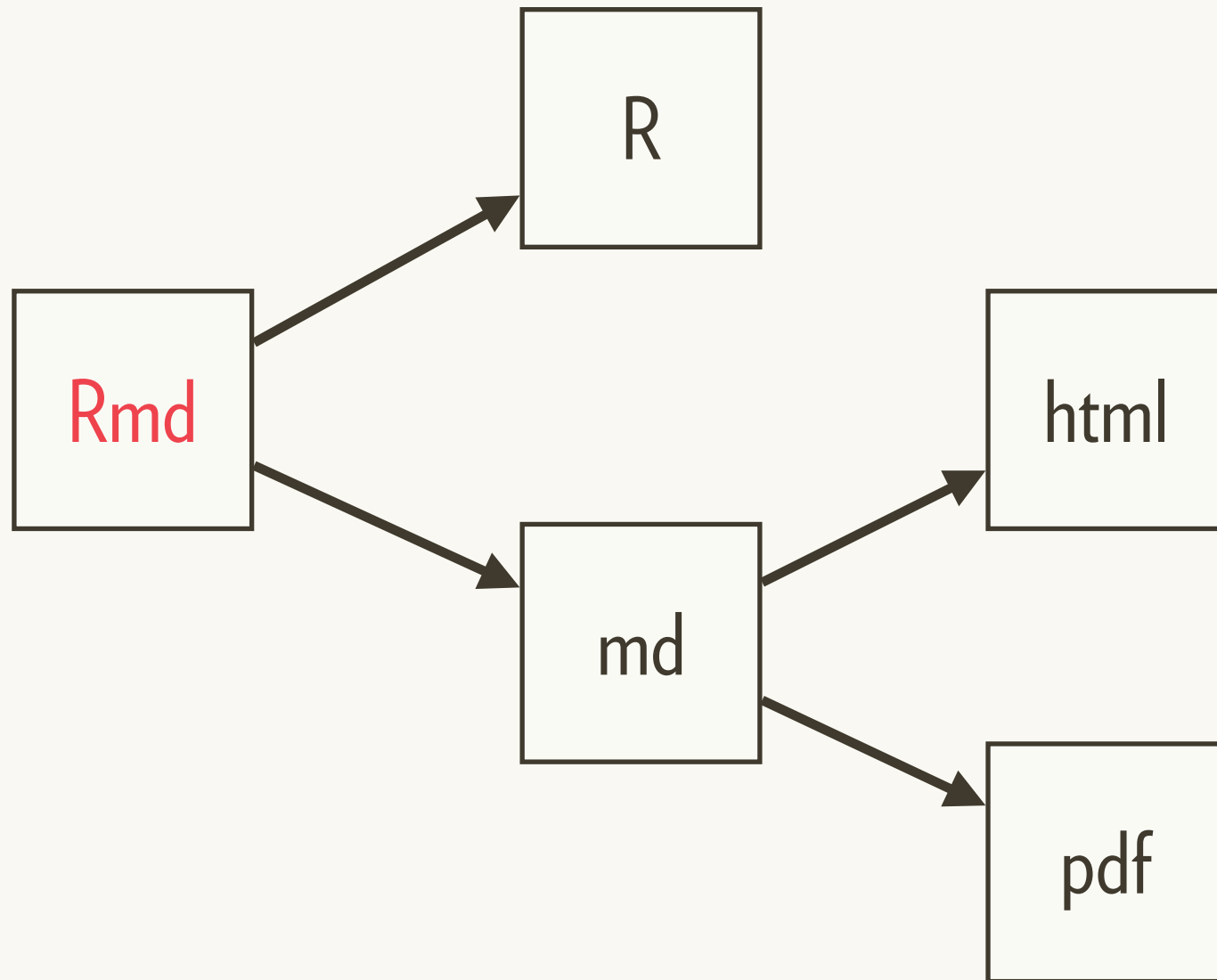


vignettes/

January 2017

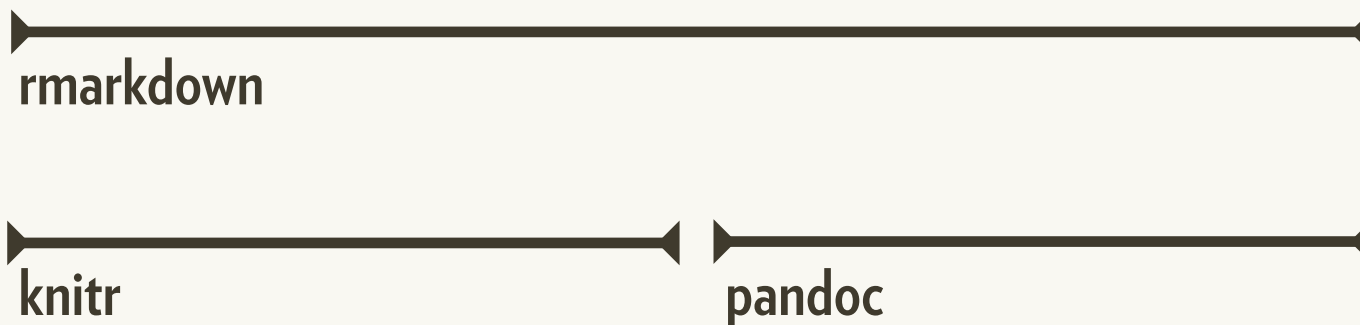
Hadley Wickham
[@hadleywickham](#)
Chief Scientist, RStudio

Vignettes



Lets you combine prose
and code to explain your
how you package works.

The hard part is the
writing, not the
technology!



Easiest way to get started is with `use_vignette()`

```
devtools::use_vignette("name")
```

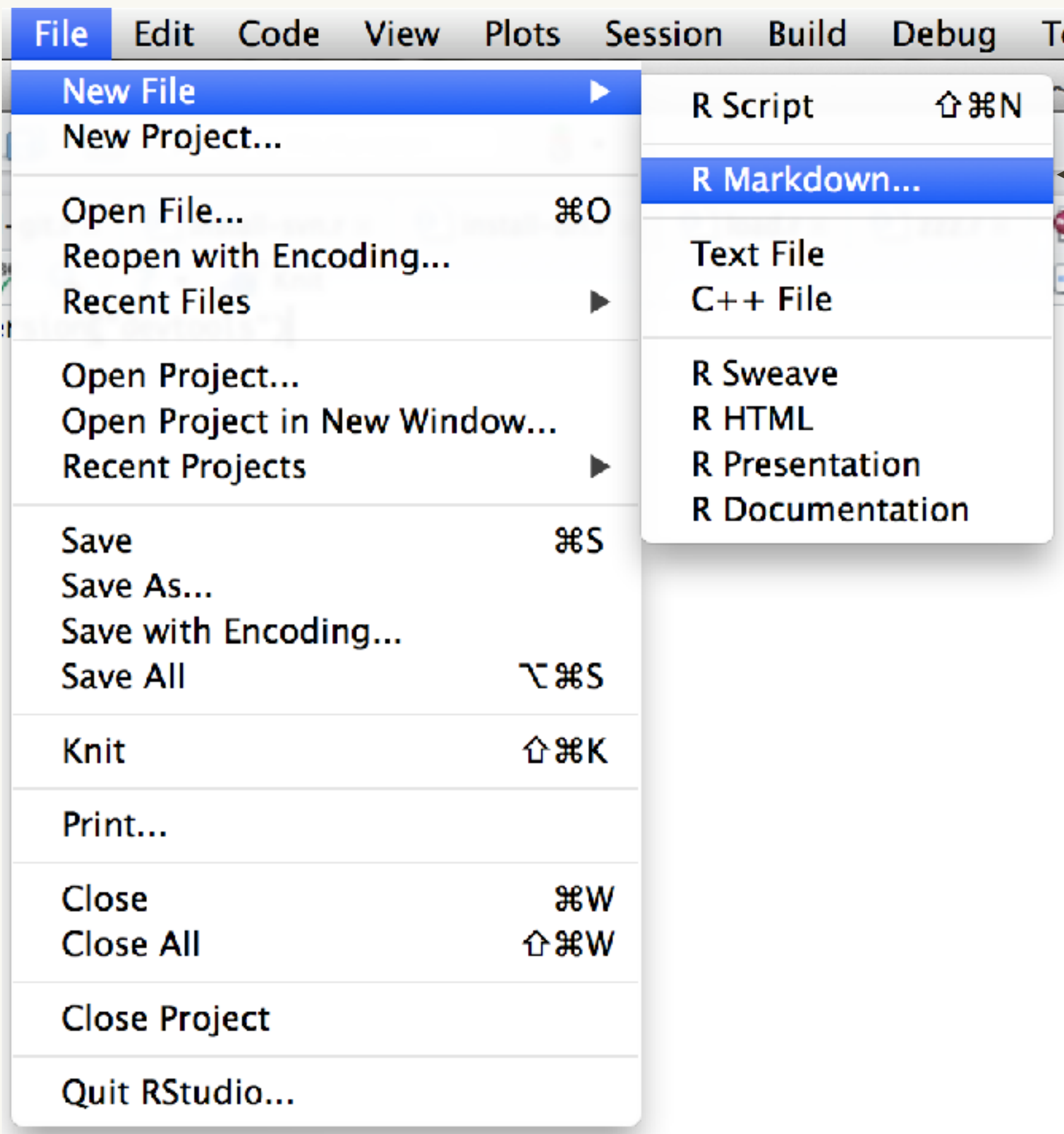
```
# Adds to DESCRIPTION
```

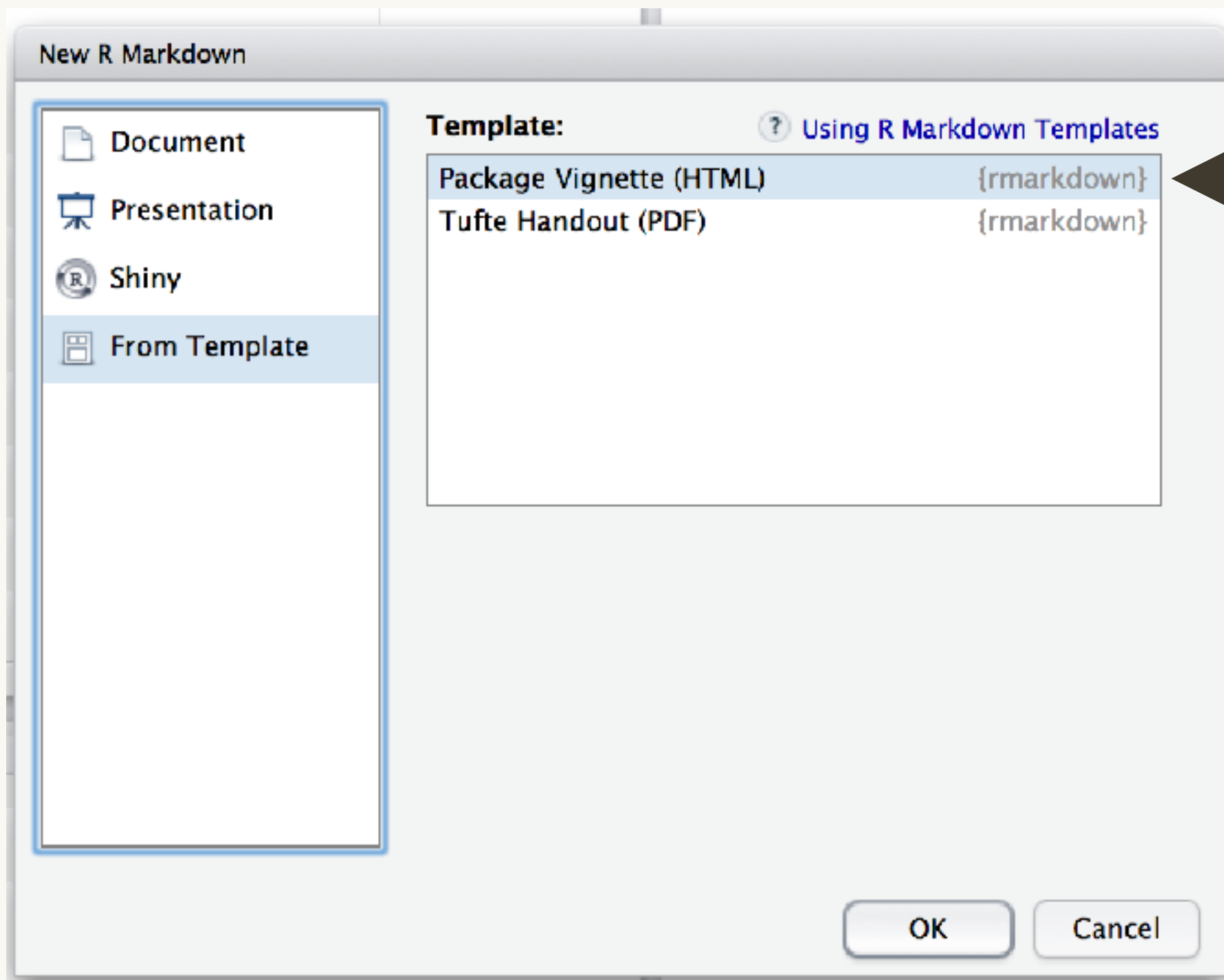
```
Suggests: knitr
```

```
VignetteBuilder: knitr
```

```
# Creates vignettes/
```

```
# Drafts vignettes/name.Rmd
```





Vignette = Rmarkdown + special metadata

```
---  
title: "Vignette Title"  
author: "Vignette author"  
date: "`r Sys.Date()`"  
output: rmarkdown::html_vignette  
vignette: >  
  %\VignetteIndexEntry{Vignette Title}  
  %\VignetteEngine{knitr::rmarkdown}  
  \usepackage[utf8]{inputenc}  
---
```

The diagram illustrates the components of a vignette. A red box on the right, labeled "Special output format for vignettes", has a callout pointing to the `output: rmarkdown::html_vignette` line in the code block. Another red box below it, labeled "Special metadata needed by R", has a callout pointing to the `%\VignetteIndexEntry{Vignette Title}` and `%\VignetteEngine{knitr::rmarkdown}` lines in the code block.

Vignettes are long form documentation commonly included in packages. Because they are part of the distribution of the package, they need to be as compact as possible. The `'html_vignette'` output type provides a custom style sheet (and tweaks some options) to ensure that the resulting html is as small as possible. The `'html_vignette'` format:

...

Markdown

“Markdown is a text-to-HTML conversion tool for web writers. Markdown allows you to write using an easy-to-read, easy-to-write plain text format, then convert it to structurally valid XHTML (or HTML).”

“The overriding design goal for Markdown’s formatting syntax is to make it as readable as possible. The idea is that a Markdown-formatted document should be publishable as-is, as plain text, without looking like it’s been marked up with tags or formatting instructions.”

—*John Gruber*

This is a top level heading

This is some text. Make text *italic* with single underscores (or stars). Make it **bold** with double stars (or underscores). Here is a [link to a markdown guide](http://bit.ly/19fAexE).

- * This is a list

- * This is another item

```
```R
```

```
Some R code
```

```
f <- function() x + 1
```

```
```
```

This is a secondary heading

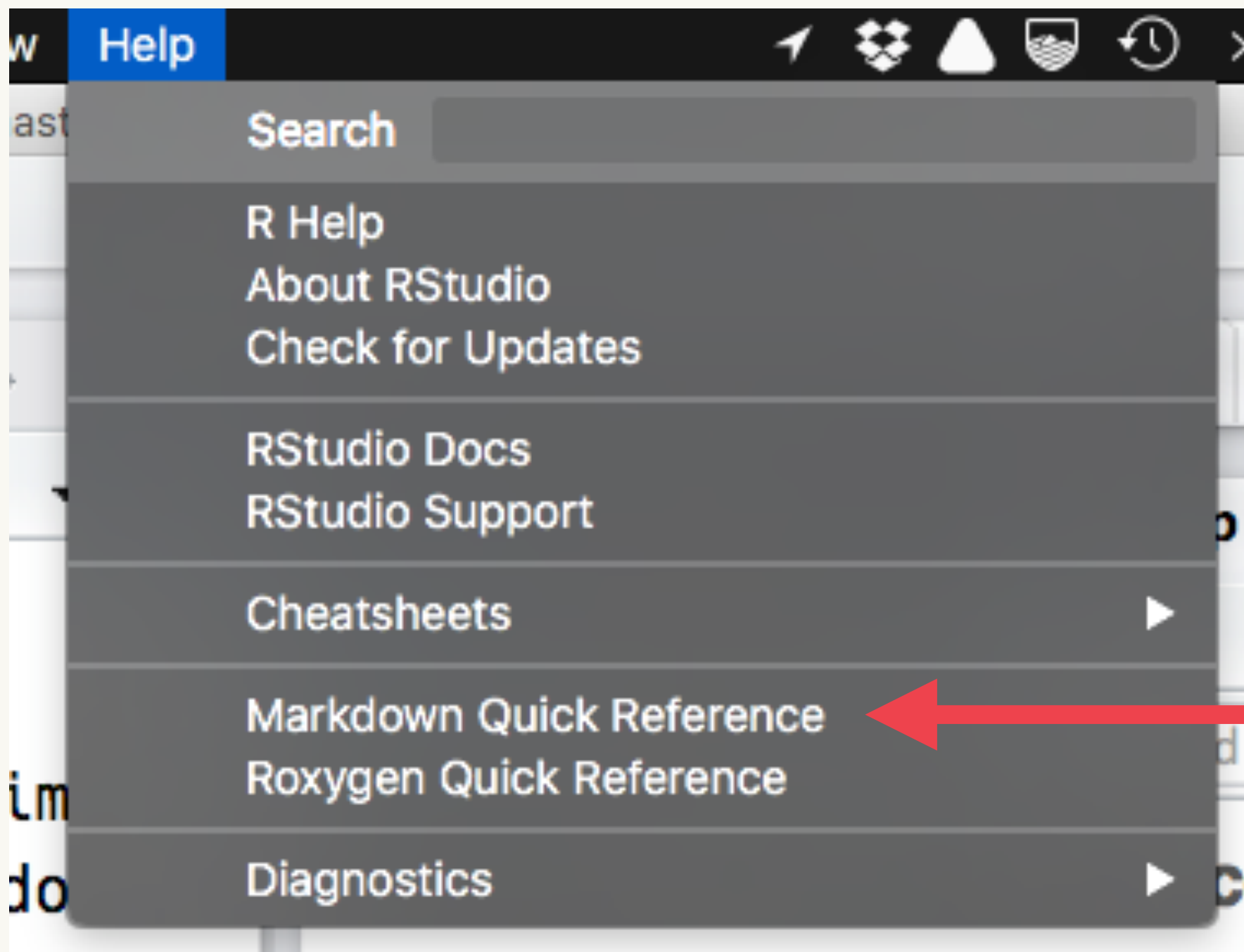
You can also do ``inline code``, numbered lists and quotes and more.

Your turn

Read <http://r-pkgs.had.co.nz/vignettes.html>

How do you create a numbered list?

How do you add a horizontal rule?



Knitr

The main difference with R markdown compared to markdown is that instead of putting R code in blocks like:

```
```r
Some R code
f <- function() x + 1
```
```

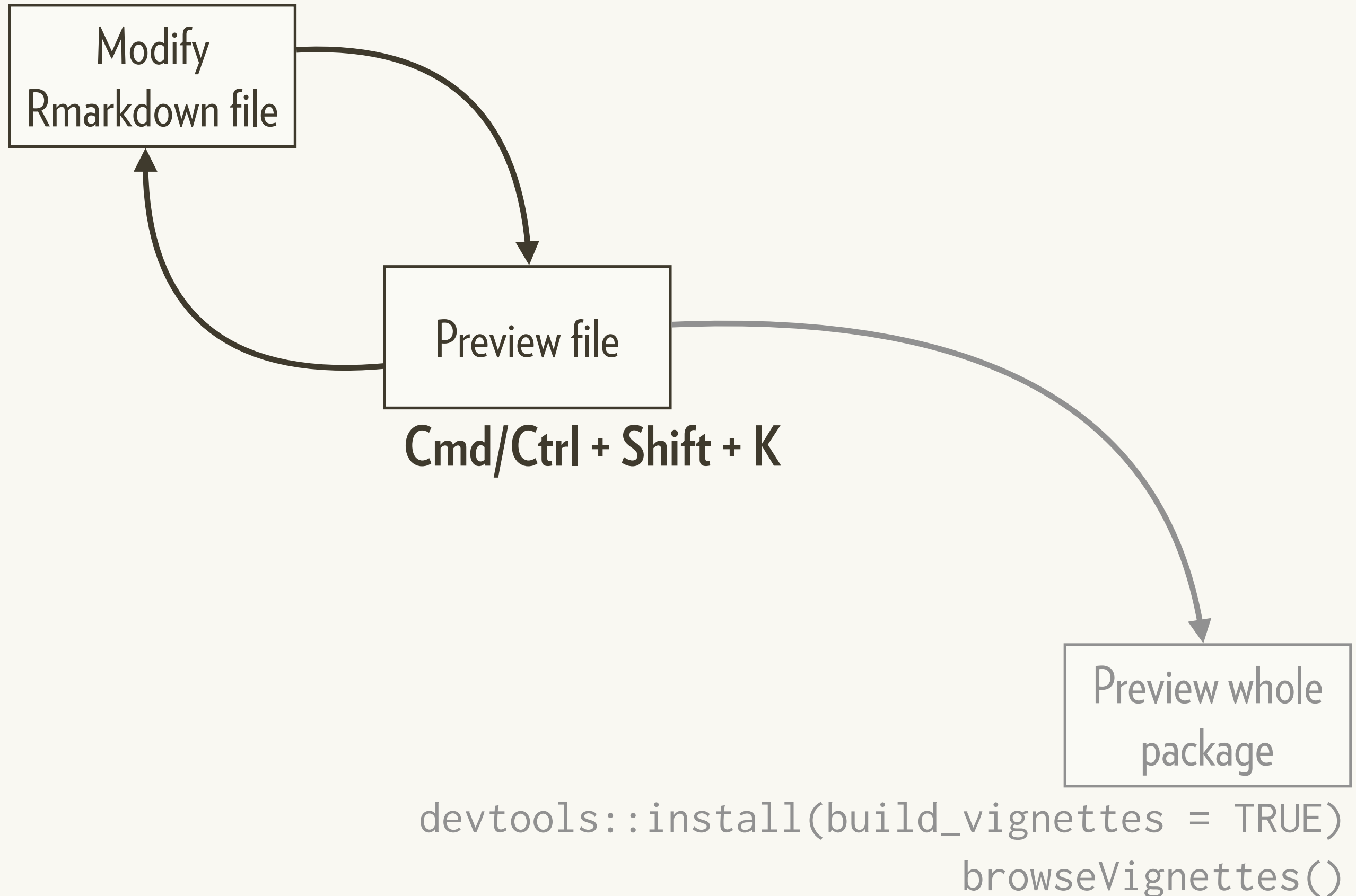
you put it in blocks like

```
```{r}
Some R code
f <- function() x + 1
```
```

and the code is run and the output included in a generated .md file.

More documentation at <http://yihui.name/knitr/>

Documentation workflow



Change working directory/project to:

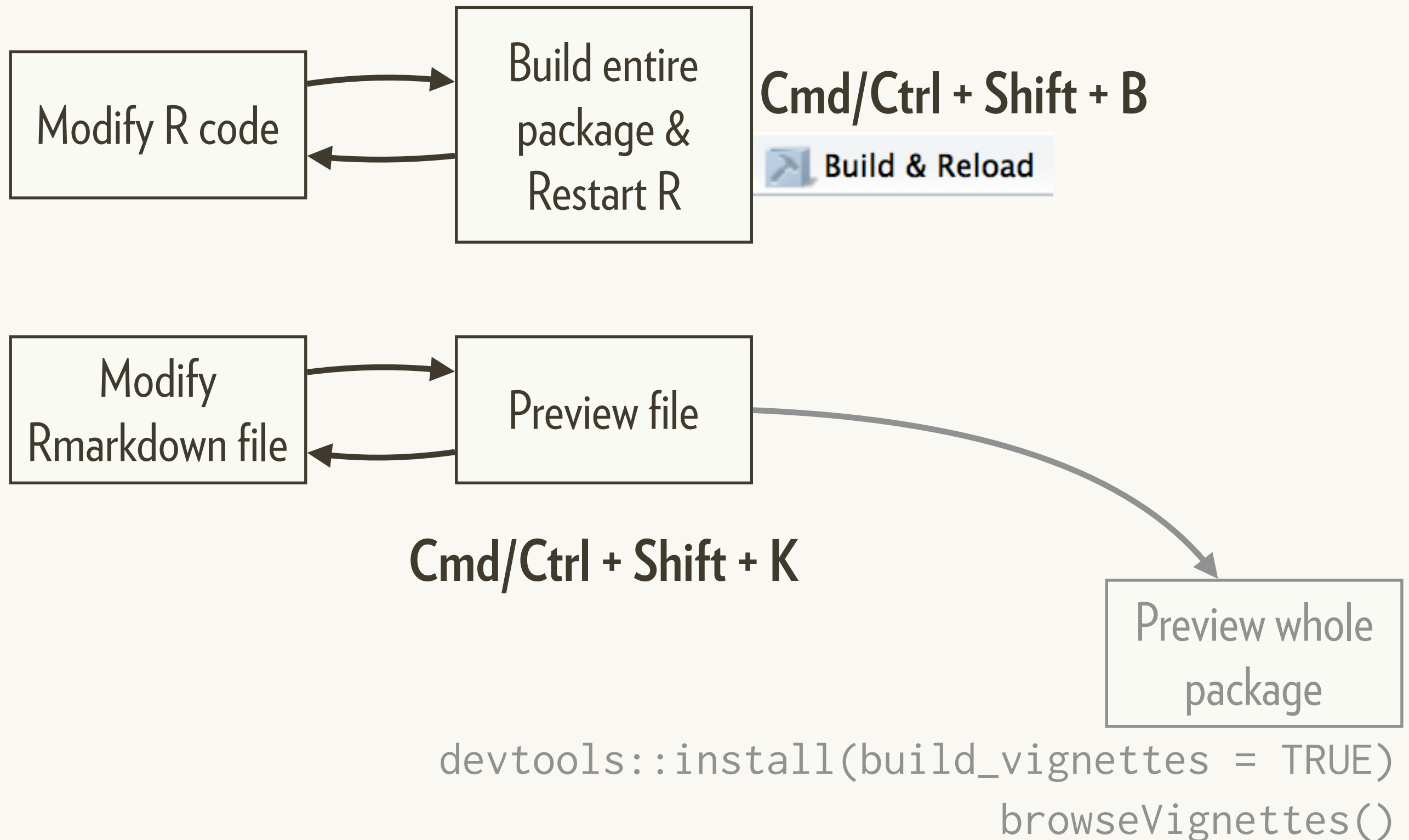
[document-me]

Your turn

Open `vignettes/clt.Rmd`. Knit it.

Why does it fail? Fix the error.

Vignette workflow



```
```{r, include = FALSE}  
include = FALSE suppresses the output of this block
library(rv2)
```
```

Other useful options:

- * `message = FALSE`: suppresses messages
- * `error = TRUE`: if you want to show an error
- * `eval = FALSE`: show the code, don't run it

See more at <http://r-pkgs.had.co.nz/vignettes.html#knitr>
Complete list at <http://yihui.name/knitr/options>



New Project...



Open Project...

Open Project in New Session...

Close Project

document-me



rv3



rv2 — day-2



day-1



devtools



readr



forcats



haven



rv2 — r-pkgs



roxygen



Clear Project List

Project Options...

⇧ ⌘,

Project Options



General



Code Editing



Sweave



Build Tools



Git/SVN



Packrat

Project build tools: Package

Package directory:

(Project Root)

Browse...

☒ Use devtools package functions if available

☒ Generate documentation with Roxygen

Configure...

Build and Reload — R CMD INSTALL additional options:

--no-multiarch --with-keep.source

Check Package — R CMD check additional options:

Build Source Package — R CMD build additional options:

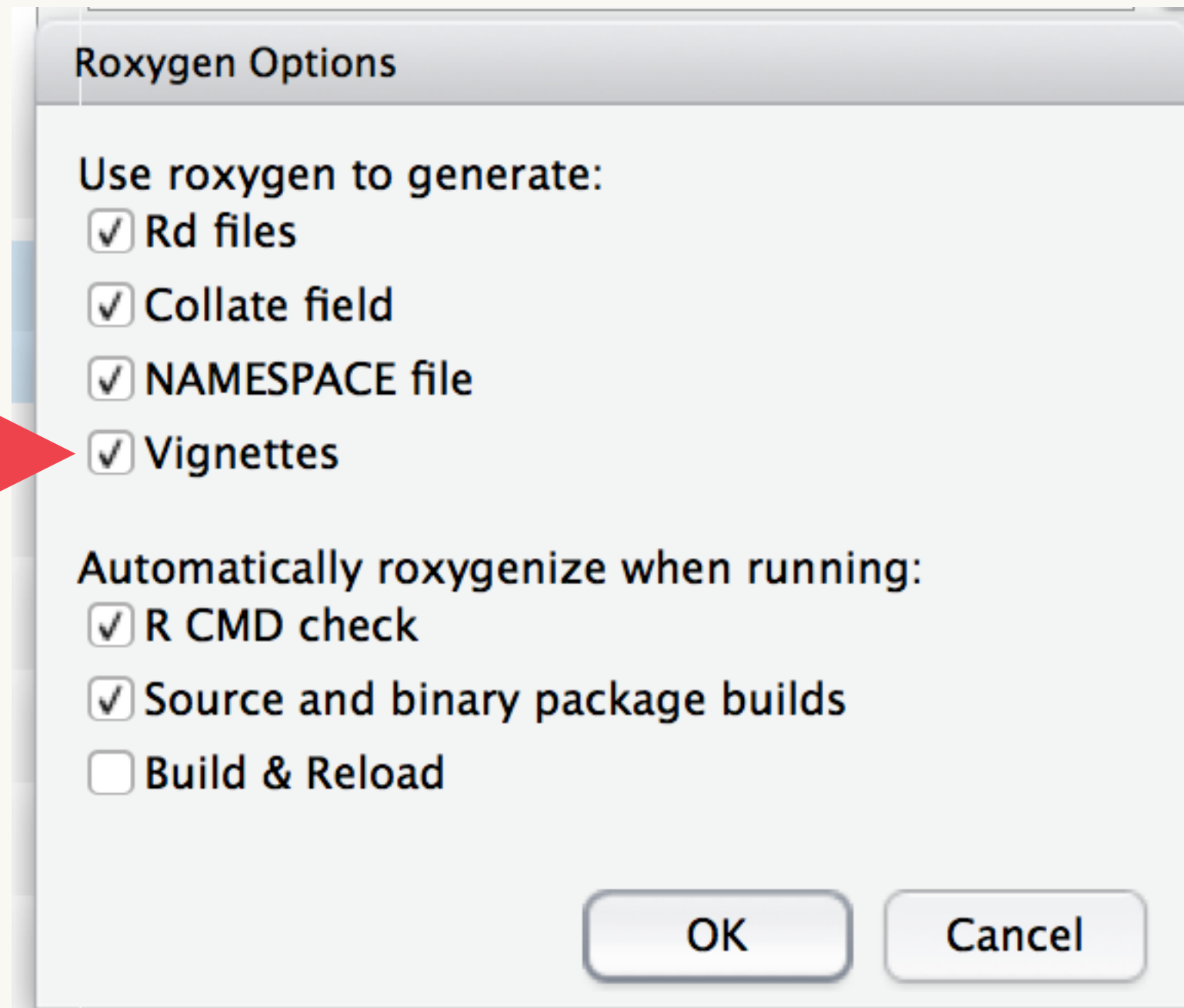
Build Binary Package — R CMD INSTALL additional options:

[Developing Packages with RStudio](#)

OK

Cancel

Then vignettes are built by document()



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