

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.

Two plus two
equals ``r 2 + 2``.

Two plus two
equals 4.

code chunks

Start a chunk with ````{r}`.
End a chunk with `````.

Here's some code
````{r}  
dim(iris)  
````

Here's some code

```
dim(iris)
```

```
## [1] 150 5
```

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

```
dim(iris)
```

Here's some code
````{r echo=FALSE}  
dim(iris)  
````

Here's some code

```
## [1] 150 5
```

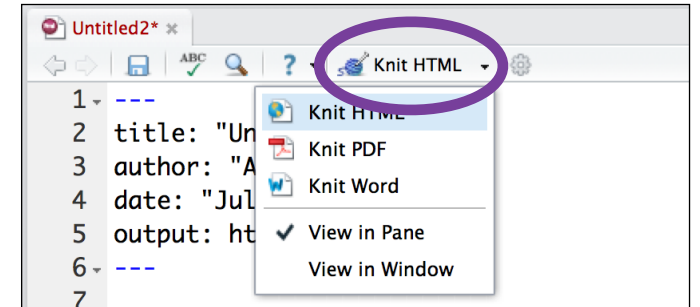
option	default	effect
eval	TRUE	Whether to evaluate the code and include its results
echo	TRUE	Whether to display code along with its results
warning	TRUE	Whether to display warnings
error	FALSE	Whether to display errors
message	TRUE	Whether to display messages
tidy	FALSE	Whether to reformat code in 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 yihui.name/knitr/

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

1 Add **runtime: shiny** to the YAML header

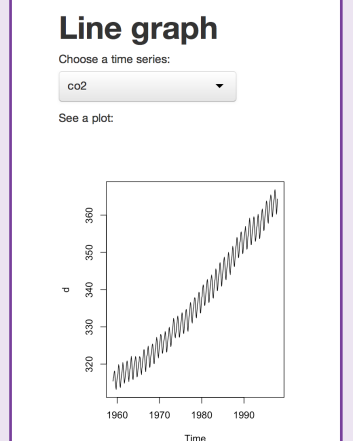
```
---  
title: "Line graph"  
output: html_document  
runtime: shiny  
---
```

2 In the code chunks, add Shiny **input** functions to embed widgets. Add Shiny **render** functions to embed reactive output

```
---  
title: "Line graph"  
output: html_document  
runtime: shiny  
---  
  
Choose a time series:  
```{r echo = FALSE}  
selectInput("data", "",
 c("co2", "lh"))

See a plot:
```{r echo = FALSE}  
renderPlot({  
  d <- get(input$data)  
  plot(d)  
})
```

3 Render with **rmarkdown::run** or click **Run Document** in RStudio



* 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).

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

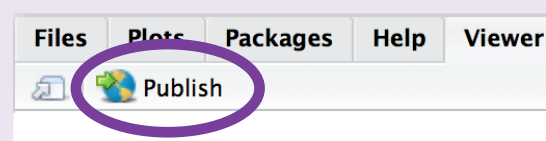
Rpubs.com

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

ShinyApps.io

Host an interactive document on RStudio's server. Free and paid options
www.shinyapps.io

Click the "Publish" button in the RStudio preview window to publish to rpubs.com with one click.



9. Learn More

Documentation and examples - rmarkdown.rstudio.com

Further Articles - shiny.rstudio.com/articles

🌐 - blog.rstudio.com

🐦 - [@rstudio](https://twitter.com/rstudio)



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