

R Markdown



Introduction to R

The magic of Markdown

- bullets
- **bold**
- *italics*
- [links](https://google.com)(https://google.com)
- or run inline ``r code``



- bullets
- **bold**
- *italics*
- [links](#)
- or run inline `r code`

Introduction

Here is some background you need to know:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam iaculis enim ut enim viverra molestie. In lacinia aliquet urna, nec vulputate quam congue et. Maecenas porta mauris sem, nec laoreet sapien tincidunt non. Integer sit amet consequat neque, non iaculis ligula.

Hypothesis

Pellentesque molestie erat nec elit efficitur, sit amet sodales erat viverra. Mauris sed commodo eros, ac volutpat sem. Morbi convallis leo et dui cursus, eu suscipit turpis efficitur.

Section 1 code and results

First I will run this.

```
```{r}
print("Hello world")
print("Yup, this is important")
```
```

The output of which is consistent with my hypothesis.

Conclusion

I can move on to the next part of my project]

.Rmd
document

Introduction

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Section 1 code and results

First I will run this.

```
print("Hello world")
```

```
## [1] "Hello world"
```

```
print("Yup, this is important")
```

```
## [1] "Yup, this is important"
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The output of which is consistent with my hypothesis.

Conclusion

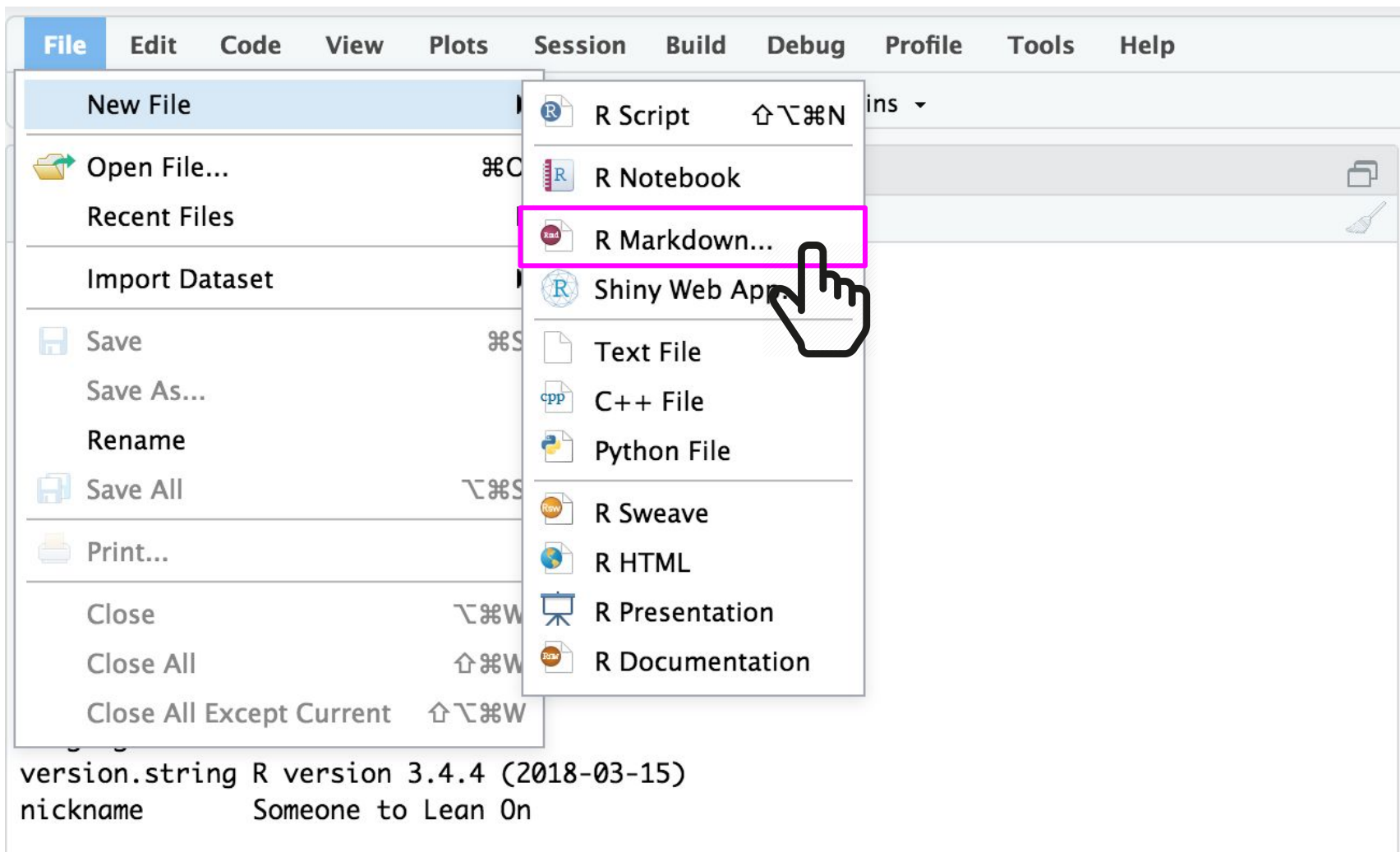
I can move on to the next part of my project

PDF, HTML or Word
document



Another major benefit to R Markdown is that since it is plain text, it works very well with version control systems. It is easy to track what character changes occur between commits; unlike other formats that aren't plain text. For example, in one version of this lesson, I may have forgotten to bold this word. When I catch my mistake, I can make the plain text changes to signal I would like that word bolded, and in the commit, you can see the exact character changes that occurred to now make the word bold.

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Install Required Packages



Creating R Markdown documents requires updated versions of the following packages: evaluate, highr, markdown, yaml, htmltools, caTools, bitops, knitr, jsonlite, base64enc, rprojroot, rmarkdown.

Do you want to install these packages now?

Yes

No



New R Markdown



Document



Presentation



Shiny



From Template

Title:

Untitled

Author:

Default Output Format:

☒ HTML

Recommended format for authoring (you can switch to PDF or Word output anytime).

☐ PDF

PDF output requires TeX (MiKTeX on Windows, MacTeX 2013+ on OS X, TeX Live 2013+ on Linux).


☐ Word


Previewing Word documents requires an installation of MS Word (or Libre/Open Office on Linux).


OK


Cancel

New R Markdown

 Document

 Presentation

 Shiny

 From Template

Title: My First R Markdown Document!

Author: Jane Doe

Default Output Format:

☒ **HTML**
Recommended format for authoring (you can switch to PDF or Word output anytime).

☐ **PDF**
PDF output requires TeX (MiKTeX on Windows, MacTeX 2013+ on OS X, TeX Live 2013+ on Linux).

☐ **Word**
Previewing Word documents requires an installation of MS Word (or Libre/Open Office on Linux).

Ok **Cancel**

Untitled1 x

ABC 🔍 Knit ⚙️

Insert ↕️ ⬆️ ➡️ Run ↻️

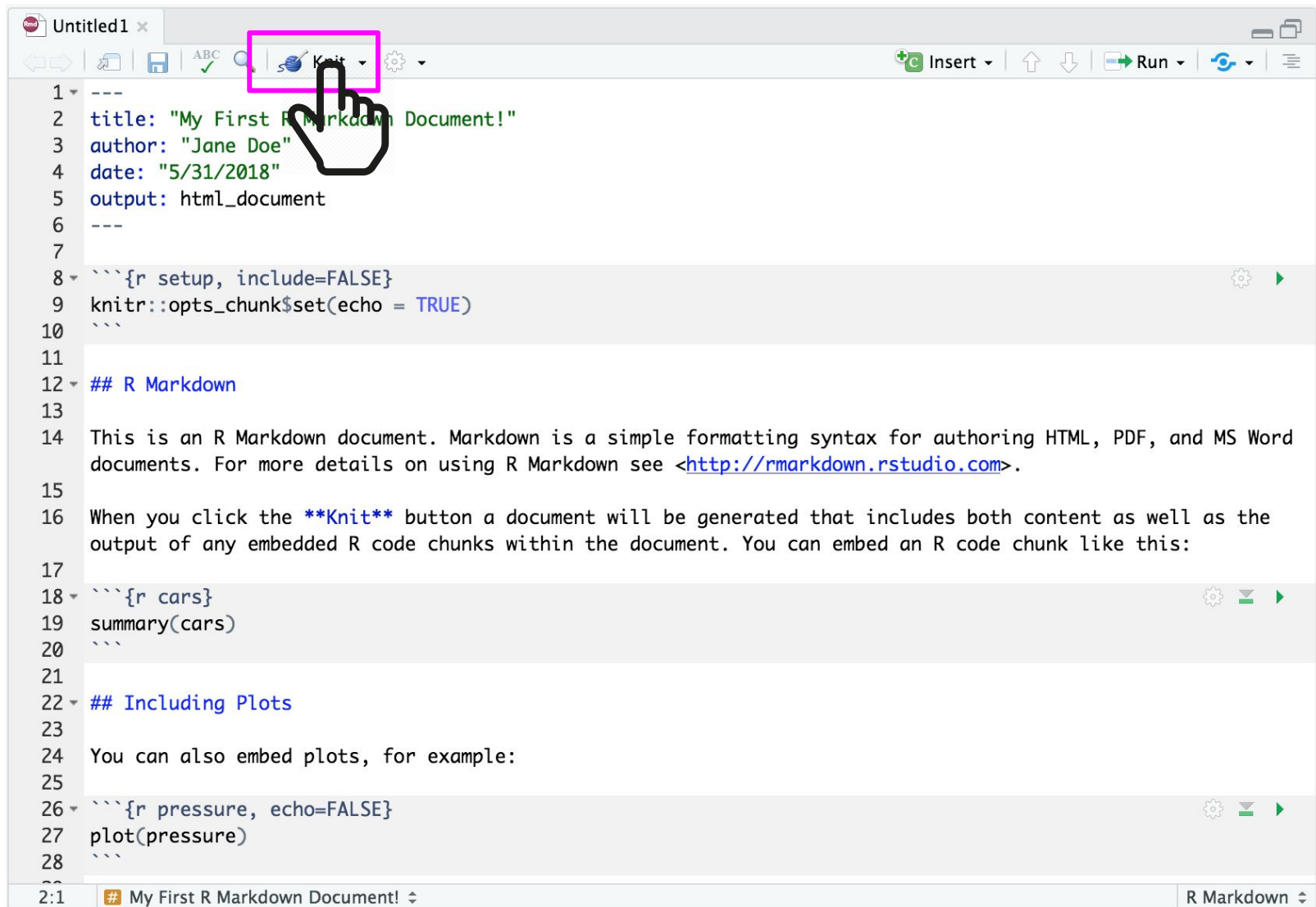
```
1 ---
2 title: "My First R Markdown Document!"
3 author: "Jane Doe"
4 date: "5/31/2018"
5 output: html_document
6 ---
7
8 ```{r setup, include=FALSE}
9 knitr::opts_chunk$set(echo = TRUE)
10 ```
11
12 ## R Markdown
13
14 This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.
15
16 When you click the Knit button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:
17
18 ```{r cars}
19 summary(cars)
20 ```
21
22 ## Including Plots
23
24 You can also embed plots, for example:
25
26 ```{r pressure, echo=FALSE}
27 plot(pressure)
28 ```
29
30
```

2:1 # My First R Markdown Document! ⚡ R Markdown ⚡

YAML

TEXT

CODE CHUNK



Untitled1 x

Knit

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30 2:1 # My First R Markdown Document! R Markdown
```

Save File - Untitled1

File name:

> / > cloud > project



..



.Rhistory

0 B May 30, 2018, 12:34 PM



project.Rproj

205 B May 31, 2018, 3:35 PM

New Folder

Save

Cancel



Header rendered as the title

My First R Markdown Document!

Jane Doe

5/31/2018

R Markdown

Text section rendered as formatted text

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

Code rendered as the input code AND the output of running the code chunk

```
##      speed      dist
##  Min.   : 4.0    Min.   : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

Including Plots

You can also embed plots, for example:

test_document.Rmd x

Knit

Insert

Run

```
1 ---
2 title: "My First R Markdown Document!"
3 author: "Jane Doe"
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14 This is an R Markdown document. Markdown is a simple formatting syntax for
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16 see <http://rmarkdown.rstudio.com>.
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```

Console Terminal x

/cloud/project/

> |

Environment History Connections

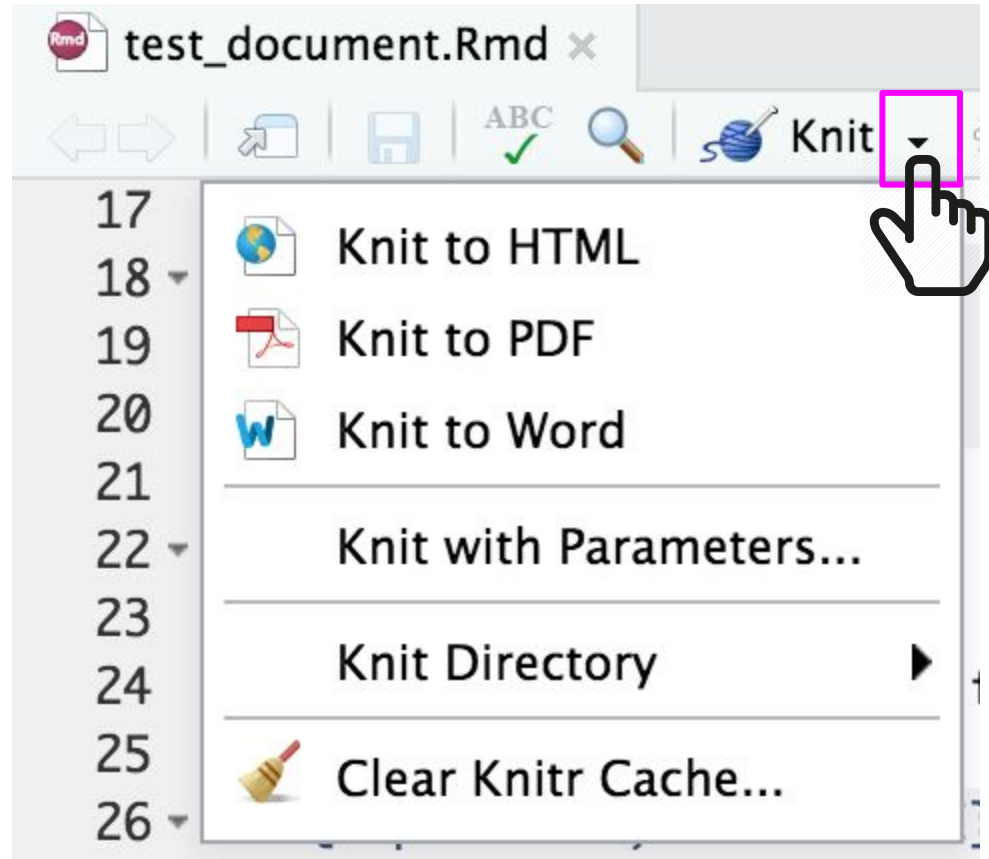
Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

/ > cloud > project

| | Name | Size | Modified |
|--|--------------------|----------|------------------------|
| | .. | | |
| | .Rhistory | 0 B | May 30, 2018, 12:34 PM |
| | project.Rproj | 205 B | Jun 1, 2018, 8:33 AM |
| | test_document.html | 741.2 KB | May 31, 2018, 3:57 PM |
| | test_document.Rmd | 854 B | May 31, 2018, 3:57 PM |





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How It Works

This is an R Markdown file, a plain text file that has the extension `.Rmd`. You can download a copy [here](#).

