R Markdown

The Data Scientist's Toolbox

The magic of Markdown

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

```
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

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print("Hello world")
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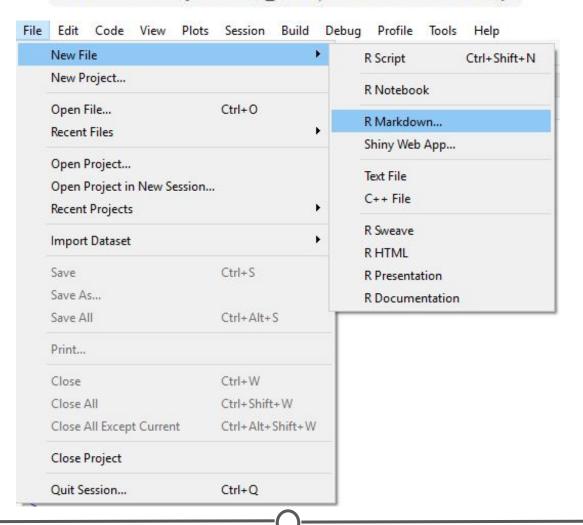
Conclusion

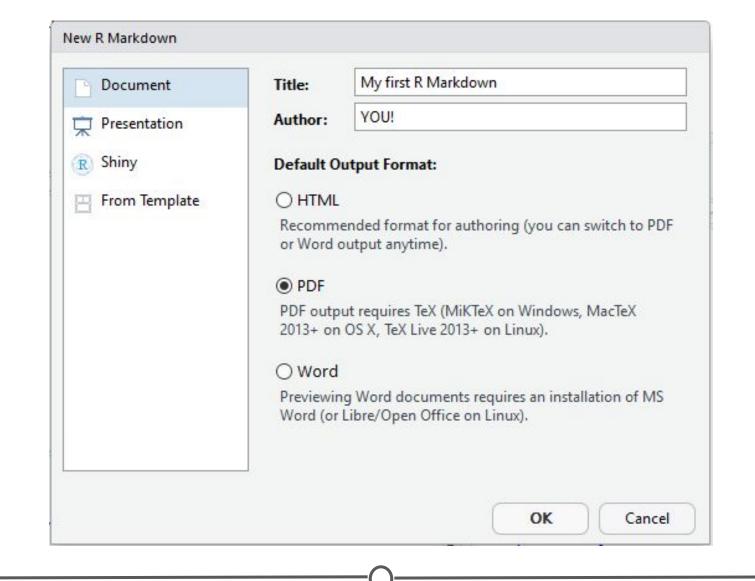
I can move on to the next part of my project

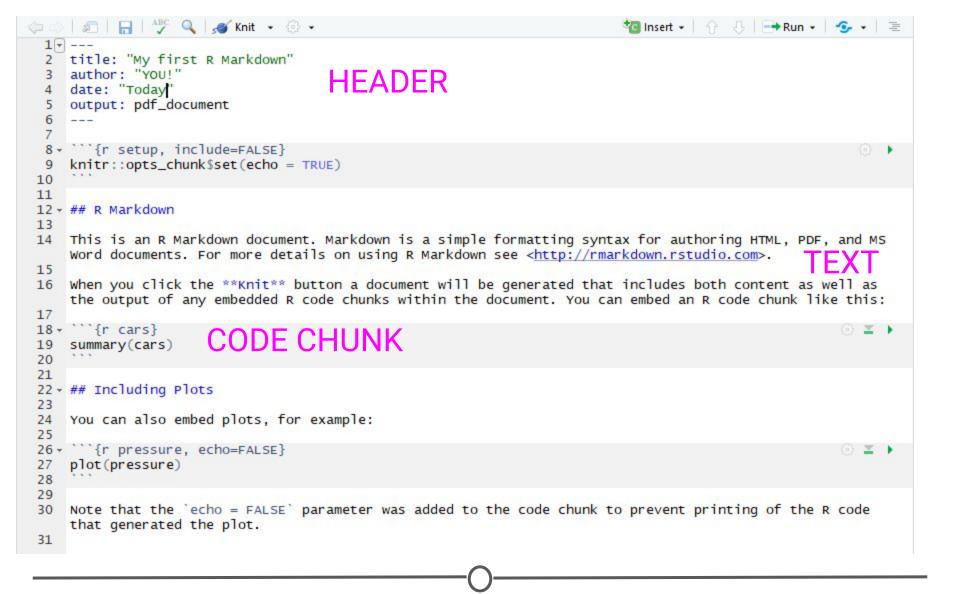
Another major benefit to R Markdown is that since it is plain text, it works very well with version control systems. It is easy to track what character changes occur between commits; unlike other formats that aren't plain text. For example, in one version of this lesson, I may have forgotten to bold 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.packages("rmarkdown")









Header rendered as the title

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)

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

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

Including Plots

You can also embed plots, for example:

bold and *italics* → bold and italics

```
# Header level 1
### Header level 2
#### Header level 3...
```

Header level 1

Header level 2

Header level 3...





TWO SPACES

- bullets
- **bold**
- *italics*
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Summarizing: R Markdown

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