

## Basics of R Markdown

Open the file RMarkdown\_Intro.Rmd

- Change the title of the Markdown Document from “ My First Markdown Document” to "RMarkdown Introduction".
- Click the "Knit" button to see the compiled version of your sample code.

Congratulations! You’ve just Knitted your 1<sup>st</sup> Rmd document!

Let’s formatted this document further by

- Changing the author of the document to your own name.
- Rewriting the first sentence of the document to say "This is my first R Markdown document."
- **Recompile the document so you can see your changes?**

You can turn a word into a link by surrounding it in hard brackets and then placing the link behind it in parentheses, like this: [RStudio] ([www.rstudio.com](http://www.rstudio.com))

- Make GitHub in the following paragraph link to <https://github.com/RLadiesManchester>

To embed formatting instructions into your document using Markdown, you would surround text by:

- one asterisks to make it *italic*: `*italic*`;
- two asterisks to make it **bold**: `**bold**` and
- backticks to make it `monospaced`: ``monospaced``.

To make an ordered list you need to place each item on a new line after a number followed by a period followed by a space:

1. order list
2. item 2

Note that you need to place a blank line between the list and any paragraphs that come before it.

- Make the following paragraph in your Rmd document look like this:  
The variables can be one of two broad types:  
1) **Attribute variable**: has its outcomes described in terms of its characteristics or attributes;  
2) **Measured variable**: has the resulting outcome expressed in numerical terms.
- Make word Knit in the following paragraph bold.

To embed an R code chunk you would use three back ticks:

```
```{r}  
chunk of code  
```
```

- Replace the `cars` data set with the `mtcars` data set.

You can also embed plots by setting ``echo = FALSE`` to the code chunk to prevent printing of the R code that generates the plot:

```
``{r, echo=FALSE}  
chunk of code  
``
```

- Replace the boxplot of mpg vs. cyl by a scatter plot to examine a relationship between mpg and weight.

Finally, if you wish to add mathematical equations to your Markdown document you can easily embed [LaTeX](#) math equations into your report. To display equation in its own line it needs to be surrounded by double dollar symbol `$$y = a + bx$$`, or to embed an equation in line within the text you would use only one dollar symbol: `$y = a + bx$`.

- Display the equation into it's own line.

Congratulations! You have got the basics to start creating your own fabulous dynamic documents...