

# R markdown: ICCB 2015

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30 July 2015

# Hello!



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This is an R Markdown presentation. 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.

- Allows you to combine your science with your analysis code.
- This means:
  - You won't forget which file/which version of the file you used
  - Analysis completely reproducible
  - You can even write documents with citations, italics, etc.

- Good for annotating your analysis as you go
- Easy on the eyes

# To include text in the document:

- Just type normally!
- Hashtags (#) signify heading level
- To **bold** a word or words, encase it/them in double underscores  
\_\_
- To italicise a word or words, encase it/them in single underscores \_.
- Lists - just use hyphens (or numbers)

# To include r code in the document

“Code chunks” are where you’ll put the code. To make a chunk, you need code like this:

```
60  
61 ~~~{r}  
62 very_important_data <- read.csv("data/my_excellent_data.csv")  
63 very_important_analysis <- with(very_important_data, t.test(before, after))  
64 ~~~  
65
```



- `“{r eval = FALSE}` means the code will be printed but not run
- `“{r echo = FALSE}` means the code won't be printed, but the command will be run

# Using markdown documents today

- If you choose to use one, you can run all the code in the code chunks as you would in R (command-enter on macs, control-r on windows, or using the file menu).
- If you go up to the “Chunks” menu (top right) you’ll see you can run all the chunks, just the current one (the one your cursor is in), etc.
- But - if you prefer not to, no worries! Just copy and paste the text from the pdfs into your console or R script.

# Using markdown documents - individual exercise

- ➊ Please go to file, new file, second option (R Markdown).
- ➋ Choose one of the document or presentation options.
- ➌ Have a look at the layout.
- ➍ Hit “Knit” (top middle of your screen).
- ➎ [Optional] modify as you wish and save it.