

# R Markdown

# What is R Markdown?

R Markdown allows you to combine:

1. Code
2. Results
3. Prose

Whilst being fully reproducible.

*Supports Word, PDF, Slide.... outputs*

# Why use R Markdown?

1. To communicate to decision makers.
2. To collaborate with other analysts.
3. To capture what you were thinking as well as what you did.

# When use R Markdown?

Rough guide:

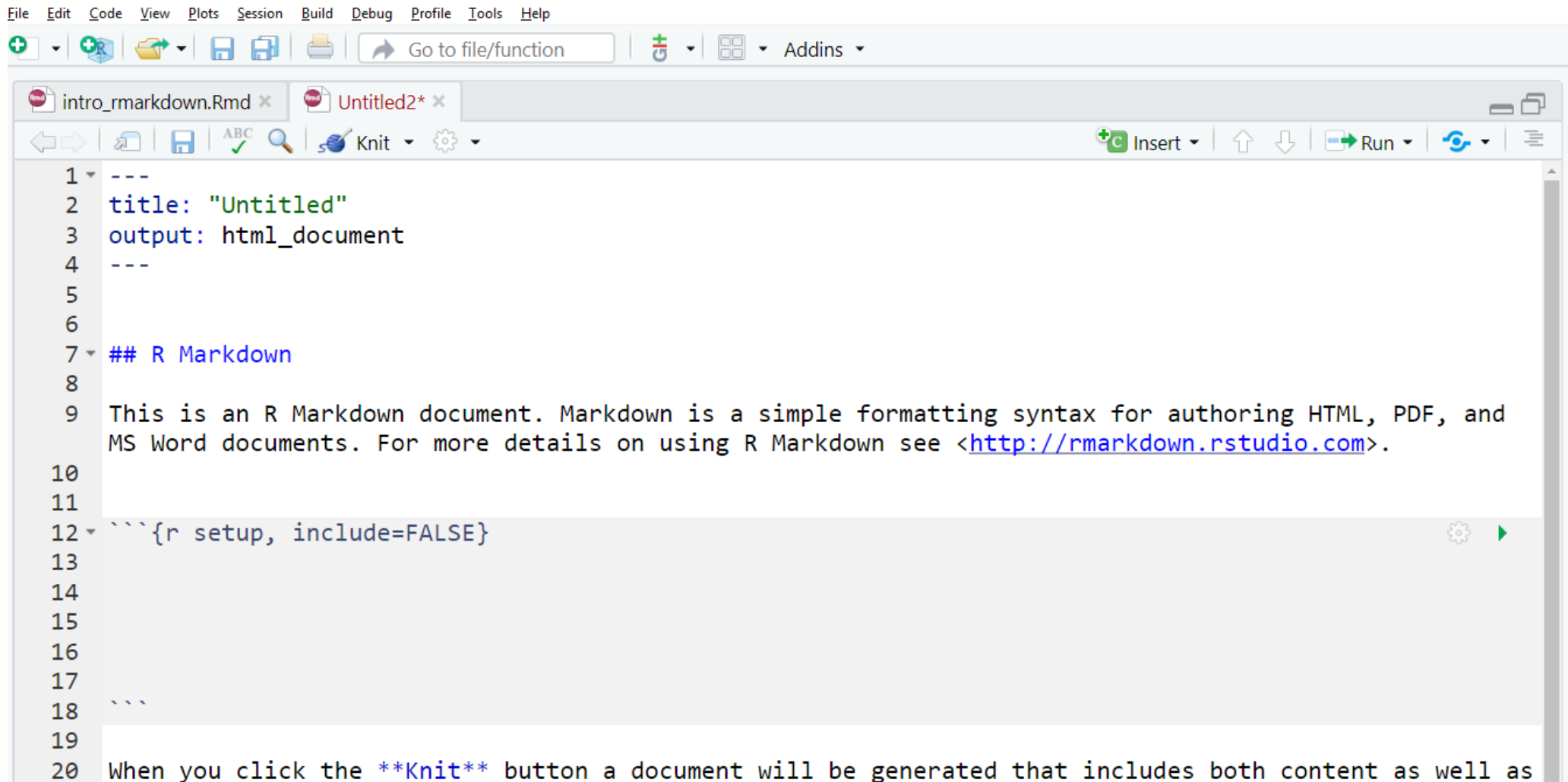
When more code than text: *R script*

When more text than code: *R Markdown*

# Overview

1. Metadata (heading)
2. Text
3. Code (R, SQL, Python ...)

# It looks like this:

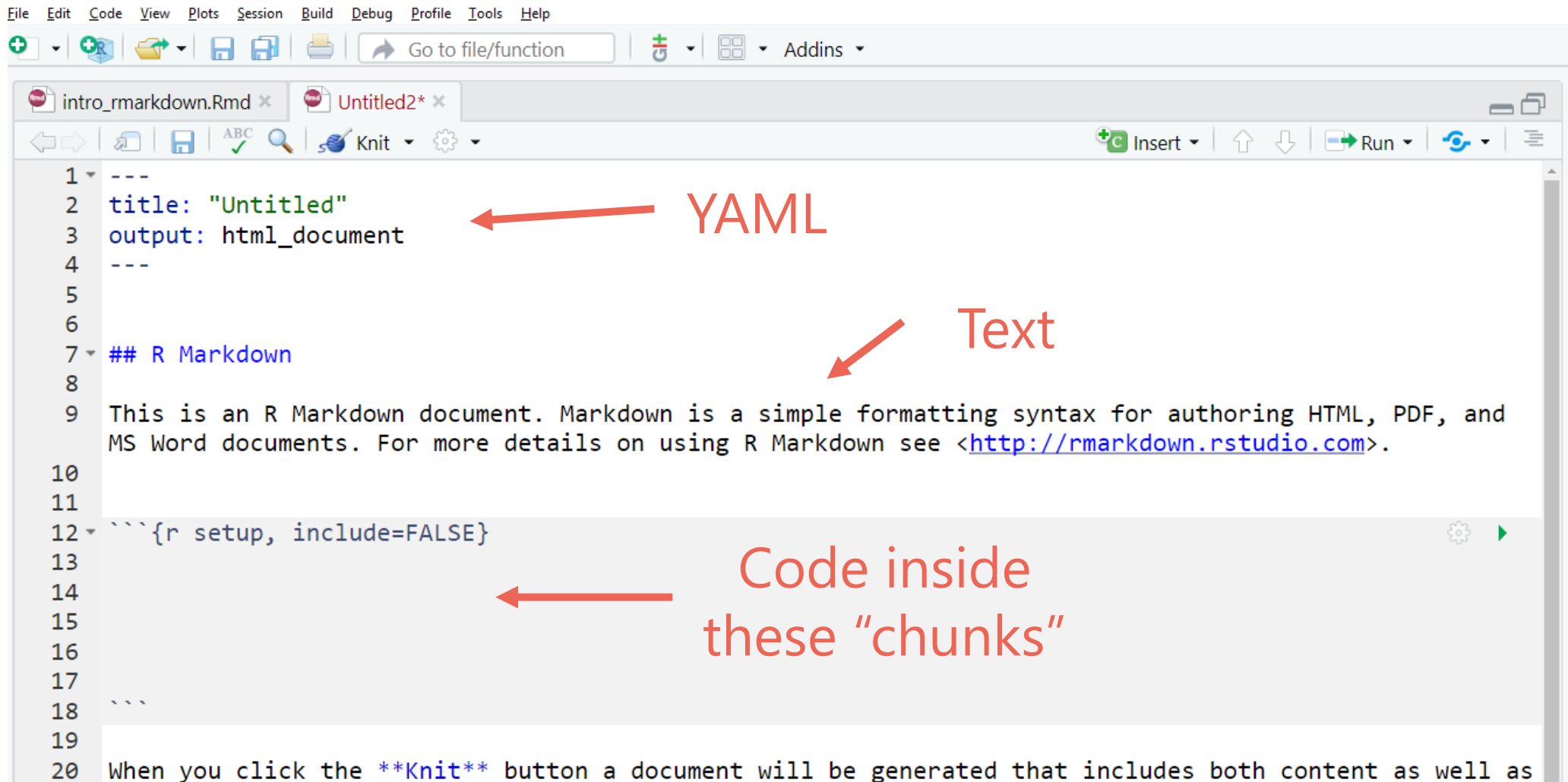


The screenshot displays the RStudio application window. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. Below the menu is a toolbar with icons for file operations and a search bar labeled 'Go to file/function'. The main editor area shows two tabs: 'intro\_rmarkdown.Rmd' and 'Untitled2\*'. The 'intro\_rmarkdown.Rmd' tab is active, displaying the following R Markdown code:

```
1 ---
2 title: "Untitled"
3 output: html_document
4 ---
5
6
7 ## R Markdown
8
9 This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and
10 MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.
11
12 ```{r setup, include=FALSE}
13
14
15
16
17
18 ```
19
20 When you click the Knit button a document will be generated that includes both content as well as
```

The code is formatted with syntax highlighting: YAML front-matter is in blue, section headers are in blue, and code blocks are in black. The text is in a monospaced font. The RStudio interface is light-themed.

# It looks like this:



The image shows a screenshot of the RStudio interface with an R Markdown document open. The document content is as follows:

```
1 ---  
2 title: "Untitled"  
3 output: html_document  
4 ---  
5  
6  
7 ## R Markdown  
8  
9 This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and  
10 MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.  
11  
12 ```{r setup, include=FALSE}  
13  
14  
15  
16  
17  
18 ```  
19  
20 When you click the Knit button a document will be generated that includes both content as well as
```

Annotations with red arrows point to specific parts of the document:

- An arrow points from the text "YAML" to the YAML front matter (lines 2-4).
- An arrow points from the text "Text" to the main text paragraph (lines 9-10).
- An arrow points from the text "Code inside these 'chunks'" to the R code chunk (lines 12-18).

# YAML

Controls document settings

Not important for now.

Title author date

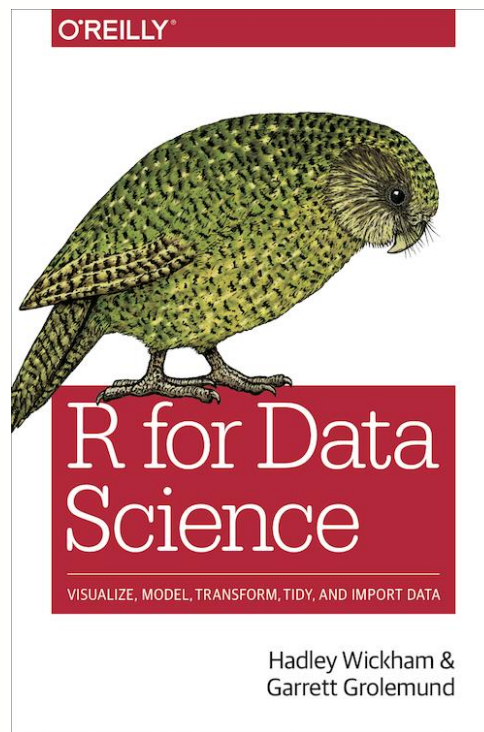


Please open the tutorial:

*intro\_rmarkdown.rmd*

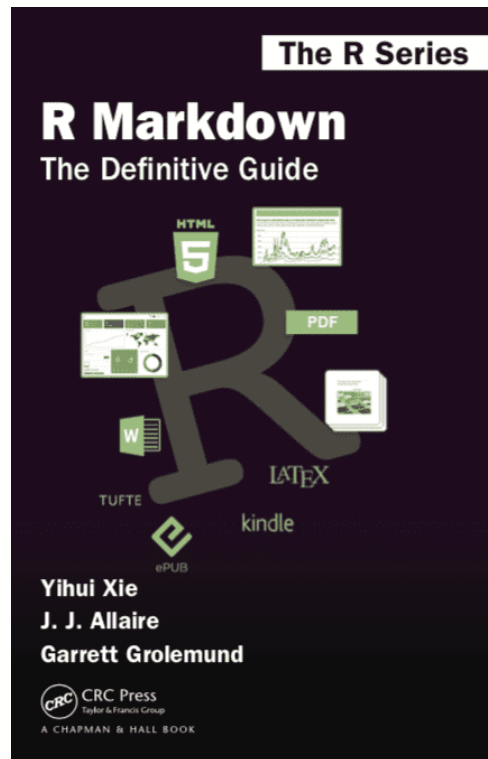
# More in:

<https://r4ds.had.co.nz/>



# Much more at:

<https://bookdown.org/yihui/rmarkdown/>



End