

R you ready?

**IntRo to RStudio and R Markdown
for open data and reproducibility**

**Unit 8:
Reporting and reproducibility**

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Using Base R for your analysis and copy pasting your results into tables in Word



learning how to use dplyr visualize data with ggplot2 and report your analysis in rmarkdown documents



wielding the entire might of the tidyverse



R Markdown: Reporting

This introduction is short and sweet:

This section is a practice unit on reporting in R Markdown

R Markdown cheatsheet:

<https://www.rstudio.com/wp-content/uploads/2015/03/rmarkdown-reference.pdf>

R Markdown: Reporting

- Keep the code chunks specific to one topic/data manipulation process/analysis
- DOCUMENT your thought process, rationale, coding and data analytical procedure
- Make use of the Markdown syntax (headers, lists, tables etc.)

Markdown syntax

Syntax

italics and _italics_

bold and __bold__

superscript²

~~strikethrough~~

[link](www.rstudio.com)

Output

italics and *italics*

bold and **bold**

superscript²

strikethrough

link

Markdown syntax

Syntax

```
# Header 1  
## Header 2  
### Header 3  
#### Header 4  
##### Header 5  
##### Header 6
```

Output

```
Header 1  
Header 2  
Header 3  
Header 4  
Header 5  
Header 6
```

Markdown syntax

Syntax

endash: --

emdash: ---

image:

Output

endash: –

emdash: —

mentally im here



Markdown syntax

Syntax

> block quote

* unordered list

* item 2

 + sub-item 1

 + sub-item 2

1. ordered list

2. item 2

 + sub-item 1

 + sub-item 2

Output

| Block quote

• unordered list

• item 2

 ○ sub-item 1

 ○ sub-item 2

1. ordered list

2. item 2

 ○ sub-item 1

 ○ sub-item 2

Markdown syntax

Generate R Markdown tables online

https://www.tablesgenerator.com/markdown_tables

- **For more advanced users, see the packages**
 - **kable**
 - **kableExtra**
 - **DT**

LET'S GET OUR HANDS DIRTY



makeameme.org