

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