

Introduction To RMarkdown

Peter von Rohr

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Types of Document Creation

Two fundamentally different ways to create a document

1. “What You See Is What You Get” (WYSIWYG) - Word ...
2. Command-based formatting in source file to produce different types of output - LaTeX, RMarkdown

Advantage of

- ▶ 1 over 2: Easy to use, fast if you know how, many people use it ...
- ▶ 2 over 1: Reproducibility

Resources for RMarkdown

- ▶ Cheatsheet - <https://rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>
- ▶ <https://rmarkdown.rstudio.com/>
- ▶ <https://bookdown.org/yihui/rmarkdown/>

Workflow

i. **Open** - Open a file that uses the .Rmd extension.



ii. **Write** - Write content with the easy to use R Markdown syntax



iii. **Embed** - Embed R code that creates output to include in the report

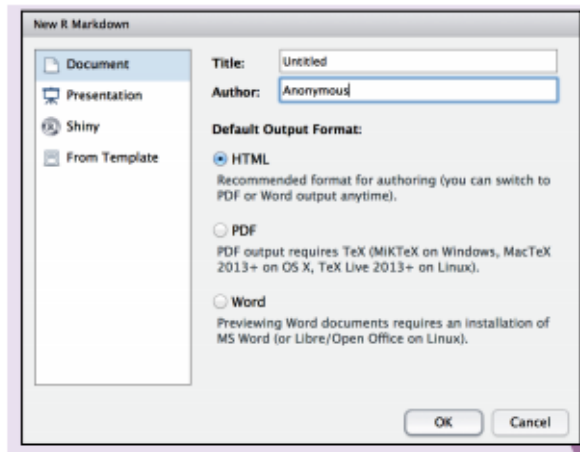


iv. **Render** - Replace R code with its output and transform the report into a slideshow, pdf, html or ms Word file.



Getting Started

Open a file in RStudio



RMarkdown Syntax

syntax

Plain text

End a line with two spaces to start a new paragraph.

italics and `_italics_`

****bold**** and `__bold__`

superscript^{^2^}

~~~~strikethrough~~~~

[link](www.rstudio.com)

# Header 1

## Header 2

## RMarkdown Syntax II

\* unordered list

\* item 2

+ sub-item 1

+ sub-item 2

1. ordered list

2. item 2

+ sub-item 1

+ sub-item 2

| Table Header | Second Header |
|--------------|---------------|
| Table Cell   | Cell 2        |
| Cell 3       | Cell 4        |