

#### Hi! I'm Emi!

I'm a lecturer in statistics at The University of Sydney (soon moving to Monash University).



Introduce yourself to someone you don't know!



Please send SOS signal by attaching sticky note on your laptop.



Please help your neighbours 🙏

Open

http://bit.ly/rmd-combine-2019



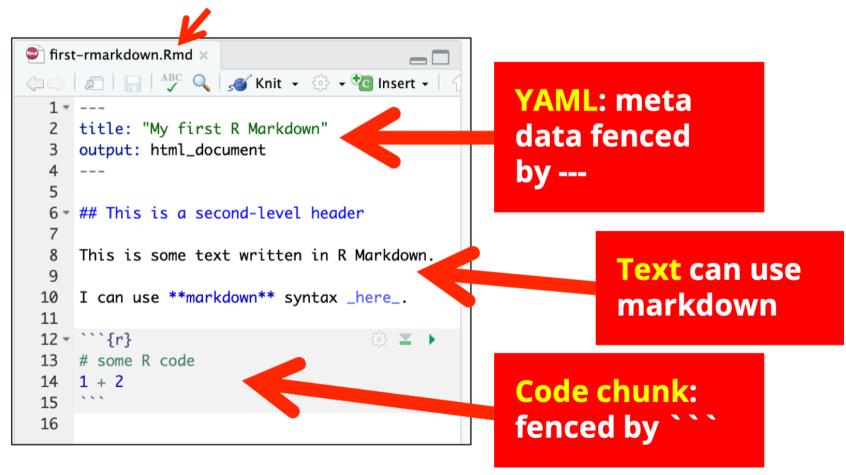
and save a permanent copy to your RStudio Cloud account.

#### Schedule

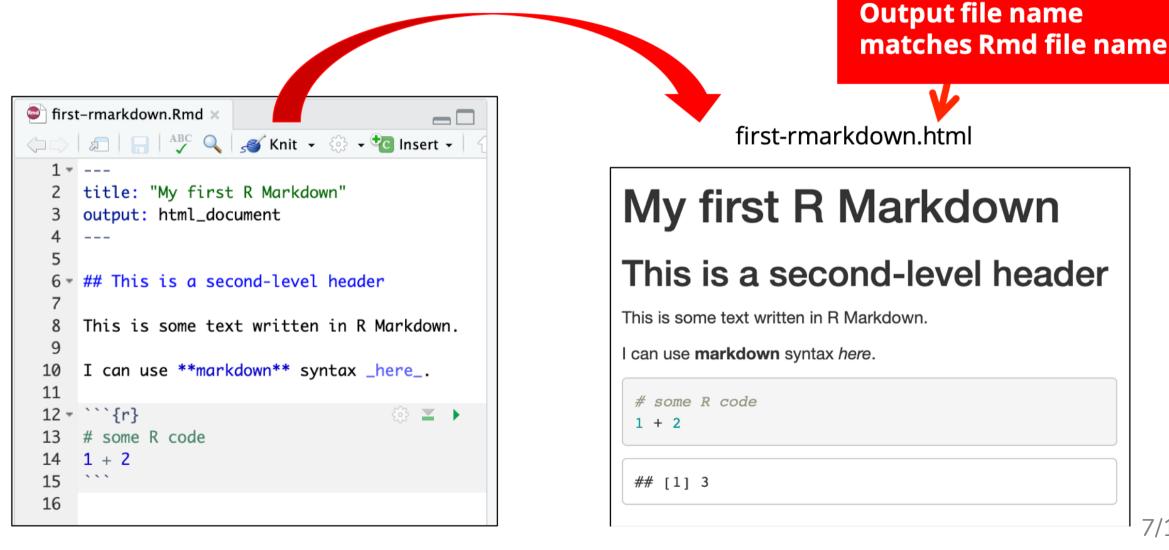
Time	Activity
1:00PM - 1:25PM	Session 1: R Markdown Basics
1:25PM - 1:30PM	Break 😇
1:30PM - 3:00PM	Session 2A: Reproducible Reports I
3:00PM - 3:30PM	Afternoon Tea
3:30PM - 4:10PM	Session 2B: Reproducible Reports II
4:10PM - 4:15PM	Break 🚽
4:15PM - 5:00PM	Session 3: Pretty Presentations

#### R Markdown Basics

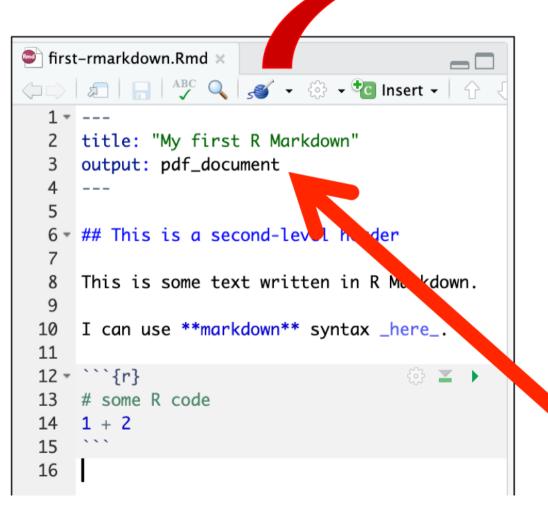
#### File extension is Rmd

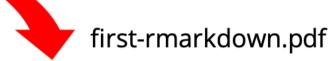


# Knitting: Rmd □ → md □ → html □



# Knitting: Rmd $\square \rightarrow \text{md} \square \rightarrow \text{pdf} \square$





```
My first R Markdown

This is a second-level header

This is some text written in R Markdown.

I can use markdown syntax here.

# some R code
1 + 2

## [1] 3
```

pdf output

There are many other output formats possible with R Markdown via Pandoc.

Can you name another 3?



### R Markdown under the hood: html\_document

knitr ♥ does the hard work of converting Rmd 🖰 → md 🖺 md 🖺

```
title: "My Report"
output: html document
# Hello
```

#### R Markdown under the hood: html\_document

Then rmarkdown prepares md for pandoc to convert to html html

```
title: "My Report"
output: html document
# Hello
```

```
<body>
<div class="container-fluid main-container">
<div class="fluid-row" id="header">
<h1 class="title toc-ignore">My Report</h1>
</div>
<div id="hello" class="section level1">
<h1>Hello</h1>
<code>1 + 1</code>
<code>## [1] 2</code>
</div>
</div>
</body>
```

### R Markdown under the hood: pdf\_document

Same as before: knitr ♥ converts Rmd 🗋 → md 🗋 Rmd 🗋

```
md 🗋
title: "My Report"
output: pdf document
# Hello
## [1] 2
```

#### R Markdown under the hood: pdf\_document

Then rmarkdown prepares md for pandoc to convert to tex + pdf ...
md f

md M title: "My Report" output: html document # Hello

```
\begin{document}
\maketitle
\hypertarget{hello}{%
\section{Hello}\label{hello}}
\begin{Shaded}
\begin{Highlighting}[]
\texttt{\DecValTok}\{1\} \ \texttt{\OperatorTok}\{+\}\ \texttt{\StringTok}\{\ \}\ \texttt{\DecValTok}\{1\}
\end{Highlighting}
\end{Shaded}
\begin{verbatim}
## [1] 2
\end{verbatim}
\end{document}
                                           A This tex document is
```

# Get started with

challenge-01.Rmd



05:00

# Advanced question

How do you render different output formats at once?



