Workshop Examples

Melissa Monk

Contents

Change some of the YAML settings to see what happens.

Notice, the down arrow at line 22. If you click this, you can hide the R code chunk. This is helpful when working through a large document.

On the right side of the R code chunk are additional options, Settings, a down arrow (run previous R code chunks), and a green play button (runs the current chunk). It's handy to check R code chunks as you go and to debug. Within the Assessment template, this is also the only way to see variables in your Environment.

1 Epmhasis (R markdown and LaTeX)

epmhasis-r-markdown-and-latex

2 Headers

headers

3 Commenting

commenting

4 Links

links

5 Lists

lists

6 References and Citations

references-and-citations

We can reference a document section, see Lists in Section 5.

Citations: (Love et al. 2002)

7 Figure from a file

figure-from-a-file

You can use any file extension, including PDFs

Figure 1: Here's my caption [fig:fig_example

Figure 2: Here's my caption 2 fig:fig_example

Figures are referenced using LaTeX syntax 2.

Put a space between the] and (above. Knit the document.

Now try adding your own picture to the directory, adding it in here, and referencing it.

8 R code chunks

You can embed an R code chunk like this:

```
##     speed          dist
## Min.   : 4.0   Min.   :  2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean   :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

Play witht the r code chunk options, echo=TRUE, include=FALSE, results='asis'

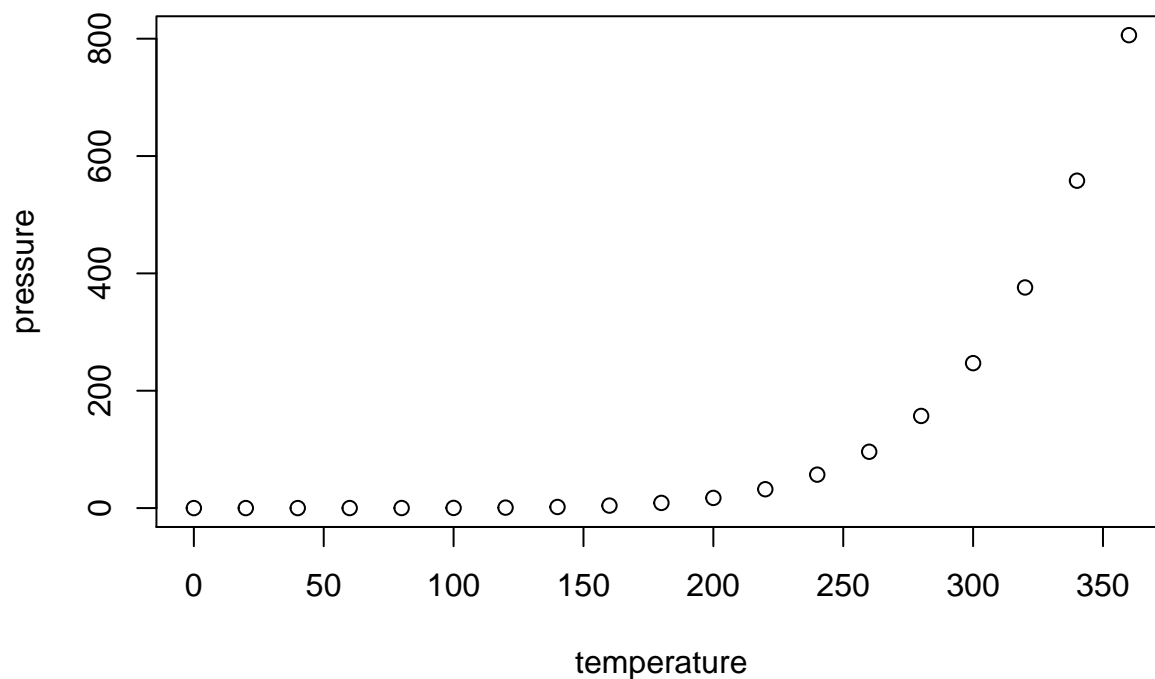# 9 Figure from R code chunk

You can also embed plots, for example:

Figure 3: Figure of something at 40°10′. fig:pressure

49 Note, you need extra \s when using LaTeX syntax within an R code chunk, or when inserting
50 a backslash in R markdown. The same goes with percent signs and any other LaTeX reserved
51 symbol. You can use a % in line without dollar signs, if in math mode you need dollar signs.
52 ex: %

53 This is inline math mode for Latex $40°10'$

54 We can now reference Figure 3. Note where this text ends up.

55 Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of
56 the R code that generated the plot.

10 Tables

tables

Table 1: This is where you write your caption

tab:Table_example

Sample	Test1	Test2	Test3	Test4	Test5	Test6	Test7	Test8	Test9	Test10
1	333000000000.00	97.00	45	7169	5656	2642	8534	9173.00	230	2733
3	345.00	976.00	6	105	6382	2277	5848	7339495403.00	8613	5025
5	34.00	3333333333.00	7	2395	5632	5542	1645	380.00	1263	6728
7	234.00	34.00	46	5619	6063	8973	9362	1870.00	7651	683
9	234.00	0.00	45	6531	6824	3609	7627	3363.00	1534	8333

58 Try changing the R chunk options above.

59 We can now reference Table 1.

60 Now, try putting the R code chunk within and HTML comment.

11 Create you own table

create-you-own-table

62 Either create a .csv file or copy one into the repo folder on your computer.

63 Now, create a table!

Table 2: This is da caption.

tab:Table_example2

X	Size	Color
Lee CF	XL	Maroon
Kristin PJ	M	Dark Green
Lukas DF	L	Light Blue
Thomas B	S	Maroon
Kaija K	S	Light Blue
Zack O	M	Dark Green
Zach K	M	Lavender
Kate R	S	Light Blue
Jon S	L	Purple
Melissa K	M	Light Blue

12 Math mode

You can use LaTeX math mode both inline and for inserting equations. It's handy for using inline math mode for management measure and lat/long.

Inline looks like this: $SPR_{40\%}$

Note the % sign has a when used in math mode, but not in R markdown text.

To get degrees and minutes type: $40°10'$

References

Love, M., Yoklavich, M., and Thorsteinson, L. 2002. The rockfishes of the northeast Pacific. University of California Press, Berkeley, CA, USA.