

Workshop Examples

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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.

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

27 1 Epmphasis (R markdown and LaTeX)

epmphasis-r-markdown-and-latex

28 *Sebastes*

29 *Sebastes*

30 *Sebastes*

31 2 Headers

headers

32 2.1 Subhead 2

subhead-2

33 2.1.1 Subhead 3

subhead-3

34 2.1.1.1 Subhead 4

subhead-4

35 3 Commenting

commenting

36 4 Links

links

37 [Github](#)

38 5 Lists

lists

39 R Markdown are finicky with spacing... * Item 1 * Item 2 + Item 2a + Item 2b

- 40 • Item 1
- 41 • Item 2
 - 42 – Item 2a
 - 43 – Item 2b

44 Bulleted list

- 45 • [Git](#)
- 46 • [R](#)

6 References and Citations

references-and-citations

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

Citations: (Love et al. 2002, 2002)

Love (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 |^{fig:fig_example2}



Figure 3: Here's my caption |^{fig:fig_example3}

Figures are referenced using LaTeX syntax 1.

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

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

```
summary(cars)
```

```
##           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
```

9 Figure from R code chunk

figure-from-r-code-chunk

You can also embed plots, for example:

This is the inline math mode for LaTeX $40^{\circ}10'$

If you want to have a backslash \

If you want a percent sign you have a backslash %

Note, you need extra \s when using LaTeX syntax within an R code chunk, or when inserting a backslash in R markdown. The same goes with percent signs and any other LaTeX reserved symbol.

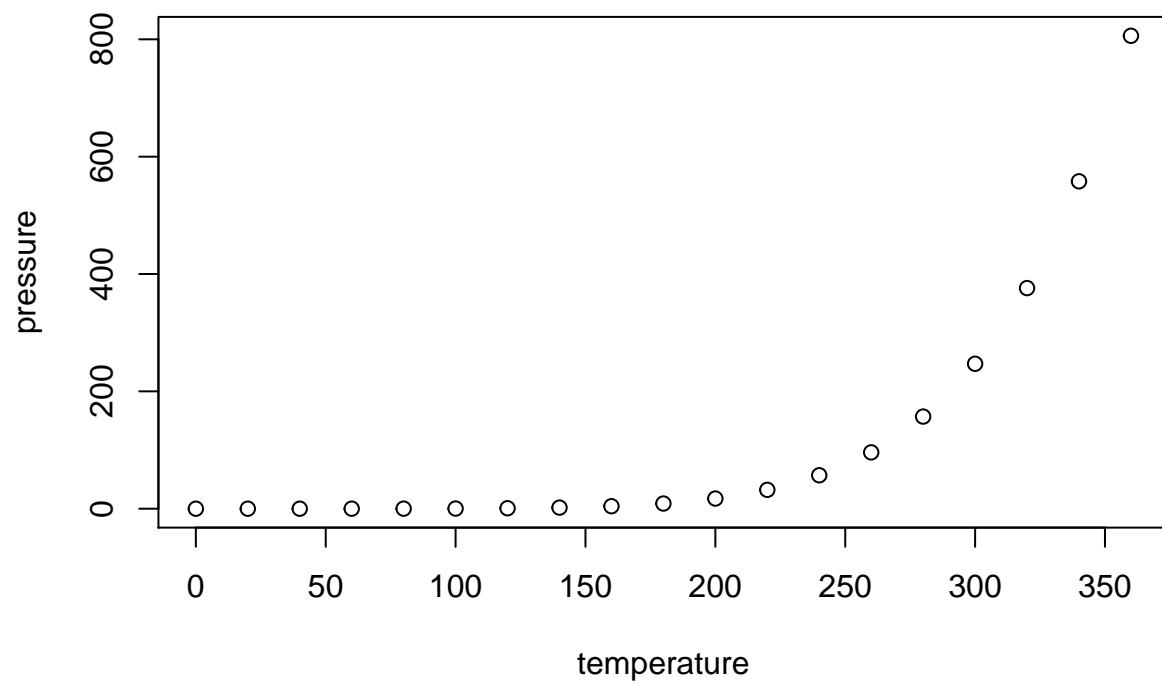


Figure 4: Figure of something at $40^{\circ}10'$. ^{fig:pressure}

81 We can now reference Figure 4. Note where this text ends up.
 82 Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of
 83 the R code that generated the plot.

84 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	97	45	7169	5656	2642	8534	9173	230	2733
3	345	976	6	105	6382	2277	5848	7339495403	8613	5025
5	34	3333333333	7	2395	5632	5542	1645	380	1263	6728
7	234	34	46	5619	6063	8973	9362	1870	7651	683
9	234	0	45	6531	6824	3609	7627	3363	1534	8333

85 Try changing the R chunk options above.
 86 We can now reference Table 1.
 87 Now, try putting the R code chunk within and HTML comment.

88 11 Create you own table

create-you-own-table

89 Either create a .csv file or copy one into the repo folder on your computer.
 90 Now, create a table!

Table 2: This is where you write your caption

Year	Peanut Butter	Jelly
1999	3.45	1.23
2000	3.45	1.23
2001	3.45	1.23
2002	3.45	1.23
2003	3.45	1.23

tab:Table_test

91 12 Math mode

math-mode

92 You can use LaTeX math mode both inline and for inserting equations. It's handy for using
 93 inline math mode for management measure and lat/long.
 94 Inline looks like this: $SPR_{40\%}$
 95 Note the % sign has a when used in math mode, but not in R markdown text.
 96 To get degrees and minutes type: $40^{\circ}10'$

⁹⁷ **References**

references

- ⁹⁸ Love, M., Yoklavich, M., and Thorsteinson, L. 2002. The rockfishes of the northeast Pacific.
⁹⁹ University of California Press, Berkeley, CA, USA.