Workshop Examples

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20	Cł	hange some of the YAML settings to see what happens.	
		otice, the down arrow at line 22. If you click this, you can hide the R code chunk. The large document	his is

- 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
- the only way to see variables in your Environment.

27 1 Epmhasis (R markdown and LaTeX)

epmhasis-r-markdown-and-latex

- 28 Sebastes
- 29 Sebastes
- 30 Sebastes Sebastes
- 31 Sebastes

32 Headers

headers

$_{\scriptscriptstyle 33}$ 2.1 Subhead 2

subhead-2

34 Subhead 3

subhead-3

- $_{ ext{35}}$ 2.1.0.1 Subhead 4 $^{ ext{subhead-4}}$
- 36 Subhead 5

37 Commenting

commenting

4 Links

links

39 Github

$_{ t 40}$ 5 Lists

lists

- Bulleted list
- Git
- R
- 44 Numbered list
- 45 1. Git
- 46 2. R

₄₇ 6 References and Citations

references-and-citations

- We can reference a document section, see Lists in Section 5.
- 49 Citations: (Love et al. 2002, 2002)
- Love(2002)

$_{\scriptscriptstyle 51}$ 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

- 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.

$_{ ext{\tiny 56}}$ 8 R code chunks

r-code-chunks

- You can embed an R code chunk like this:
- Play with the r code chunk options, echo=TRUE, include=FALSE, results='asis'

₅₉ 9 Figure from R code chunk

figure-from-r-code-chunk

You can also embed plots, for example:

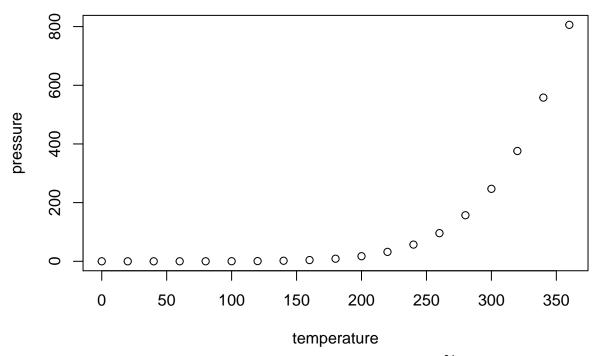


Figure 3: Figure of something at 40°10′. fig:pressure

- This is inlinemath mode for Latex 40°10′
- 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. You can use a % %
- 65 We can now reference Figure 3. Note where this text ends up.
- Note that the echo = FALSE parameter was added to the code chunk to prevent printing of
- 67 the R code that generated the plot.

68 10 Tables

tables

Table 1: This is where you write your caption

tab:Table_exa										ble exar	nple
Sample	Test1	Test2	Test3	Test4	Test5	Test6	Test7	Test8	Test9	Test10	•
1	3330000000000.0	97.0	45	7169	5656	2642	8534	9173.0	230	2733	
3	345.0	976.0	6	105	6382	2277	5848	7339495403.0	8613	5025	
5	34.0	3333333333.0	7	2395	5632	5542	1645	380.0	1263	6728	
7	234.0	34.0	46	5619	6063	8973	9362	1870.0	7651	683	
9	234.0	0.0	45	6531	6824	3609	7627	3363.0	1534	8333	

- ⁶⁹ Try changing the R chunk options above.
- 70 We can now reference Table 1.
- Now, try putting the R code chunk within and HTML comment.

Table 2: Taiwan data

tab:Taiwan

spp	Year	Catch_KG	AreaSwept_km2	Vessel	Lat	Lon
1	1970	0.00	0.01	0	19.50	112.50
1	1970	0.00	0.01	0	21.50	116.00
1	1970	0.00	0.01	0	21.50	116.50
1	1970	0.00	0.01	0	23.00	118.00
1	1970	0.00	0.01	0	25.50	123.00
1	1970	0.00	0.01	0	25.50	123.50
1	1970	0.00	0.01	0	26.00	123.00
1	1970	0.00	0.01	0	26.50	121.00
1	1970	0.00	0.01	0	26.50	124.00
1	1970	0.00	0.01	0	28.00	122.50
1	1970	0.00	0.01	0	29.50	124.00
1	1970	0.07	0.01	0	22.50	118.00
1	1970	0.10	0.01	0	28.00	122.50
1	1970	0.50	0.01	0	16.50	109.00

72 11 Create you own table

create-you-own-table

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

$_{75}$ 12 Math mode

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: $40^{\circ}10'$

References

references

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