

# Workshop Examples

*Melissa Monk*

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Change some of the YAML settings to see what happens.

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Notice, the down arrow at line 22. If you click this, you can hide the R code chunk. This is

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helpful when working through a large document.

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On the right side of the R code chunk are additional options, Settings, a down arrow (run

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previous R code chunks), and a green play button (runs the current chunk). It's handy to

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check R code chunks as you go and to debug. Within the Assessment template, this is also

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the only way to see variables in your Environment.

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1 Epmphasis (R markdown and LaTeX)

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2 Headers

32

3 Subhead 1

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3.1 Subhead 2

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3.1.1 Subhead 3

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3.1.1.1 Subhead 4

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4 Commenting

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5 Links

38

Github

39

Git

40

6 Lists

41

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

- 42 • Item 1
- 43 • Item 2
- 44     – Item 2a
- 45     – Item 2b

46 Bulleted list

- 47 • List 1
- 48 • [Git](#)
- 49 • [R](#)

50 Numbered list

- 51 1. Item here
- 52 2. [Git](#)
- 53 3. [R](#)

54 Nested list

- 55 1. Item here
  - 56 • Item here
  - 57 • Item here
- 58 2. Item here

## 59 7 References and Citations

references-and-citations

60 We can reference a document section, see Lists in Section [6](#).

61 Citations: (Lo et al. [1992](#), Love et al. [2002](#))

62 Love and colleages ([2002](#))

## 63 8 Figure from a file

figure-from-a-file

64 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. It doesn't like space.  
 Now try adding your own picture to the directory, adding it in here, and referencing it.

## 9 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'`

## 10 Figure from R code chunk

`figure-from-r-code-chunk`

You can also embed plots, for example:

Inline math mode in LaTeX is defined by two dollar signs,  $40^{\circ}10'$

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.

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 the R code that generated the plot.

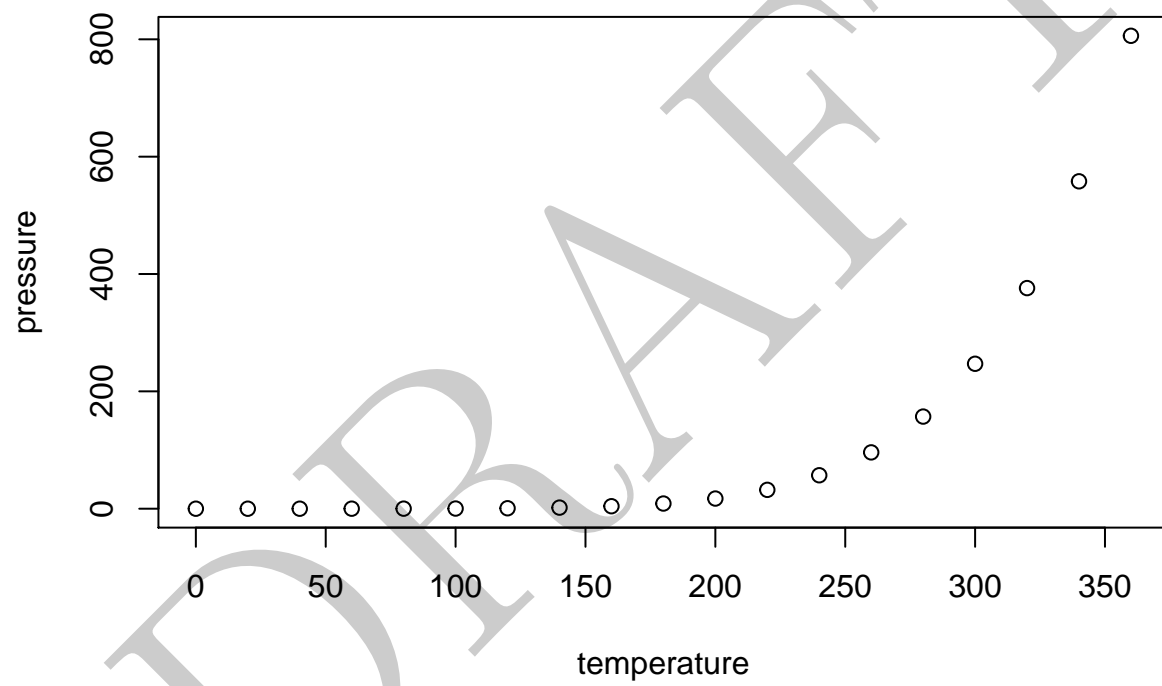


Figure 3: Figure of something at  $40^{\circ}10'$ . `fig:pressure`

## 11 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

Try changing the R chunk options above.

We can now reference Table 1.

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

## 12 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!

## 13 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

Lo, N., Jacobson, L.D., and Squire, J.L. 1992. Indices of relative abundance from fish spotter data based on delta-lognormal models. Canadian Journal of Fisheries and Aquatic Sciences **49**: 2515–2526.

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

Table 2: This is where you write your caption

YEAR	AREA	nombre	tab:Practice example	
			MES	CAPTURA
1979	PVA	VARIOS		5,319.0
1980	PVA	VARIOS		5,929.0
1981	PVA	VARIOS		1,493.0
1982	PVA	VARIOS		54,498.0
1983	SAI	VARIOS		1.4
1984	PVA	VARIOS		3,511.0
1984	SAI	VARIOS		3.5
1984	SAI	VARIOS		3.5
1992	ARCHI	VARIOS	ENE	1215
1992	ARCHI	VARIOS	MAR	560
1992	ARCHI	VARIOS	ABR	675
1992	ARCHI	VARIOS	MAY	930
1992	ARCHI	VARIOS	JUN	1600
1992	ARCHI	VARIOS	JUL	620
1992	ARCHI	VARIOS	AGO	475
1992	ARCHI	VARIOS	SEP	575
1992	ARCHI	VARIOS	OCT	978
1992	ARCHI	VARIOS	NOV	1002
1992	ARCHI	VARIOS	DIC	834
1993	ARCHI	VARIOS		6
1996	PVA	VARIOS		100.0
1996	SSW Y ESE	ALVARO ESPINOSA	OCT	35
1996	SSW Y ESE	ALVARO OVALLE	AGO	19
1996	SSW Y ESE	GALINDO HAWKINS	JUN	15
1996	SSW Y ESE	LEONARDO LAUGHLIN	JUN	50
1996	SSW Y ESE	ROMAN ARCHOLB	JUL	200
1996	SSW Y ESE	VICENTE NELSON	AGO	17
1996	SSW Y ESE	LEONARDO LAUGHLIN	JUN	50
1997	ARCHI	ANTONIO SAENZ	JUN	18.60
1997	ARCHI	ANTONIO SAENZ	JUL	19.40
1997	ARCHI	ANTONIO SAENZ	NOV	45.60
1997	ARCHI	GILBERTO MALO	OCT	23.1
1997	ARCHI	JAZMIN BENT	SEP	75.4
1997	ARCHI	LUIS MUÑOZ	JUL	19.40
1997	ARCHI	SERLA OTTLEY	DIC	65.70
1997	NORT	AVELINO HUDSON	ABR	100
1997	PVA	FERNANDEZ FANNY/ANGELA D.	AGO	66.6
1997	PVA	FERNANDEZ FANNY/ANGELA D.	DIC	78.9
1997	PVA	FERNANDEZ FANNY/ANGELA D.	JUL	101.6
1997	PVA	FERNANDEZ FANNY/ANGELA D.	JUN	51.0
1997	PVA	FERNANDEZ FANNY/ANGELA D.	MAY	126.7
1997	PVA	FERNANDEZ FANNY/ANGELA D.	NOV	98.7
1997	PVA	FERNANDEZ FANNY/ANGELA D.	OCT	115.9
1997	PVA	FERNANDEZ FANNY/ANGELA D.	SEP	25.9
1997	SAI	EUGENIO NELSON	JUN	112.5
1997	SAI	JAIR CASTRO	ABR	40.8
1997	SAI	JAIR CASTRO	MAY	0.0