

A new chapter

*If you haven't yet read the getting started Wiki pages; [start there](#)

Every chapter needs to start out with this chunk of code:

Learning Objectives

*Every chapter also needs Learning objectives that will look like this:

This chapter will cover:

- {You can use <https://tips.uark.edu/using-blooms-taxonomy/> to define some learning objectives here}
- {Another learning objective}

Libraries

For this chapter, we'll need the following packages attached:

*Remember to add [any additional packages you need to your course's own docker image](#).

```
library(magrittr)
```

Topic of Section

You can write all your text in sections like this!

Subtopic

Here's a subheading and some text in this subsection!

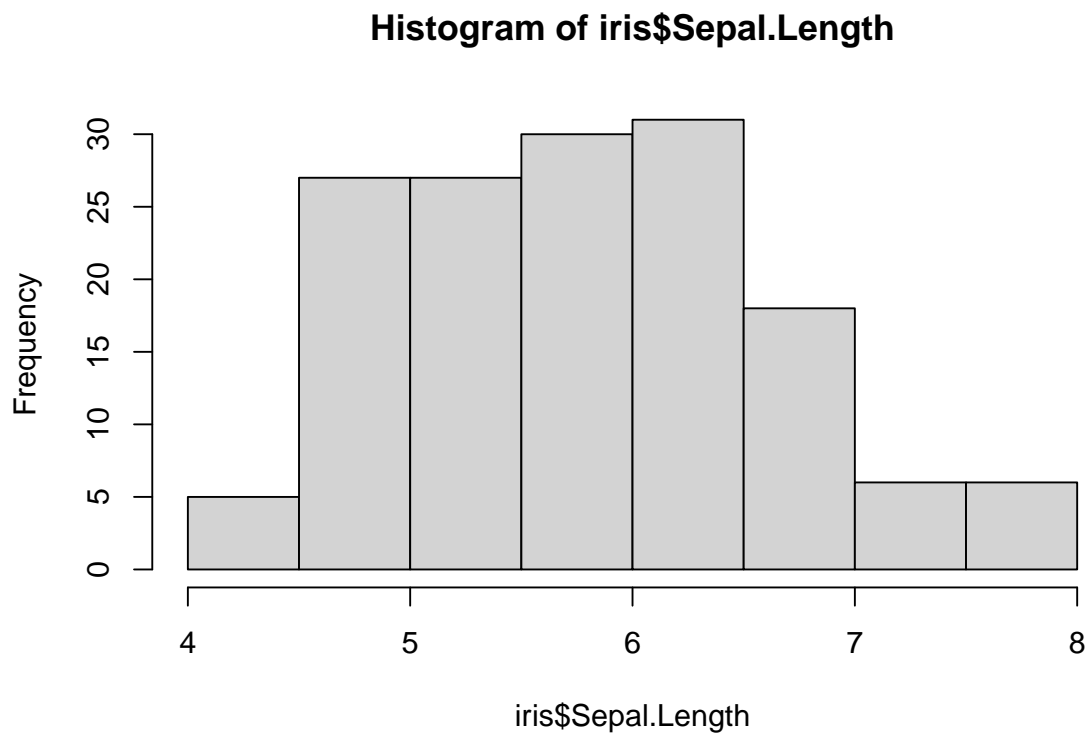
Code examples

You can demonstrate code like this:

```
output_dir <- file.path("resources", "code_output")
if (!dir.exists(output_dir)) {
  dir.create(output_dir)
}
```

And make plots too:

```
hist_plot <- hist(iris$Sepal.Length)
```



You can also save these plots to file:

```
png(file.path(output_dir, "test_plot.png"))  
hist_plot
```

\$breaks

```
[1] 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0
```

\$counts

```
[1] 5 27 27 30 31 18 6 6
```

\$density

```
[1] 0.06666667 0.36000000 0.36000000 0.40000000 0.41333333 0.24000000 0.08000000  
[8] 0.08000000
```

\$mids

```
[1] 4.25 4.75 5.25 5.75 6.25 6.75 7.25 7.75
```

```
$xname  
[1] "iris$Sepal.Length"
```

```
$equidist  
[1] TRUE
```

```
attr("class")  
[1] "histogram"
```

```
dev.off()
```

```
pdf  
  2
```

Image example

How to include a Google slide. It's simplest to use the `ottrpal` package:

Major point!!



CC-by jhudatascience.org

But if you have the slide or some other image locally downloaded you can also use html like this:

Video examples

To show videos in your course, you can use markdown syntax like this:

[A video we want to show](#)

Alternatively, you can use `knitr::include_url()` like this: Note that we are using `echo=FALSE` in the code chunk because we don't want the code part of this to show up. If you are unfamiliar with [how R Markdown code chunks work](#), read [this](#).

OR this works:

Links to files

This works:

[This works](#).

Or this:

Links to websites

Examples of including a website link.

This works:

Citation examples

We can put citations at the end of a sentence like this [@rmarkdown2021]. Or multiple citations [@rmarkdown2021, @Xie2018].

but they need a ; separator [@rmarkdown2021; @Xie2018].

In text, we can put citations like this @rmarkdown2021.

FYI boxes

Please click on the subsection headers in the left hand navigation bar (e.g., 2.1, 4.3) a second time to expand the table of contents and enable the `scroll_highlight` feature ([see more](#)).

Dropdown summaries

You can hide additional information in a dropdown menu

Here's more words that are hidden.

Print out session info

You should print out session info when you have code for [reproducibility](#) purposes.

```
devtools::session_info()
```

```
- Session info -----
setting  value
version  R version 4.1.2 (2021-11-01)
os       macOS Big Sur 10.16
system   x86_64, darwin17.0
ui       X11
language (EN)
collate  en_US.UTF-8
```

```

ctype    en_US.UTF-8
tz        America/New_York
date      2022-04-22
pandoc    2.14.1 @ /usr/local/bin/ (via rmarkdown)

```

```

- Packages -----
package      * version date (UTC) lib source
cachem        1.0.6   2021-08-19 [1] CRAN (R 4.1.0)
callr         3.7.0   2021-04-20 [1] CRAN (R 4.1.0)
cli           3.1.0   2021-10-27 [1] CRAN (R 4.1.0)
crayon        1.5.0   2022-02-14 [1] CRAN (R 4.1.2)
curl          4.3.2   2021-06-23 [1] CRAN (R 4.1.0)
desc          1.4.0   2021-09-28 [1] CRAN (R 4.1.0)
devtools      2.4.3   2021-11-30 [1] CRAN (R 4.1.0)
digest        0.6.29  2021-12-01 [1] CRAN (R 4.1.0)
ellipsis      0.3.2   2021-04-29 [1] CRAN (R 4.1.0)
evaluate      0.14    2019-05-28 [1] CRAN (R 4.1.0)
fansi         0.5.0   2021-05-25 [1] CRAN (R 4.1.0)
fastmap       1.1.0   2021-01-25 [1] CRAN (R 4.1.0)
fs            1.5.2   2021-12-08 [1] CRAN (R 4.1.0)
glue          1.6.0   2021-12-17 [1] CRAN (R 4.1.0)
hms           1.1.1   2021-09-26 [1] CRAN (R 4.1.0)
htmltools     0.5.2   2021-08-25 [1] CRAN (R 4.1.0)
httr          1.4.2   2020-07-20 [1] CRAN (R 4.1.0)
jsonlite      1.7.2   2020-12-09 [1] CRAN (R 4.1.0)
knitr         1.37    2021-12-16 [1] CRAN (R 4.1.0)
lifecycle     1.0.1   2021-09-24 [1] CRAN (R 4.1.0)
magrittr      * 2.0.1   2020-11-17 [1] CRAN (R 4.1.0)
memoise       2.0.1   2021-11-26 [1] CRAN (R 4.1.0)
ottrpal       1.0.1   2022-03-03 [1] CRAN (R 4.1.2)
pillar        1.6.4   2021-10-18 [1] CRAN (R 4.1.0)
pkgbuild      1.3.1   2021-12-20 [1] CRAN (R 4.1.0)
pkgconfig     2.0.3   2019-09-22 [1] CRAN (R 4.1.0)
pkgload       1.2.4   2021-11-30 [1] CRAN (R 4.1.0)
prettyunits   1.1.1   2020-01-24 [1] CRAN (R 4.1.0)
processx      3.5.2   2021-04-30 [1] CRAN (R 4.1.0)
ps            1.6.0   2021-02-28 [1] CRAN (R 4.1.0)
purrr         0.3.4   2020-04-17 [1] CRAN (R 4.1.0)
R6            2.5.1   2021-08-19 [1] CRAN (R 4.1.0)
readr         2.1.1   2021-11-30 [1] CRAN (R 4.1.0)
remotes       2.4.2   2021-11-30 [1] CRAN (R 4.1.0)
rlang         0.4.12  2021-10-18 [1] CRAN (R 4.1.0)
rmarkdown     2.11    2021-09-14 [1] CRAN (R 4.1.0)

```

rprojroot	2.0.2	2020-11-15	[1]	CRAN	(R 4.1.0)
sessioninfo	1.2.2	2021-12-06	[1]	CRAN	(R 4.1.0)
stringi	1.7.6	2021-11-29	[1]	CRAN	(R 4.1.0)
stringr	1.4.0	2019-02-10	[1]	CRAN	(R 4.1.0)
testthat	3.1.1	2021-12-03	[1]	CRAN	(R 4.1.0)
tibble	3.1.6	2021-11-07	[1]	CRAN	(R 4.1.0)
tzdb	0.2.0	2021-10-27	[1]	CRAN	(R 4.1.0)
usethis	2.1.5	2021-12-09	[1]	CRAN	(R 4.1.0)
utf8	1.2.2	2021-07-24	[1]	CRAN	(R 4.1.0)
vctrs	0.3.8	2021-04-29	[1]	CRAN	(R 4.1.0)
webshot	0.5.2	2019-11-22	[1]	CRAN	(R 4.1.0)
withr	2.4.3	2021-11-30	[1]	CRAN	(R 4.1.0)
xfun	0.29	2021-12-14	[1]	CRAN	(R 4.1.0)

[1] /Library/Frameworks/R.framework/Versions/4.1/Resources/library
