



## Chapter 3 Topic of Section

**Y**ou can write all your text in sections like this!

### 3.1 Subtopic

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

#### 3.1.1 Code examples

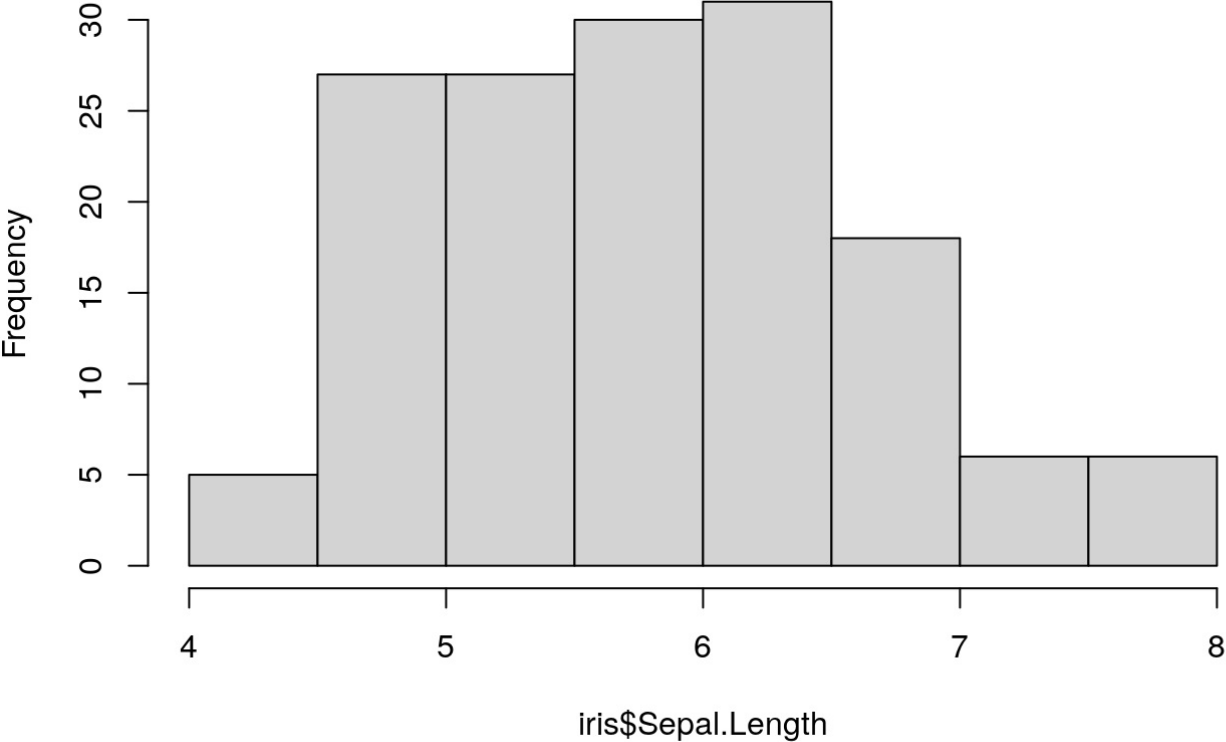
You can demonstrate code like this:

```
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)
```

Histogram of 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()
```

```
## png
```

```
## 2
```

### 3.1.2 Image example

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



Major point!!

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



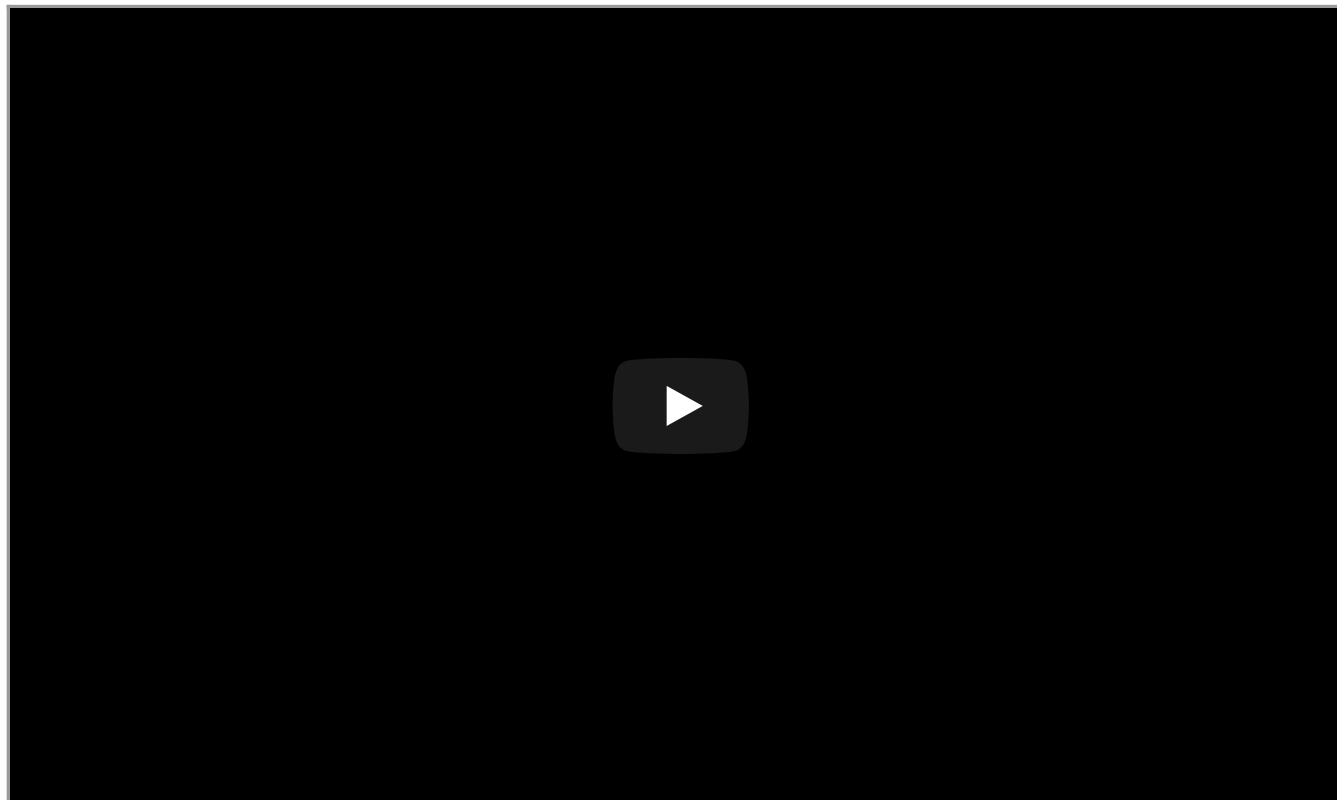
Major point!!

### 3.1.3 Video examples

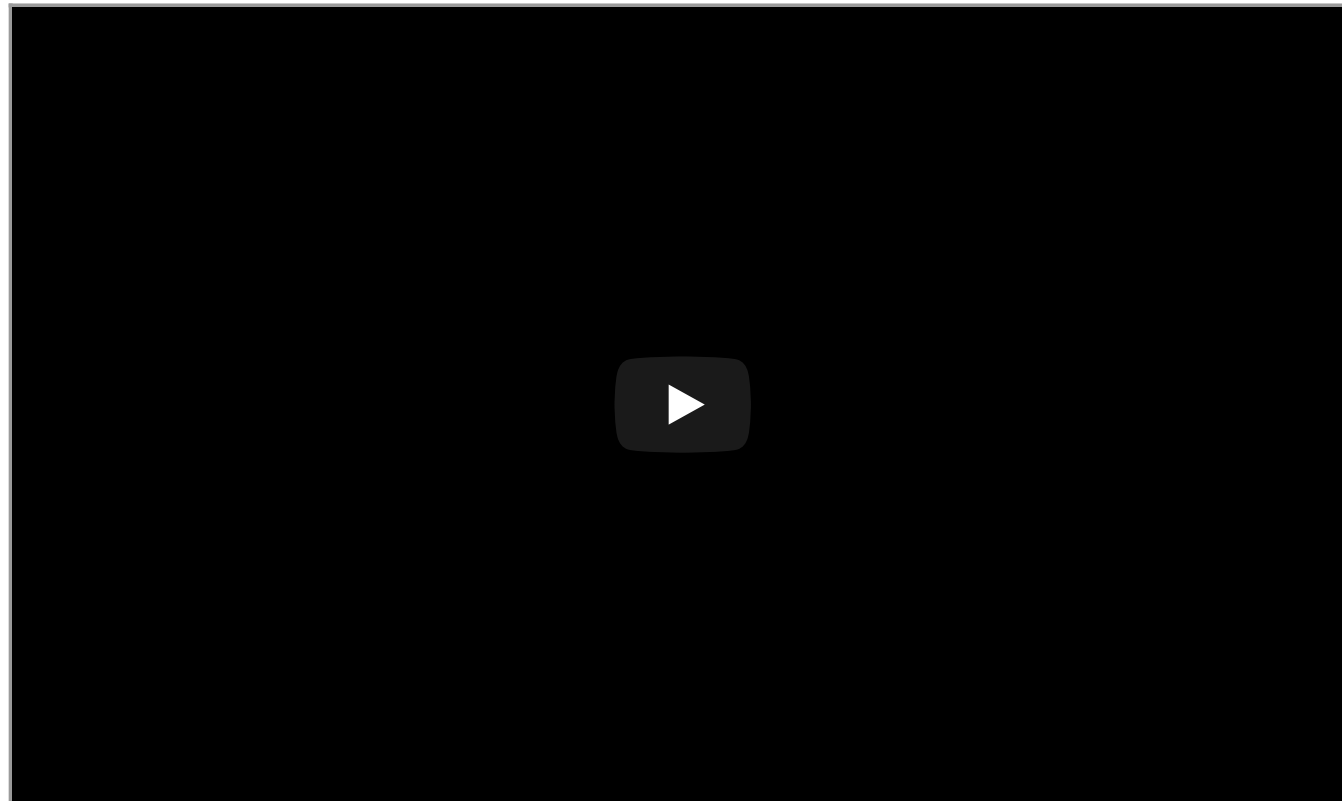
To show videos in your course, you can use markdown syntax like this:

[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:



### 3.1.4 Links to files

This works:

- Faculty & Staff

APPLY

VISIT

REQUEST INFO

- Quicklinks

- COVID-19 Resources
- Campus Directory
- News
- Events
- Contact us

APPLY

VISIT

REQUEST INFO

- Give

MESSIAH UNIVERSITY

Home

Sorry, this download is no longer available

Or this:

[This works.](#)

Or this:

- Future Students
- Current Students
- Visitors & Neighbors
- Alumni & Parents
- Faculty & Staff

APPLY

VISIT

REQUEST INFO

- Quicklinks
  - COVID-19 Resources
  - Campus Directory
  - News
  - Events
  - Contact us

APPLY

VISIT

REQUEST INFO

- Give

MESSIAH UNIVERSITY

Home



### 3.1.5 Links to websites

Examples of including a website link.

This works:

I’ m a software engineer working at RStudio, PBC. I earned my PhD from the Department of Statistics, Iowa State University. My thesis was Dynamic Graphics and Reporting for Statistics, advised by Di Cook and Heike Hofmann. I have developed a few R packages either seriously or for fun (or both), such as knitr, animation, bookdown, blogdown, pagedown, xaringan, and tinytex. I founded a Chinese website called “Capital of Statistics” in 2006, which has grown into a large online community on statistics. I initiated the Chinese R conference in 2008. I’ m a big fan of GitHub, LyX and Pandoc. I hate IE. I fall asleep when I see beamer slides, and I yell at people who use `\textbf{}` to write `\title{}`. I know I cannot eat code, so I cook almost every day to stay away from my computer for two hours.

这是谢益辉的个人主页。2013 年底我从 Ames 村办大学统计系毕业，终于解决了人生前 30 年被问最多的问题：“你怎么还没毕业？”目前就职于 RStudio。我支持开源，喜欢折腾网站和代码，是一个高度自我驱动的人。打羽毛球爱勾对角，打乒乓球像太极，网球满场子捡球，篮球容易被撞飞，攀岩一次，腿软。宅，口重，嗜辣，屡教不改。智商中等偏下，对麻将和三国杀有不可逾越的认知障碍，实变函数课上曾被老师叫醒。略好读书，偶尔也在网上乱翻帖子，对诗词楹联比较感兴趣，目前比较中意的一联是：千秋邈矣独留我；百战归来再读书。最喜欢的一首词是：

OR this:



Another link

OR this:

I’ m a software engineer working at RStudio, PBC. I earned my PhD from the Department of Statistics, Iowa State University. My thesis was Dynamic Graphics and Reporting for Statistics, advised by Di Cook and Heike Hofmann. I have developed a few R packages either seriously or for fun (or both), such as knitr, animation, bookdown, blogdown, pagedown, xaringan, and tinytex. I founded a Chinese website called “Capital of Statistics” in 2006, which has grown into a large online community on statistics. I initiated the Chinese R conference in 2008. I’ m a big fan of GitHub, LyX and Pandoc. I hate IE. I fall asleep when I see beamer slides, and I yell at people who use `\textbf{}` to write `\title{}`. I know I cannot eat code, so I cook almost every day to stay away from my computer for two hours.

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### 3.1.6 Citation examples

We can put citations at the end of a sentence like this ([Allaire et al. 2021](#)). Or multiple citations Xie, Allaire, and Grolemond ([2018](#)).

but they need a ; separator ([Allaire et al. 2021](#); [Xie, Allaire, and Grolemond 2018](#)).

In text, we can put citations like this Allaire et al. ([2021](#)).

### 3.1.7 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](#)).

### 3.1.8 Dropdown summaries

► You can hide additional information in a dropdown menu

## 3.2 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 4.0.2 (2020-06-22)  
## os Ubuntu 20.04.3 LTS  
## system x86_64, linux-gnu  
## ui X11  
## language (EN)  
## collate en_US.UTF-8  
## ctype en_US.UTF-8  
## tz Etc/UTC  
## date 2022-02-03  
##  
## - Packages -  
## package * version date lib source  
## assertthat 0.2.1 2019-03-21 [1] RSPM (R 4.0.3)  
## backports 1.1.10 2020-09-15 [1] RSPM (R 4.0.2)  
## bookdown 0.24 2022-01-26 [1] Github (rstudio/bookdown@88bc4ea)  
## callr 3.4.4 2020-09-07 [1] RSPM (R 4.0.2)  
## cli 2.0.2 2020-02-28 [1] RSPM (R 4.0.0)  
## crayon 1.3.4 2017-09-16 [1] RSPM (R 4.0.0)  
## curl 4.3 2019-12-02 [1] RSPM (R 4.0.3)  
## desc 1.2.0 2018-05-01 [1] RSPM (R 4.0.3)  
## devtools 2.3.2 2020-09-18 [1] RSPM (R 4.0.3)  
## digest 0.6.25 2020-02-23 [1] RSPM (R 4.0.0)  
## ellipsis 0.3.1 2020-05-15 [1] RSPM (R 4.0.3)  
## evaluate 0.14 2019-05-28 [1] RSPM (R 4.0.3)
```

##	fansi	0.4.1	2020-01-08	[1]	RSPM (R 4.0.0)
##	fs	1.5.0	2020-07-31	[1]	RSPM (R 4.0.3)
##	glue	1.6.1	2022-01-22	[1]	CRAN (R 4.0.2)
##	highr	0.8	2019-03-20	[1]	RSPM (R 4.0.3)
##	hms	0.5.3	2020-01-08	[1]	RSPM (R 4.0.0)
##	htmltools	0.5.0	2020-06-16	[1]	RSPM (R 4.0.1)
##	httr	1.4.2	2020-07-20	[1]	RSPM (R 4.0.3)
##	jquerylib	0.1.1	2020-04-30	[1]	RSPM (R 4.0.0)
##	knitr	1.33	2022-01-26	[1]	Github (yihui/knitr@a1052d1)
##	leanbuild	0.1.2	2022-01-26	[1]	Github (jhudsl/leanbuild@1d387e1)
##	lifecycle	1.0.0	2021-02-15	[1]	CRAN (R 4.0.2)
##	magrittr	* 1.5	2014-11-22	[1]	RSPM (R 4.0.0)
##	memoise	1.1.0	2017-04-21	[1]	RSPM (R 4.0.0)
##	pillar	1.4.6	2020-07-10	[1]	RSPM (R 4.0.2)
##	pkgbuild	1.1.0	2020-07-13	[1]	RSPM (R 4.0.2)
##	pkgconfig	2.0.3	2019-09-22	[1]	RSPM (R 4.0.3)
##	pkgload	1.1.0	2020-05-29	[1]	RSPM (R 4.0.3)
##	prettyunits	1.1.1	2020-01-24	[1]	RSPM (R 4.0.3)
##	processx	3.4.4	2020-09-03	[1]	RSPM (R 4.0.2)
##	ps	1.3.4	2020-08-11	[1]	RSPM (R 4.0.2)
##	purrr	0.3.4	2020-04-17	[1]	RSPM (R 4.0.3)
##	R6	2.4.1	2019-11-12	[1]	RSPM (R 4.0.0)
##	readr	1.4.0	2020-10-05	[1]	RSPM (R 4.0.2)
##	remotes	2.2.0	2020-07-21	[1]	RSPM (R 4.0.3)
##	rlang	0.4.10	2022-01-26	[1]	Github (r-lib/rlang@f0c9be5)
##	rmarkdown	2.10	2022-01-26	[1]	Github (rstudio/rmarkdown@02d3c25)
##	rprojroot	1.3-2	2018-01-03	[1]	RSPM (R 4.0.0)
##	sessioninfo	1.1.1	2018-11-05	[1]	RSPM (R 4.0.3)
##	stringi	1.5.3	2020-09-09	[1]	RSPM (R 4.0.3)
##	stringr	1.4.0	2019-02-10	[1]	RSPM (R 4.0.3)
##	testthat	3.0.1	2022-01-26	[1]	Github (R-lib/testthat@e99155a)
##	tibble	3.0.3	2020-07-10	[1]	RSPM (R 4.0.2)
##	usethis	2.1.5.9000	2022-01-26	[1]	Github (r-lib/usethis@57b109a)
##	vctrs	0.3.4	2020-08-29	[1]	RSPM (R 4.0.2)
##	withr	2.3.0	2020-09-22	[1]	RSPM (R 4.0.2)
##	xfun	0.26	2022-01-26	[1]	Github (yihui/xfun@74c2a66)

```
## yml 2.2.1 2020-02-01 [1] RSPM (R 4.0.3)
##
## [1] /usr/local/lib/R/site-library
## [2] /usr/local/lib/R/library
```

## References

Allaire, JJ, Yihui Xie, Jonathan McPherson, Javier Luraschi, Kevin Ushey, Aron Atkins, Hadley Wickham, Joe Cheng, Winston Chang, and Richard Iannone. 2021. *Rmarkdown: Dynamic Documents for r*. <https://github.com/rstudio/rmarkdown>.

Xie, Yihui, J. J. Allaire, and Garrett Grolemond. 2018. *R Markdown: The Definitive Guide*. Boca Raton, Florida: Chapman; Hall/CRC. <https://bookdown.org/yihui/rmarkdown>.

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