Course Name

November, 2021

Table of Contents

# About this Course

# 1 Introduction

## 1.1 Motivation

## 1.2 Target Audience

The course is intended for …

## 1.3 Curriculum

The course covers…

\*If you haven’t yet read the getting started Wiki pages; [start there](https://github.com/jhudsl/DaSL_Course_Template_Bookdown/wiki/Getting-started)

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

## 1.4 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}

## 1.5 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](https://github.com/jhudsl/DaSL_Course_Template_Bookdown/wiki/Using-Docker#starting-a-new-docker-image).

library(magrittr)

# 2 Topic of Section

You can write all your text in sections like this!

## 2.1 Subtopic

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

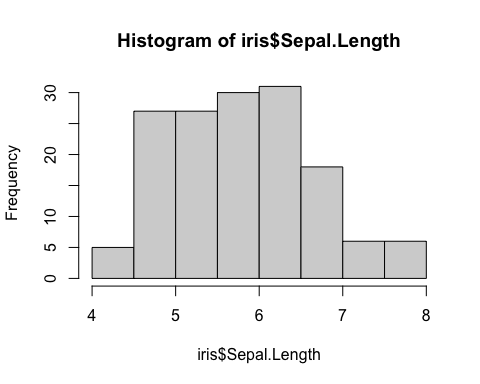
### 2.1.1 Code examples

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)



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()

## quartz\_off\_screen   
## 2

### 2.1.2 Image example

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



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

### 2.1.3 Video examples

You can use knitr::include\_url() like this:

knitr::include\_url("https://www.youtube.com/embed/VOCYL-FNbr0")

## PhantomJS not found. You can install it with webshot::install\_phantomjs(). If it is installed, please make sure the phantomjs executable can be found via the PATH variable.

OR this works:

### 2.1.4 Links to files

This works:

Or this:

[This works](https://www.messiah.edu/download/downloads/id/921/Microaggressions_in_the_Classroom.pdf).

Or this:

### 2.1.5 Links to websites

Examples of including a website link.

This works:

knitr::include\_url("https://yihui.org")

OR this:

![Another link](data:text/html; charset=utf-8;base64,)

Another link

OR this:

### 2.1.6 Citation examples

We can put citations at the end of a sentence like this ([Allaire et al. 2021](#ref-rmarkdown2021)). Or multiple citations [Xie, Allaire, and Grolemund](#ref-Xie2018) ([2018](#ref-Xie2018)).

but they need a ; separator ([Allaire et al. 2021](#ref-rmarkdown2021); [Xie, Allaire, and Grolemund 2018](#ref-Xie2018)).

In text, we can put citations like this [Allaire et al.](#ref-rmarkdown2021) ([2021](#ref-rmarkdown2021)).

## 2.2 Print out session info

sessionInfo()

## R version 4.0.5 (2021-03-31)  
## Platform: x86\_64-apple-darwin17.0 (64-bit)  
## Running under: macOS Big Sur 10.16  
##   
## Matrix products: default  
## BLAS: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRblas.dylib  
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRlapack.dylib  
##   
## locale:  
## [1] en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8  
##   
## attached base packages:  
## [1] stats graphics grDevices utils datasets methods base   
##   
## other attached packages:  
## [1] magrittr\_2.0.1  
##   
## loaded via a namespace (and not attached):  
## [1] Rcpp\_1.0.7 compiler\_4.0.5 pillar\_1.6.2 highr\_0.9   
## [5] pdftools\_3.0.1 prettyunits\_1.1.1 tools\_4.0.5 progress\_1.2.2   
## [9] digest\_0.6.27 jsonlite\_1.7.2 tibble\_3.1.3 evaluate\_0.14   
## [13] lifecycle\_1.0.0 pkgconfig\_2.0.3 rlang\_0.4.11 DBI\_1.1.1   
## [17] curl\_4.3.2 yaml\_2.2.1 xfun\_0.25 fastmap\_1.1.0   
## [21] ariExtra\_0.3.1 stringr\_1.4.0 httr\_1.4.2 dplyr\_1.0.7   
## [25] knitr\_1.33 xml2\_1.3.2 askpass\_1.1 generics\_0.1.0   
## [29] vctrs\_0.3.8 hms\_1.1.0 tidyselect\_1.1.1 webshot\_0.5.2   
## [33] glue\_1.4.2 qpdf\_1.1 R6\_2.5.1 fansi\_0.5.0   
## [37] ari\_0.4.1 rmarkdown\_2.10 bookdown\_0.23 purrr\_0.3.4   
## [41] tuneR\_1.3.3.1 docxtractr\_0.6.5 ellipsis\_0.3.2 htmltools\_0.5.2   
## [45] MASS\_7.3-53.1 assertthat\_0.2.1 leanbuild\_0.1.2 rvest\_1.0.1   
## [49] utf8\_1.2.2 text2speech\_0.3.0 stringi\_1.7.3 signal\_0.7-7   
## [53] crayon\_1.4.1

# About the Authors

These credits are based on our [course contributors table guidelines](https://github.com/jhudsl/DaSL_Course_Template_Bookdown/wiki/How-to-give-credits).

|  |  |
| --- | --- |
| Credits | Names |
| **Pedagogy** |  |
| Lead Content Instructor(s) | [FirstName LastName](link%20to%20personal%20website) |
| Lecturer(s) (include chapter name/link in parentheses if only for specific chapters) - make new line if more than one chapter involved | Delivered the course in some way - video or audio |
| Content Author(s) (include chapter name/link in parentheses if only for specific chapters) - make new line if more than one chapter involved | If any other authors besides lead instructor |
| Content Contributor(s) (include section name/link in parentheses) - make new line if more than one section involved | Wrote less than a chapter |
| Content Editor(s)/Reviewer(s) | Checked your content |
| Content Director(s) | Helped guide the content direction |
| Content Consultants (include chapter name/link in parentheses or word “General”) - make new line if more than one chapter involved | Gave high level advice on content |
| Acknowledgments | Gave small assistance to content but not to the level of consulting |
| **Production** |  |
| Content Publisher(s) | Helped with publishing platform |
| Content Publishing Reviewer(s) | Reviewed overall content and aesthetics on publishing platform |
| **Technical** |  |
| Course Publishing Engineer(s) | Helped with the code for the technical aspects related to the specific course generation |
| Template Publishing Engineers | [Candace Savonen](https://www.cansavvy.com/), [Carrie Wright](https://carriewright11.github.io/) |
| Publishing Maintenance Engineer | [Candace Savonen](https://www.cansavvy.com/) |
| Technical Publishing Stylists | [Carrie Wright](https://carriewright11.github.io/), [Candace Savonen](https://www.cansavvy.com/) |
| Package Developers ([Leanbuild](https://github.com/jhudsl/leanbuild)) | [John Muschelli](https://johnmuschelli.com/), [Candace Savonen](https://www.cansavvy.com/), [Carrie Wright](https://carriewright11.github.io/) |
| **Art and Design** |  |
| Illustrator(s) | Created graphics for the course |
| Figure Artist(s) | Created figures/plots for course |
| Videographer(s) | Filmed videos |
| Videography Editor(s) | Edited film |
| Audiographer(s) | Recorded audio |
| Audiography Editor(s) | Edited audio recordings |
| **Funding** |  |
| Funder(s) | Institution/individual who funded course including grant number |
| Funding Staff | Staff members who help with funding |

## ─ Session info ───────────────────────────────────────────────────────────────  
## setting value   
## version R version 4.0.5 (2021-03-31)  
## 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 2021-11-03   
##   
## ─ Packages ───────────────────────────────────────────────────────────────────  
## package \* version date lib source   
## bookdown 0.23 2021-08-13 [1] CRAN (R 4.0.5)   
## cachem 1.0.6 2021-08-19 [1] CRAN (R 4.0.5)   
## callr 3.7.0 2021-04-20 [1] CRAN (R 4.0.2)   
## cli 3.0.1 2021-07-17 [1] CRAN (R 4.0.2)   
## crayon 1.4.1 2021-02-08 [1] CRAN (R 4.0.2)   
## desc 1.3.0 2021-03-05 [1] CRAN (R 4.0.2)   
## devtools 2.4.0 2021-04-07 [1] CRAN (R 4.0.2)   
## digest 0.6.27 2020-10-24 [1] CRAN (R 4.0.2)   
## ellipsis 0.3.2 2021-04-29 [1] CRAN (R 4.0.2)   
## evaluate 0.14 2019-05-28 [1] CRAN (R 4.0.1)   
## fastmap 1.1.0 2021-01-25 [1] CRAN (R 4.0.2)   
## fs 1.5.0 2020-07-31 [1] CRAN (R 4.0.2)   
## glue 1.4.2 2020-08-27 [1] CRAN (R 4.0.2)   
## htmltools 0.5.2 2021-08-25 [1] CRAN (R 4.0.2)   
## knitr 1.33 2021-08-23 [1] Github (yihui/knitr@a1052d1)   
## lifecycle 1.0.0 2021-02-15 [1] CRAN (R 4.0.2)   
## magrittr 2.0.1 2020-11-17 [1] CRAN (R 4.0.2)   
## memoise 2.0.0 2021-01-26 [1] CRAN (R 4.0.2)   
## pkgbuild 1.2.0 2020-12-15 [1] CRAN (R 4.0.2)   
## pkgload 1.2.1 2021-04-06 [1] CRAN (R 4.0.2)   
## prettyunits 1.1.1 2020-01-24 [1] CRAN (R 4.0.2)   
## processx 3.5.2 2021-04-30 [1] CRAN (R 4.0.2)   
## ps 1.6.0 2021-02-28 [1] CRAN (R 4.0.2)   
## purrr 0.3.4 2020-04-17 [1] CRAN (R 4.0.2)   
## R6 2.5.1 2021-08-19 [1] CRAN (R 4.0.5)   
## remotes 2.3.0 2021-04-01 [1] CRAN (R 4.0.2)   
## rlang 0.4.11 2021-04-30 [1] CRAN (R 4.0.2)   
## rmarkdown 2.10 2021-08-23 [1] Github (rstudio/rmarkdown@02d3c25)  
## rprojroot 2.0.2 2020-11-15 [1] CRAN (R 4.0.2)   
## sessioninfo 1.1.1 2018-11-05 [1] CRAN (R 4.0.2)   
## stringi 1.7.3 2021-07-16 [1] CRAN (R 4.0.2)   
## stringr 1.4.0 2019-02-10 [1] CRAN (R 4.0.2)   
## testthat 3.0.2 2021-02-14 [1] CRAN (R 4.0.2)   
## usethis 2.0.1 2021-02-10 [1] CRAN (R 4.0.2)   
## withr 2.4.2 2021-04-18 [1] CRAN (R 4.0.2)   
## xfun 0.25 2021-08-06 [1] CRAN (R 4.0.2)   
## yaml 2.2.1 2020-02-01 [1] CRAN (R 4.0.2)   
##   
## [1] /Library/Frameworks/R.framework/Versions/4.0/Resources/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 Grolemund. 2018. *R Markdown: The Definitive Guide*. Boca Raton, Florida: Chapman; Hall/CRC. <https://bookdown.org/yihui/rmarkdown>.