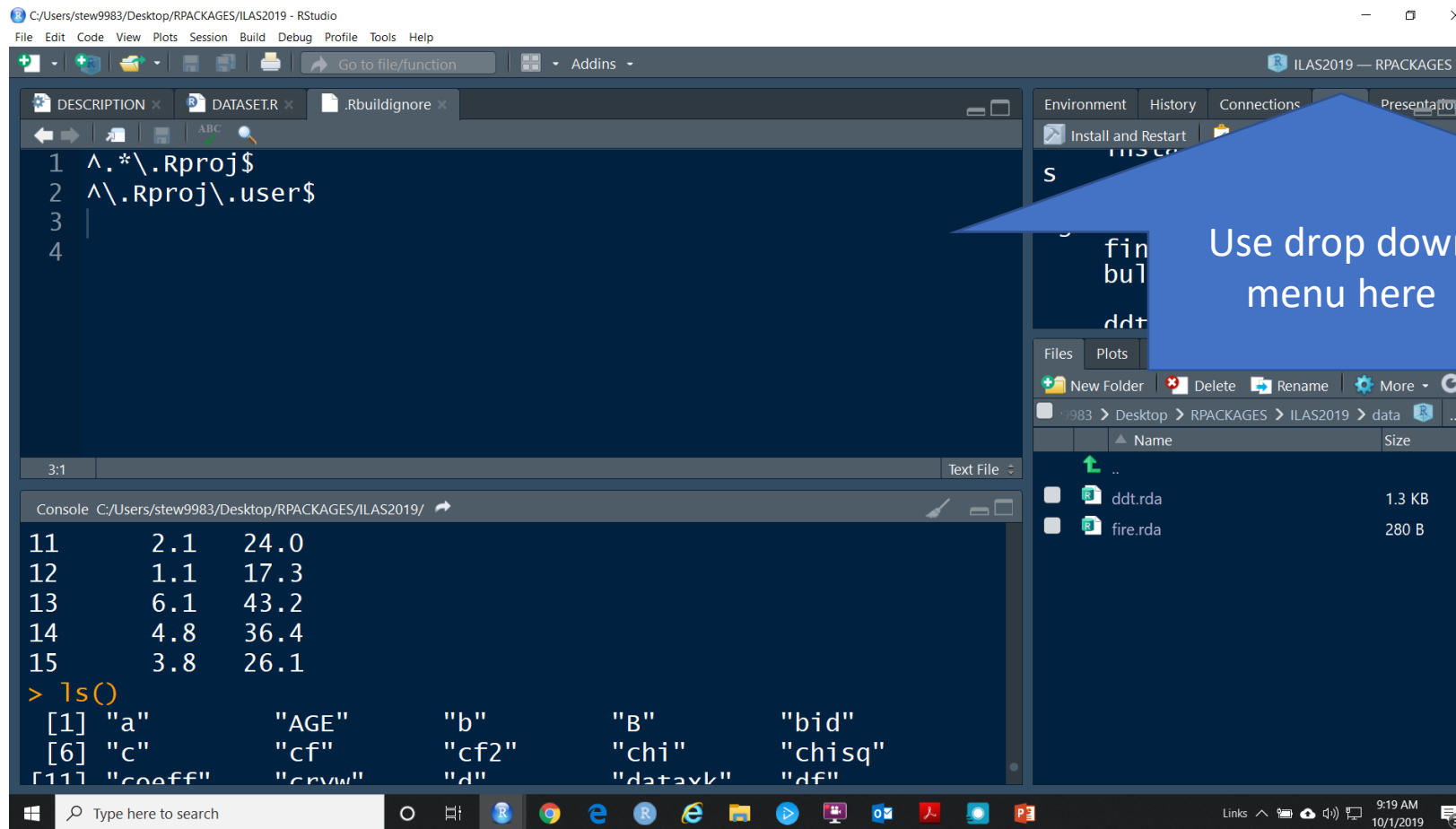




Adding data to a package

Wayne Stewart

Load package project into R studio



Read data into work space

```
fire = read.csv(file.choose())
```

Make sure that you have package 'usethis' installed

```
usethis::use_data(fire)
```

Document the data by creating a fire.R file in the R folder

#' Fire damage

#'

#' A data set collected concerning home damage from fire

#'

#' @format A data frame with 15 rows and 2 variables:

#' \describe{

```
#' \item{DISTANCE}{distance from fire station in miles}
```

```
#' \item{DAMAGE}{X 1000 dollars in damage}
```

 $\#'$ }

#' @source \url{https://www.crcpress.com/Statistics-for-Engineering-and-the-Sciences/Mendenhall-Sincich/p/book/9781498728850}

"fire"

Now you can build and install the package

```
devtools::install(build_vignettes=TRUE)
```

Now see if the data is in the package

ILAS2019::fire

Check that the documentation has been built

The screenshot displays the RStudio interface with the 'fire' dataset documentation open. The left pane shows the source code for the dataset, including comments and the data frame structure. The middle pane displays the documentation for the 'fire' dataset, including its description, usage, format, and source. The right pane shows the 'R Documentation' window with the same information. A blue arrow points to the console output, which shows the command `?fire` being executed.

```
fire {ILAS2019}

Fire damage

Description
A data set collected concerning home damage from fire

Usage
fire

Format
A data frame with 15 rows and 2 variables:
  DISTANCE
    distance from fire station in miles
  DAMAGE
    X 1000 dollars in damage

Source
https://www.crcpress.com/Statistics-for-Engineering-and-the-Sciences/Mendenhall-Sincich/p/book/9781498728850

[Package ILAS2019 version 0.1.0 Index]
```

Environment History Connections Build Presentation
Install and Restart Check More
S
converting help for pack
age 'ILAS2019'
finding HTML links ...
bullseye
html
dd+

Files Plots Packages Help Viewer
R: Fire damage Find in Topic
fire {ILAS2019} R Documentation
Fire damage
Description
A data set collected concerning home damage from fire
Usage
fire
Format

Console C:/Users/stew9983/Desktop/RPACKAGES/ILAS2019
[51] "prod" "q"
[56] "rsqdash" "s11"
[61] "t" "tab"
[66] "x" "x"
[71] "xr" "y"
> library(ILAS2019)
> ?fire
>

?fire

ROCK and ROLL man!!

Shiver me timbers!! I'm
back with more goodies!

R R R R R



```
nc
ter =
# vect
lambd
# mat
mat[
5
46-
47
48
49
50
51
52
53
54
1.1
(Top Level) :

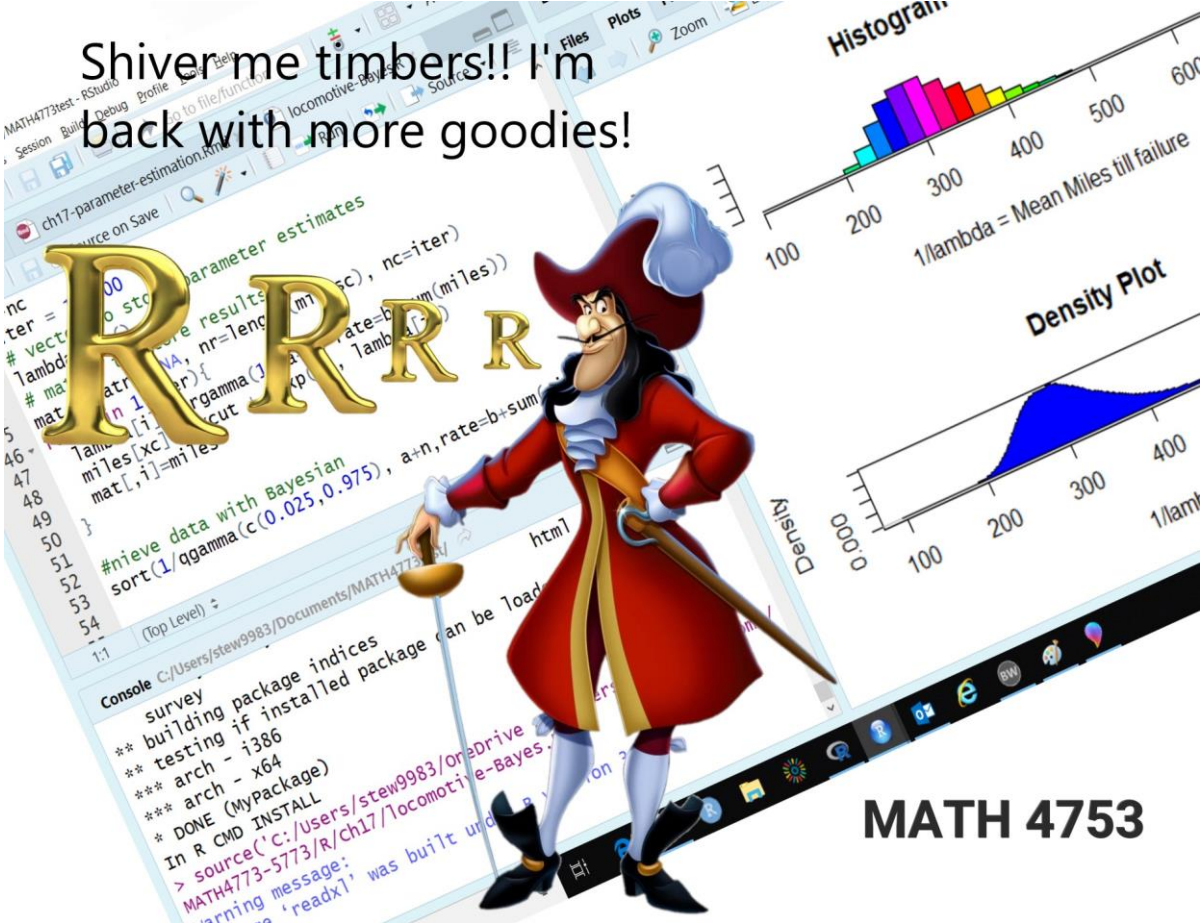
Console C:/Users/stew9983/Documents/MATH4773
survey
** building package indices
** testing if installed package can be load
*** arch - i386
*** arch - x64
*** arch (MyPackage)
* DONE (MyPackage)
In R CMD INSTALL
> source('C:/Users/stew9983/OneDrive
MATH4773-5773/R/ch17/locomotive-Bayes-
Warning message:
  'read1' was built under a different 'read1'
```

Shiver me timbers!! I'm
back with more goodies!

R R R R R



The background is a collage of RStudio interface elements. At the top, a menu bar shows 'Files', 'Plots', and 'Zoom'. Below it, a toolbar contains icons for 'Session', 'Build', 'Debug', 'Profile', 'Tools', 'Help', 'to file/function', 'locomotive-Bayes', and 'Source'. A code editor window displays R code for parameter estimation using the 'locomotive-Bayes' package. The code includes comments like '#ch17-parameter-estimation.R', '#source on Save', and '#more results (m, nc=iter)'. It defines variables like 'lambda', 'gamma', 'a', 'n', 'rate', and 'b', and uses functions like 'qgamma' and 'sort'. A console window at the bottom shows the output of the code, including the message 'survey building package indices' and 'testing if installed package can be loaded'. The console also shows the R command 'source' being executed, and a warning message about the 'readxl' package being built under a different version of R.

[illegible]