

EDS Vignettes

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2020-05-28

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Prerequisites

The following tutorials are written in R. To install R on your computer, please visit this link: <https://www.r-project.org/> You should also install RStudio: <https://rstudio.com/products/rstudio/download/>

We will use the packages in the **tidyverse** library:

```
install.packages("tidyverse")
```

We will use a sample data from the Yale Program on Climate Change Communication: the hurricane survey data

Chapter 1

Reading

In this section, we learn how to read data from different file format.

1.1 CSV

Reading csv with column headers and separated by ,. These parameters are also the default values for the `read.csv` function.

```
data <- read.csv(file = '/path/to/csv', header = TRUE, sep = ',')  
  
# Example  
data <- read.csv(file = 'data/eds.data.hurricane.csv', header = TRUE)
```

1.2 Excel

The main advantage of Excel files is that they can store multiple tables. But reading these tables at once is different from a CSV. For this example, we're going to use the `readxl` package from the `tidyverse` collection. Please visit this [website] (<https://www.tidyverse.org/>) to learn more about `tidyverse`.

To read an excel file, you can use the `read_excel` function and specify at least the `path/to/the/file` and `sheet` you want to open. If you don't specify the `sheet`, `read_excel` will automatically open the first table in the spreadsheet. In the 'eds.excel.sample.xlsx' file, there are 2 tables: heatwave and hurricane. Here's how we load both tables into R:

```
library(readxl)  
heatwave <- read_excel(path='data/eds.excel.sample.xlsx', sheet = 'heatwave')  
hurricane <- read_excel(path='data/eds.excel.sample.xlsx', sheet = 'hurricane')
```

Once the tables are stored into individual R variable, you can perform exploration and analysis with them.

1.3 Google Spreadsheets

If the data is stored in a Google spreadsheet, we can read it using the `googledrive` and `googlesheet4` packages. We use the `googledrive` package to log into our Google Drive account and `googlesheets4` to read the spreadsheets in our drive.

In the example below, I used a spreadsheet named `eds.sample.googlesheets` which contains the same tables in the previous Excel example (heatwave and hurricane). You can clone the spreadsheet via this [link] (<https://drive.google.com/open?id=1uIsgrcsevbm9voZU-rzqhTg2LE5SgEPlGabSXKTcQtc>) if you'd like to repeat the steps below using your Google account.

Then authenticate to your drive using `drive_auth()`. When prompted: log in, authorized `googledrive`, and use the authorization code if provided. You only need to run `drive_auth()` once.

```
library(googledrive)
# To authenticate and authorize googledrive package
drive_auth()
```

The following scripts show how to explore a Google Drive folder. Though this is not recommended as you might encounter performance issues.

```
# NOT recommended
# Then, to view the list of files in a folder
drive_ls("EDS") # where "EDS" is the folder name
# To also get the files within the subfolders
drive_ls("EDS", recursive = TRUE)
# To view the list of spreadsheets within a folder
drive_ls("EDS", type="spreadsheet")
```

Also, because of Google authentication system, you may run into an error like below when running the previous code (using `drive_ls()`). Which is why it's not recommended.

```
#> Error in add_id_path(nodes, root_id = root_id, leaf = leaf) : !anyDuplicated(nodes$
```

To avoid this, you can use the folder url instead of the folder name. The folder url can be obtained by right-clicking on the folder and click `Get shareable link`. Then run the following code:

```
# If using folder name doesn't work
folder_url = 'https://drive.google.com/open?id=1e0uJ9dwFcL34JA61F0tGSoaiMZ_xio_4'
drive_ls(folder_url, type="spreadsheet")
```

Then you can load the spreadsheet by using its id

```
eds.sample.spreadsheet <- drive_get(id = '1uIsgrcsevbm9voZU-rzqhTg2LE5SgEP1GabSXKTcQtc')
```

It is also possible to read the spreadsheet right way by using its link/path (without using `drive_ls()`). I recommend using this to read any Google Drive files.

```
eds.sample.spreadsheet <- drive_get(path = 'https://drive.google.com/open?id=1uIsgrcsevbm9voZU-rz...')
```

Once the spreadsheet is loaded, we run a similar code used for the Excel files to read tables within the spreadsheet. But for Google Sheets, function is called `read_sheet`

```
library(googlesheets4)
# Authorizing the googlesheets4 package
sheets_auth(token=drive_token())
# Reading the tables
heatwave <- read_sheet(eds.sample.spreadsheet, sheet = 'heatwave')
hurricane <- read_sheet(eds.sample.spreadsheet, sheet = 'hurricane')
```

1.4 SPSS

```
library(haven)
data <- read_sav("data/eds.spss.sample.sav")
```

By default, the `read_sav()` will read the factor levels of non-numeric and non-character variables. If, instead, we want the labels, we can run the following code:

```
library(magrittr)
library(dplyr)
# Applying haven::as_factor() to labelled columns Here, we already know that
# variables Zone, Q4 and Q50 are not factor variables.
data %>% mutate_at(vars(-Zone, -Q4, -Q50), as_factor)

## # A tibble: 1,130 x 9
##   Zone    Q4 Q5      Q6    Q7          Q10    Q50 Q51    Q59
##   <chr> <dbl> <fct> <fct> <fct> <dbl> <fct> <fct>
## 1 A        2 3      0     Moderately Pr... No     1928 Male   $70,000-$99...
## 2 A        1 4      0     Moderately Pr... No     1962 Male   <NA>
## 3 A        3 4      0     Moderately Pr... No     1931 Fema... Over $200,0...
## 4 A        3 6      1     Fully Prepared No   1950 Male   $100,000-$1...
## 5 A        2 Not Worried ... 0     Very Prepared No   1948 Male   $100,000-$1...
## 6 A        5 4      0     Very Prepared No   1938 Fema... <NA>
## 7 A        3 6      1     Moderately Pr... No     1977 Fema... <NA>
## 8 A        5 4      0     Moderately Pr... No     1964 Fema... <NA>
## 9 A        1 3      0     Moderately Pr... No     1976 Male   $40,000-$69...
```

```
## 10 A          2 6          0      Very Prepared  No      1964 Fema... Over $200,0...
## # ... with 1,120 more rows
```

Because variables can be labelled in SPSS, we can use them as well to find out what each column represents.

```
# To get the labels of the variables / columns
as.vector(unlist(lapply(data, function(x) attributes(x)$label)))
```

```
## [1] "Q4. Since the beginning of 2009, how many hurricanes and tropical storms, if any, have you experienced?"  
## [2] "Q5. Generally speaking, when a hurricane or tropical storm is approaching your area, do you feel prepared?"  
## [3] "Q6. Since the beginning of 2009, how many times, if ever, did you leave your home because of a storm?"  
## [4] "Q7. Generally speaking, how prepared were you for the storm(s) you experienced?"  
## [5] "Q10. Before Superstorm Sandy hit your area, did you leave your home to go somewhere else?"  
## [6] "Q50. In what year were you born?"  
## [7] "Q51. Are you...?"  
## [8] "Q59. Last year (in 2013), what was your total HOUSEHOLD income from all sources?"
```

To learn more about the haven package and how the variables are stored, please visit: <https://haven.tidyverse.org/>

Chapter 2

Extraction

2.1 Web Scraping

Web scraping is the process of fetching and extracting information / data from a webpage. It is very useful if you want to create a dynamic database that updates based on the content of a specific website.

To scrap a webpage, we first need to know how to get to the webpage, a url that you can use to directly access the content. For example, to obtain the Google search results for “data science”, you can simply copy and paste this url to your browser: <https://www.google.com/search?q=data+science>, without having to type “data science” on a Google search web page. Some websites like Twitter or Facebook will require to you to use an API and authenticate in order to access some of their data.

For this example, we’re going to use The Weather Channel website which do not require authentication. We’ll extract the 10-day forecast for a specific location and store the data in a dataframe.

After inspecting the website and it’s url, I have noticed that you can view the weather data by zip code using this url pattern:

```
https://weather.com/weather/ + forecast type + /l/ + zip_code +  
:4:US
```

For example, if we want to view the 10-day forecast for New Haven, we can go to: <https://weather.com/weather/tenday/l/06511:4:US>. And for today’s forecast: <https://weather.com/weather/today/l/06511:4:US>

Once we have the webpage url, we can read it into R and extract the data using `rvest` from the `tidyverse` collection.

The New Haven 10-day forecast webpage looks like this:

The screenshot shows the homepage of The Weather Channel. At the top, there's a search bar with the placeholder "Show me the weather in... city, zip, or place". Below it, the location is set to "43° New Haven, CT". The navigation menu includes "Today", "Hourly", "5 Day", "10 Day", "Weekend", "Monthly", "Maps", and "More Forecasts". A prominent advertisement for the "THE ALL-NEW RAM 1500" is displayed, featuring a red pickup truck and the text "MEET THE MOST CAPABLE RAM 1500 EVER".

| New Haven, CT 10 Day Weather | | | | | |
|------------------------------|-------------------|------------|--------|------------|----------|
| DAY | DESCRIPTION | HIGH / LOW | PRECIP | WIND | HUMIDITY |
| TONIGHT NOV 19 | Cloudy | ~38° | 10% | N 6 mph | 80% |
| WED NOV 20 | Cloudy | 44°/35° | 10% | NNW 11 mph | 70% |
| THU NOV 21 | Mostly Sunny | 52°/41° | 0% | NW 9 mph | 55% |
| FRI NOV 22 | PM Showers | 57°/31° | 40% | WSW 14 mph | 68% |
| SAT NOV 23 | Partly Cloudy | 46°/35° | 10% | W 8 mph | 50% |
| SUN NOV 24 | AM Showers | 44°/33° | 40% | NNW 11 mph | 68% |
| MON NOV 25 | Mostly Sunny | 49°/33° | 10% | WNW 9 mph | 60% |
| TUE NOV 26 | Mostly Sunny | 53°/41° | 10% | W 7 mph | 61% |
| WED NOV 27 | Showers | 56°/41° | 50% | SSE 12 mph | 76% |
| THU NOV 28 | AM Showers | 49°/36° | 40% | WNW 14 mph | 59% |
| FRI NOV 29 | PM Showers | 47°/37° | 40% | NNW 11 mph | 58% |
| SAT NOV 30 | Partly Cloudy | 48°/40° | 20% | NW 11 mph | 65% |
| SUN DEC 1 | Showers | 46°/35° | 40% | NW 13 mph | 59% |
| MON DEC 2 | Rain/Snow Showers | 44°/33° | 30% | WNW 13 mph | 55% |
| TUE DEC 3 | Partly Cloudy | 43°/33° | 20% | WNW 12 mph | 57% |

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Figure 2.1: weatherpage

Basically, what we want is the table that has the weather information. In order to extract the values that we want, we have to know where in the source code they are located. For example, in the “DAY” column, we want to extract the `exact date` instead of the `days of the week`. And we can do that by:

- inspecting the tag or class of exact date from the website. Move the cursor to the exact date, right-click, then choose `Inspect`
- then, a window will open, which will point directly to the location of the `exact date` in the source code. Take notes of the css (tag or class name), and use it to get the `exact date` value using the `html_nodes()` function.

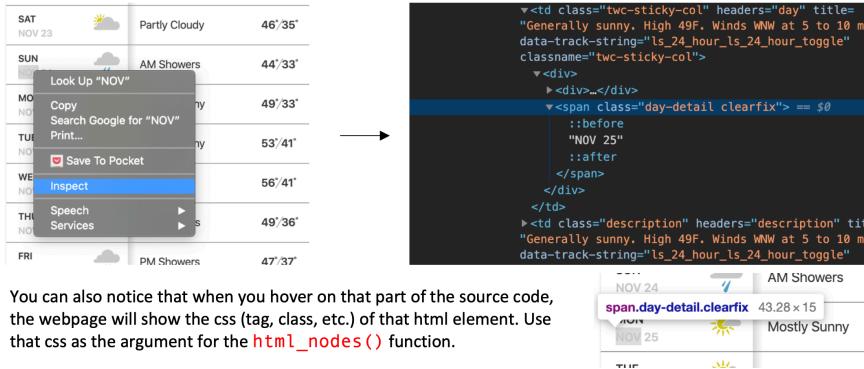


Figure 2.2: weatherpage

Here is how we extract the dates:

```
library(rvest)
# Get the webpage url
url = 'https://weather.com/weather/tenday/l/06511:4:US'
# Load the webpage using the url
webpage <- read_html(url)

# Getting the exact date
# Filtering the relevant css / location
date_locations <- html_nodes(webpage, "span.day-detail.clearfix")
# Extracting the exact value
raw_date <- html_text(date_locations)
raw_date

## [1] "MAY 27" "MAY 28" "MAY 29" "MAY 30" "MAY 31" "JUN 1"   "JUN 2"   "JUN 3"
## [9] "JUN 4"  "JUN 5"  "JUN 6"  "JUN 7"  "JUN 8"  "JUN 9"  "JUN 10"
# Because the value are formatted like "NOV 21" we have to convert to a date format
exact_date <- as.Date(raw_date, format="%b %d") # b = month, d = day
exact_date
```

```
## [1] "2020-05-27" "2020-05-28" "2020-05-29" "2020-05-30" "2020-05-31"
## [6] "2020-06-01" "2020-06-02" "2020-06-03" "2020-06-04" "2020-06-05"
## [11] "2020-06-06" "2020-06-07" "2020-06-08" "2020-06-09" "2020-06-10"
```

And here is the full code that extract the complete table:

```
library(rvest)
# Get the webpage url
url = 'https://weather.com/weather/tenday/l/06511:4:US'
# Load the webpage using the url
webpage <- read_html(url)

# Getting the exact date
# Filtering the relevant css / location
date_locations <- html_nodes(webpage, "span.day-detail.clearfix")
# Extracting the exact value
raw_date <- html_text(date_locations)
# Because the value are formatted like "Nov 21" we have to convert to a date format
exact_date <- as.Date(raw_date, format="%b %d") # b = month, d = day

# Getting the weather description
desc_loc <- html_nodes(webpage, "td.description")
desc <- html_text(desc_loc)

# Getting the temperature
temp_loc <- html_nodes(webpage, "td.temp")
temp <- html_text(temp_loc)
# High and Low temperature values
high_temp <- rep(NA, length(temp))
low_temp <- rep(NA, length(temp))
for (i in 1:length(temp)){
  all <- unlist(strsplit(temp[i], "°"))
  if (length(all) > 1){
    high_temp[i] <- all[1]
    low_temp[i] <- all[2]
  } else {
    low_temp[i] <- 38
  }
}

# Getting the precipitation
precip_loc <- html_nodes(webpage, "td.precip")
precip <- as.numeric(sub("%", "", html_text(precip_loc))) / 100

# Getting the wind
wind_loc <- html_nodes(webpage, "td.wind")
```

```

wind <- html_text(wind_loc)
# Wind direction and speed
wind_dir <- rep(NA, length(wind))
wind_speed <- rep(NA, length(wind))
for (i in 1:length(wind)){
  all <- unlist(strsplit(wind[i], " "))
  wind_dir[i] <- all[1]
  wind_speed[i] <- all[2]
}

# Getting the humidity
humidity_loc <- html_nodes(webpage, "td.humidity")
humidity <- as.numeric(sub("%", "", html_text(humidity_loc))) / 100

# Save the data in tibble
library(tibble)
new_haven_forecast <- tibble('day' = exact_date, 'description' = desc,
                             'high_temp' = high_temp, 'low_temp' = low_temp,
                             'precip' = precip, 'wind_dir' = wind_dir,
                             'wind_speed' = wind_speed, 'humidity' = humidity)
new_haven_forecast

## # A tibble: 15 x 8
##   day      description high_temp low_temp precip wind_dir wind_speed himidity
##   <date>    <chr>        <chr>     <dbl>   <dbl>   <chr>       <dbl>
## 1 2020-05-27 Showers La...     38      0.4 S      9      0.87
## 2 2020-05-28 Showers      70      64      0.4 S      8      0.88
## 3 2020-05-29 AM Showers    71      64      0.6 S     10      0.87
## 4 2020-05-30 Showers      77      58      0.6 SW     8      0.68
## 5 2020-05-31 Mostly Sun...   70      49      0.1 NW     10      0.51
## 6 2020-06-01 Partly Clo...   67      48      0.1 NNW    12      0.4
## 7 2020-06-02 Mostly Sun...   68      52      0.1 NW     10      0.41
## 8 2020-06-03 Partly Clo...   70      58      0.2 SW     9      0.52
## 9 2020-06-04 Partly Clo...   75      58      0.2 SW     9      0.65
## 10 2020-06-05 AM Showers   73      57      0.4 ESE    8      0.63
## 11 2020-06-06 Scattered ... 75      58      0.4 WSW    9      0.62
## 12 2020-06-07 Partly Clo... 76      57      0.2 WNW    9      0.59
## 13 2020-06-08 Partly Clo... 76      58      0.2 W      9      0.570
## 14 2020-06-09 Partly Clo... 76      60      0.2 NNE    9      0.580
## 15 2020-06-10 Partly Clo... 76      58      0.2 E      9      0.55

```


Chapter 3

Structuring

Data structuring is the process of correcting or removing inaccurate records of a “raw data” so that, after the treatment, the transformed data will be easy to analyze and/or consistent with an existing dataset. More explicitly, the variable names, types, and values will be consistent and uniform. The focus here is on the ‘appearance’ of the data.

3.1 Inspecting the data

In order to structure a dataset, first, we need to be able to detect the anomalies within the data. Types of anomalies include the values that are stored in the wrong format (ex: a number stored as a string), the values that fall outside of the expected range (ex: outliers), values with inconsistent patterns (ex: dates stored as mm/dd/year vs dd/mm/year), trailing spaces in strings (ex: “data” vs “data”), etc.

One method of detecting these anomalies is the summary statistics of the variables, which can be obtained by using `summary()`. Here is an example using the hurricane data:

```
# Structure of the data
str(data[,1:3])

## Classes 'tbl_df', 'tbl' and 'data.frame':    1130 obs. of  3 variables:
## $ Zone: chr  "A" "A" "A" "A" ...
##   ..- attr(*, "format.spss")= chr "A9"
##   ..- attr(*, "display_width")= int 1
## $ Q4  : num  2 1 3 3 2 5 3 5 1 2 ...
##   ..- attr(*, "label")= chr "Q4. Since the beginning of 2009, how many hurricanes and tropical
##   ..- attr(*, "format.spss")= chr "F2.0"
##   ..- attr(*, "display_width")= int 2
```

```

## $ Q5 : 'haven_labelled' num 3 4 4 6 1 4 6 4 3 6 ...
## ..- attr(*, "label")= chr "Q5. Generally speaking, when a hurricane or tropical s
## ..- attr(*, "format.spss")= chr "F1.0"
## ..- attr(*, "labels")= Named num 1 7
## ... .- attr(*, "names")= chr "Not Worried At All" "Extremely Worried"

# Summary for a numerical variables
summary(data$Q4)

##   Min. 1st Qu. Median   Mean 3rd Qu.   Max. NA's
## 0.000  2.000  2.000  2.537  3.000 20.000 134

# Summary for a categorical variable
summary(as_factor(data$Q7))

##      Fully Prepared      Very Prepared Moderately Prepared A Little Prepared
##                 93                  326                  438                  137
## Not at all Prepared
##                         NA's
##                 22                  114

```

Other ways of exploring the data include:

```

# First 10 rows
head(data, 10)

## # A tibble: 10 x 9
##   Zone    Q4      Q5      Q6      Q7      Q10     Q50     Q51      Q59
##   <chr> <dbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl+lbl>
## 1 A        2 3          0 3 [Moderate... 2 [No] 1928 1 [Mal... 4 [$70,00...
## 2 A        1 4          0 3 [Moderate... 2 [No] 1962 1 [Mal... NA
## 3 A        3 4          0 3 [Moderate... 2 [No] 1931 2 [Fem... 6 [Over $...
## 4 A        3 6          1 1 [Fully Pr... 2 [No] 1950 1 [Mal... 5 [$100,0...
## 5 A        2 1 [Not Worr... 0 2 [Very Pre... 2 [No] 1948 1 [Mal... 5 [$100,0...
## 6 A        5 4          0 2 [Very Pre... 2 [No] 1938 2 [Fem... NA
## 7 A        3 6          1 3 [Moderate... 2 [No] 1977 2 [Fem... NA
## 8 A        5 4          0 3 [Moderate... 2 [No] 1964 2 [Fem... NA
## 9 A        1 3          0 3 [Moderate... 2 [No] 1976 1 [Mal... 3 [$40,00...
## 10 A       2 6          0 2 [Very Pre... 2 [No] 1964 2 [Fem... 6 [Over $...

# Last 10 rows
tail(data, 10)

## # A tibble: 10 x 9
##   Zone    Q4      Q5      Q6      Q7      Q10     Q50     Q51      Q59
##   <chr> <dbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl+lbl> <dbl> <dbl+lbl> <dbl+lbl>
## 1 B        1 2          0 4 [A Little P... 2 [No] 1980 1 [Male] 3 [$40,000...
## 2 B        2 2          0 3 [Moderately... 2 [No] 1977 2 [Fema... 4 [$70,000...
## 3 B        4 4          1 2 [Very Prepa... 1 [Yes] 1962 2 [Fema... 2 [$15,000...
## 4 B        2 5          0 1 [Fully Prep... 2 [No] 1946 1 [Male] 5 [$100,000...

```

```

## 5 B      NA      4      NA 1 [Fully Prep... 1 [Yes] 1957 2 [Fema... 1 [Less tha...
## 6 B      1       4      1 4 [A Little P... 1 [Yes] 1987 2 [Fema... 6 [Over $20...
## 7 B      2       5      0 3 [Moderately... 2 [No] 1953 1 [Male] 4 [$70,000-...
## 8 B      NA      4      4 2 [Very Prepa... 2 [No] 1973 2 [Fema... 1 [Less tha...
## 9 B      2       5      0 3 [Moderately... 2 [No] 1980 1 [Male] 5 [$100,000...
## 10 B     2       2      0 4 [A Little P... 2 [No]      NA 2 [Fema... 3 [$40,000-...

# Total number of rows
nrow(data)

## [1] 1130

# Total number of columns
ncol(data)

## [1] 9

# Column names
names(data) # also colnames(data)

## [1] "Zone"  "Q4"    "Q5"    "Q6"    "Q7"    "Q10"   "Q50"   "Q51"   "Q59"

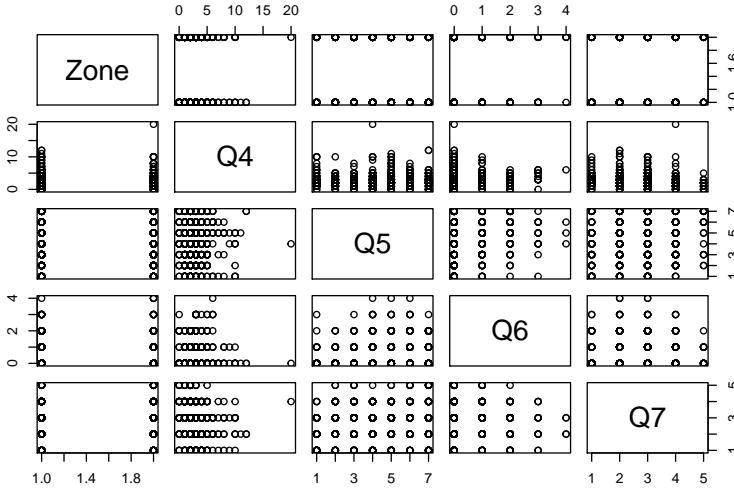
```

We can also plot the data to visualize the distribution of variables

```

# Plotting the first 5 columns
plot(data[,1:5])

```



While these plots could help in understanding the dataset, they could be misleading if the variables are not set to their correct data type.

3.2 Data types

One type of anomaly that we may also encounter is the coercion of irrelevant data types to variables. This is very common for numerically coded variables or ones that have levels.

For example, if we read in the same SPSS data from the Reading data section, we get the coded values instead of the labels.

```
## # A tibble: 6 x 9
##   Zone    Q4      Q5     Q6      Q7     Q10    Q50     Q51     Q59
##   <chr> <dbl> <dbl>+<dbl> <dbl>+<dbl> <dbl>+<dbl> <dbl>+<dbl> <dbl>+<dbl>
## 1 A        2     3          0     3 [Moderate... 2 [No]  1928 1 [Mal... 4 [$70,000...
## 2 A        1     4          0     3 [Moderate... 2 [No]  1962 1 [Mal... NA
## 3 A        3     4          0     3 [Moderate... 2 [No]  1931 2 [Fem... 6 [Over $2...
## 4 A        3     6          1     1 [Fully Pr... 2 [No]  1950 1 [Mal... 5 [$100,00...
## 5 A        2     1 [Not Worr... 0     2 [Very Pre... 2 [No]  1948 1 [Mal... 5 [$100,00...
## 6 A        5     4          0     2 [Very Pre... 2 [No]  1938 2 [Fem... NA
```

So if we run `summary(data)` right away then we'll get this unintended result:

```

##      Zone          Q4          Q5          Q6
## Length:1130    Min. : 0.000  Min. :1.000  Min. :0.0000
## Class  :character 1st Qu.: 2.000  1st Qu.:3.000  1st Qu.:0.0000
## Mode   :character Median : 2.000  Median :4.000  Median :0.0000
##                               Mean   : 2.537  Mean   :4.235  Mean   :0.4191
##                               3rd Qu.: 3.000  3rd Qu.:5.000  3rd Qu.:1.0000
##                               Max.  :20.000  Max.  :7.000  Max.  :4.0000
##                               NA's  :134    NA's  :111    NA's  :116
##      Q7          Q10         Q50         Q51         Q59
## Min. :1.000  Min. :1.000  Min. : 19  Min. : 1.00  Min. :1.000
## 1st Qu.:2.000 1st Qu.:2.000 1st Qu.:1944 1st Qu.:1.00 1st Qu.:3.000
## Median :3.000 Median :2.000 Median :1955  Median :2.00  Median :4.000
## Mean   :2.674  Mean   :1.796  Mean   :1944  Mean   :1.55  Mean   :3.715
## 3rd Qu.:3.000 3rd Qu.:2.000 3rd Qu.:1966 3rd Qu.:2.00 3rd Qu.:5.000
## Max.  :5.000  Max.  :2.000  Max.  :1992  Max.  :2.00  Max.  :6.000
## NA's  :114    NA's  :123    NA's  :47   NA's  :38   NA's  :112

```

Q4 and Q50 are the only variables that are supposed to be numeric. But here everything is treated as numeric which is incorrect. Also, it is best if we read Zone as factor as well so that we find out the possible values.

We can easily convert data types into factor using `dplyr::mutate_at()` and applying `as.factor` function to the variables.

```
# Converting data types  
updated_data <- data %>% mutate_at(vars(-Q4, -Q6, -Q50), as.factor)
```

And now we can get the full summary statistics that we want:

```

## Zone          Q4          Q5          Q6
## A:684   Min.   : 0.000   5   :244   Min.   :0.0000
## B:446   1st Qu.: 2.000   4   :211   1st Qu.:0.0000
##           Median : 2.000   3   :169   Median :0.0000
##           Mean   : 2.537   6   :129   Mean   :0.4191
##           3rd Qu.: 3.000   2   :104   3rd Qu.:1.0000
##           Max.   :20.000 (Other):162   Max.   :4.0000
##           NA's    :134   NA's   :111   NA's   :116
##           Q7          Q10         Q50         Q51
## Fully Prepared   : 93   Yes  :205   Min.   : 19   Male   :491
## Very Prepared     :326   No    :802   1st Qu.:1944 Female:601
## Moderately Prepared:438 NA's  :123   Median :1955 NA's   : 38
## A Little Prepared  :137                   Mean   :1944
## Not at all Prepared: 22                   3rd Qu.:1966
## NA's              :114                   Max.   :1992
##                           NA's   :47
##           Q59
## Less than $15,000: 81
## $15,000-$39,999  :169
## $40,000-$69,999  :215
## $70,000-$99,999  :190
## $100,000-$199,999:220
## Over $200,000    :143
## NA's              :112

```

As we can see from the summary, there might be some anomalies with the variables:

- **Zone:** as most of the respondents are from Zone A. But this is basically related to the survey method which would later require that some weighting of the variables would be applied.
- **Q4: Number of storms experienced:** where the mean value is 2.5 but some response have the value of 20.
- **Q50: Birth year:** where some respondent answered 19 which is incorrect. Also this column is probably better if it's in age instead of birth year.

We can also notice some missing values.

3.3 Subsetting and Filtering

We can remove incorrect or missing row values by using `dplyr::filter`:

```

# Removing rows where birth year is irrelevant
# Here we decided that all birth year must be greater 1900
updated_data <- data %>% filter(Q50 > 1900)
# Now if we re-run its summary
summary(updated_data$Q50)

```

```
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
##   1908    1945    1955  1956    1966  1992
# Removing rows with birth year greater than 1900 and missing responses for Q4
updated_data <- data %>% filter(Q50 > 1900, !is.na(Q4))
summary(updated_data$Q50)
```

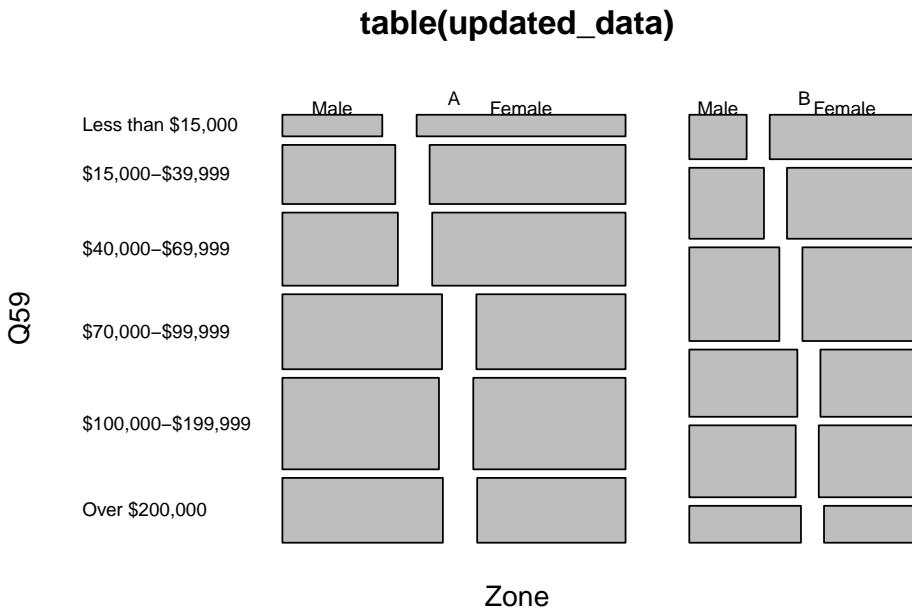
```
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
##   1908    1944    1954  1955    1965  1990
summary(updated_data$Q4)
```

```
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
##   0.000  2.000  2.000  2.522  3.000 20.000
```

We can also select only the variables that we are interested in using `dplyr::select`:

```
# Creating a new dataframe with only zone, gender, and income column
updated_data <- data %>% select(Zone, Q59, Q51)
head(updated_data, 10)
```

```
## # A tibble: 10 x 3
##   Zone   Q59          Q51
##   <fct> <fct>        <fct>
##   1 A    $70,000-$99,999 Male
##   2 A    <NA>          Male
##   3 A    Over $200,000 Female
##   4 A    $100,000-$199,999 Male
##   5 A    $100,000-$199,999 Male
##   6 A    <NA>          Female
##   7 A    <NA>          Female
##   8 A    <NA>          Female
##   9 A    $40,000-$69,999 Male
##  10 A   Over $200,000 Female
plot(table(updated_data), las=1)
```



It is also possible to split the dataset into multiple dataframes by number of rows using `split()`.

```
# To split the dataset into multiple dataframe of 10 rows each
max_number_of_rows_per_dataframe <- 10
total_number_rows_in_the_current_dataset <- nrow(data)
sets_of_10rows_dataframes <- split(data,
                                       rep(1:ceiling(total_number_rows_in_the_current_dataset/max_number_of_rows_per_dataframe),
                                           each=max_number_of_rows_per_dataframe,
                                           length.out=total_number_rows_in_the_current_dataset))
# Here are the first 2 dataframes
sets_of_10rows_dataframes[[1]] # or sets_of_10rows_dataframes$`1`
```

| ## # A tibble: 10 x 9 | ## Zone | ## Q4 | ## Q5 | ## Q6 | ## Q7 | ## Q10 | ## Q50 | ## Q51 | ## Q59 |
|-----------------------|---------|-------|-----------------|-------|------------------|--------|--------|---------|------------------|
| | <fct> | <dbl> | <fct> | <dbl> | <fct> | <fct> | <dbl> | <fct> | <fct> |
| ## 1 | A | 2 | 3 | 0 | Moderately Pr... | No | 1928 | Male | \$70,000-\$99... |
| ## 2 | A | 1 | 4 | 0 | Moderately Pr... | No | 1962 | Male | <NA> |
| ## 3 | A | 3 | 4 | 0 | Moderately Pr... | No | 1931 | Fema... | Over \$200,0... |
| ## 4 | A | 3 | 6 | 1 | Fully Prepared | No | 1950 | Male | \$100,000-\$1... |
| ## 5 | A | 2 | Not Worried ... | 0 | Very Prepared | No | 1948 | Male | \$100,000-\$1... |
| ## 6 | A | 5 | 4 | 0 | Very Prepared | No | 1938 | Fema... | <NA> |
| ## 7 | A | 3 | 6 | 1 | Moderately Pr... | No | 1977 | Fema... | <NA> |
| ## 8 | A | 5 | 4 | 0 | Moderately Pr... | No | 1964 | Fema... | <NA> |
| ## 9 | A | 1 | 3 | 0 | Moderately Pr... | No | 1976 | Male | \$40,000-\$69... |
| ## 10 | A | 2 | 6 | 0 | Very Prepared | No | 1964 | Fema... | Over \$200,0... |

```
sets_of_10rows_dataframes[[2]]
```

```
## # A tibble: 10 x 9
##   Zone    Q4 Q5      Q6 Q7      Q10     Q50 Q51     Q59
##   <fct> <dbl> <fct>    <dbl> <fct>    <fct> <dbl> <fct>    <fct>
## 1 A        2 Extremely Worried 2 Fully Prepared Yes 1937 Fema... <NA>
## 2 A        3 5                  0 Very Prepared No 1943 Male $70,000-$99...
## 3 A        2 Extremely Worried 0 Very Prepared No 1954 Fema... $100,000-$1...
## 4 A        2 5                  0 Very Prepared No 1959 Fema... $100,000-$1...
## 5 A        4 Not Worried ... NA Very Prepared No 1936 Fema... Over $200,0...
## 6 A        1 3                  1 Moderately Pr... Yes 1963 Male Over $200,0...
## 7 A        2 3                  1 Very Prepared Yes 1950 Fema... $100,000-$1...
## 8 A        4 6                  0 Moderately Pr... No  NA <NA>  <NA>
## 9 A        0 4                  0 Very Prepared No 1941 Male $100,000-$1...
## 10 A       NA <NA>             NA <NA>          <NA> 1952 Fema... $100,000-$1...
```

3.4 Changing cell values

As we mentionned earlier, it is best if Q50 is stored as an age variable instead of the default birth year. Q50 is a numeric variable and we can simply change it by using `dplyr::mutate()`

```
# Replacing Q50 values to their age in 2020
updated_data <- data %>% mutate(Q50 = 2020 - Q50)
head(updated_data, 10)

## # A tibble: 10 x 9
##   Zone    Q4 Q5      Q6 Q7      Q10     Q50 Q51     Q59
##   <fct> <dbl> <fct>    <dbl> <fct>    <fct> <dbl> <fct>    <fct>
## 1 A        2 3      0 Moderately Pr... No 92 Male $70,000-$99...
## 2 A        1 4      0 Moderately Pr... No 58 Male <NA>
## 3 A        3 4      0 Moderately Pr... No 89 Fema... Over $200,0...
## 4 A        3 6      1 Fully Prepared No 70 Male $100,000-$1...
## 5 A        2 Not Worried ... 0 Very Prepared No 72 Male $100,000-$1...
## 6 A        5 4      0 Very Prepared No 82 Fema... <NA>
## 7 A        3 6      1 Moderately Pr... No 43 Fema... <NA>
## 8 A        5 4      0 Moderately Pr... No 56 Fema... <NA>
## 9 A        1 3      0 Moderately Pr... No 44 Male $40,000-$69...
## 10 A       2 6      0 Very Prepared No 56 Fema... Over $200,0...

# It is also possible to leave Q50 untouched and store the results into a new column
updated_data <- data %>% mutate(age = 2020 - Q50)
head(updated_data, 10)

## # A tibble: 10 x 10
##   Zone    Q4 Q5      Q6 Q7      Q10     Q50 Q51     Q59     age
##   <fct> <dbl> <fct>    <dbl> <fct>    <fct> <dbl> <fct>    <fct>  <dbl>
```

```

##   <fct> <dbl> <fct>      <dbl> <fct>      <fct> <dbl> <fct>      <fct> <dbl>
## 1 A      2 3      0 Moderately ... No    1928 Male  $70,000-$... 92
## 2 A      1 4      0 Moderately ... No    1962 Male  <NA>     58
## 3 A      3 4      0 Moderately ... No    1931 Fema... Over $200... 89
## 4 A      3 6      1 Fully Prepa... No    1950 Male  $100,000-... 70
## 5 A      2 Not Worrie... 0 Very Prepar... No  1948 Male  $100,000-... 72
## 6 A      5 4      0 Very Prepar... No    1938 Fema... <NA>     82
## 7 A      3 6      1 Moderately ... No    1977 Fema... <NA>     43
## 8 A      5 4      0 Moderately ... No    1964 Fema... <NA>     56
## 9 A      1 3      0 Moderately ... No    1976 Male  $40,000-$... 44
## 10 A     2 6      0 Very Prepar... No   1964 Fema... Over $200... 56

summary(updated_data$age)

##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.
## 28.00 54.00 65.00 64.14 75.00 112.00

```

For a categorical variable, we use a different function `dplyr::recode_factor()` or `dplyr::recode()`. We will apply this to Q5 as we have noticed in the previous section that not all of its values were labelled from SPSS. Here is its summary:

```

## Not Worried At All           2           3           4
##                         58          101          164          197
##                         5           6  Extremely Worried NA's
##                         232          123          97          104

```

Looking back at the questionnaire, here is how it was phrased:

5. Generally speaking, when a hurricane or tropical storm is approaching your city or town, how worried do you feel? Please answer using the following scale ranging from 1 (not at all worried) to 7 (extremely worried).



Because the survey itself doesn't have labels, the recoding will be up to the user. Here we chose to remove replace the extreme values with 1 and 7. As mentionned in the documentation: `dplyr::recode()` will preserve the existing order of levels while changing the values, and `dplyr::recode_factor()` will change the order of levels to match the order of replacements.

```

# Recoding Q5
recoded.with.recode <- recode(data$Q5, `Not Worried At All`="1", `Extremely Worried`="7")
summary(recoded.with.recode)

```

```

##   1   2   3   4   5   6   7 NA's
## 58 101 164 197 232 123 97 104

```

```

recode.with.recode_factor <- recode_factor(data$Q5, `Not Worried At All`="1", `Extrem
summary(recode.with.recode_factor)

##      1     7     2     3     4     5     6 NA's
##  58   97  101  164  197  232  123  104

```

We can also change cell values without external libraries like `dplyr` by running the following code:

```

# Add column age where the values are 2020 - Q50
data$age <- 2020 - data$Q50
# Replace Q5 with value "Not Worried At All" to "1"
data$Q5[data$Q5 == "Not Worried At All"] <- 1

## Warning in `[<-.factor`(`*tmp*`, data$Q5 == "Not Worried At All", value =
## structure(c(3L, : invalid factor level, NA generated

```

3.5 Pivoting the dataset

In some cases, we may want to split a column based on values, or merge multiple columns into fewer columns. These process can be done using `tidyverse` package. For example, to convert the dataframe into long-format with only `Zone`, `question`, and `value` as columns:

```

library(tidyverse)
# We have to pivot by variable type
# Pivot longer for factor variables
pivoted.longer <- data %>%
  select_if(is.factor) %>%
  pivot_longer(-Zone, names_to = "question", values_to = "value")
pivoted.longer

## # A tibble: 5,380 x 3
##       Zone question value
##   <fct>   <chr>    <fct>
## 1 A        Q5        3
## 2 A        Q7        Moderately Prepared
## 3 A        Q10       No
## 4 A        Q51       Male
## 5 A        Q59       $70,000-$99,999
## 6 A        Q5        4
## 7 A        Q7        Moderately Prepared
## 8 A        Q10       No
## 9 A        Q51       Male
## 10 A       Q59       <NA>
## # ... with 5,370 more rows

```

```
# Then we can reshape it back to the original
pivoted.wider <- pivoted.longer %>%
  group_by(question) %>% mutate(row = row_number()) %>%
  pivot_wider(names_from = question, values_from = value) %>%
  select(-row)
pivoted.wider

## # A tibble: 1,076 x 6
##   Zone   Q5    Q7          Q10   Q51   Q59
##   <fct> <fct> <fct>       <fct> <fct> <fct>
## 1 A     3     Moderately Prepared No   Male   $70,000-$99,999
## 2 A     4     Moderately Prepared No   Male   <NA>
## 3 A     4     Moderately Prepared No   Female Over $200,000
## 4 A     6     Fully Prepared      No   Male   $100,000-$199,999
## 5 A     <NA>  Very Prepared      No   Male   $100,000-$199,999
## 6 A     4     Very Prepared      No   Female <NA>
## 7 A     6     Moderately Prepared No   Female <NA>
## 8 A     4     Moderately Prepared No   Female <NA>
## 9 A     3     Moderately Prepared No   Male   $40,000-$69,999
## 10 A    6    Very Prepared      No   Female Over $200,000
## # ... with 1,066 more rows
```

`tidyr::spread()` and `tidyr::gather()` are the outdated equivalent of `tidyr::pivot_wider()` and `tidyr::pivot_longer()`.

To merge or split columns, we can use `tidyr::unite()` or `tidyr::separate()`.

For example, to merge Q7 and Q10:

```
# Creating a new column with responses from both Q7 and Q10
merged <- data %>% unite("Q7_Q10", Q7:Q10, sep = "___", remove = TRUE, na.rm = FALSE)
merged

## # A tibble: 1,076 x 9
##   Zone   Q4   Q5    Q6   Q7_Q10          Q50   Q51   Q59   age
##   <fct> <dbl> <dbl> <dbl> <chr>       <dbl> <fct> <fct> <dbl>
## 1 A     2     3     0   Moderately Prepared... 1928   Male   $70,000-$99,9.. 92
## 2 A     1     4     0   Moderately Prepared... 1962   Male   <NA>   58
## 3 A     3     4     0   Moderately Prepared... 1931   Fema... Over $200,000 89
## 4 A     3     6     1   Fully Prepared___No  1950   Male   $100,000-$199... 70
## 5 A     2   <NA>  0   Very Prepared___No  1948   Male   $100,000-$199... 72
## 6 A     5     4     0   Very Prepared___No  1938   Fema... <NA>   82
## 7 A     3     6     1   Moderately Prepared... 1977   Fema... <NA>   43
## 8 A     5     4     0   Moderately Prepared... 1964   Fema... <NA>   56
## 9 A     1     3     0   Moderately Prepared... 1976   Male   $40,000-$69,9.. 44
## 10 A    2     6     0   Very Prepared___No  1964   Fema... Over $200,000 56
## # ... with 1,066 more rows
```

```
# To split it back
merged %>% separate(Q7_Q10, c("Q7", "Q10"), sep = "__", remove = TRUE)

## # A tibble: 1,076 x 10
##   Zone    Q4 Q5     Q6 Q7      Q10    Q50 Q51    Q59      age
##   <fct> <dbl> <fct> <dbl> <chr>    <chr> <dbl> <fct> <fct>    <dbl>
## 1 A        2 3     0 Moderately Pre... No     1928 Male $70,000-$99...
## 2 A        1 4     0 Moderately Pre... No     1962 Male <NA>      58
## 3 A        3 4     0 Moderately Pre... No     1931 Fema... Over $200,000 89
## 4 A        3 6     1 Fully Prepared No     1950 Male $100,000-$19... 70
## 5 A        2 <NA>   0 Very Prepared No     1948 Male $100,000-$19... 72
## 6 A        5 4     0 Very Prepared No     1938 Fema... <NA>      82
## 7 A        3 6     1 Moderately Pre... No     1977 Fema... <NA>      43
## 8 A        5 4     0 Moderately Pre... No     1964 Fema... <NA>      56
## 9 A        1 3     0 Moderately Pre... No     1976 Male $40,000-$69... 44
## 10 A       2 6     0 Very Prepared No     1964 Fema... Over $200,000 56
## # ... with 1,066 more rows
```

Chapter 4

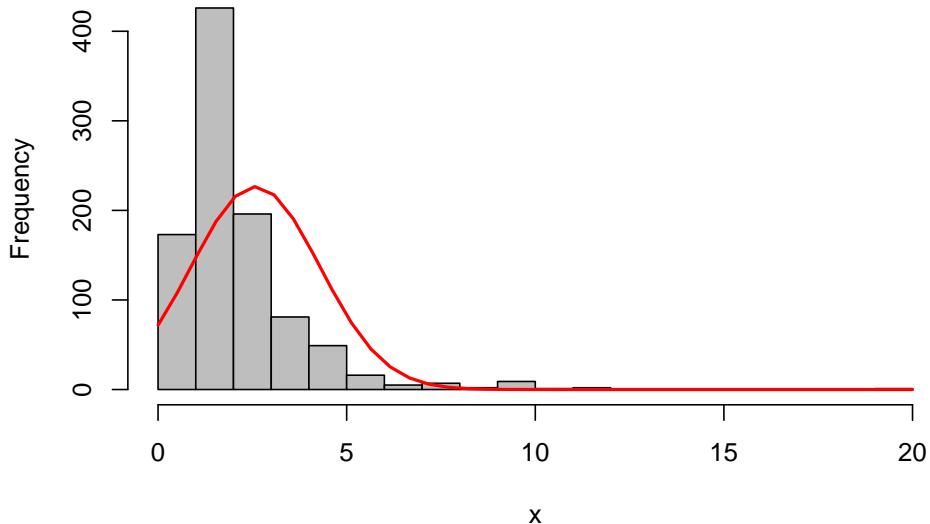
Cleaning

Data cleaning is the process of getting the data ready for statistical analysis. In contrast to “Structuring the data” the target anomalies in this case are the variable values such as missing values, outliers, distribution, etc.

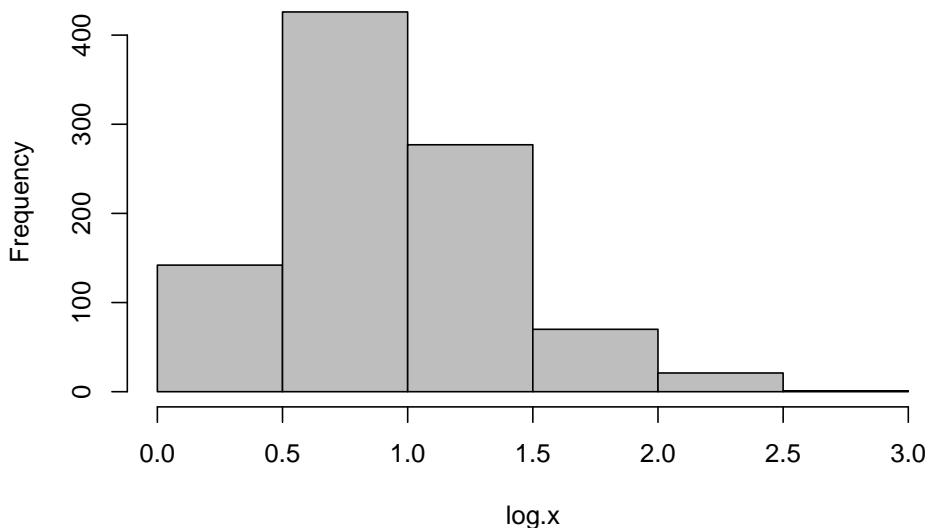
4.1 Fixing skewed distribution

A data is skewed when it's distribution is not symmetrical but rather distorted on the left or right. Sometimes, to facilitate statistical analysis, we need to transform that skewed data so that it becomes normally distributed instead.

```
# Example of skewed data
{x <- data$nstorm
h <- hist(x, breaks=20, col="grey")
xfit <- seq(min(x), max(x), length=40)
yfit <- dnorm(xfit, mean=mean(x), sd=sd(x))
yfit <- yfit*diff(h$mids[1:2])*length(x)
lines(xfit, yfit, col="red", lwd=2)}
```

Histogram of x

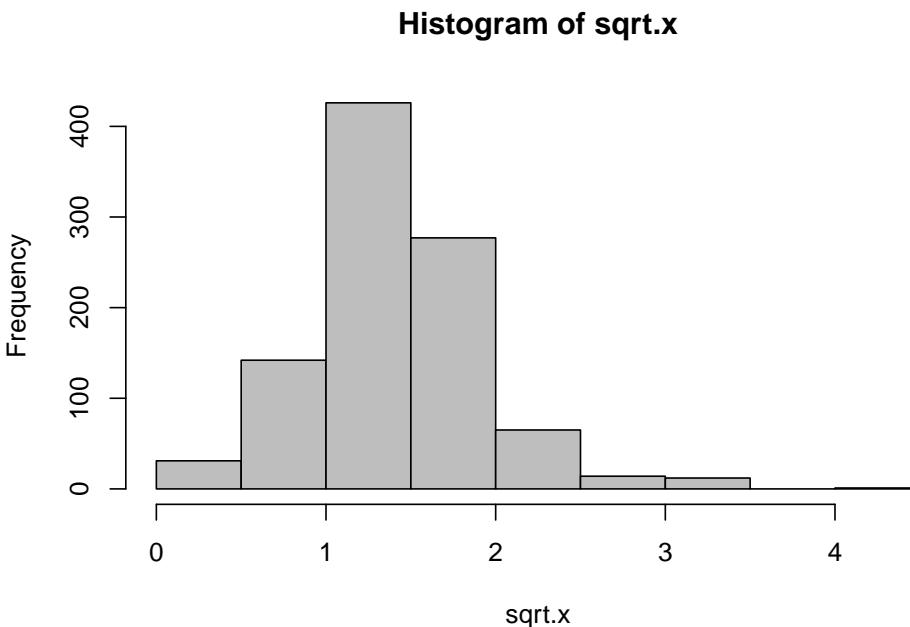
```
# Log-transformation
{log.x <- log(data$NSTORM)
h <- hist(log.x, breaks = 10, col = "grey")}
```

Histogram of log.x

While the previous log-transformation seem to have worked, it is not entirely correct because the variable `NSTORM` has 0 values. In this case, one of the

commonly used method is **square root**.

```
# sqrt transformation
{sqrt.x <- sqrt(data$NSTORM)
h <- hist(sqrt.x, breaks = 10, col = "grey")}
```



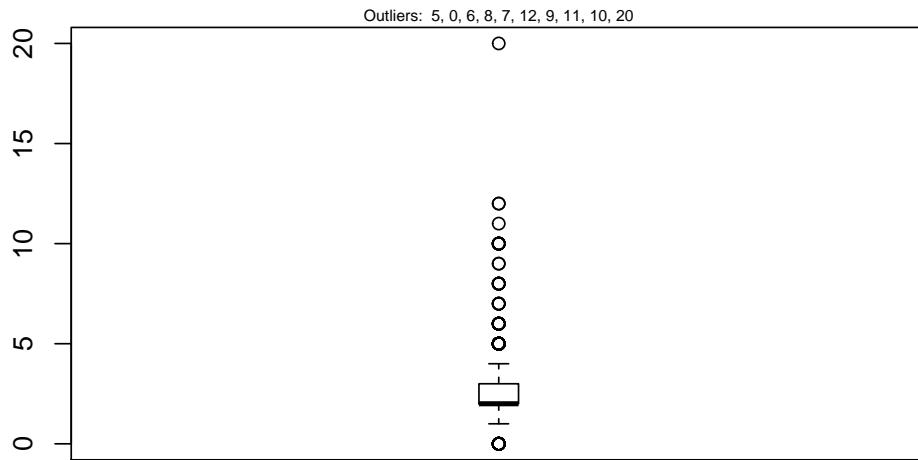
4.2 Treating outliers

Outliers are usually extreme values in the datasets. If not detected and handled appropriately, they can affect the accuracy of the predictions and analysis. Treating outliers depends on a good knowledge of the data and it is up to the data analyst to decide on how to go about fixing them. Selva Prabhakaran gave some ways of handling outliers that we're going to show below.

You can detect outliers using `boxplot` and they will show up as dots outside the whiskers:

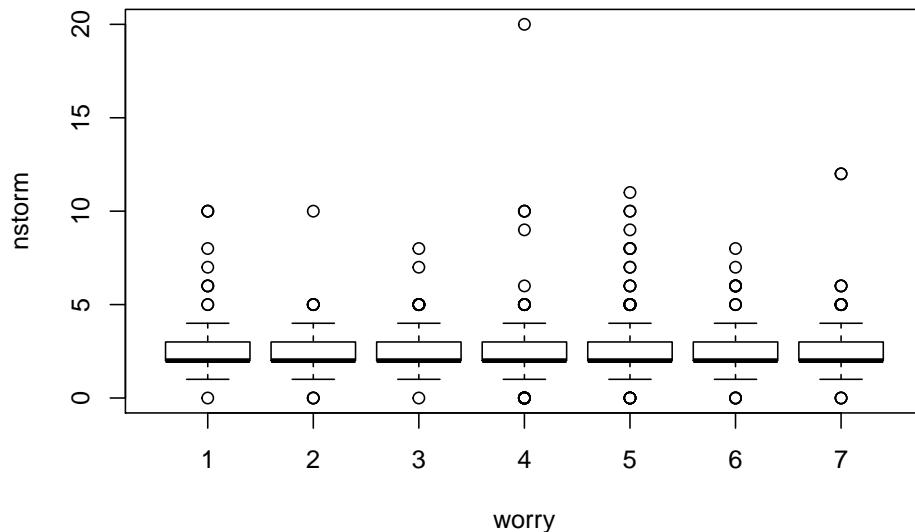
```
# For continuous variable
outlier_values <- unique(boxplot.stats(data$NSTORM)$out) # outlier values.
boxplot(data$NSTORM, main="How many storm have you experienced?", boxwex=0.1)
mtext(paste("Outliers: ", paste(outlier_values, collapse=", ")), cex=0.6)
```

How many storm have you experienced?



```
# For categorical variable
boxplot(nstorm ~ worry, data=data, main="Number of storms experienced across levels of worry")
```

Number of storms experienced across levels of worry



Approaches for outlier treatment include imputation with `mean`, `median`, or `mode`. We can also cap the values, predict them, or delete the observations. We'll talk more about that below.

4.3 Fixing missing values

Ways of detecting missing values (NA) include the `summary` and `anyNA()`.

```
anyNA(data$nstorm)

## [1] TRUE

summary(data$nstorm)

##      Min. 1st Qu. Median      Mean 3rd Qu.      Max.    NA's
##      0.0    2.0    2.0     2.6    3.0    20.0     50
```

The easiest way to handle them is by removing all of the corresponding observations using `tidyverse::drop_na()`. Or, in some cases, removing the variable itself.

```
tidyverse::drop_na(data)

## # A tibble: 778 x 13
##   nstorm worry nevac prepared homeloc nyear gender income politics age zone
##   <int> <fct>
## 1     2     3     0     3     2    86     1     4     3    86 A
## 2     3     4     0     3     3    19     2     6     2    83 A
## 3     3     6     1     1     1    52     1     5     3    64 A
## 4     2     1     0     2     3    15     1     5     3    66 A
## 5     1     3     0     3     3     4     1     3     1    38 A
## 6     2     6     0     2     2    17     2     6     2    50 A
## 7     3     5     0     2     3    70     1     4     4    71 A
## 8     2     7     0     2     1    24     2     5     2    60 A
## 9     2     5     0     2     2    18     2     5     2    55 A
## 10    1     3     1     3     2     2     1     6     4    51 A
## # ... with 768 more rows, and 2 more variables: lat <dbl>, long <dbl>
```

However, if dropping all of the rows with missing values affect the quality of the data, then another option is to replace the missing values with the mean/median/mode of the variable or predict using an appropriate algorithm. There are several packages out there that are solely dedicated to treating missing values including `VIM` and `MICE`.

In this next example, we'll try to predict the 15 missing values in the variable `nstorm` (number of storms the survey respondents have experienced) using the variables that has no missing values: `zone`, `lat`, and `long`.

```
# Imputation using MICE
library(mice)

# Building the mice model
mice_model <- mice(select(data, zone, lat, long, nstorm), method="rf", printFlag=F)
# Predicting the missing values
```

```
# generate the completed data
mice_prediction <- complete(mice_model)
# checking for NAs
anyNA(mice_prediction)
```

```
## [1] FALSE
```

Then we can visualize the data to see how well the imputation has performed. However, the best way to assess the accuracy is to compare actual values with predicted values using measures such as: MSE, MAE, MAPE, etc.

```
# Visualizing the prediction
non_na_latitude <- data$lat[!is.na(data$nstorm)]
non_na_nstorm <- data$nstorm[!is.na(data$nstorm)]
na_latitude <- mice_prediction$lat[is.na(data$nstorm)]
na_nstorm <- mice_prediction$nstorm[is.na(data$nstorm)]
plot(non_na_nstorm, non_na_latitude, col="grey", pch="•", ylab="Latitude", xlab="Number of Storms")

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
```

```
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
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## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
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## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
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## dot substituted for <e2>
```

```
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## dot substituted for <80>  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>
```

```
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
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## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022
```

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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
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## U+2022  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>
```

```
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## U+2022
```

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```

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```

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## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022
points(na_nstorm, na_latitude, col="red", pch="•", cex=2)

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
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## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for

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## Unicode character U+2022

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
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## in 'mbcsToSbcs': dot substituted for <a2>

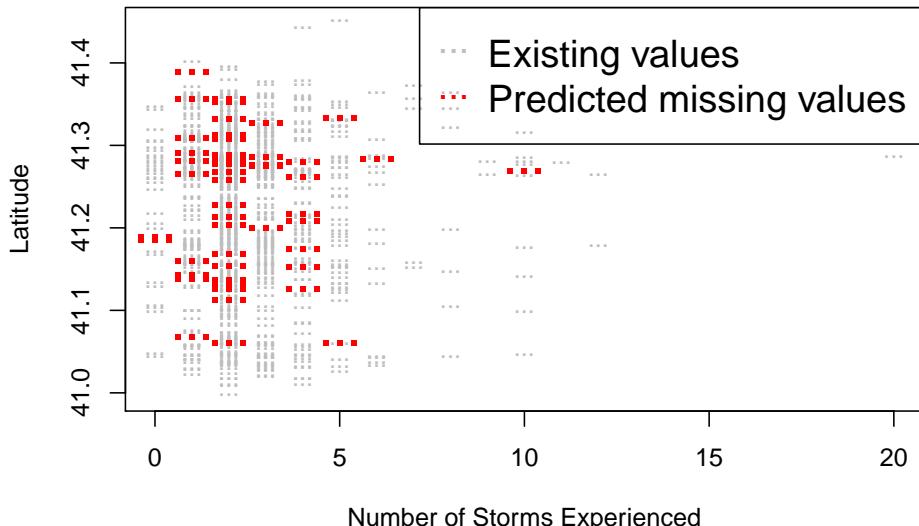
## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022
```



Other ways of imputing the missing values are with `mean`, `median`, or mode.

```

prediction <- data
na.observations <- is.na(data$nstorm)
prediction$nstorm[na.observations] <- median(prediction$nstorm[!na.observations])
# Visualizing the prediction
na_latitude <- prediction$lat[na.observations]
na_nstorm <- prediction$nstorm[na.observations]
plot(non_na_nstorm, non_na_latitude, col="grey", pch="•", ylab="Latitude", xlab="Number of Storms Experienced")

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbccs':
## dot substituted for <e2>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbccs':
## dot substituted for <80>

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbccs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
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```

```
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
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## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
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## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022
```

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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
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```
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## U+2022  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>
```

```
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## dot substituted for <a2>  
  
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## dot substituted for <80>
```

```
## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
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## dot substituted for <e2>  
  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
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## dot substituted for <e2>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <80>  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
## U+2022  
  
## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':  
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## dot substituted for <a2>  
  
## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character  
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## Warning in plot.xy(xy, type, ...): conversion failure on '.' in 'mbcsToSbcs':  
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## dot substituted for <80>
```

```

## Warning in plot.xy(xy, type, ...): conversion failure on '•' in 'mbcsToSbcs':
## dot substituted for <a2>

## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
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## Warning in plot.xy(xy, type, ...): font metrics unknown for Unicode character
## U+2022

points(na_nstorm, na_latitude, col="red", pch="•", cex=2)

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
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## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for

```

```
## Unicode character U+2022

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## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

legend("topright", c("Existing values", "Predicted missing values"), col=c("grey", "red"), pch="•"

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <80>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

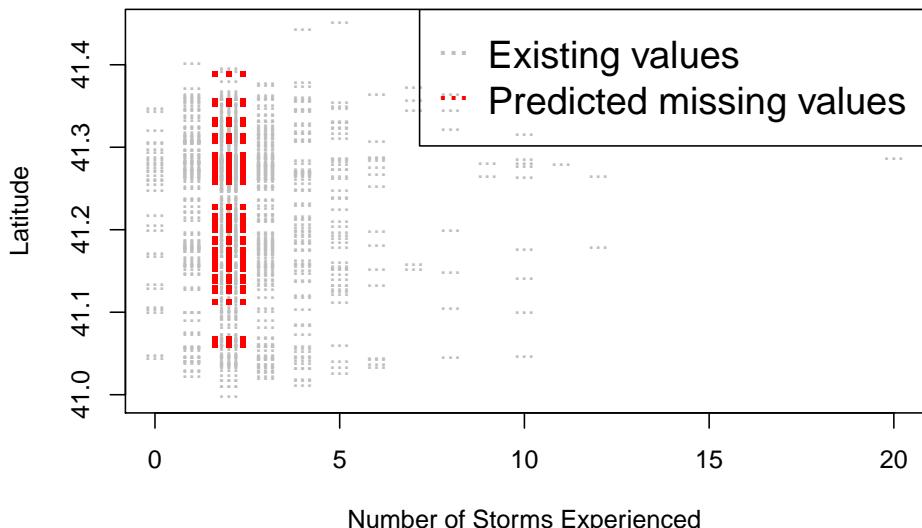
## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <e2>

## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
```

```

## in 'mbcsToSbcs': dot substituted for <80>
## Warning in plot.xy(xy.coords(x, y), type = type, ...): conversion failure on '•'
## in 'mbcsToSbcs': dot substituted for <a2>
## Warning in plot.xy(xy.coords(x, y), type = type, ...): font metrics unknown for
## Unicode character U+2022

```



For mode, there is no built-in function in R but I found one here:

```

getmode <- function(v) {
  uniqv <- unique(v)
  uniqv[which.max(tabulate(match(v, uniqv)))]
}

```

Chapter 5

Visualization

5.1 Simple graph with ggplot2

Reading and recoding data

```
library(haven)
library(ggplot2)
library(dplyr)
library(tidyr)

raw.data <- read_sav('data/ypccc.hurricane.sav')
raw.data <- raw.data %>% filter(raw.data$Q1==1 || raw.data$Q2==1)
raw.data <- raw.data %>% filter(!is.na(raw.data$Q3), raw.data$Q3!=2, raw.data$Q3!=3)

raw.data$S5_cluster <- recode(as.character(raw.data$S5_cluster), '1'='DieHards', '2'='Reluctant',
raw.data$S5_cluster <- factor(raw.data$S5_cluster, ordered=T, levels=c('First Out', 'Constrained'))
data <- raw.data[!is.na(raw.data$S5_cluster),]
```

5.1.1 Setting ggplot2 theme

```
plot_theme <-
  theme(
    legend.title = element_blank(),
    legend.box.background = element_rect(),
    legend.box.margin = margin(6, 6, 6, 6),
    legend.background = element_blank(),
    legend.text = element_text(size=12),
    legend.key.size = unit(1, "cm")
  ) +
  theme(
```

```

axis.text = element_text(size=12, face='bold'),
axis.line = element_line(size = 1, colour = "#212F3D"),
axis.title.x = element_blank(),
axis.title.y = element_blank()
) +
theme(
  plot.title = element_text(size = 20, face='bold', hjust = 0.5, margin=margin(6,6,6,6),
  plot.background=element_blank()
) +
theme(
  panel.grid.major.x = element_blank(),
  panel.grid.minor.x = element_blank(),
  panel.grid.major.y = element_line(size=1)
)
)

```

```

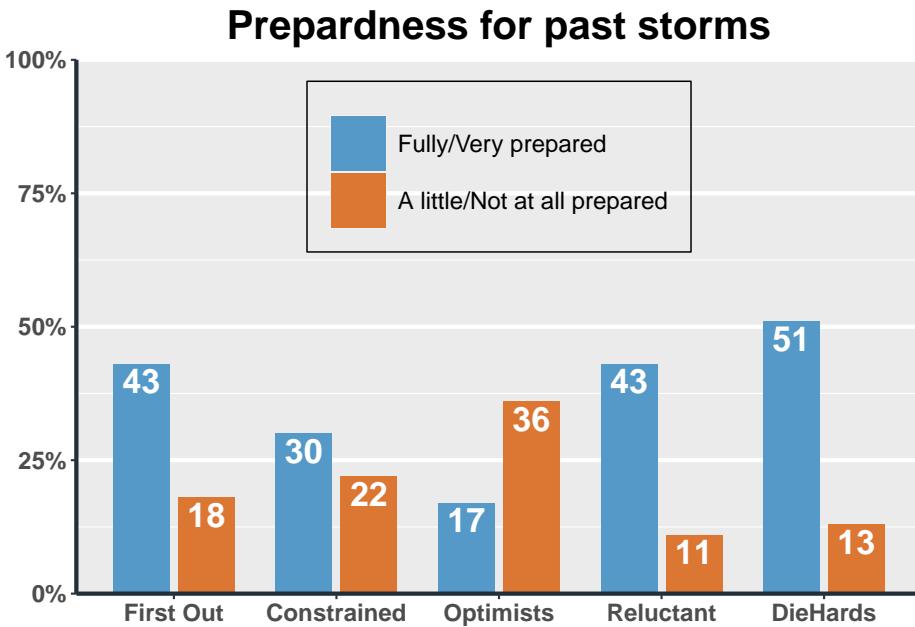
# Q7. Generally speaking, how prepared were you for the storm(s) you experienced?
data$Q7 <- as_factor(data$Q7)
data$Q7 <- recode(as.character(data$Q7),
  'Fully Prepared'='Fully/Very prepared', 'Very Prepared'='Fully/Very prepared',
  'A Little Prepared'='A little/Not at all prepared', 'Not at all Prepared'='Not at all prepared'
)

data$Q7 <- factor(data$Q7, ordered=T, levels=c('Fully/Very prepared', 'A little/Not at all prepared',
  'Moderately Prepared', 'Not at all prepared'))

Q7_data <- data %>%
  select(Q7, S5_cluster, Final_wgt_pop) %>%
  # na.omit() %>%
  group_by(S5_cluster, Q7) %>%
  summarise(Q7.wgt = sum(Final_wgt_pop)) %>%
  mutate(freq.wgt = round(100*Q7.wgt/sum(Q7.wgt))) %>%
  filter(Q7 != 'Moderately Prepared', !is.na(Q7))

ggplot(Q7_data, aes(x=S5_cluster, y=freq.wgt, fill=Q7)) +
  geom_bar(aes(fill=Q7), width=.7, position=position_dodge(.8), stat='identity') +
  geom_text(aes(label=freq.wgt, vjust=1.2), position=position_dodge(.8), colour='white') +
  scale_fill_manual(values=c('#5499C7', '#DC7633')) +
  scale_y_continuous(labels = function(x) paste0(x, "%"), expand = c(0, 0), limits = c(0, 100)) +
  labs(title = "Preparedness for past storms") +
  theme(legend.position=c(.5, .8)) +
  plot_theme

```

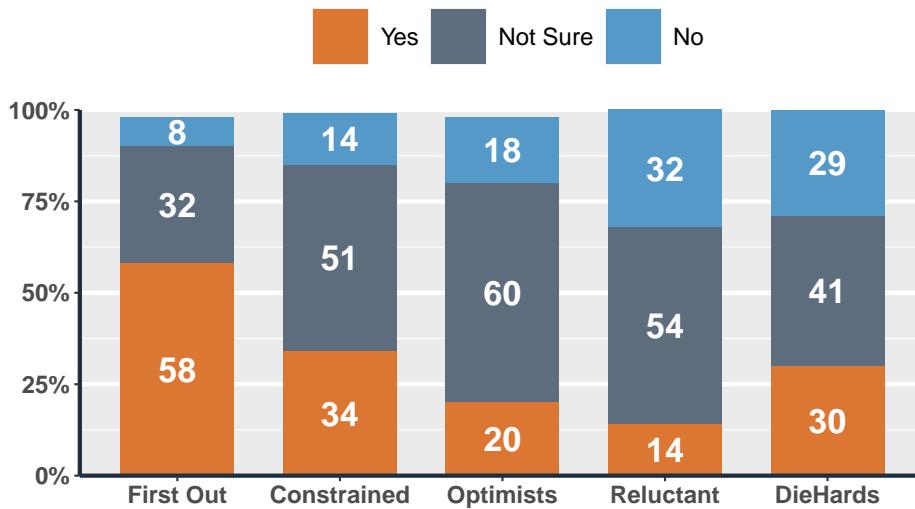


```
# Q31. Is your home located in a hurricane evacuation zone, or not?
data$Q31 <- as_factor(data$Q31)
data$Q31 <- factor(data$Q31, ordered=T, levels=c('No', 'Not Sure', 'Yes'))

Q31_data <- data %>%
  select(Q31, S5_cluster, Final_wgt_pop) %>%
  # na.omit() %>%
  group_by(S5_cluster, Q31) %>%
  summarise(Q31.wgt = sum(Final_wgt_pop)) %>%
  mutate(freq.wgt = round(100*Q31.wgt/sum(Q31.wgt))) %>%
  filter(!is.na(Q31))

ggplot(Q31_data, aes(x=S5_cluster, y=freq.wgt, fill=Q31)) +
  geom_bar(aes(fill=Q31), width=.7, stat='identity') +
  geom_text(aes(label=freq.wgt, vjust=.5), position = position_stack(vjust = 0.5), colour='white')
  scale_fill_manual(values=c('#DC7633', '#5D6D7E', '#5499C7'), breaks=c('Yes', 'Not Sure', 'No'))
  scale_y_continuous(labels = function(x) paste0(x, "%"), expand = c(0, 0), limits = c(0, 100)) +
  labs(title = "% of CT coastal residents who understand\nthat their home is in an evacuation zone")
  theme(legend.position="top") +
  plot_theme + theme(legend.box.background = element_blank(), legend.spacing.x = unit(.2, 'cm'))
```

% of CT coastal residents who understand that their home is in an evacuation zone

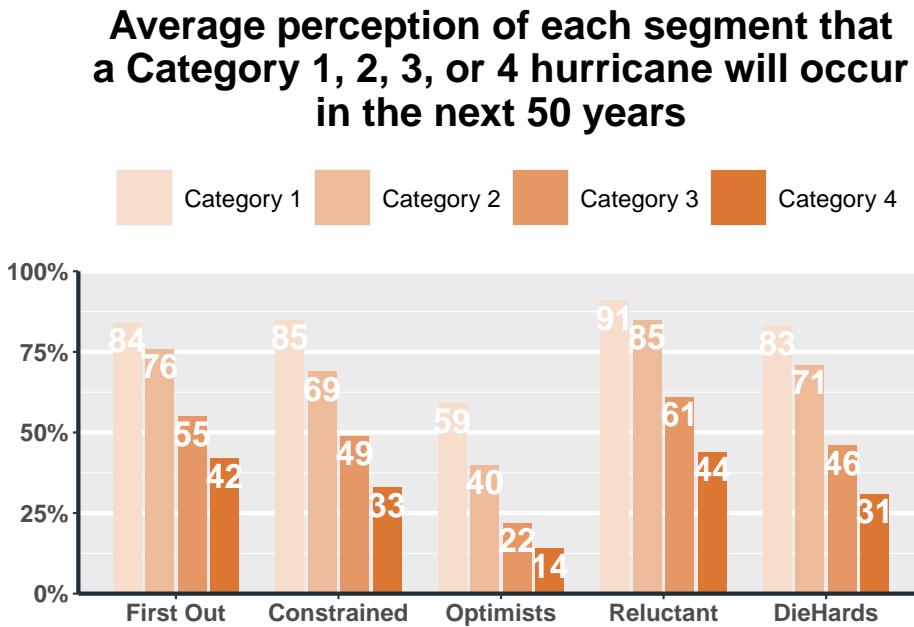


5.1.4 `geom_bar` Example 3

```
# Q23. On a scale of 0%-100%, with 0% being it definitely will NOT happen and 100% being it definitely will happen, how likely do you think it is that each of the following types of hurricane will hit the Connecticut coast in the next 50 years?
```

```
Q23_data <- data %>%
  select(S5_cluster, Q23_1, Q23_2, Q23_3, Q23_4, Final_wgt_pop) %>%
  pivot_longer(-one_of('S5_cluster', 'Final_wgt_pop'), names_to="Category", names_prefix = "Q23.")
  mutate(Category = paste("Category", Category), Q23.wgt = Q23 * Final_wgt_pop) %>%
  na.omit() %>%
  group_by(S5_cluster, Category) %>%
  summarise(freq.wgt = round(sum(Q23.wgt, na.rm=T)/sum(Final_wgt_pop, na.rm=T)))
```

```
ggplot(Q23_data, aes(x=S5_cluster, y=freq.wgt, fill=Category)) +
  geom_bar(aes(fill=Category), width=.7, position=position_dodge(.8), stat='identity') +
  geom_text(aes(label=freq.wgt, vjust=1.2), position=position_dodge(.8), colour='white') +
  scale_fill_manual(values=c('#F6DDCC', '#EDBB99', '#E59866', '#DC7633')) +
  scale_y_continuous(labels = function(x) paste0(x, "%"), expand = c(0, 0), limits = c(0, 100)) +
  labs(title = "Average perception of each segment that na Category 1, 2, 3, or 4 hurricanes will hit the Connecticut coast in the next 50 years") +
  theme(legend.position="top") +
  plot_theme +
  theme(legend.box.background = element_blank(), legend.spacing.x = unit(.2, 'cm'))
```



5.2 Interactive graph with plotly

Creating an interactive version of the previous graphs is pretty simple using `plotly`. You just have to separate the data by group.

```
library(plotly)

Q7.prepared <- Q7_data %>%
  filter(Q7=='Fully/Very prepared')
Q7.not.prepared <- Q7_data %>%
  filter(Q7=='A little/Not at all prepared')

plot_ly(x=Q7.prepared$S5_cluster, y=Q7.prepared$freq.wgt, type='bar', name='Fully/Very prepared')
  add_trace(x=Q7.not.prepared$S5_cluster, y=Q7.not.prepared$freq.wgt, name='A little/Not at all p
```

```
Q31.yes <- Q31_data %>%
  filter(Q31=='Yes')
Q31.notsure <- Q31_data %>%
  filter(Q31=='Not Sure')
Q31.no <- Q31_data %>%
  filter(Q31=='No')

plot_ly(x=Q31.yes$S5_cluster, y=Q31.yes$freq.wgt, type='bar', name='Yes', marker = list(
  color = '#3CB371'))
add_trace(x=Q31.notsure$S5_cluster, y=Q31.notsure$freq.wgt, name='Not Sure', marker =
  list(color = '#FF8C00'))
add_trace(x=Q31.no$S5_cluster, y=Q31.no$freq.wgt, name='No', marker = list(color = '#DC143C'))
layout(barmode = 'stack')
```

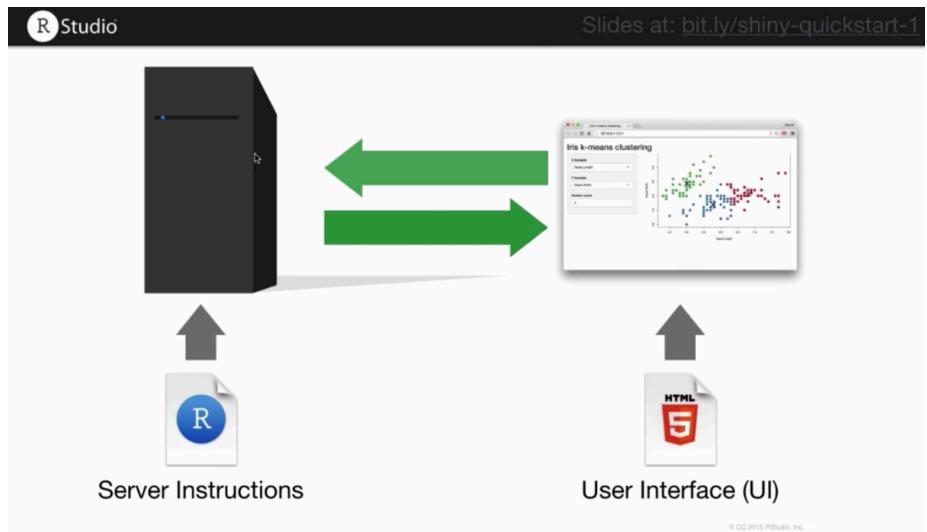
You can find more examples of using `plotly` on their website: <https://plotly.com/r/>.

5.3 Web app with RShiny

This Shiny tutorial was edited based on the official tutorial on the website

With RShiny, it is possible to make the functions in your R script available to people who don't necessarily know R. For example, in this app, you can create different types of graph by selecting a site and other parameters. Basically, it's web development using the power of R libraries.

So, just like any web tools, an RshinyApp has components on the User and



Server side.

The visual appearance of the app can be modified in the user component. You can use it to change layout, font size, color, etc. Whereas on the server side, you can customize how your app responds to user inputs/interactions.

A basic **ShinyApp** starter template looks like this:

```
library(shiny)
ui <- fluidPage()
server <- function(input, output){}
shinyApp(ui=ui, server=server)
```

If you run the script above, it will give you an empty page. Some content will show when you add some (text) elements with `fluidPage`.

```
ui <- fluidPage('Hello world')
server <- function(input, output){}
shinyApp(ui=ui, server=server)
```

5.3.1 Input functions

For richer content, the `shiny` package has built-in functions that will allow you to create them. `sliderInput` for example adds a slider in your web app.

```
ui <- fluidPage(
  sliderInput(inputId='num',
              label='Choose a number',
              value=25, min=1, max=100)
)
server <- function(input, output){}
shinyApp(ui=ui, server=server)
```

`sliderInput` is part of a group of function called `inputs`. These functions allow an Rshiny developper like yourself to add html element that will serve as user input. Here are some input functions you can try:

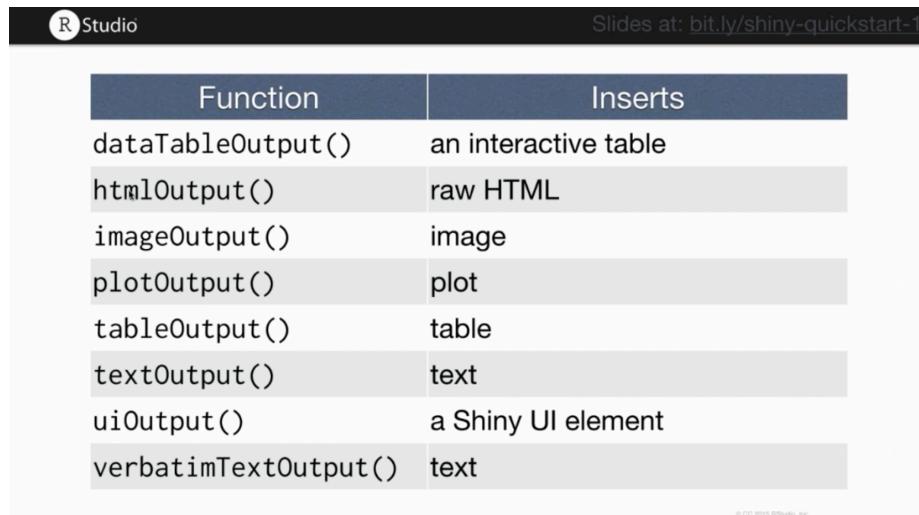
| | | | |
|---|--|--|------------------------------|
| Buttons | Single checkbox | Checkbox group | Date input |
| Action Submit | <input checked="" type="checkbox"/> Choice A | <input checked="" type="checkbox"/> Choice 1 <input type="checkbox"/> Choice 2 <input type="checkbox"/> Choice 3 | 2014-01-01 |
| <code>actionButton()</code> <code>submitButton()</code> | <code>checkboxInput()</code> | <code>checkboxGroupInput()</code> <code>dateInput()</code> | |
| Date range | File input | Numeric input | Password Input |
| 2014-01-24 to 2014-01-24 | Choose file No file chosen | 1 | |
| <code>dateRangeInput()</code> | <code>fileInput()</code> | <code>numericInput()</code> | <code>passwordInput()</code> |
| Radio buttons | Select box | Sliders | Text input |
| <input checked="" type="radio"/> Choice 1 <input type="radio"/> Choice 2 <input type="radio"/> Choice 3 | Choice 1 | 0 50 100 0 25 75 100 | Enter text... |
| <code>radioButtons()</code> | <code>selectInput()</code> | <code>sliderInput()</code> | <code>textInput()</code> |

© CC 2013 RStudio, Inc.

All input functions take as first 2 arguments: `inputId` and `label`. `inputId` is an ID that R will use to create the input element in a webpage and to reference it later. `label` is just a text that the user will see, describing what the input element is for. The rest of the arguments are function-specific.

5.3.2 Output functions

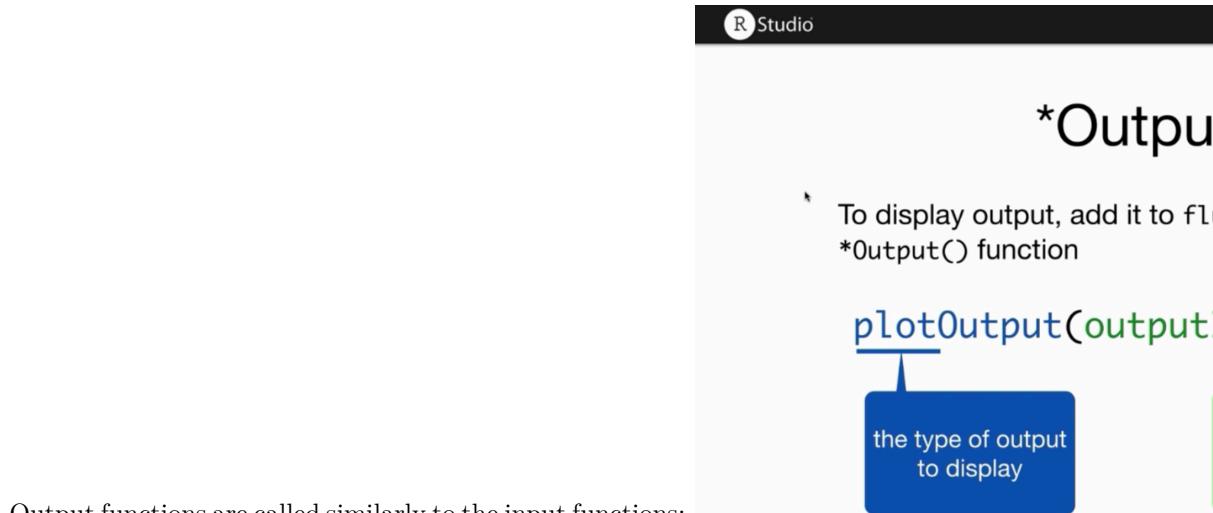
Output functions, on the other hand, allow you to add outputs of R into your web page. As you know, these outputs can be image, plot, table, text, etc. And there are specific output functions for each type of output.



A screenshot of the RStudio interface showing a table titled "R Studio". The table has two columns: "Function" and "Inserts". The "Function" column lists eight functions: dataTableOutput(), htmlOutput(), imageOutput(), plotOutput(), tableOutput(), textOutput(), uiOutput(), and verbatimTextOutput(). The "Inserts" column describes what each function inserts: an interactive table, raw HTML, image, plot, table, text, a Shiny UI element, and text respectively.

| Function | Inserts |
|----------------------|----------------------|
| dataTableOutput() | an interactive table |
| htmlOutput() | raw HTML |
| imageOutput() | image |
| plotOutput() | plot |
| tableOutput() | table |
| textOutput() | text |
| uiOutput() | a Shiny UI element |
| verbatimTextOutput() | text |

Figure 5.1: Rshiny output functions



Output functions are called similarly to the input functions:

Here is our app with an output function:

```
ui <- fluidPage(
  sliderInput(inputId='num',
              label='Choose a number',
              value=25, min=1, max=100),
  plotOutput('hist')
)
server <- function(input, output){}
```

```
shinyApp(ui=ui, server=server)
```

Running the previous script won't show any plot though. It just reserve a space in the webpage for plot with id: 'hist'. To actually create the plot, you must use the server function.

5.3.3 Server function

Server function creates the interactivity in your web application, i.e. this is where you set up how an output (ex: graph) changes with the user input (ex: some number). However, there are 3 rules that has to be followed and it is summarized in this script:

```
function(input, output){
  #1 outputId is the outputId you defined with output function
  #2 to render on a webpage. To render a plot, use renderPlot()
  output$outputId <- renderSomething({
    #3 inputId is the inputId you defined with input function
    someFunction(input$inputId)
  })
}
# Anything inside the curly braces is an R code. And it can be multiple lines of code.
```

In summary, you must define output variable by the `outputId` and prefixing it with `output$`. You must call the R script that will produce the output with a `render*({})` function. And you must call the user input with its `inputId` and prefixing it with `input$`.

In our example script, we can render it as follow:

```
ui <- fluidPage(
  sliderInput(inputId='num',
              label='Choose a number',
              value=25, min=1, max=100),
  plotOutput('hist')
)
server <- function(input, output){
  output$hist <- renderPlot({
    title <- paste(input$num, 'random normal values')
    hist(rnorm(input$num), main=title, xlab='values')
  })
}
shinyApp(ui=ui, server=server)
```

To make much more advanced app, simply read the instructions on Rshiny website.

5.3.4 Sharing your app

Now you can create your own Shiny app. But for now you can only run it in your computer and no one else has access to it. To make available to the public:

1. Save the `ui` and `server` objects/scripts into a stand alone R script, name it `app.R`, and save it in a separate folder. You must name it `app.R` as that's the file that the server will look for when you deploy your app. For this example, I'd save this as `app.R`

```
ui <- fluidPage(  
  sliderInput(inputId='num',  
              label='Choose a number',  
              value=25, min=1, max=100),  
  plotOutput('hist')  
)  
server <- function(input, output){  
  output$hist <- renderPlot({  
    title <- paste(input$num, 'random normal values')  
    hist(rnorm(input$num), main=title, xlab='values')  
  })  
}
```

2. Go to shinyapps.io and log in or sign for an account.
3. Now simply run the app on your computer
4. In the top right cover of R viewer window, there is a Publish button that you can use to publish your app.
5. Simply follow the instructions.

Chapter 6

Analysis

Work in progress...

Chapter 7

Resources

7.1 Data

Here is a non-exhaustive list of data resources for environmental studies.

| Region | URL | Topics |
|--------------|---|---------------------------------------|
| World Cities | http://www.worldclimate.com/ | Temperature, Rainfall, Sea-level |
| US | https://climatecommunication.yale.edu/ | Yale Program on Climate Change |
| US | https://data.census.gov/cedsci/ | Census surveys |
| US | https://www.epa.gov/ejscreen/download-ejscreen-data | Environmental justice |
| US | https://www.data.gov/ | Agriculture, Climate, Consumption |
| US | https://simplyanalytics.com/ | Demography, Business, Health |
| US | https://www.ncdc.noaa.gov/cdo-web/datatools | Climate, Weather |
| US | https://www.epa.gov/outdoor-air-quality-data | Air quality |
| US | https://www.americancommunities.org/methodology/ | Communities |
| US | https://tidesandcurrents.noaa.gov/products.html | Sea water levels |
| US | https://www.waterqualitydata.us/ | Water quality |
| US | https://waterdata.usgs.gov/nwis/qw | Water quality |
| US | https://hifld-geoplatform.opendata.arcgis.com/ | Agriculture, Borders, Boundaries |
| OECD | https://data.oecd.org/ | Agriculture, Development, Economics |
| Multipile | https://www.kdnuggets.com/datasets/index.html | Multiple |
| Multiple | https://www.kaggle.com/datasets | Multiple |
| Multiple | https://data.fivethirtyeight.com/ | Multiple |
| Global | https://csssi.yale.edu/ | Yale CSSSI |
| Global | https://yceo.yale.edu/image-sources | Yale Center for Earth Observatory |
| Global | https://osf.io/ | Multiple |
| Global | https://data.worldbank.org/ | Development |
| Global | https://data.humdata.org/ | Humanitarian |
| Global | https://climatedataguide.ucar.edu/climate-data | Geospatial data resources |
| Global | http://chelsa-climate.org/downloads/ | Climate predictions, timeseries |
| Global | https://ourworldindata.org/ | Health, Demographic Change |
| Global | http://aqicn.org/data-platform/register/ | Air quality |
| Global | https://globalfishingwatch.org/datasets-and-code/ | Fishing |
| Global | https://www.gbif.org/ | Biodiversity occurrences |
| Global | https://data.globalforestwatch.org/ | Forest Change, Land Use, Conservation |
| Global | https://resourcewatch.org/data/explore | Food, Climate, Energy, Water |
| Europe | https://www.eea.europa.eu/data-and-maps | Air pollution, Biodiversity – Europe |
| Coastal | https://data.unep-wcmc.org/ | Ecosystem, Biodiversity |

7.2 EDS Course Map

Here are the suggested courses at Yale and tracks to improve your data science skills.

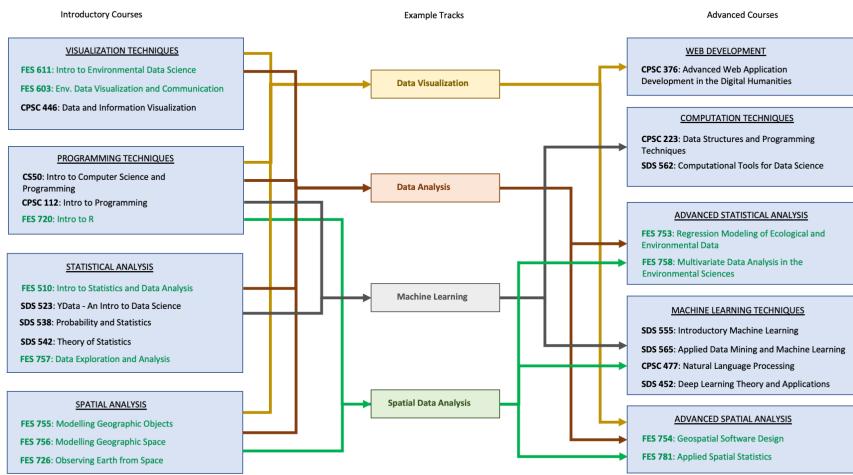


Figure 7.1: EDS Course Map