

R Code for Examples in the book

"Statistics: The Art and Science of Learning from Data" by Agresti, Franklin and Klingenberg, 5th edition

Chapter 2

Example 17: Pollution Outliers – z-Scores

Read in CO2 pollution values:

eu_co2 <- read.csv(file='http://www.artofstats.com/data/chapter2/EU_CO2.csv')
attach(eu_co2) # so we can refer to variable names</pre>

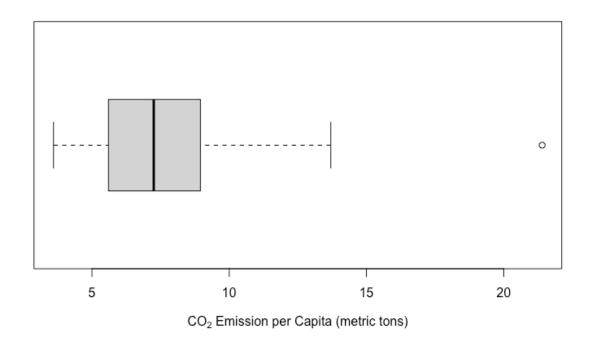
To find the z-score for the CO2 value of Luxembourg

```
z_score_Luxembourg <- (21.4 - mean(CO2)) / sd(CO2)
z_score_Luxembourg
## [1] 3.749518</pre>
```

To find the z-score for the CO2 value of the United States

```
z_score_US <- (16.9 - mean(CO2)) / sd(CO2)
z_score_US
## [1] 2.502977</pre>
```

Basic Box Plot



A better-looking box plot can be obtained with the ggplot2 library. To install it, type install.packages('ggplot2').

EU Air Pollution Data



