



R Code for Examples in the book
"Statistics: The Art and Science of Learning from Data"
 by Agresti, Franklin and Klingenberg, 5th edition

Chapter 10

Example 8: Confidence Interval for the Difference of Two Means

Reading in data

```
effectiveness <-  
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapter10/text_and_graph.csv')
```

To subset data to make the two groups

```
textAndGraph <- subset(effectiveness, Graph == 'Yes')  
textOnly <- subset(effectiveness, Graph == 'No')
```

To find a 95% confidence interval for the difference of two means

```
t.test(textAndGraph$Rating, textOnly$Rating, conf.level = 0.95)  
  
##  
## Welch Two Sample t-test  
##  
## data: textAndGraph$Rating and textOnly$Rating  
## t = 2.1019, df = 57.515, p-value = 0.03995  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 0.03344012 1.37516203  
## sample estimates:  
## mean of x mean of y  
## 6.833333 6.129032
```