



R Code for Examples in the book

*“Statistics: The Art and Science of Learning from Data”*

by Agresti, Franklin and Klingenberg, 5<sup>th</sup> edition

## Chapter 10

### Example 14: Reaction Time – Comparing Means for Two Dependent Samples

#### Reading in data

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

To compare the means for two dependent samples, you can add the `paired = TRUE` as another argument for the `t.test()` function

```
t.test(data$Yes, data$No, paired = TRUE)
```

```
##  
## Paired t-test  
##  
## data: data$Yes and data$No  
## t = 5.4563, df = 31, p-value = 5.803e-06  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 31.70186 69.54814  
## sample estimates:  
## mean of the differences  
## 50.625
```