

Stats-Project-2-Part-2

Inputing the data into Variables and running the Anova test

```
youtubeTimes <- c(72, 72, 72, 72, 72, 72, 72)
prototypeTimes <- c(140, 90, 129, 109, 167, 201, 155)

allTimes <- c(youtubeTimes, prototypeTimes)
groups <- c(rep("YouTube", length(youtubeTimes)),
            rep("Prototype", length(prototypeTimes)))

mean(youtubeTimes)
```

```
## [1] 72
```

```
sd(youtubeTimes)
```

```
## [1] 0
```

```
mean(prototypeTimes)
```

```
## [1] 141.5714
```

```
sd(prototypeTimes)
```

```
## [1] 37.05787
```

```
times.anova <- aov(allTimes ~ groups)
summary(times.anova)
```

```
##           Df Sum Sq Mean Sq F value    Pr(>F)
## groups      1  16941    16941   24.67 0.000327 ***
## Residuals   12   8240      687
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
t.test(youtubeTimes, prototypeTimes, paired = TRUE, alternative = "greater", conf.level = 0.95)
```

```
##
## Paired t-test
##
## data:  youtubeTimes and prototypeTimes
```

```
## t = -4.9671, df = 6, p-value = 0.9987
## alternative hypothesis: true difference in means is greater than 0
## 95 percent confidence interval:
##  -96.7887      Inf
## sample estimates:
## mean of the differences
##                -69.57143
```