W241 Power Analysis R Notebook

```r
# install.packages(c("pwr", "data.table","sandwich","stargazer"))
```

```r
# Library Imports
library(data.table)
library(pwr)
```

Power Analysis

H_0: $\xi_t = \xi_c$ - There is no significant difference in the average survey quizlet results before the control and the treatment groups.

H_a: $\xi_t \neq \xi_c$

Using a two-tailed test:

```r
pwr.t.test(sig.level = 0.05,
           alternative = "two.sided",
           power = 0.80,
           d = .5)
```

```
##
##      Two-sample t test power calculation
##
##              n = 63.76561
##              d = 0.5
##      sig.level = 0.05
##          power = 0.8
##    alternative = two.sided
##
## NOTE: n is number in *each* group
```