notes

R Markdown

Today, daddy fung preached to us two different t tests, which he did this

```
t.test(gain ~ diet, var.equal = TRUE, data = dietData)
```

```
##
##  Two Sample t-test
##
## data:  gain by diet
## t = -3.1015, df = 18, p-value = 0.006159
## alternative hypothesis: true difference in means between group Diet1 and group Diet2 is not equal to
## 95 percent confidence interval:
##  -44.154430  -8.492035
## sample estimates:
## mean in group Diet1 mean in group Diet2
##            100.2222            126.5455
```

```
#alternative way
t.test(dietData$gain ~ dietData$diet, var.equal = TRUE)
```

```
##
##  Two Sample t-test
##
## data:  dietData$gain by dietData$diet
## t = -3.1015, df = 18, p-value = 0.006159
## alternative hypothesis: true difference in means between group Diet1 and group Diet2 is not equal to
## 95 percent confidence interval:
##  -44.154430  -8.492035
## sample estimates:
## mean in group Diet1 mean in group Diet2
##            100.2222            126.5455
```

he then taught us the paired t test, which looks like this

```
##
##  Paired t-test
##
## data:  dogData$seven.months and dogData$Two.months
## t = 2.6061, df = 9, p-value = 0.02845
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.03035404 0.42964596
## sample estimates:
## mean of the differences
##                    0.23
```

this is a wrong test, this ignores subjects in 2 samples

t.test(dogs$seven.months, dogs$Two.months,var.equal = TRUE)

not working test