Course Project: Part 2
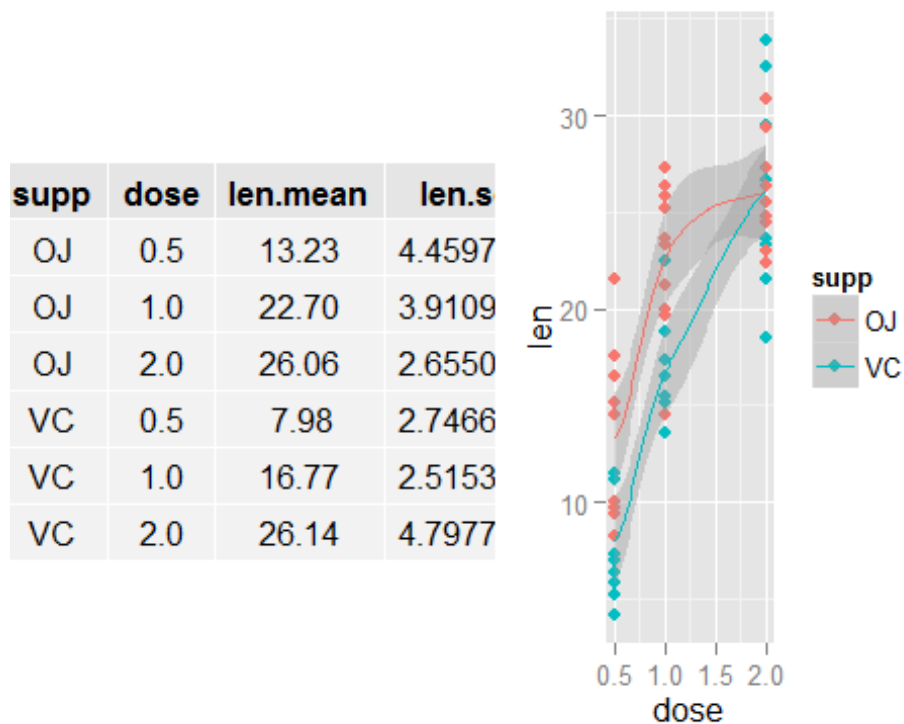
Aliaksei Sysa

November 23, 2014

```
## Warning: package 'knitr' was built under R version 3.1.2

## Warning: package 'gridExtra' was built under R version 3.1.2
```
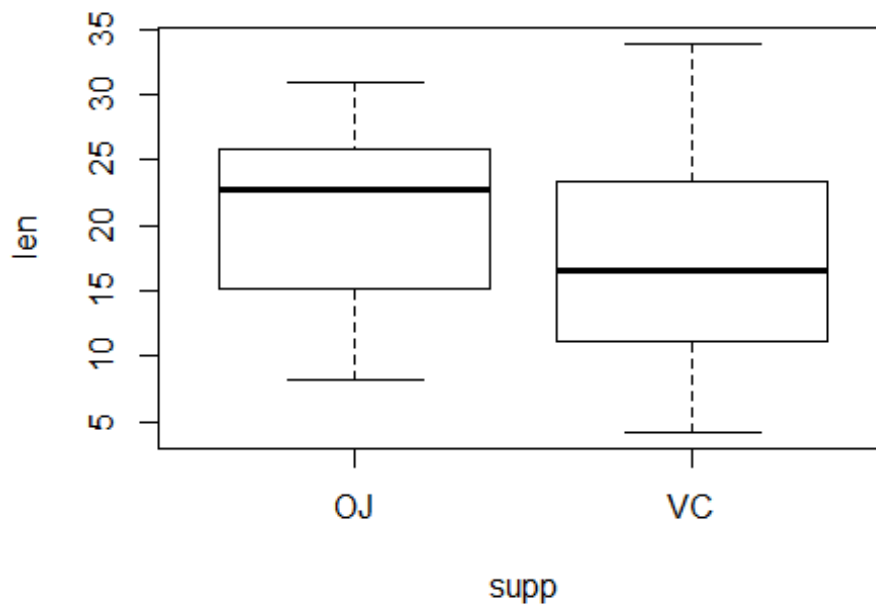
Summary of means and standard deviations of each supplement and dose combination.

supp	dose	len.mean	len.s
OJ	0.5	13.23	4.4597
OJ	1.0	22.70	3.9109
OJ	2.0	26.06	2.6550
VC	0.5	7.98	2.7466
VC	1.0	16.77	2.5153
VC	2.0	26.14	4.7977

Hypothesis: OJ corresponds to greater tooth growth than VC across all dosages.
Assumptions: Subjects are not identical in the two groups.

Tooth growth by suppliment across all dosages.


```
##
##   Welch Two Sample t-test
##
## data:  len by supp
## t = 1.9153, df = 55.309, p-value = 0.03032
## alternative hypothesis: true difference in means is greater than 0
## 95 percent confidence interval:
##   0.4682687       Inf
## sample estimates:
## mean in group OJ mean in group VC
##         20.66333         16.96333
```

CI is entirely greater than 0, which suggests OJ corresponds to greater tooth growth.