Statistical Inference Project Part 2

Damien Edwards January 22, 2015

This is an analysis of the ToothGrowth data in the R datasets package. The analysis will provide a basic summary of the data and use confidence intervals and/or hypothesis tests to compare tooth growth by supp and dose. ## Load ToothGrowth data

Summary of ToothGrowth dataset

```
ToothGrowth$dose <- as.factor(ToothGrowth$dose)
summary(ToothGrowth)</pre>
```

```
##
         len
                    supp
                             dose
##
           : 4.20
                            0.5:20
    Min.
                    OJ:30
    1st Qu.:13.07
                    VC:30
                            1 :20
##
  Median :19.25
                            2 :20
           :18.81
##
   Mean
##
    3rd Qu.:25.27
  Max.
           :33.90
```

table(ToothGrowth\$supp, ToothGrowth\$dose)

Boxplot of ToothGrowth Dose Summary

