ToothGrowth Data Analysis

Christopher Jones

November 21, 2017

Data Loading & Basic Exploratory Analysis

Load & simple analysis here.

```
# chunk 1 code
library(datasets)
data(ToothGrowth)

str(ToothGrowth)
```

```
## 'data.frame':    60 obs. of  3 variables:
##  $ len : num  4.2 11.5 7.3 5.8 6.4 10 11.2 11.2 5.2 7 ...
##  $ supp: Factor w/ 2 levels "OJ","VC": 2 2 2 2 2 2 2 2 2 2 ...
##  $ dose: num  0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 ...
```

```
head(ToothGrowth, 5)
```

```
##    len supp dose
## 1  4.2   VC  0.5
## 2 11.5   VC  0.5
## 3  7.3   VC  0.5
## 4  5.8   VC  0.5
## 5  6.4   VC  0.5
```

```
summary(ToothGrowth)
```

```
##       len        supp         dose
##  Min.   : 4.20   OJ:30   Min.   :0.500
##  1st Qu.:13.07   VC:30   1st Qu.:0.500
##  Median :19.25           Median :1.000
##  Mean   :18.81           Mean   :1.167
##  3rd Qu.:25.27           3rd Qu.:2.000
##  Max.   :33.90           Max.   :2.000
```

```
#head(data.frame(x,y))
```

Basic Summary of ToothGrowth Data

Short summary of the data

```
# chunk 2 code
2+2
```

```
## [1] 4
```

```
x <- 2+1
```

Tooth Growth Comparison By Supp And Dose

Use confidence intervals and/or hypothesis tests to compare tooth growth by supp and dose.

```
# chunk 3 code
y <- x + 4
```

Conclusions

State conclusions, assumptions.

```
# chunk 4 code
x + y
```

```
## [1] 10
```