

Statistical Inference - Course Project: Analysis of ToothGrowth

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Overview

In this paper we examine the ToothGrowth dataset, using confidence intervals and hypothesis testing.

Objective 1: Data Load and Exploratory Analysis

The first step is to load the ToothGrowth data, and conduct some exploratory analysis. I find that a nice way of doing this is by visualizing the data. I used *summary* and *head* as well as a description of the dataset[1].

```
data("ToothGrowth")

# How the data is displayed in the ToothGrowth documentation
require(graphics)
coplot(len ~ dose | supp, data = ToothGrowth, panel = panel.smooth,
       xlab = "ToothGrowth data: length vs dose, given type of supplement")

# How I like to display the data
library(ggplot2)
```

Given : supp

