

# Inference Assignment 1b

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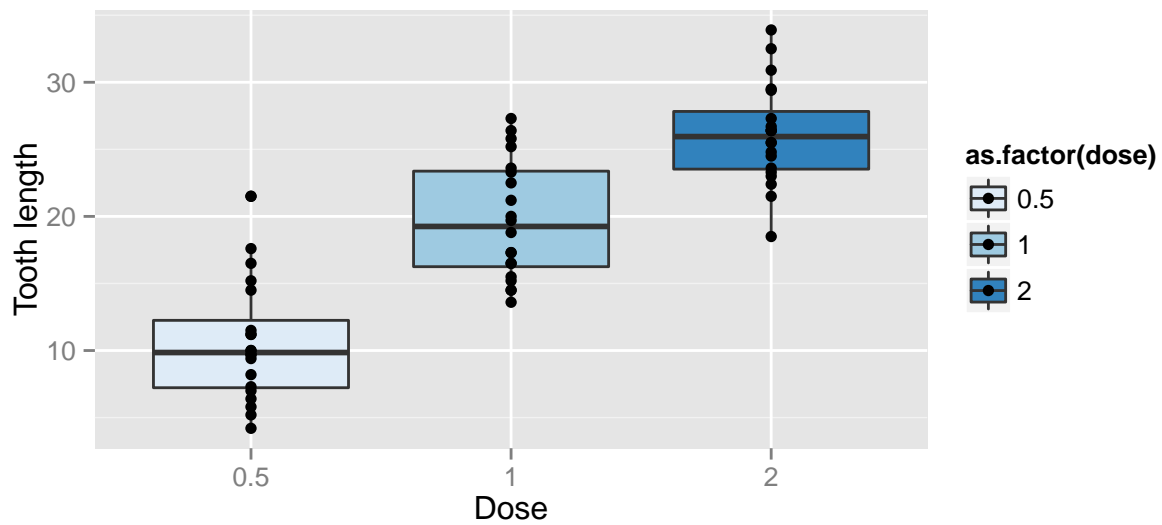
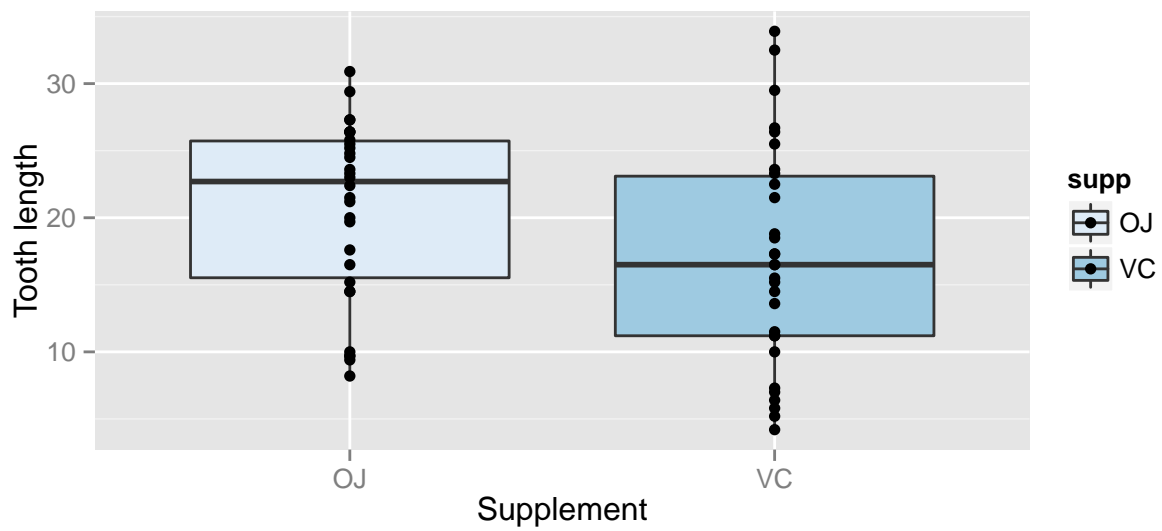
## Assignment

Now in the second portion of the class, we're going to analyze the ToothGrowth data in the R datasets package.

1. Load the ToothGrowth data and perform some basic exploratory data analyses
2. Provide a basic summary of the data.
3. Use confidence intervals and/or hypothesis tests to compare tooth growth by supp and dose. (Only use
4. State your conclusions and the assumptions needed for your conclusions.

## Part 1

For exploratory data analysis, let's take look at some box plots:



In the first plot we can see, that the supplement type, OJ and VC, has an effect on tooth length as OJ supplement seems to lead to increased tooth length. A pattern arising from different dose levels is very obvious in the second boxplot, where the boxes resolve tooth length by dose levels. Higher doses obviously lead to increased tooth length.

## Part 2