

# Assignment 1

Student #: 23088091

Name : Sean Peralta Garcia

## 1. Executive Summary

## 2. Introduction

- talk about literature reviews
- explain how i think that the house prices in saratoga will largely follow the patterns seen in other places
- explain my data - prices and variables from houses in saratoga and what - all details about property
  - assumed that the prices of the properties are taken at the same time (demand pressures)
  - data is only intrinsic to property, no location data - same neighbourhood so assume this is a non factor
  - different types of independent variables
- state my hypothesis and aims of analysis

## 3. Methodology

- `plot()` - plots all combinations of terms
  - only use some in results - ones of note
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**plot measures with different factors and if the least squares difference line crosses then it has interaction**

- mathematical justification for choosing transformation
- find relationship approx linear
- with approx constant variance
- scatter plot to see if there are any obvious transformations
  - and least squares regression line to find outliers (find points above and below line)
  - residuals vs fitted and select outliers more than 2std deviations
- fit a linear model wk2 and 3 lab - no r code shown
- residual plot to see what variables should be transformed

- estimated regression line
- cross table
- residual plot

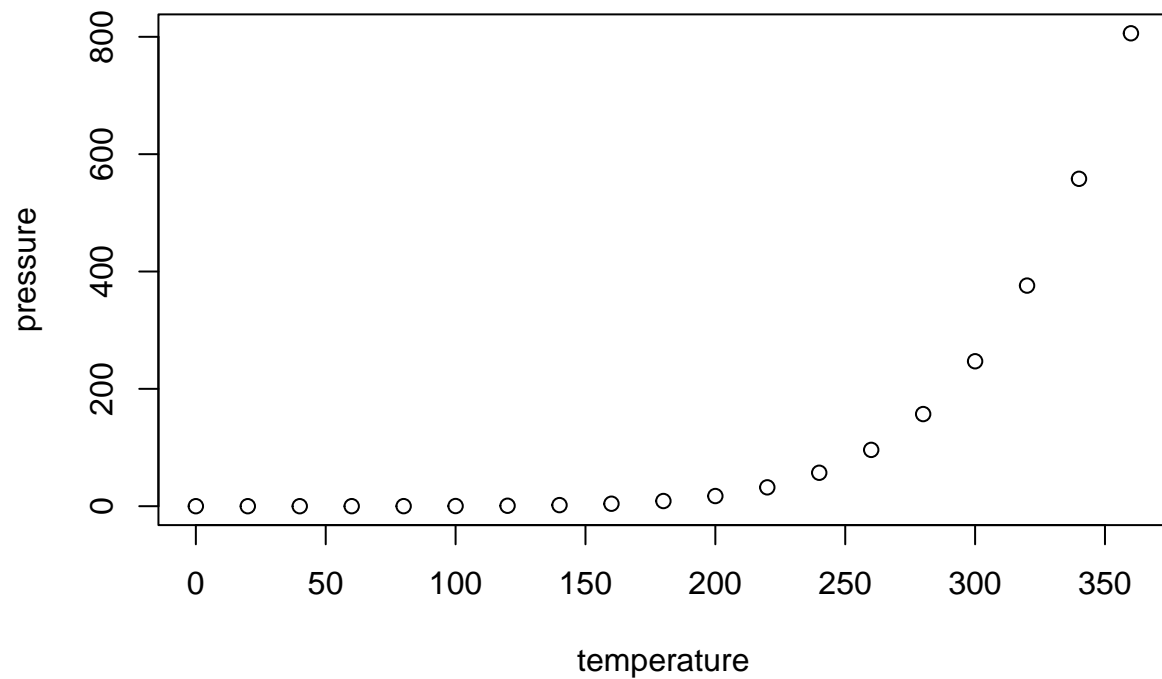
## 4. Results

## 5. Discussion

## 6. References

### Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.