Statistics for Experimentalists Project: COVID19 Cases in Los Angeles

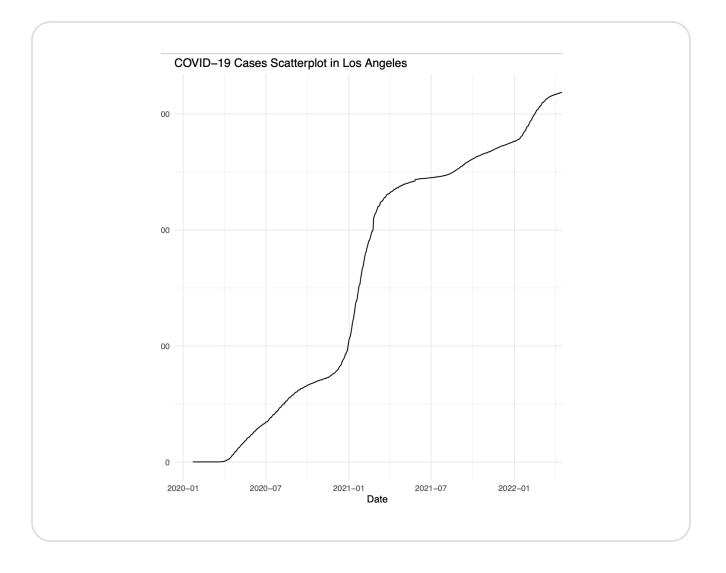
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Mean and Standard Deviation of Cases

- O Mean of All Cases: 134.952453767264
- O Mean of LA Cases: 16111.31
- O Standard Deviation of All Cases: 622.804053693512
- O Standard Deviation of LA Cases: 11169.54
- O Dates Range: January 22, 2020 April 16, 2022

Table

Scatterplot

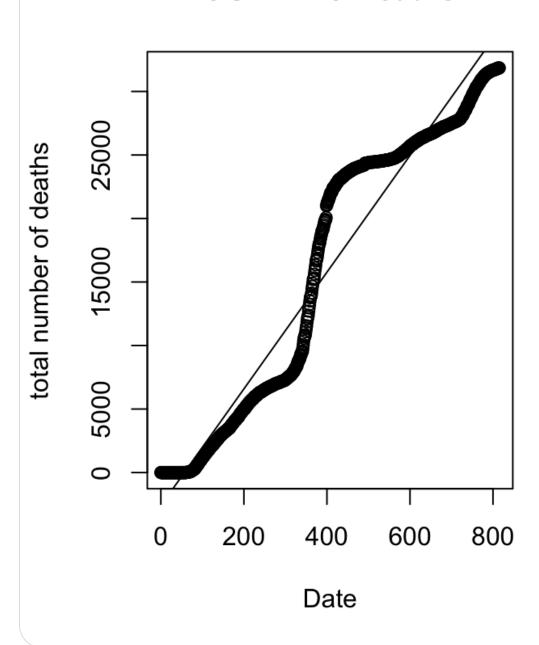


Hypothesis Test

One Sample t-Test

- O t = 40.859
- O df = 815
- O p-value < 0.00000000000000022
- O H_A : $\mu > 134.9525$
- O H_o : $\mu = 134.9525$
- O 95% confidence interval: (15467.42,∞)

COVID-19 Deaths



Linear Regression

$$r = 0.961694$$

$$\hat{y} = -2604.00 + 45.93\hat{x}$$

All Data

r = 0.1454277 $\hat{y} = -21.7323 + 0.3845\hat{x}$

