

ML Chapter 5

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Multiple Linear Regression

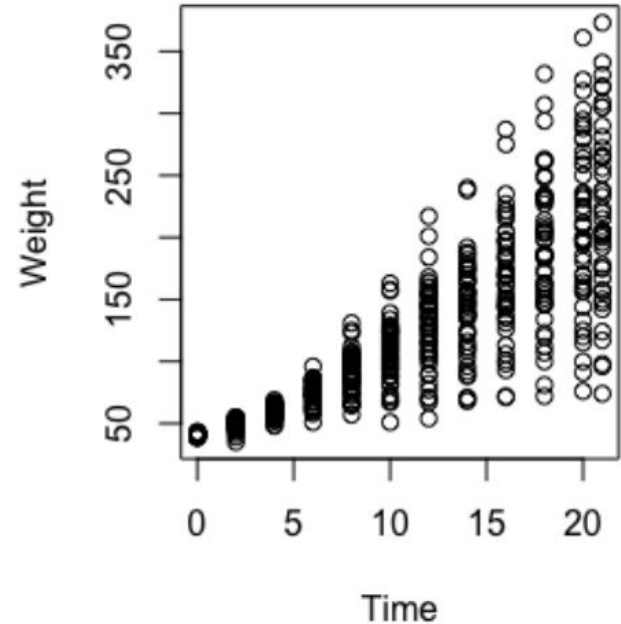
We can use a target, with multiple predictors. This mapping and graphing is called Linear Regression.

- Multiple linear regression we use more than one predictor

Plot 1

We can use this plot to get a visual representation of this data over time with weight and time as the predictors.

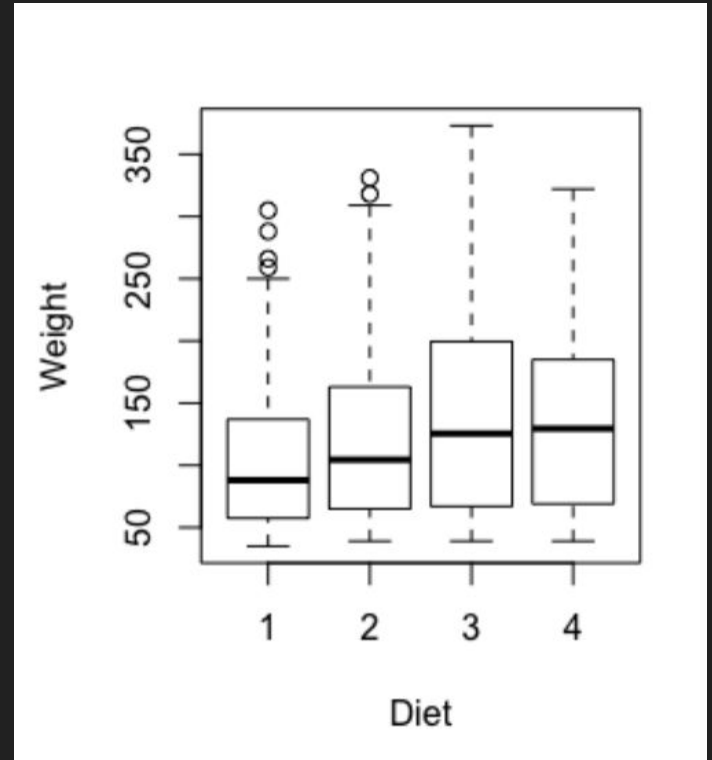
- We can see the weight of the chicks increase over time.
- Chicks start off at near identical weights and diverge over time



Plot 2 (Box Plot)

We can also use this information in box plot form.

- Box plots show the median value as the horizontal line through the box
- the box itself shows the IQR (inter-quartile range from the first to the third quartile)
- the horizontal lines at the end of the dashed lines show minimum and maximum values



Plot 2 (Box Plot continued...)

This box plot show the relationship of chick weight v.s their diet.

- plot on the right shows the impact of diet on weights
- diet 4 is slightly better than diet 3 and diet 1 appears to result in the lowest weights for chicks

