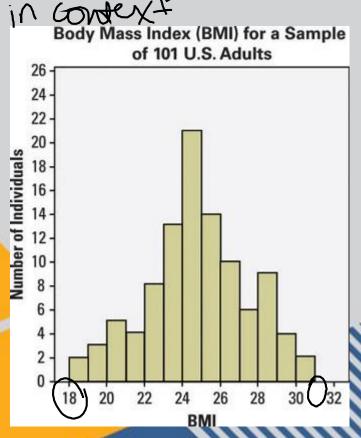
Wednesday, September 19, 2018 · Warm-up CUSS In Content (BMI) for a Sample

- - Describe the following distribution

The BMI distribution is fairly symmetric. The center Is approximately 25 BMI.
There seem to be no outliers on there seem to be no outliers on the seem to be range is the range is approximately 13 (from about 18 BMZ approximately 13 (from about 18 BMZ to about 31)



More with linear regression

Content/Language Objective: I will be able to correctly discuss the meaning of association and correlation using a scatterplot and correlation coefficient both in writing and with my group/teacher/class.

Social Objective: I will participate respectfully so that my classmates and I can be part of the lesson.



(0.30)

Looking at Scatterplots

- Scatterplots are the best way to start observing the relationship and the ideal way to picture associations between two quantitative variables.
- When looking at scatterplots, we will look for direction, form, strength, and unusual features.

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DIRECTION

- A pattern that runs from the upper left to the lower right is said to have a negative direction.
- A trend running the other way has a positive direction.

Content/Language Objective: Lwill be ab uss the meaning of association and correlation using a scatterplot and correlation coefficient both in writing and with my group/teacher/class.

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ESSENTIAL QUESTION: What is the difference between association and correlation and how is it reflected in a coefficient or scatterplot?

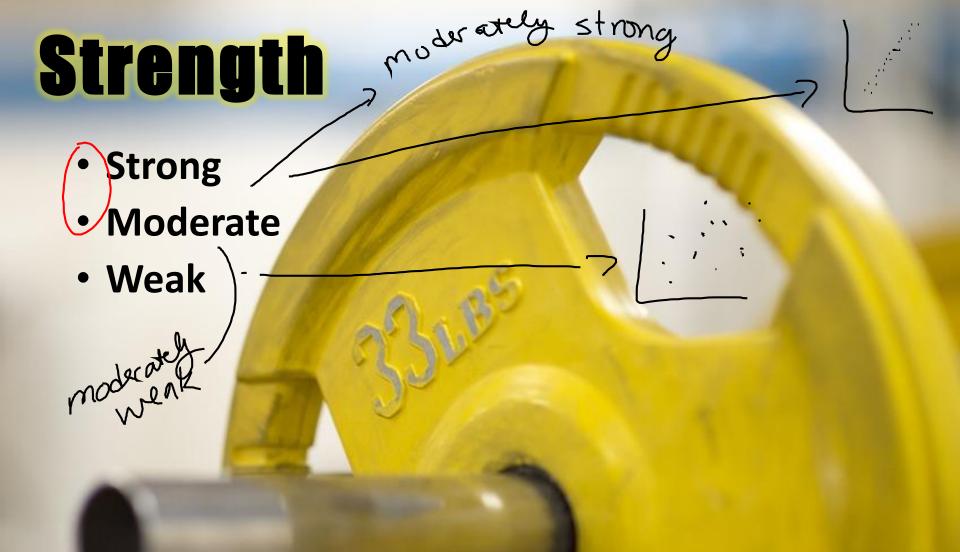
Slide 7 - 4



- Linear
- Nonlinear
- If nonlinear, we may be able to re-express the data to make it more linear

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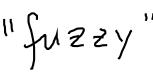
Unusual Fratures

 Look for the unexpected.

Outliers

Clusters

Subgroups





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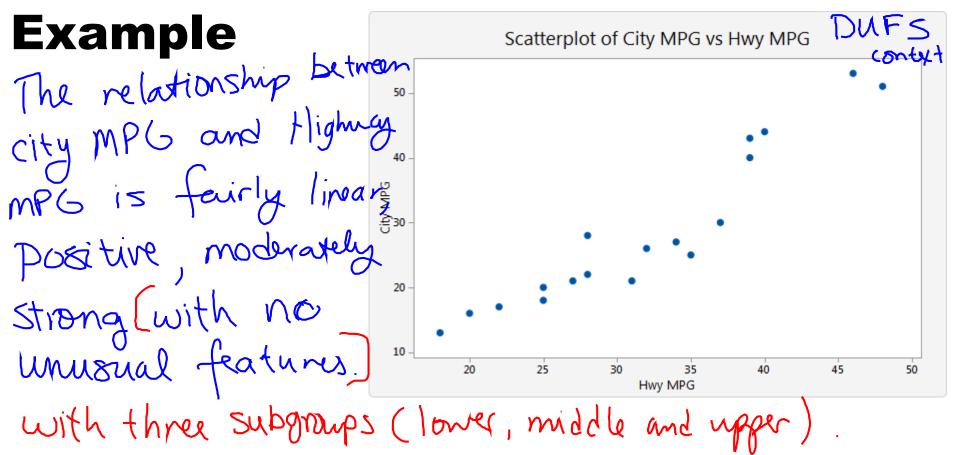
Roles for Variableson

 It is important to determine which of the two quantitative variables goes on the x-axis and which on the y-axis.

• When the roles are clear, the explanatory or predictor variable goes on the x-axis, and the response variable (variable of interest) goes on the y-axis.

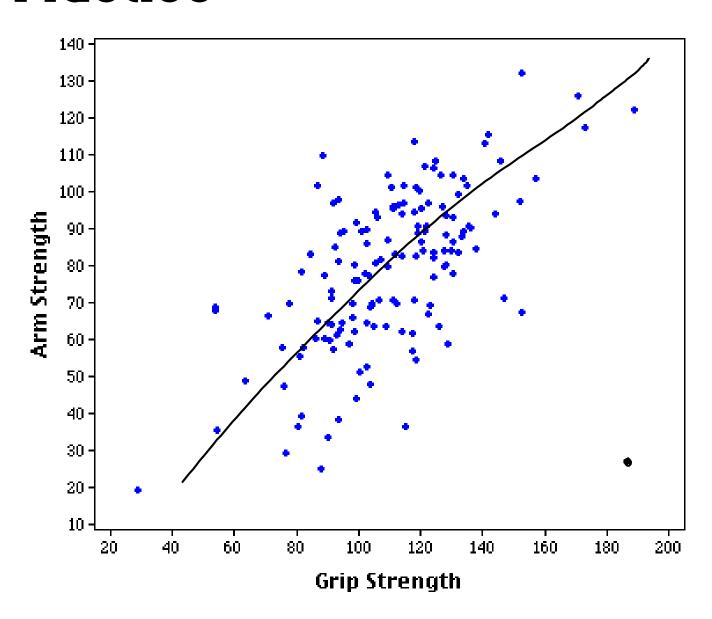
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Practice



Homework

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