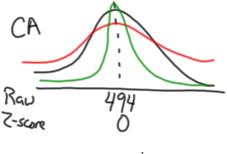
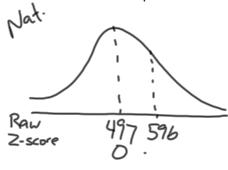


Z-Score Normal Pist -> Standard Normal

If you know the mean and standard deviation, then you can locate the percentage rank for any range of obs.
e.g. test scores.





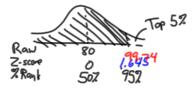
$$Z = \frac{X_i - \mu}{\sigma}$$

Take the ith observation for variable X and use the formula to translate into the Z-score

LZ-score is used to find the '/ rank.
L' rank and find the raw score that corresponds to it.

Ex. Test scores. $\mu=80$

What score denotes scoing above 95% of other students?



Z-score to Raw score formula

Ex: $\mu=80$, $\sigma=12$ What score corresponds to the top 252?
Bottom 2.52?



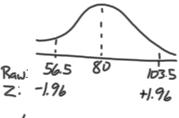
Z-500056.46 Perc Rank 21.516

1100.62 97.5 (1-0.005)

$$(1.\%)(12) + (80) = 103!$$

 $(-1.\%)(12) + (80) = 564$

Six-Sigma
(accurate or Knowledge
Within six standard often



-6 9. 99

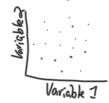
Air Pollution

> Import the data in

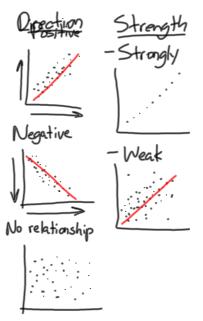
Excel

Correlation

- -Inferential statistics
 - L Measuring relationships between two or more Variables
 - L Graphically: Scatterplot

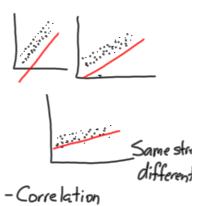


Types of relationships



Slope

- L The direction of the relationship.
- 1 Amount of Frade.



L Dicartion of roll