Standardization/Z-scoring

Example: Heptathlon scores in the 2012 Olympics

	athlete	run200	lj
1	Jessica Ennis	22.83	6.48
38	Tatyana Chernova*	23.67	6.54

which performance is more remarkable?

$$z = \frac{x - \bar{x}}{\sigma_x}$$

*was later disqualified for doping but we take these numbers as face values for the sake of our example

Standardization/Z-scoring

Example: Heptathlon scores in the 2012 Olympics