

누구나 캐글에 입문할 수 있다. (feat. 지방대/비전공/인문학도)

- 이상치의 개념



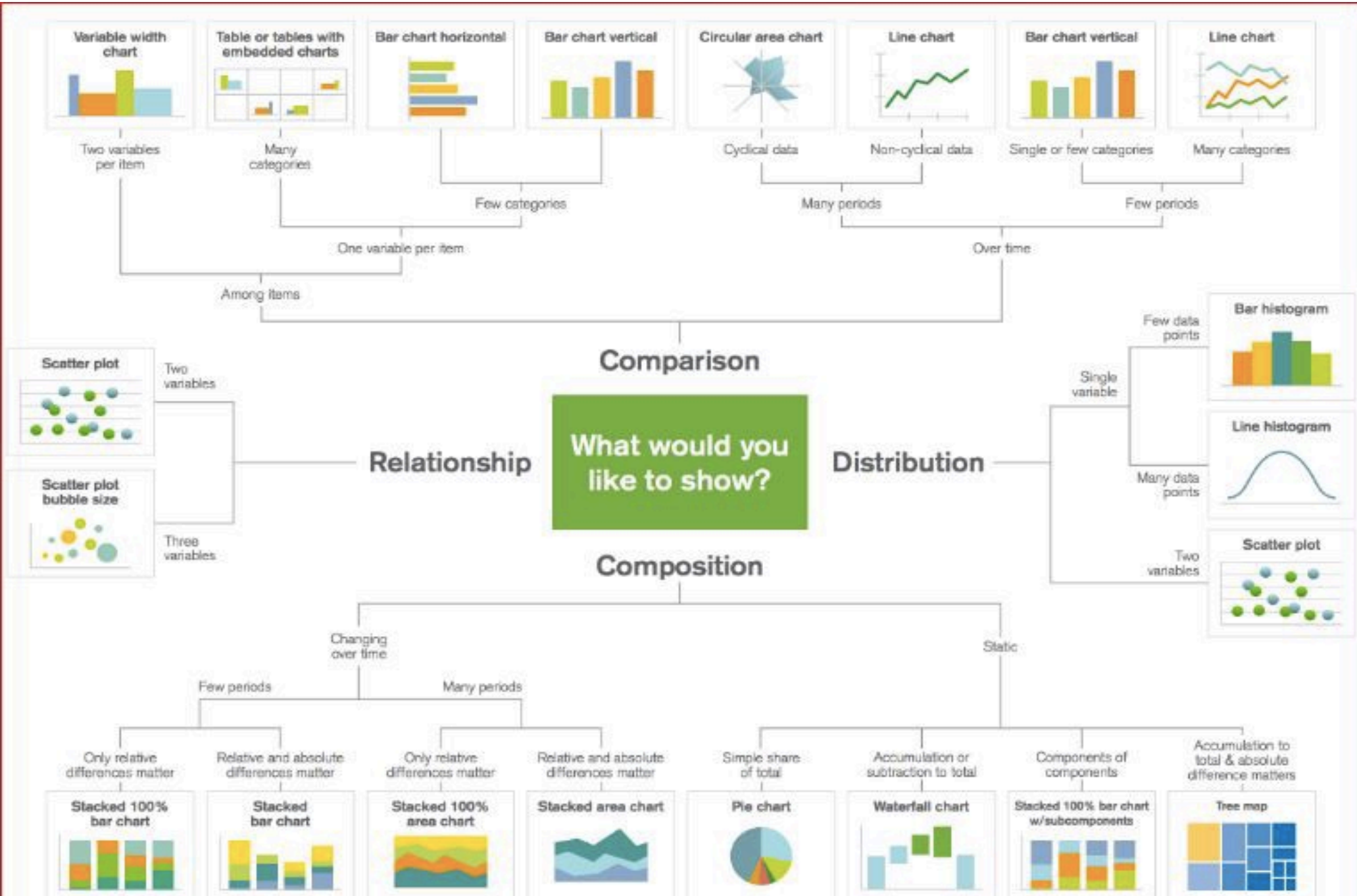
IP[y]: IPython
Interactive Computing





2-11 Graph with Outliers

이상치 판별 그래프





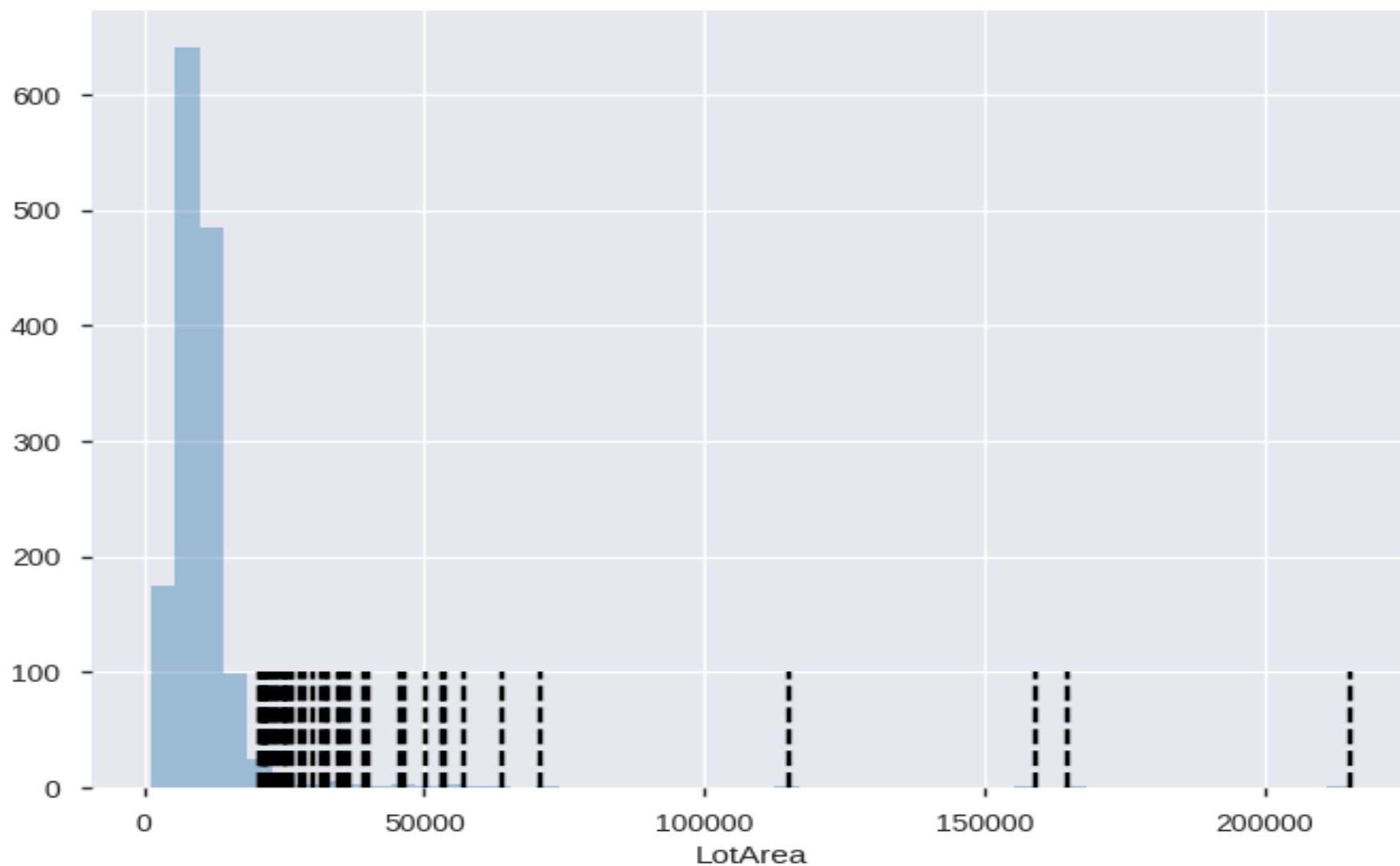
핵심은 평균과 실제 관측값과의 차이다!

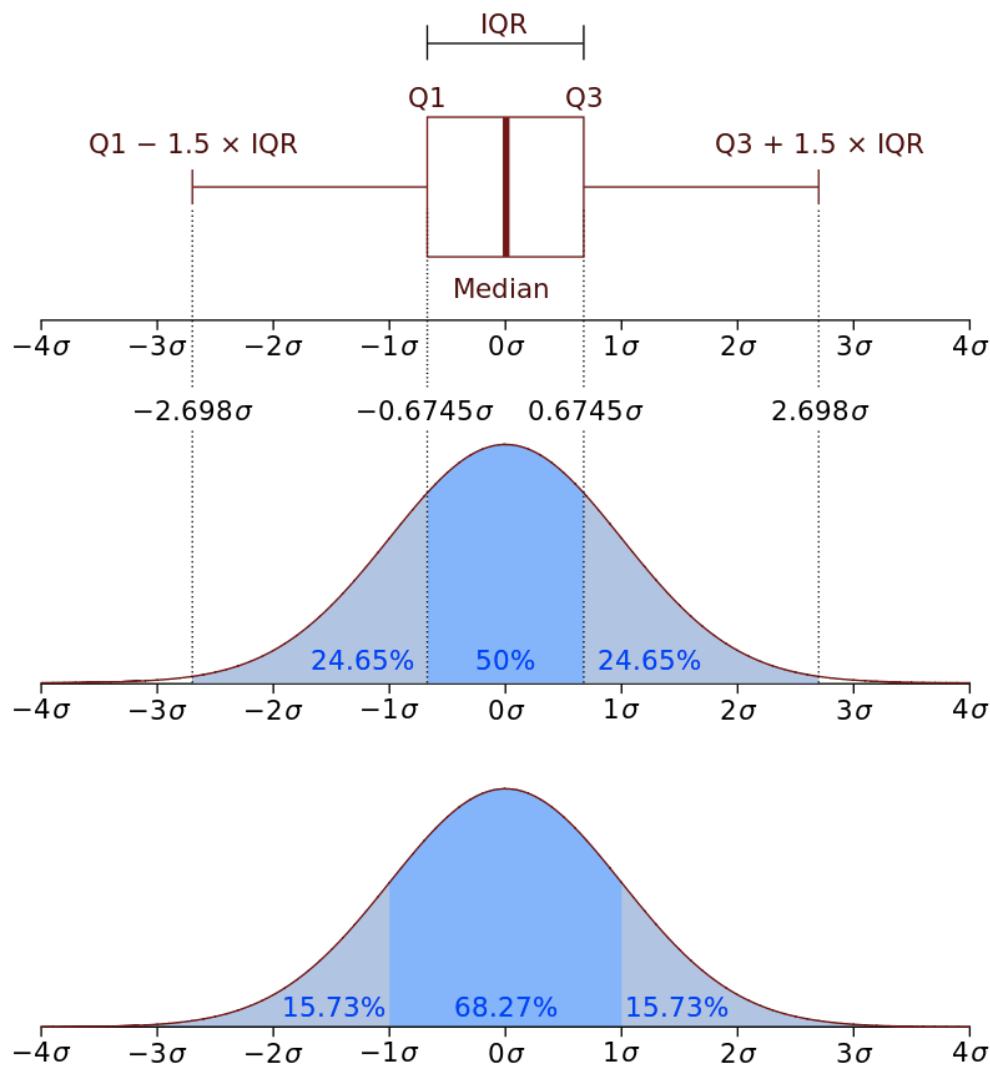
	Population	Sample
# of subjects	N	n
Mean	$\mu = \frac{\sum_{i=1}^N x_i}{N}$	$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$
Variance	$\sigma^2 = \frac{\sum_{i=1}^N (x_i - \mu)^2}{N}$	$S^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}$

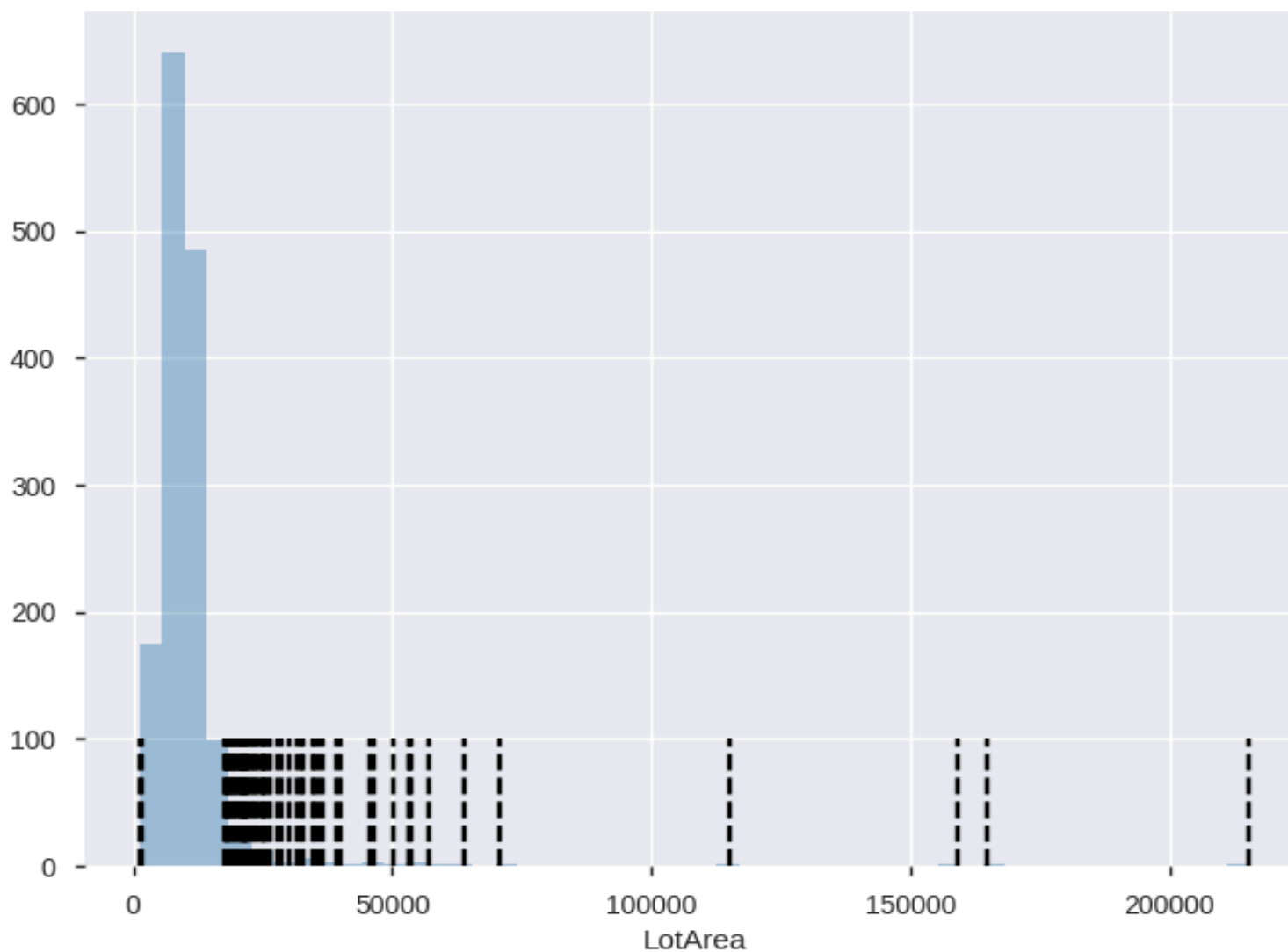
Note: S^2 is the formula for unbiased sample variance, since we're dividing by $n - 1$.

Standard deviation	$\sigma = \sqrt{\frac{\sum_{i=1}^N (x_i - \mu)^2}{N}}$	$S = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}}$
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Note: Finding S by taking $\sqrt{S^2}$ reintroduces bias.









Happy To Code