

Midterm Review

Categorical vs Quantitative

Categorical variables: data that cannot be ordered and only 1 category.
 Quantitative variables: data which data is measured with a numerical value.

Graphical Displays (1-var)

Categorical - bar graph, pie chart
Quantitative - dot plot, stem & leaf, histograms, time plot, boxplot



Describing Quantitative 1 Variable Distributions

C.S. 100

- Context** - State the who and what of the question
- Shape** - unimodal/bimodal/trimodal, skewed, symmetric, right/left/symmetric, bell-shaped, uniform, truncated
- Center** - μ unimodal, \bar{x} symmetric, median, \bar{x} skewed, median, \bar{x} skewed deviation, \bar{x} median, \bar{x} $(Q_3 - Q_1)$
- Spread** - range, IQR, variance, standard deviation

Shape of a Distribution of Quantitative Statistics



- position divides a graph to see if data is about the value
- area under a graph to see differences

Normal Curve / Distribution

Z-score = $\frac{x - \mu}{\sigma}$ = the number of σ from the mean μ value is



mean μ value is μ (unimodal)

(z-score is useful when comparing 2 variables from diff. distributions)



Standard deviation σ (area under curve)

area under curve / probability / population mean μ (e.g. $\mu = 2, \sigma = 1$) variance (σ^2) (e.g. $\sigma = 1, \sigma^2 = 1$)

Scatterplots (2-var)

Comparing 2 quantitative variables

- LR** - $y = a + bx$ (in context)
 y = predicted y
 x = explanatory variable, $a + b$ is predicted to be $a + b$ when $x = 0$
 b = slope = $\frac{\Delta y}{\Delta x}$ = increase in y for 1 unit increase in x (direction of increase)
Residuals - $e = y - \hat{y}$
 e = residual = how far a predicted value is from the actual value

s_e = standard deviation of residuals
 how far a predicted value typically differs from the actual

r = correlation: how strong the linear relationship is & the direction

- $r = 1$ - perfect positive correlation
- $r = -1$ - perfect negative correlation
- $r = 0$ - no correlation



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Siddappa N.Byrareddy



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