Correlations

Bivariate descriptive statistics: Two variables
Univariate descriptive statistics: One variable
$\sum(x-\bar{x})^2$ = Minimum
Correlation: Measures the direction and degree of linear Relationship between two variables
Linear Relationship: When the relationship between two variables can be most accurately represented by a straight line
Y = bX+a
a = Y intercept (i.e., value of Y when X = 0)

Formulas

Y = bX + a	Equation of the line
Mean $\bar{X}$	$\sum X/N$
Deviation score	$(X-\bar{X})$
Squared deviation score	$(X-\bar{X})^2$
Sums of squares (SS)	$\sum(X-\bar{X})^2$
Variance (SD^2)	SS/N
sample size	N
Standard deviation (SD)	$\sqrt{SD^2}$
Sum of products (SP)	$\sum(X-\bar{X})(Y-\bar{Y})$
Covariance *(Cov)*	SP/N

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