Bernoulli - describes all situations where a "trial" is made resulting in either "success" or "failure", such as when tossing a coin

Beta – arises from a transformation of the F distribution and is typically used to model the distribution of order statistics

Binomial - is useful for describing distributions of binomial events, such as the number of defective components in samples of 20 units taken from production process

Cauchy - is often used in statistics as canonical example of a pathological distribution since both its mean and variances are undefine

distributed as Chi-square with n degrees of freedom

length between cars crossing an intersection

indices over a given year, etc

F – is mostly used in tests of variance (e.g., ANOVA)

Gamma - when modeling the distribution of the life-times of a product such as an electric light bulb, or the serving time taken at a ticket booth at a baseball game

geometric random variable

Gompertz – is theoretical distribution of survival times

Logistic – is used to model binary responses (e.g., gender) and is commonly used in logistic regression

Log-normal - is often used in simulations of variables such as personal incomes, age at first marriage, or tolerance to poison in animals, etc

Normal - is a bell shaped curve which is symmetrical about mean, is a theoretical function commonly used in inferential statistics

Pareto - is commonly used in monitoring production processes, example- a machine which produces copper wire will

Poisson - distribution of rare events, example - number of accidents per person, number of sweepstakes won per person, etc

Rayleigh - distance of darts from the target in a dart-throwing game

hypothesis about the mean of a particular population

Statistical significance test - Compare the observed distribution of variables against several theoretical distributions and test the discrepancy of the observed data from the respective theoretical distributions

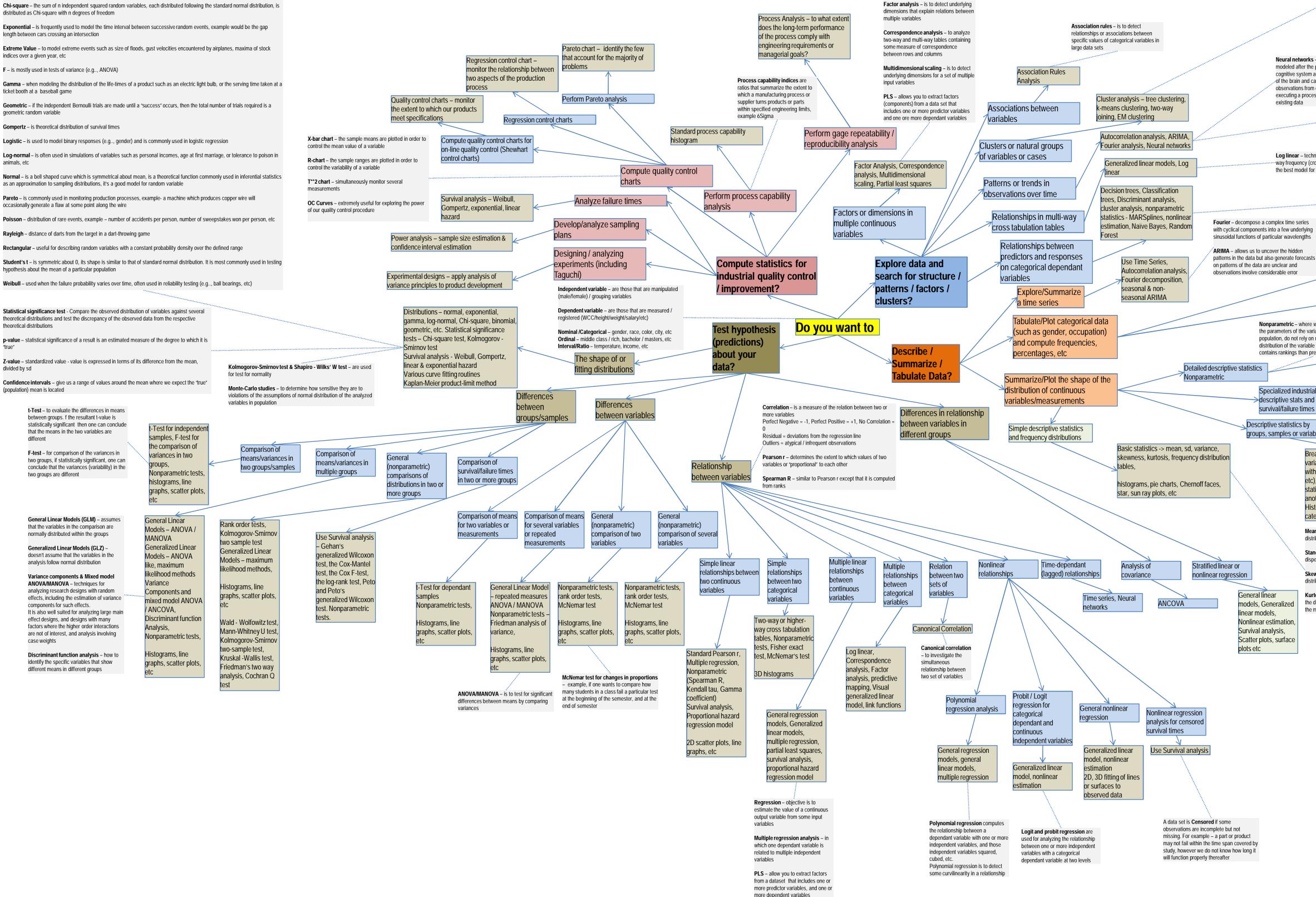
p-value - statistical significance of a result is an estimated measure of the degree to which it is

divided by sd

Confidence intervals - give us a range of values around the mean where we expect the "true" (population) mean is located



variables in population



Statistical Advisor

Reference: StatSoft Online Textbook. Prepared By: Rajkumar BN (Draft version)

tree that ultimately joins all obj	linked in successive steps , yield ects	ling a			
	ori how many clusters to expect, t division of objects into the requ	ested			
••• Two-way joining – both cases automatically, it will attempt to (values)	s and variables are clustered form clusters of similar data poi	nts			
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