Cheatography

Tools of Data Science (G7, W7, M7) Cheat Sheet by [deleted] via cheatography.com/2754/cs/11059/

G7 is "Graphs of Numbers"

Stratified Sampling is also useful in G7

Bar Graph: Analysis of size. ("Pareto Chart" is arranged bar garaph.)

Line Chart: Time series analysis. ("Control Chart" is one of the line chart.)

Circle Graph: Analysis of ratio

Histogram: Analysis of distribution of 1 variable. (One of the Bar Graph)

Box Plot: Analysis of distribution of 1 variable. (similar to stratified histogram)

Scatter Diagram: Analysis of the relationship of two variables.

Analysis of distribution of composed 2 variables. (To find outlier or to study small data set)

Heat Map: Analysis of the relationship of two variables. Analysis of distribution of composed 2 variables. (To study big data set)

W7 is "Analysis of Words"

Most of W7 are Concept Analysis .

Affinity Diagram: Classification of idea. The method to collect Brainstorming

Cause-and-Effect Diagram: To collect reasons and results.

Tree Diagram: Similar to FMEA . The next step of Cause-and-Effect Diagram.

Relation Diagram: Main part of Systems Thinking .

Matrix Diagram: Applications are QFD , Multi Dimensional Scaling and AHP.

Arrow Diagram: Planning method.

Flow Chart: Analysis of the process

Why-why Analysis is a basis of concept analysis W7 analyze the structure of phenomena as levels or networks. The idea to think the structure is also useful in G7 and M7.



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M7 is "Mathematical Analysis"

Error Analysis: Analysis of the quality of the data

Average & Standard Deviation: Analysis of statistical value.

Testing of Difference of the Average: Basic tool of Hypothesis Testing.

Regression Analysis: Include of the analysis Correlation .

Principal Component Analysis: In N7, called "Matrix Data Analysis".

Decision Tree: Application of Stratified Sampling

Linear Programming: To find the best in constraints.

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