

Scatter Chart in Power BI

Version 1.0

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The scatter chart is a type of chart which uses Cartesian coordinates to display values for a set of data for typically two variables. This is also called Scatter Plot, Scatter Diagram or Correlation Chart.

Availability in Power BI:

Yes

Availability in Other Tools :

This is available in Tableau and Lumira.

Possible Usage :

- This chart is used to find the correlation between two variables that how closely the two variables are related. Following are the type of correlation found in these type of charts-
 - ❖ **Strong positive correlation**-It means there is a clearly visible upward trend from left to right.
 - ❖ **Strong negative correlation**-It means there is a clearly visible downward trend from left to right.
 - ❖ **Weak correlation** - It means the up of down trend is less clear. A flat line from left to right is the weakest correlation because it is neither positive nor negative and indicates the dependent variable is not affected by the independent variable.
- In these charts, we can use one characteristic to find the other if one of them is easy to measure provided both having a good correlation.

Thumb Rule for Usage :

These charts are used specially for the purpose showing that how one variable is affected by another and this relationship between two variables is called correlation.

How to Use X and Y Axis :

In general, the continuous variable would be represented with the x-axis and the y-axis represents the measurement.

Advantages :

- (i) Scatter Charts are easy to draw.
- (ii) These charts can be easily understood and interpreted.
- (iii) We can easily determine the range of data flow i.e. maximum and minimum value.

- (iv) It is the best method to show us a non-linear pattern.
- (v) It shows the relationship between two variables.

Disadvantages :

- (i) Scatter charts are unable to measure the accurate extent of correlation.
- (ii) These charts only shows the quantitative expression of the quantitative change and do not show the quantitative measure of the relationship between the variables.
- (iii) These charts do not show the relationship for more than two variables.

Additional Comments :

We can also use pie charts as the points in scatterplots to show more data with a part-whole relationship.

Example View :

