**Histograms** are used to show distributions of variables while **bar charts** are used to **compare** variables.

**Histograms plot** quantitative data with ranges of the data grouped into bins or intervals while **bar charts plot** categorical data.

**KEY DIFFERENCES**

* The Histogram refers to a graphical representation that shows data by way of bars to display the frequency of numerical data whereas the Bar graph is a graphical representation of data that uses bars to compare different categories of data.
* Histogram used for distribution of non-discrete variables while Bar Graph is used for comparison of discrete variables .
* In Histogram, we cannot rearrange the blocks while in Bar Charts, it is common to rearrange the blocks, from highest to lowest.
* Histogram used for displaying the frequency of occurrences and Bar Plots helps you to compare different categories of data.

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| **Histogram** | **Bar Graph** |
| The histogram is a term that refers to a graphical representation that shows data by way of bars to display the frequency of numerical data. | The bar graph is a graphical representation of data that uses bars to compare different categories of data. |
| Distribution of non-discrete variables. | Comparison of discrete variables. |
| Bars touch each other, so there are no spaces between bars. | Bars never touch each other, so there are spaces between bars. |
| In this type of graph, elements are grouped so that they are considered as ranges. | In this type of graph, elements are taken as individual entities. |
| Histogram width may vary. | The bar chart is mostly of equal width. |
| To display the frequency of occurrences. | To compare different categories of data. |
| In Histogram, the data points are grouped and rendered based on its bin value. | In the Bar graph, each data point is rendered as a separate bar. |
| The items of the Histogram are numbers, which should be categorized to represent data range. | As opposed to the bar graph, items should be considered as individual entities. |
| In Histogram, we cannot rearrange the blocks. | Bar graph, it is common to rearrange the blocks, from highest to lowest |

