## Types of Graphs **Bar Chart** Histogram Pie Chart Scatter Chart Heatmap Stem and Leaf plot Box & Whisker plot Dot plot Violin plot A bar chart (aka bar graph, column chart) plots numeric values for levels of a categorical feature as bars. Levels are plotted on one chart axis, and values are plotted on other axis. Each categorical value claims one bar, and the length of each bar corresponds to the bar's value. Bars are plotted on a common baseline to allow for easy comparison of A histogram is a chart that plots the distribution of a numeric variable's values as a series of bars. Each bar typically covers a range of numeric values called a bin or class; a bar's height indicates the frequency of data points with a value within the corresponding A pie chart is a type of graph that represents the data in the circular graph. The slices of pie show the relative size of the data, and it is a type of pictorial representation of data. A pie chart requires a list of categorical variables and numerical variables. Here, the term "pie" represents the whole, and the "slices" represent the parts of the whole. A scatter plot uses dots to represent values for two different numeric variables. The position of each dot on the horizontal and vertical axis indicates values for an individual data point. Scatter plots are used to observe relationships between variables. A stem and leaf plot is used to organize data as they are collected. A stem and leaf plot looks something like a bar graph. Each number in the data is broken down into a stem and a leaf, thus the name. The stem of the number includes all but the last digit. The leaf of the number will always be a single digit.Mar 31, 2021 A heatmap depicts values for a main variable of A Box and Whisker Plot is a convenient way of visually Violin Plot is a method to visualize the distribution of numerical data of different variables. It is quite similar to Box Plot but with a rotated plot on each side, giving more information about the density estimate on the y-axis. The density is mirrored and flipped over, and the resulting shape is filled in, creating an image resembling a violin. The advantage of a violin plot is that it can show nuances in the distribution that aren't perceptible in a boxplot. On the other hand, the boxplot more clearly shows the outliers in the data. Violin Plots hold more information than box plots, they are less popular. Because of their unpopularity, their meaning can be harder to grasp for many readers not familiar with the violin plot representation. A Box and Whisker Plot is a convenient way of visually displaying the data distribution through their quartiles. The lines extending parallel from the boxes are known as the "whiskers", which are used to indicate variability outside the upper and lower quartiles. Outliers are sometimes plotted as individual dots that are in-line with whiskers. Box Plots can be drawn either vertically or horizontally. A dot plot is a simple form of data visualization that consists of data points plotted as dots on a graph with an x- and y-axis. These types of charts are used to graphically depict certain data trends or groupings. A dot plot is similar to a histogram in that it displays the number of data points that fall into each category or value on the axis, thus showing the distribution of a set of data. There are two types of dot plots: the Cleveland and Wilkinson dot plots. This type of charting method is commonly used by the Federal Open Market Committee (FOMC). interest across two axis variables as a grid of colored squares. The axis variables are divided into ranges like a bar chart or histogram, and each cell's color indicates the value of the main variable in the Seattle precipitation by month, 1998-2018 Purchases by User Type 15, 16, 21, 23, 23, 26, 26, 30, 32, 41 Wheat Pulses Groundnuts 1 56 Jowar ---2 13366 80 81 82 83 84 85 86 Vegetables 3 0 2 place "32" Height 0 500 1800 1500 2000 2000 3000 3500 4000 5000 5000 6000 Manuface of stacks salid 4 1 Symmetric & Skewness distribution Symmetrical distribution Skewness distribution A symmetric distribution is one where the left and

