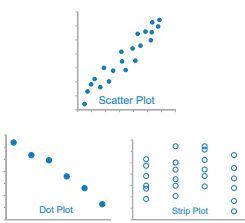
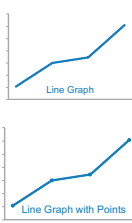
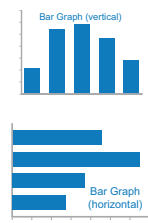
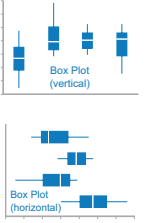


Graph Selection Matrix

Value-Encoding Objects

	Value-Encoding Objects			
	Points	Lines	Bars	Boxes
<p>Featured Relationships</p> <p>Time Series Values display how something changed through time (yearly, monthly, etc.)</p> <p>Ranking Values are ordered by size (descending or ascending)</p> <p>Part-to-Whole Values represent parts (proportions) of a whole (for example, regional portions of total sales)</p> <p>Deviation The difference between two sets of values (for example, the variance between actual and budgeted expenses)</p> <p>Distribution Counts of values per interval from lowest to highest (for example, counts of people by age intervals of 10 years each)</p> <p>Correlation Comparison of two or more sets of values to determine if there is a relationship between them</p> <p>Geospatial Values are located in space (e.g., on a map) to show their location</p> <p>Nominal Comparison A simple comparison of unordered discrete values</p>	 <p>Sometimes (As a <i>dot plot</i>, if values occur at irregular intervals of time)</p> <p>Sometimes (As a <i>dot plot</i>, especially when the quantitative scale does not begin at zero)</p> <p>Sometimes (Especially when the visual weight of bars creates excessive clutter)</p> <p>Sometimes (As a <i>dot plot</i>, especially when the quantitative scale does not begin at zero)</p> <p>Often (As a <i>strip plot</i>, to feature individual values in one or more distributions)</p> <p>Often (As a <i>scatter plot</i>, when displaying the relationship between two sets of values)</p> <p>Often (As bubbles of various sizes on a map)</p> <p>Sometimes (As a <i>dot plot</i>, especially when the quantitative scale does not begin at zero)</p>	 <p>Often (To feature overall trends and patterns and to support their comparisons)</p> <p>Sometimes (As a <i>bumps chart</i>, to show how rankings change through time)</p> <p>Sometimes (To display how parts of a whole have changed through time)</p> <p>Often (When also featuring a time series)</p> <p>Often (As a <i>frequency polygon</i>, to feature the overall shape of one or more distributions)</p> <p>Sometimes (Only when summarizing correlations as lines of best fit without displaying individual correlation values)</p> <p>Sometimes (To display routes on a map)</p> <p>Never</p>	 <p>Sometimes (Vertical bars only, to feature individual values and to support their comparisons)</p> <p>Often</p> <p>Often</p> <p>Often (As a <i>histogram</i>, especially when displaying a single distribution)</p> <p>Sometimes (As a <i>table lens</i>, especially when your audience is not familiar with <i>scatter plots</i>)</p> <p>Sometimes (Only when there is enough space for bars to vary enough in length for easy comparisons)</p> <p>Often</p>	 <p>Sometimes (Vertical boxes only, to display how a distribution changes through time)</p> <p>Sometimes (To display a ranked set of distributions)</p> <p>Sometimes (When displaying typical part-to-whole values along with the ranges across which they vary)</p> <p>Sometimes (When displaying typical deviation values along with the ranges across which they vary)</p> <p>Often (Only when comparing multiple distributions)</p> <p>Never</p> <p>Never (Although you might want to show distributions using boxes on a map, it isn't practical)</p> <p>Never (A nominal comparison consists solely of discrete values along a nominal scale)</p>