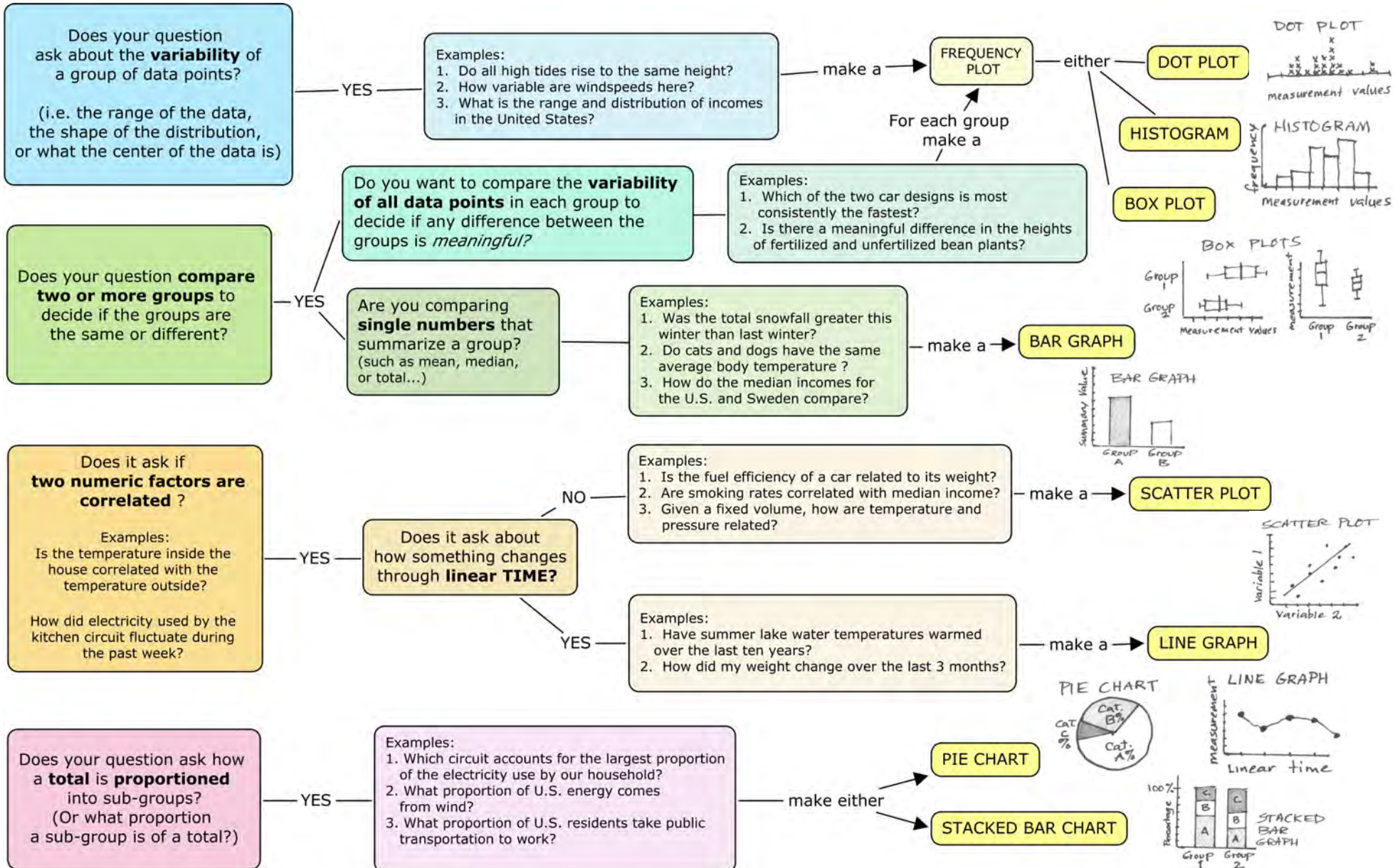


Graph Choice Chart

What question would you like to explore?

Write your question as a complete sentence.



Graphing tips

Variability questions: Frequency plot (3 kinds)	Dot plot	Box & whisker plot	Histogram
<p>Kind of data: One categorical group and One numeric variable (one axis)</p> <p><i>Frequency plots show how variable the group is. Describe variability by range, measure of center (mean, median, or mode), and the shape of the distribution.</i></p>			
Comparing groups questions:	Frequency plots OR	Bar graph	<p>Criteria for an informative graph:</p> <ul style="list-style-type: none"> ___ Graph type fits the question ___ Axes are drawn & scaled correctly ___ Axes are labeled clearly, correctly ___ Units are given ___ Data are plotted accurately ___ Legend is present, if needed ___ Graph is overall neat & legible ___ Title and/or caption present ___ Trend line shown (scatter plot or line graph only) ___ Graph helps answer the question
<p>Kind of data: Two or more categorical groups & One numeric variable</p> <p><i>Frequency plots allow you to compare how variable the groups are. Bar graphs only show a single number (ie. sum, average, percent or count) for each group.</i></p>	<p>(To compare two groups of values)</p>	<p>(To compare two summary values)</p>	
Correlation questions:	Scatter plot OR	Line graph (for time series)	
<p>Kind of data: Two numeric variables</p> <p><i>Both variables must be continuously numeric. Connect dots only if one variable is linear time (i.e. days, years...) Put time on the X-axis. Show correlation with a 'line of best fit'.</i></p>			
Proportion (percentage) questions:	Pie chart OR	Stacked bar graph	
<p>Kind of data: Size of a subgroup as a percentage of the whole group (Total of sub-groups must = 100%)</p> <p><i>In pie charts and stacked bar graphs, all sub-group percentages must total 100%.</i></p>			<p><i>(There are other kinds of questions and other kinds of graphs, and often more than one graph type is useful for a given question. Learn to graph data for these basic kinds of questions first.)</i></p>