Small Mistakes (-1 point each): Small mistakes can be defined as technical errors that can be easily fixed with a line of code or two.	Big Mistakes (-2 points each): Big mistakes can be defined as errors that stand in the way of the audience's correct interpretation of the graph.	Writing Mistakes (-2 points each)
<ul> <li>Text is too small to comfortably read (not more than a factor of 2 smaller than normal text in notebook).</li> <li>Scientific notation badly typeset.</li> <li>Axis labels contain percentages larger than 300%.</li> <li>Axis labels contain more than 4 consecutive zeroes.</li> <li>Axis labels do not contain units (e.g., US dollars, \$, days, etc.).</li> <li>Symbols too small to easily make out color.</li> <li>Output is not publication ready (e.g., pixelated, does not allow for zooming in to review details, etc.).</li> <li>Plot real estate ineffectively used (wasted space, too much white space, etc.).</li> <li>Chart is cluttered, aesthetics do not add to the idea being communicated.</li> <li>Legend is poorly aligned, covers information in visual display.</li> <li>Order of legend does not match the order in the plot.</li> </ul>	<ul> <li>Scale is reversed and/or out of context, wrong numbers are used.</li> <li>Scale of axis does not match or make sense with the area under the graph.</li> <li>Numbers are inappropriately juxtaposed.</li> <li>Legend is inaccurate, inadequate, or missing.</li> <li>Color contrast impairs legibility/interpretability.</li> <li>Color legend missing when needed.</li> <li>Too many overlapping bars cause hidden colors, confusion.</li> <li>Data improperly transformed/encoded.</li> <li>Titles or captions have wrong numbers or conclusions (wrongly labeled percentages, variables, etc.)</li> <li>Format is inappropriate for the type of dataset (e.g., a visualization is used when the data could have been communicated in a table, a histogram is used to communicate information about a categorical variable, etc.)</li> <li>The data visualization displays a "datapoor" fact, does not use enough values from the dataset (e.g., pairs of numbers that add up to 100%, less than 20 values from the dataset are used).</li> </ul>	<ul> <li>Submission does not include an adequate citation, with the name of the dataset, author, publisher, date, and source of the data.</li> <li>Captions missing information such as time frame, geographic scope, etc.</li> <li>The wrong things are studied/reported, including audience-engaging matters that are irrelevant for decision making.</li> <li>Post-hoc reporting about the extremity of the extremes.</li> <li>Graphics are not integrated with text or descriptions.</li> <li>Captions/descriptions are too long and contain unnecessary or irrelevant information.</li> <li>Spelling, grammar errors abound.</li> </ul>

This rubric will be updated as the semester moves on. The rubric was last updated on October 4, 2022.