Interactive controls in Plotly

Plotly plots have interactive controls shown in the top-right of the plot. The controls allow you to do the following:
- Download plot as a png: Save your interactive plot as a static PNG.
- Zoom: Zoom in on a region of interest in the plot.
- Pan: Move around in the plot.
- Box Select: Select a rectangular region of the plot to be highlighted.
- Line Select: Draw a region of the plot to be highlighted.
- Autoscale: Zoom to a "best" scale.
- Reset axes: Return the plot to its original state.
- Toggle Spike Lines: Show or hide lines to the axes whenever you hover over data.
- Show closest data on hover: Show details for the nearest data point to the cursor.
- Compare data on hover: Show the nearest data point to the x-coordinate of the cursor.

Plotly Express code pattern

The code pattern for customizing plots is to call the plotting function, passing a data frame as the first argument. The x argument is a string naming the column to be used on the x-axis. The y argument can either be a string or a list of strings naming column(s) to be used on the y-axis.

Customizing plots in plotly

The code pattern for customizing a plot is to save the figure object returned from the plotting function, call its .update_traces() method, then call its .show() method to display it.

Customizing markers in Plotly

When working with visualizations like scatter plots, line plots, and more, you can customize markers according to certain properties. These include:
- size: set the marker size
- color: set the marker color
- opacity: set the marker transparency
- line: set the width and color of a border
- symbol: set the shape of the marker

Customizing lines in Plotly

When working with visualizations that contain lines, you can customize them according to certain properties. These include:
- shape: set how values are connected
- dash: set the dash style ("solid", "dash", "dot", "longdash", "longdashdot")
- width: set the line width

Customizing bars in Plotly

When working with bar plots and histograms, you can update the bars themselves according to the following properties:
- size: set the marker size
- color: set the marker color
- opacity: set the marker transparency
- line: set the width and color of a border
- symbol: set the shape of the marker

Plotly Express code pattern

The code pattern for creating plots is to call the plotting function, passing a data frame as the first argument. The x argument is a string naming the column to be used on the x-axis. The y argument can either be a string or a list of strings naming column(s) to be used on the y-axis.