Project: InterAxis: Steering Scatterplot Axes via Observation-Level Interaction

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Milestone:

Currently, we have completed following tasks as part of the project (2/24 – 3/2):

1. Set up a main index HTML fie using dash with all the required divisions for all the interactions including the scatter plot, bar graph, drop downs for selecting the attributes to be selected for x and y axes. Buttons to give the user the functionality to either save or load the current dimension selection. (Sanjat)
2. We are currently looking for ways to implement the drag and drop of data points from scatter plot into the data point holders at the beginning and end of each axes. (Everyone)
3. We have a chosen a dataset for our implementation of this project. We decided to go with the Pokemon dataset as we feel it can be used to capture a lot of interesting analysis using the InterAxis technique and also because we have already used this dataset in Assignment 4 so we are already aware of the dataset characteristics. (Kavish)
4. Apart from all the divisions in the HTML page, we have also implemented a basic scatter plot of the dataset where user can choose the attributes for each axis to create and update the scatter plot accordingly. Also, we did normalization for the selected attributes before plotting the scatter plot. (Ishan)

Next steps: (3/3 – 3/15)

1. In the next week, we plan to implement the dimensionality reduction formula described in the paper and allow user to give weightage to different attributes and also allow user to select a particular pokemon to use its attributes as weights for creating the scatter plot.
2. Try to implement drag and drop feature for choosing points from scatter plot and placing them in low and high ends of the axes.
3. We plan to create a new window for displaying the information about all the dimensions of any selected point on the scatter plot (different than the paper).
4. If time permits, we will try to let the user save the axes configurations to be used later on.