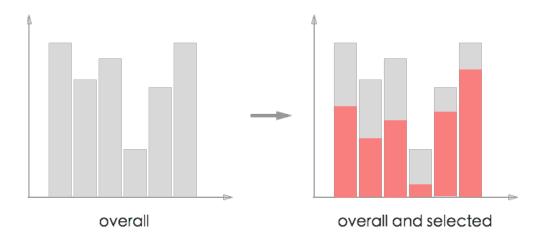
Part 4. Comparative Visualization

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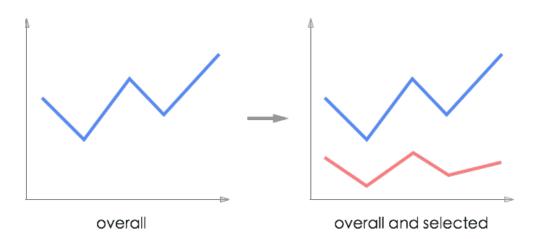
4a. Design

To compare the priorities of overall and selected data, here we have two optional designs,

Option 1: The original priority visualization is bar chart, so we cant still use bar chart for comparison. As the following prototype shows, the left figure is the visualization of overall, and when we want to compare the selected brush, overlay some new bars on the chart, and use different color to distinguish them.



Option 2: Another option is using line chart. The left figure shows the overall status, and when we want to compare overall with selected area, we will draw another line, and use different color to distinguish them.

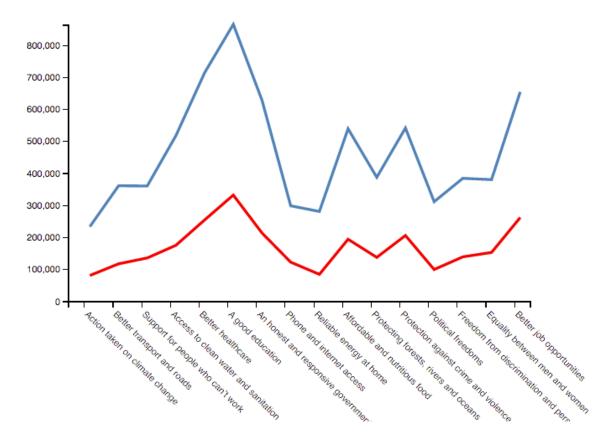


4b. Implementation

See the js/compvis.js file.

4c. Analysis

Here I implemented the option 2, the screenshot is shown in below.



My implementation is in file js/compvis.js, the class is called CompVis. To implement this, I found I can reuse the pattern of js/priovis.js file. But there are still have some differents:

- 1. The overall line chart just need draw only once. So I add an overallData item in self which is processed by auxFilterAndAggregate method. And I also add a initOverallChart method to CompVis.prototype, which will draw the overall status of priorities, it will be called in initVis method, and here updateVis method doesn't need for calling anymore.
- 2. updateVis method become simpler. In updateVis method, we don't need to redraw the y axis since we need to provide a consistent ruler for comparison. we can also reuse the lineGenerator to draw lines.