

D3 and Selectors

Rui Wang

1. Bar Plot.

- Link: <http://jsfiddle.net/Rui1521/qgL81wec/85/>
- The Bar Chart encodes the quantitative value, Mean Height, and the categorical key attribute, Position, with line marks and position channel. The plot shows the NBA basketball players' average heights in each position. We can see the mean height increases with respect to positions. The color of bars is grey, and when mouseover on the bar, it turns to blue. The color blue contrasts with the white background and previous grey bar, which make selected bar more salient.

2. Scatter Plot.

- Link: <https://jsfiddle.net/Rui1521/1702Lxdf/19/>
- The scatter plot encodes two quantitative values, Height and Weight, with line marks and position channel. It is suitable because it can explicitly show the relationship between two attributes, as well as clusters. Weight has an approximate linear relationship with height, which indicates that BMI values of NBA players are close. Since the plot only encodes two attributes, the color channel is not used. But all texts, nodes, and axis are black and clearly displayed in white background.