**Project description**

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**1. Data Source**

We find the data of wealth distribution of U.S. in 2000~2011 from <http://www.census.gov/people/wealth/>

**2. Data description & data binding**

2.1 Age-Quintile-Wealth distribution in different years

In the heat map, “Age-Quintile-Wealth distribution in different years”, there are five variables: age (“<35”, “35-44”, “45-54”, “55-64”, “>65”); quintile (1, 2, 3, 4, 5) which quintile 5 is richest top 20% group; year2000, year2005 and year2011 which are the mean wealth value in year 2000, 2005, 2011 respectively. Those data are coming from the “Distribution 2000.xlsx”, “Distribution 2005.xlsx” and “Distribution 2011.xlsx”files. We selected the age groups sections in “Distribution of Net Worth, By Net Worth Quintiles and Selected Characteristics: 2011” table and manually converted into “age\_quintile\_wealth.csv”.

For “Age-Quintile-Wealth distribution in different years” chart, we divide mean value into three ranges, which are “wealth\_min to zero”, “zero to two third of wealth range”, and “two third of wealth range to wealth\_max”. Then we use colorScale to linearly map mean value to different colors, red for the poorest and green for the richest. We use rectangles for the heat map, and label the age groups and years at the bottom, quintile 1~5 at the left side of chart.

2.2 Gaurav

2.3 Median and Mean net worth comparison by regions

## In the “Median and Mean net worth comparison by regions” chart, we use the region section in “Distribution 2011.xlsx” including both mean and median values for each quintile, and converted into “region.csv” file, which has four variables: region (“Northeast”, “Midwest”, “South”, “West”); quintile (2, 3, 4, 5); median; mean.

## In this region bar chart, we use the linear mapping to map the both mean and median wealth values to the length of the bars, also we map different colors to different quintiles, red for quintile 2(60~80%), orange for quintile 3(40~60%), light green for quintile 2(20~40%), dark green for quintile 1(0~20%).

## 2.4 Rui

## 3. Story line

## Rui, Gaurav, can you depict the story line?