

Info 474 A2 EDA

Yichao Wang

4/26/2019

Data

This dataset is World Values Surveys from R Datasets. It is a data frame with 5381 observations on the following 6 variables. The data is from the World Values Surveys 1995-1997 for Australia, Norway, Sweden, and the United States. In the surveys, people need to answer a multiple choice question - "Do you think that what the government is doing for people in poverty in this country is about the right amount, too much, or too little?". The choices are "Too Little", "About Right", or "Too Much". The survey also take notes on people's religion, degree, country, age, and gender.

EDA

Initial Question

How do the answers distribute over four countries?

From Figure 1, among 5381 people, we can see most people (50.33%) think governments did too little while only a few people think governments did too much (15.07%). About 34.60% people thinks the governments did about right.

Question 2

How does religion, degree, age, and gender affect people's choice?

From Figure 2, we can see religion does not affect people's choice. The distribution for people who have religion and for people who don't are the same.

From Figure 3, the distribution for people who have degree and for people who don't are similar. For people who held university degree, there are little more percentage think governments did about right job.

I categorized age variable into four age group. From Figure 4, we can see the distributions are similar. However, for older people (60-100), there are more percentage to think governments did too much. For younger people (0-30), there are more percentage think governments did too little.

From Figure 5, we can see the distributions are similar. However, for female, there are more percentage think governments did too little while there are more percentage think governments did about right and too much for male.

Question 3

How does the answer distribute in different country?

From Figure 6, Australia, Norway, and Sweden's distributions are similar but there are only few percentage of people (about 3%) think the governments did too much in Norway and Sweden. USA's distribution are very different from others. There are more people (32.68%) think the government did too much than people who think they did about right.

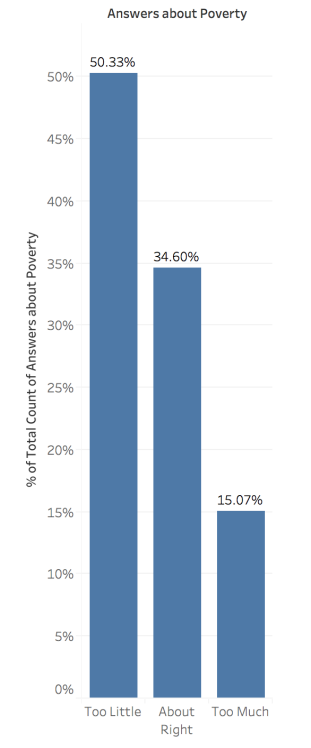


Figure 1: Histogram of answers about poverty

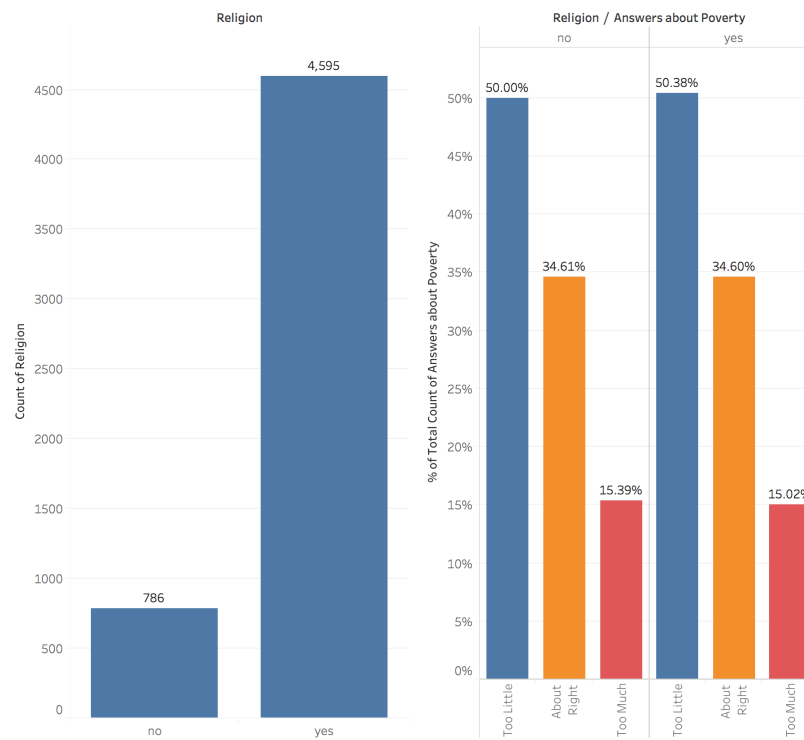


Figure 2: Histogram of religion and histogram of answers based on religion

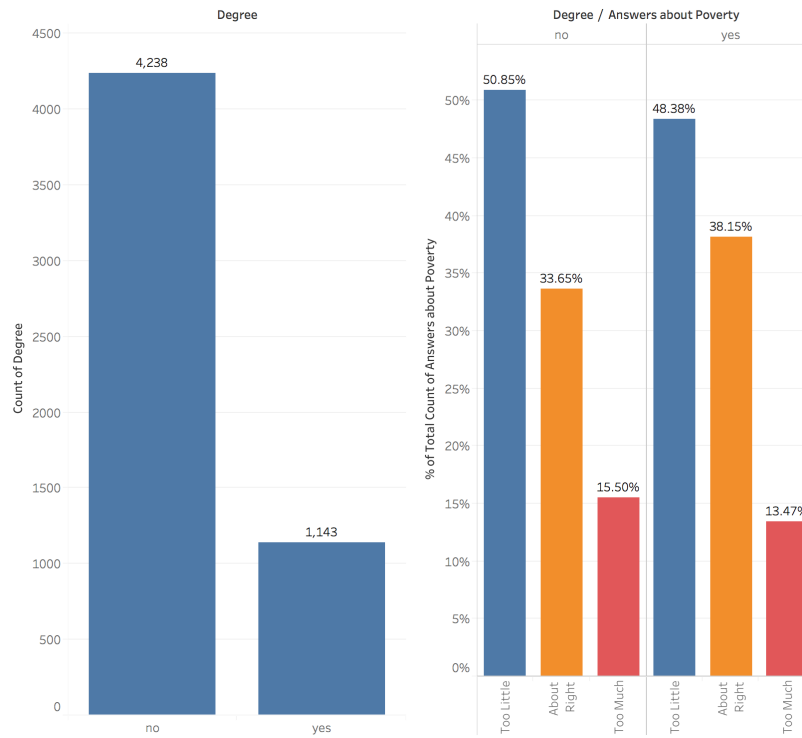


Figure 3: Histogram of degree and histogram of answers based on degree

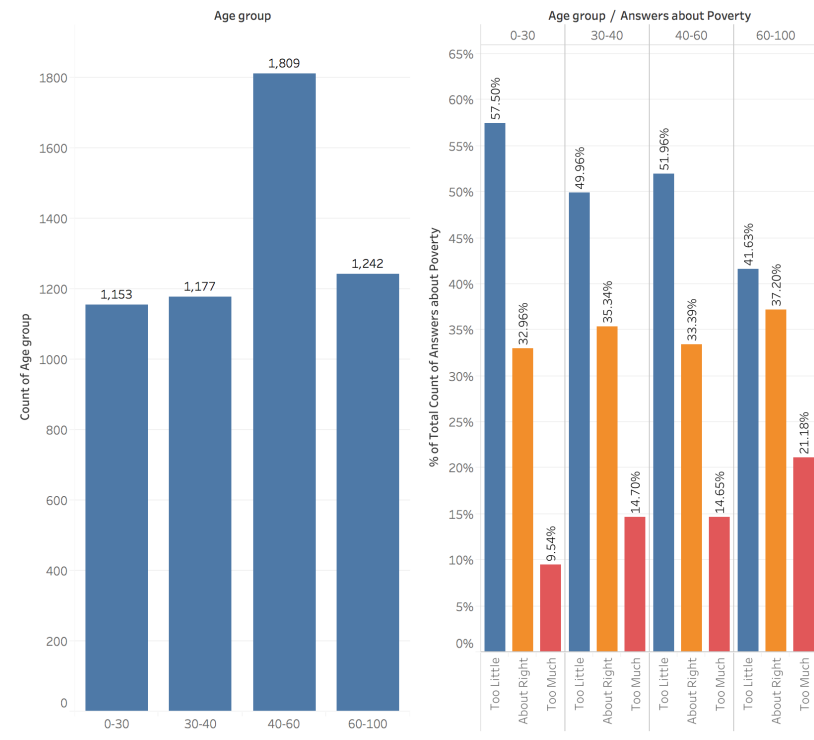


Figure 4: Histogram of age and histogram of answers based on age

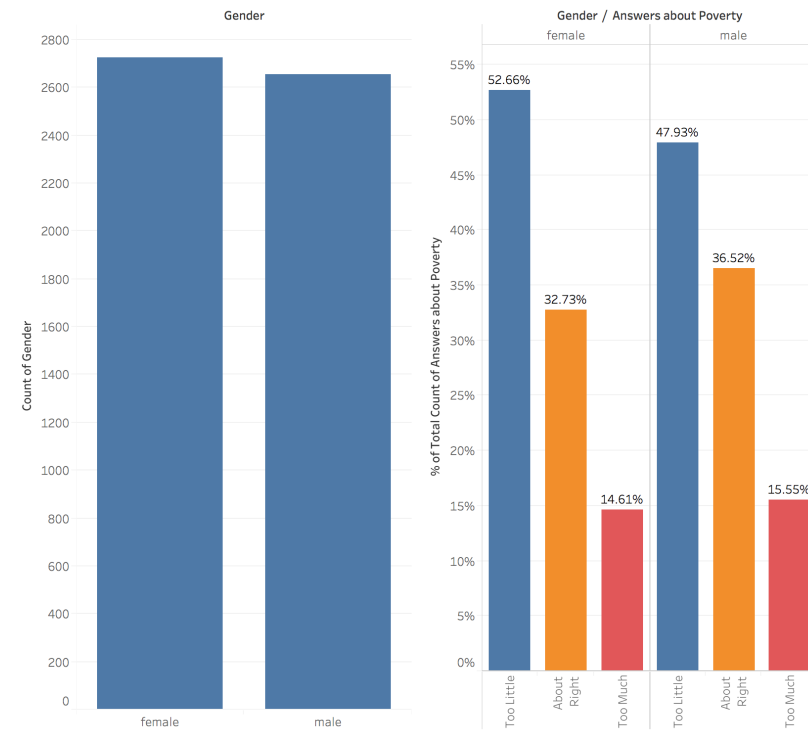


Figure 5: Histogram of gender and histogram of answers based on gender

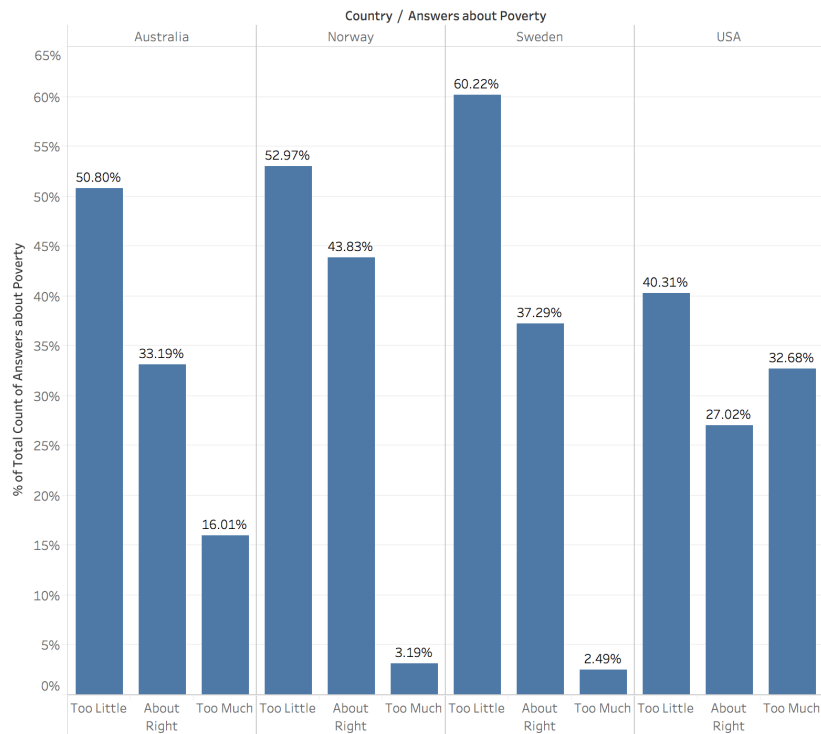


Figure 6: Histogram of answers in different countries

Final Question

Why is there more people think the goverment did too much in USA?