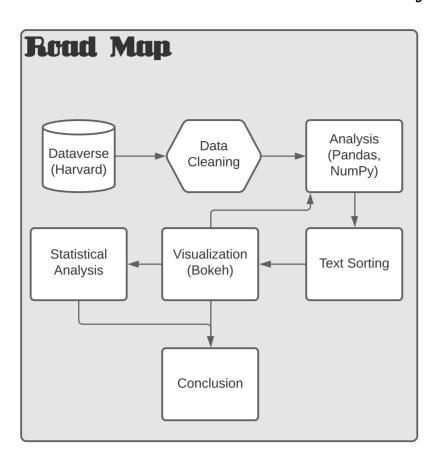
Description

How do Americans feel about the ongoing issue of climate change? A survey was given to a sample of people around the world asking them how much of negative emotions they connect to climate change, what they believe about climate change, how they intend to conserve energy, what kind of morals they have behind climate change, and what they believe should be done in terms of environment-related policies, along with a short answer what they think the purpose is behind this survey and about demographics. I focused on respondants from the United States. Questions to I tried to answer:

- **1)** How do gender, age, and political view affect Americans to feel about the issue of climate change?
- **2)** What are the most popular and least popular actions Americans intend to take to conserve energy?
- **3)** How do Americans feel about current policies regarding to protecting environment?
- **4)** Analyze those people who responded "unsure" to the free-responses question asking what they think the purpose of the survey is.

Americans on Climate Change

DIGHUM 100 Theory and Methods Vivian Kim



Question 2

A section of the survey asks what kind of actions they intend to take to conserve energy and list consists of 11 activitivies: using energy efficient bulbs, setting heater to 65° F or below in winter, setting AC to 75° F or above in summer, waiting for a full load before using a washing machine, using a clothesline and not a dryer, recycling, buying recycled paper, drinking tap water to reduce plastic, using reusable/recycled shopping bags, driving less or not at all, and voting for politicians with environmental policies. I took the average in each category and checked the highest and lowest scores (1 = no intention, 7 = definitely). The least popular activities are giving up on using a dryer and driving less/not at all. The most popular activities are waiting to use a washing machine until a full load and recycling. The table below shows activities in order from the least popular to most popular.

	Average Score
Activities	
Dryer	3.353234
Drive	3.850746
Winter	4.427861
Summer	4.664179
Paper	4.796020
Vote	5.014963
Bags	5.019900
Water	5.268657
Bulbs	5.485075
Recycling	5.743781
Washing	5.791045

Jun 6, 2021

Question 4

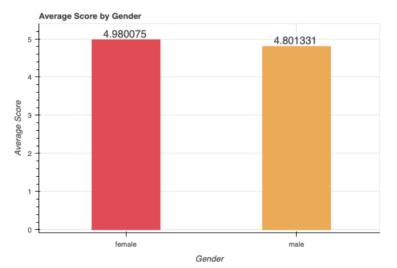
Using the responses to the free-response question asking if they can guess what the purpose of the survey is, I selected the respondants who answered "unsure."

Question 1

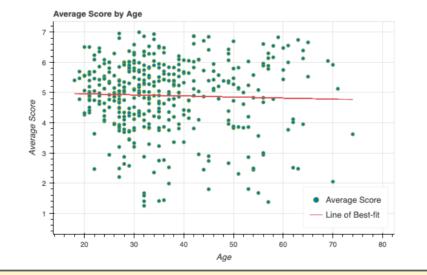
I computed the average score and plotted by gender, age, and political standpoint using Bokeh. I grouped the datast by gender and political standpoint and got the average of the total average score. For the graph by age, I plotted average scores of all individuals to see the spread of the graph.

Gender

From the first graph, we can see that the average scores for men and women are about 4.801 and 4.980 respectively, which isn't too far off from each other. Women in this sample answered slightly more empathetic about environmental issues. [STATISTICAL TEST TO BE DONE.]

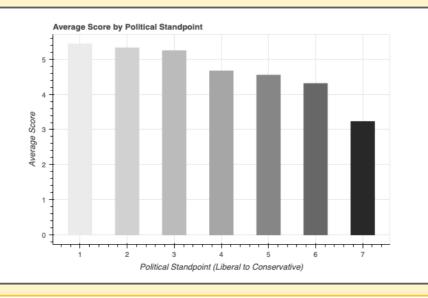


The second graph shows how individuals scored based on their age. We can see that data points in the upper left corner is more clustered than the rest, meaning that younger people (around the age 20 to 40) scored higher than the older people. Interesting to note that the data points are more widely spread in older age groups, yet still more data points in the upper half than the lower half. The regression line is also plotted: the slope is -0.0035. Though very slight, older people are less into environmental issues than younger people. [STATISTICAL TEST TO BE DONE.]



Political Preference

The third graph has the sample grouped by their political standpoint. The more conservative the individual is, the less he or she cared less about problems regarding to climate change. The difference in the average scores between the strongly liberal and strongly conservative is 2.208. [STATISTICAL TEST TO BE DONE.]





Ouestion 3

Part 7 of the survey asked if responda disagreed to a certain policy. These q answered in Yes or No with Yes bein being 2. I computed the average of ea and the table on the right shows the r to the least popular in order. The pop · a rebate for a reusable shopping ba on hybrid vehicles, and a rebate for a -- involved people getting rewarded like the unpopular ones -- a fee for a a fee for fuel inefficient cars, and a co for people driving during the rush ho

		Average Score
lants agreed or	Policies	
questions are ng 1 and No	Reuse	1.136816
each policy	Hybrid	1.166667
most popular oular policies	Cup	1.194030
ag, tax credits	Carpool	1.417910
a reusable cup than punished,	Plastic	1.509950
a plastic bag,	MPG	1.554726
commuter tax	Commute	1.788557
ours.		



References:

Data: https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/8Z7M4G Notebook: https://colab.research.google.com/drive/1Y31yjvjINxSN529JSBmEVg1eJHyNXINE?usp=sharing https://www.nursingcenter.com/ncblog/november-2019/climate-change https://www.clipartmax.com/middle/m2H7i8G6b1G6b1i8_global-warming-global-warming-clipart/ https://www.schemecolor.com/color/monochromatic