

Climate Change Analysis

28.07.2020

—



Overview

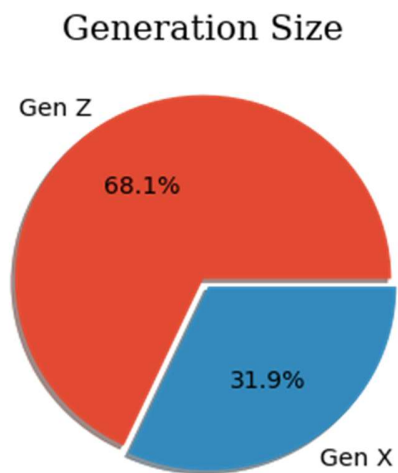
Sample data gathered from 263 respondents, our aim is to determine which age group(generation) is more concerned about climate change *Generation X* or *Generation Z*.

The data contains:

- 263 samples
- Biographical information on two generations.
- Four attributes on the Knowledge of respondents on climate change.
- Five attributes on the Attitudes of the respondents regarding climate change.
- Seven attributes on respondents Practices with regards to climate change.

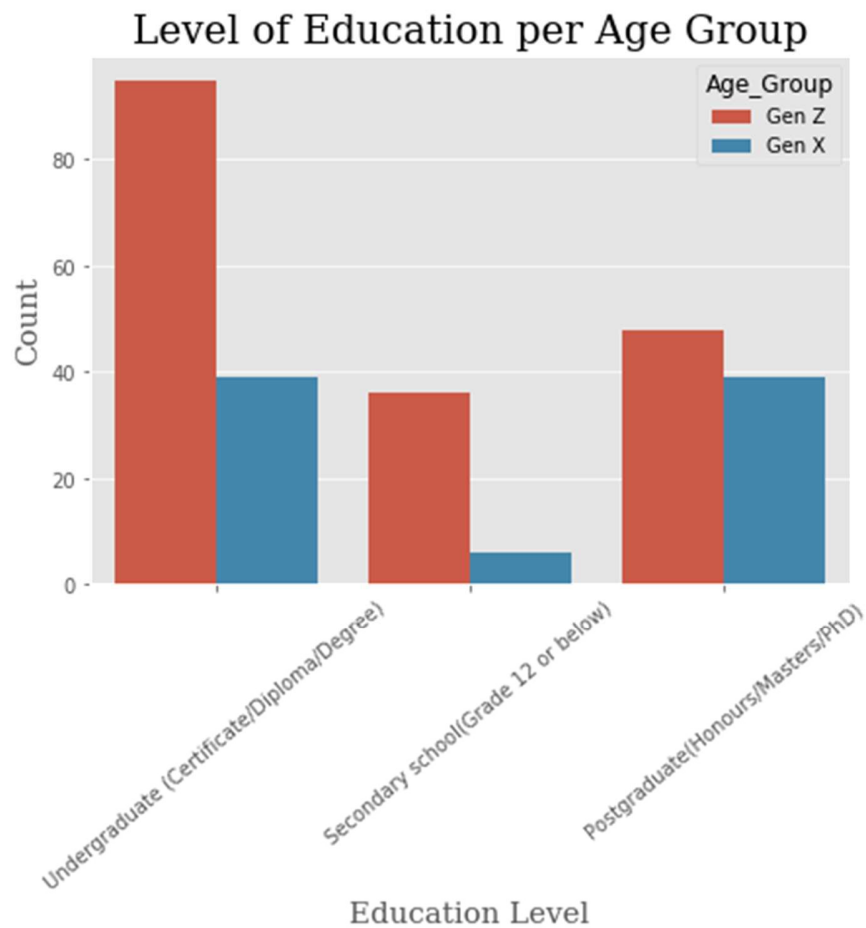
Sample

With 263 samples taken, 68% of sample are for Generation Z and 32% for Generation X. Having collected a sample with two times the amount of data for Generation Z than we did for Generation X, the data or outcome might be bias towards Generation Z.



Level of Education

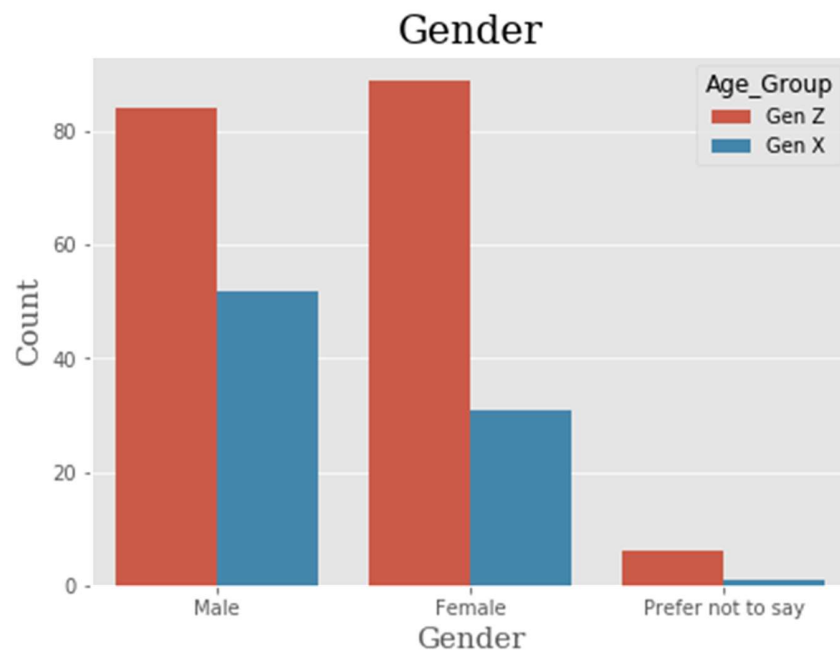
Generation Z having more samples, it would be clear that there would be more samples per category than Generation X.



Sample Size - Gender per Age group

Generation Z - 84 males and 89 females

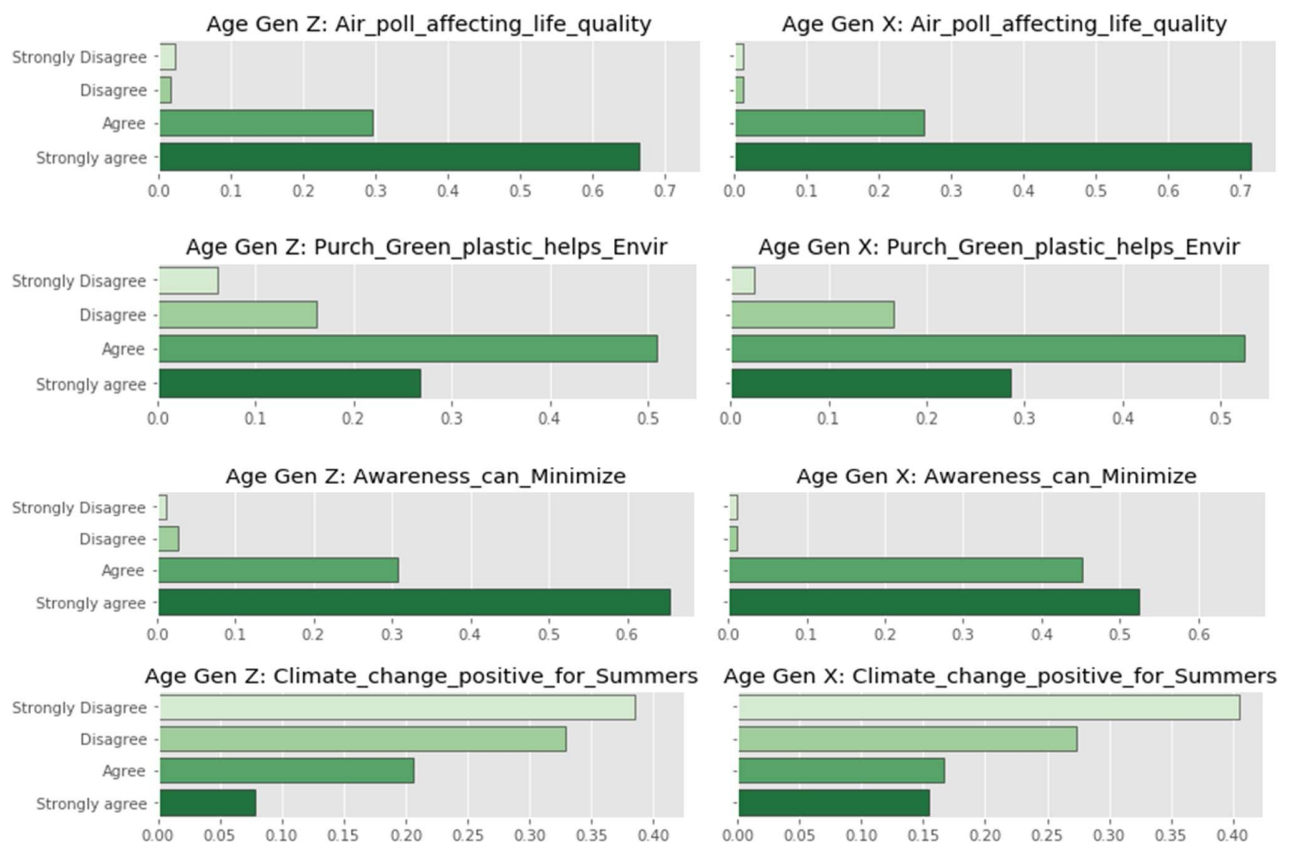
Generation X - 52 males and 32 females



Knowledge on Climate change

Regarding knowledge about climate change, the visualizations below shows the percentage of respondents per Age_Group and how they reacted to each question.

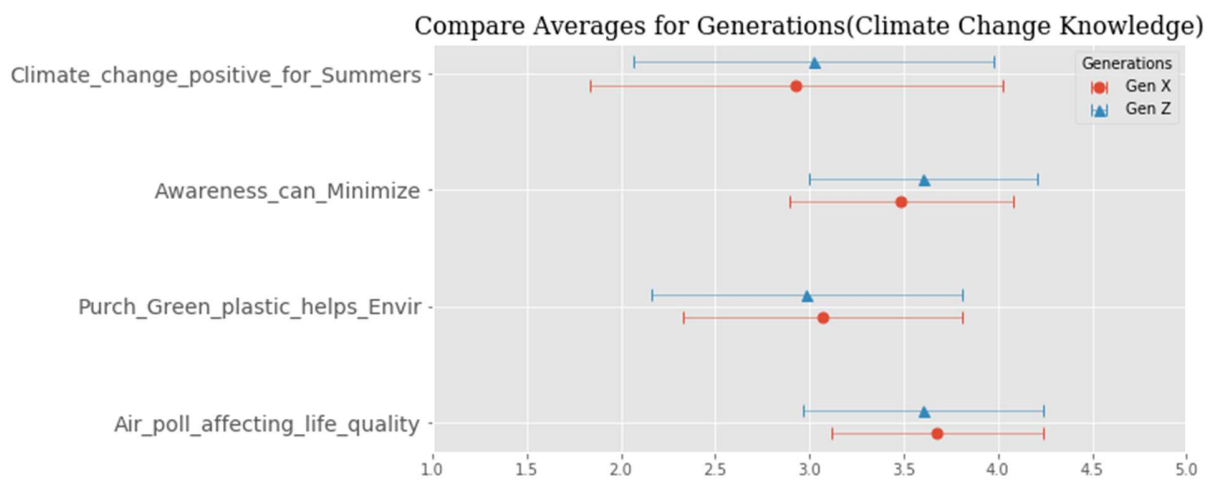
- Both Generation Z and Generation X seem to have knowledge about climate change.
- A greater percent of Generation Z feels that awareness of environmental sustainability can minimize environmental impact.
- Both groups have more or less similar view regarding the purchasing of green bags.
- About 70% of Generation Z disagrees that climate change is good for summer weather, in a similar range, 67% of Generation X disagrees.
- According to the visualizations below, Both Generations have more less equal knowledge about climate change. A greater percent of Generation X have more understanding on climate change.



Average knowledge on climate change.

The below visualization reflects the average rating per group.

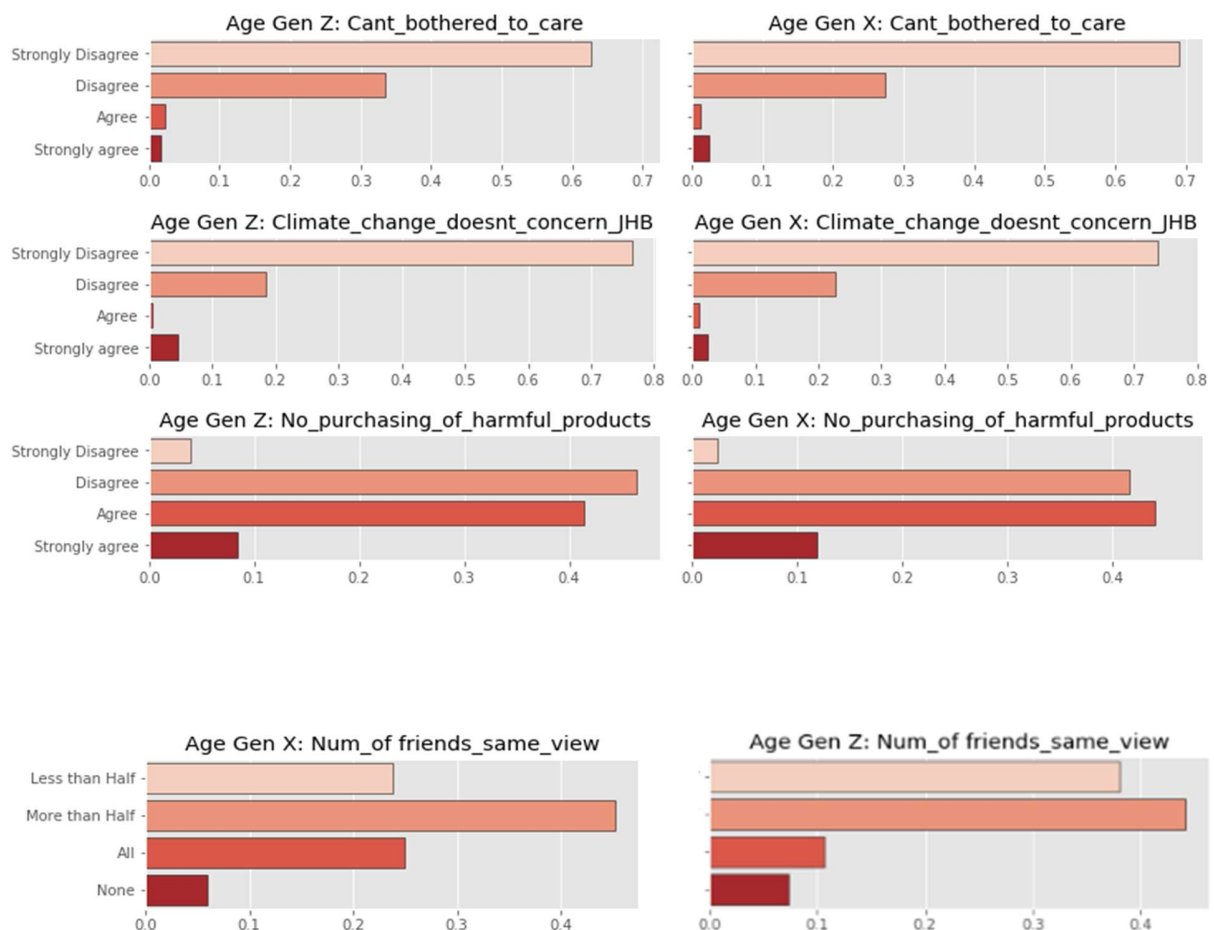
- According to the average ratings per group, the averages per group tend to equate regarding knowledge on climate change.
- The deviation from each group average is approximately 0.75 standard deviation above or below the average.

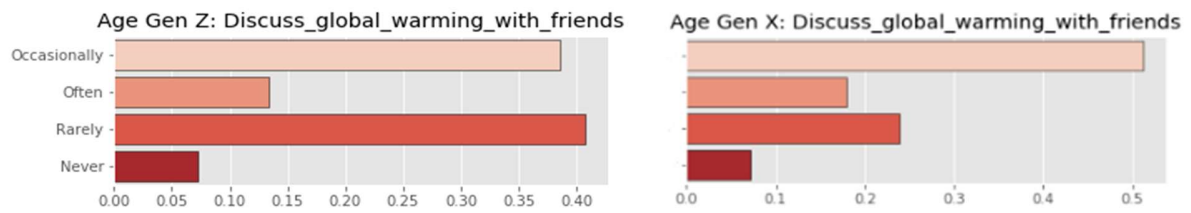


Attitude towards climate change

Regarding the Attitude towards climate change, the visualizations below shows the percentage of respondents per Age_Group and how they reacted to each question.

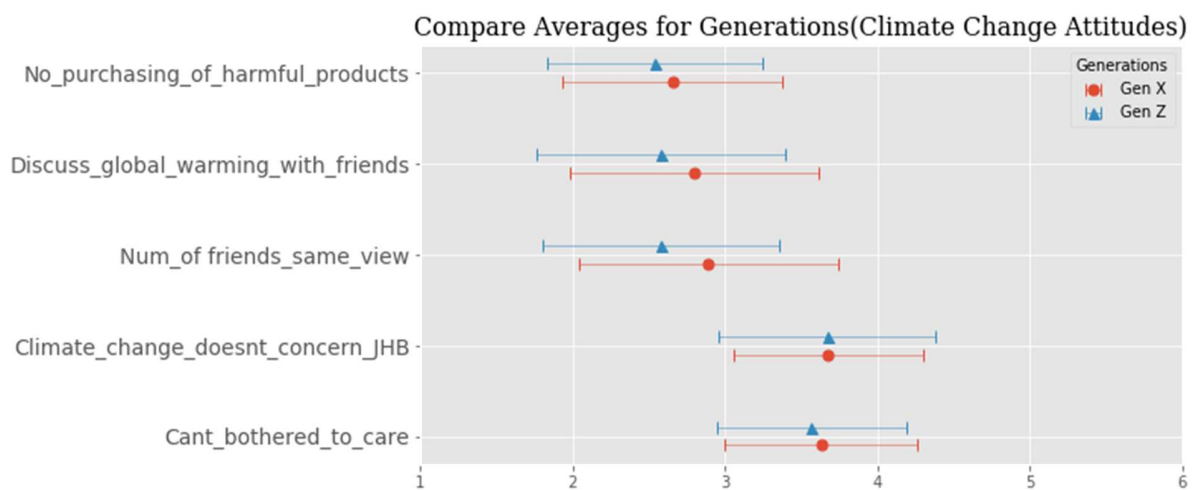
- Almost 97% of respondents from Generation X disagree to the fact that can't be bothered with climate change as apposed to Generation Z with slightly over 90% disagreeing.
- All respondents reside in Johannesburg and both groups equally disagree that climate change does not concern Johannesburg.
- A greater percent of respondents in Generation Z disagree to the fact that they do not buy harmful products, while a greater percentage of respondents in Generation X agree that they do not buy goods that could harm the environment.
- Generation Z have more friends with the same view.
- According to the graphs below, Generation X reflects more of a positive attitude towards climate change.





Average on the Attitude on climate change

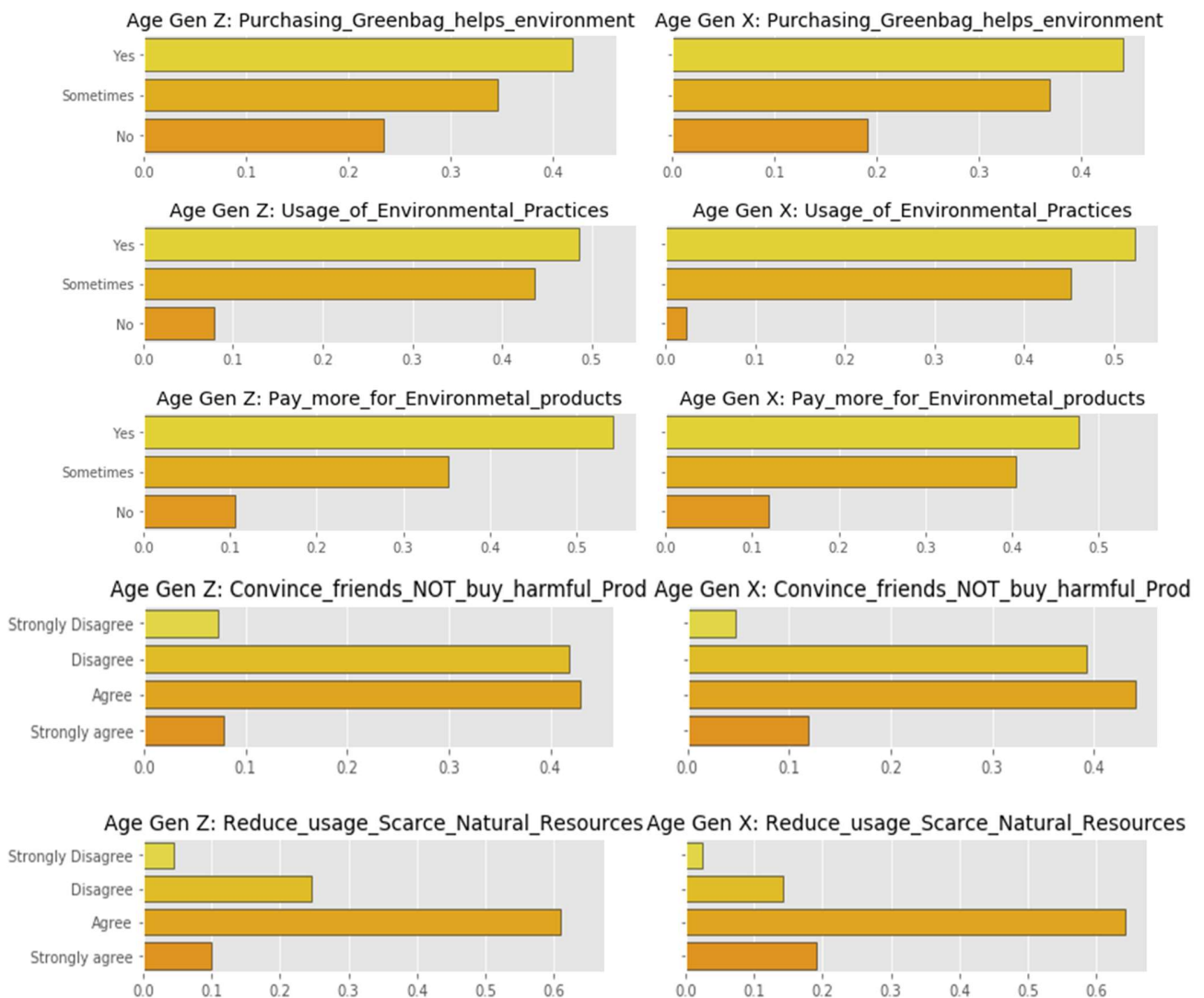
- Generation X has a higher average rating per question than Generation Z.
- According to the averages, Generation X has more of a positive attitude regarding climate change.
- The deviation from each group average is approximately 0.73 standard deviation above or below the average.

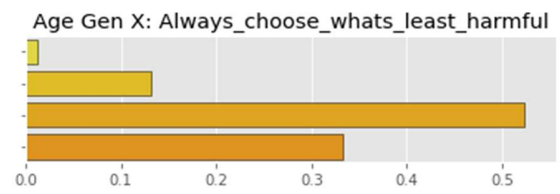
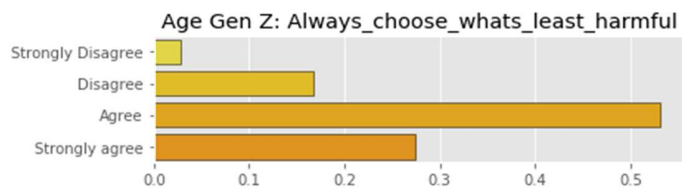
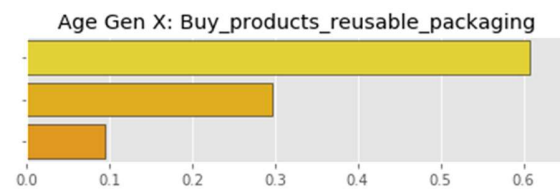
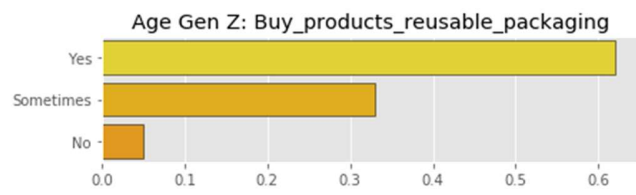


Practices on Climate Change

Having a look at the Practices the respondents do regarding climate change, the visualizations below shows the percentage of respondents per Age_Group and how they reacted to each question.

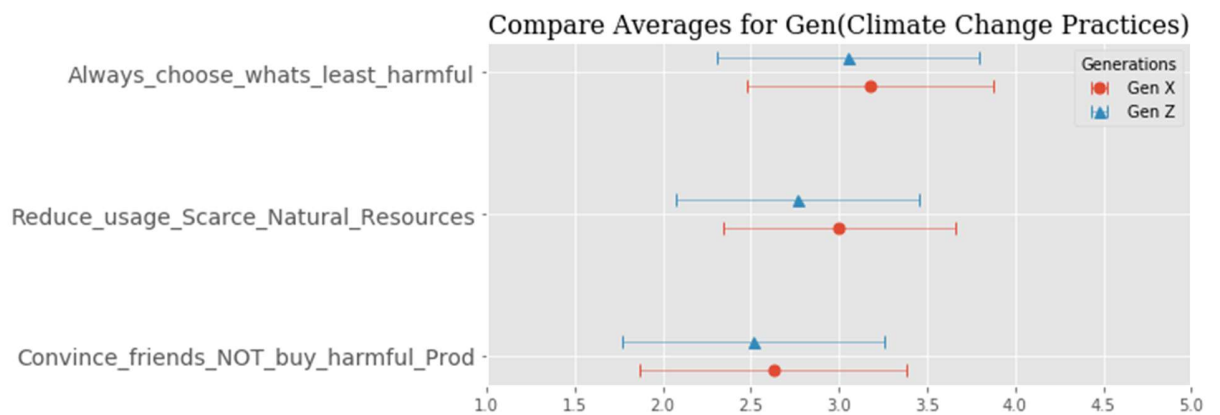
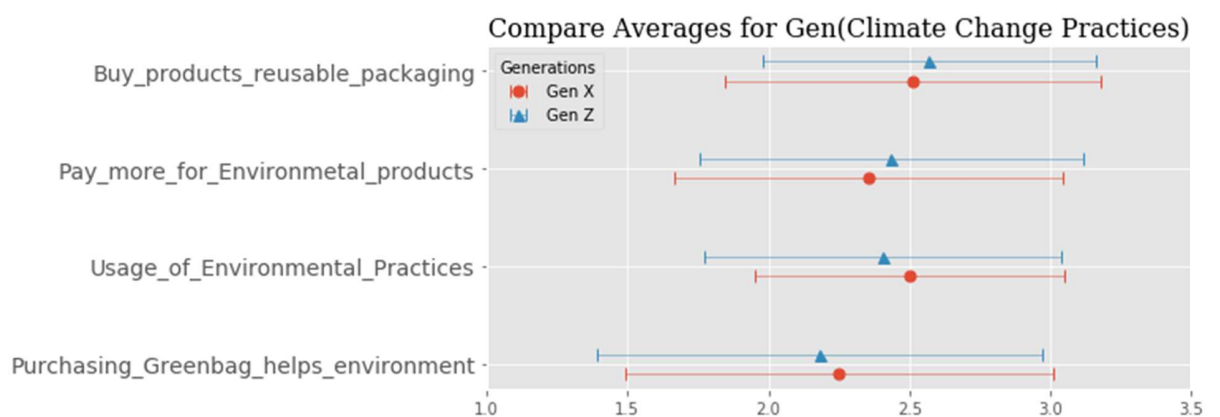
- A higher percentage of Generation X purchase greenbags to assist environment.
- Generation Z are more willing to pay extra for products and purchase reusable products to save the environment.
- Generation X practices informing friends not to purchase products that are harmful to the environment and between two products, chooses the less harmful product.
- Between the two generations, Generation X does more Practices regarding climate change.





Average on Practices

- As per visualizations below, comparing the averages between the two generations, Generation X has a higher average rating per question.
- The deviation from each group average is approximately 0.70 standard deviation above or below the average.



Conclusion

Knowledge

According to the analysis, both Generation X and Z have good knowledge regarding climate change. However, Generation X has a slightly higher knowledge and understanding on climate change and also more concerned about air pollution having an effect on future generation.

Attitude

Although a percentage of respondents from Generation can't be bothered about climate change, the analysis shows that most of the respondents do have a positive attitude towards climate change and also showing positivity amongst their peers or friends.

Practices

Generation Z have good practices regarding purchasing reusable products and willing to pay more for less harmful products. However, Generation X do partake more in environmental practices to reduce air pollution and aim at a better quality of life.

With the sample size having more respondents from Generation Z than Generation X, looking at the percentages from this sample the data is bias towards Generation Z as the ratio is 2:1. According to the sample, Generation X is more concerned about climate change.