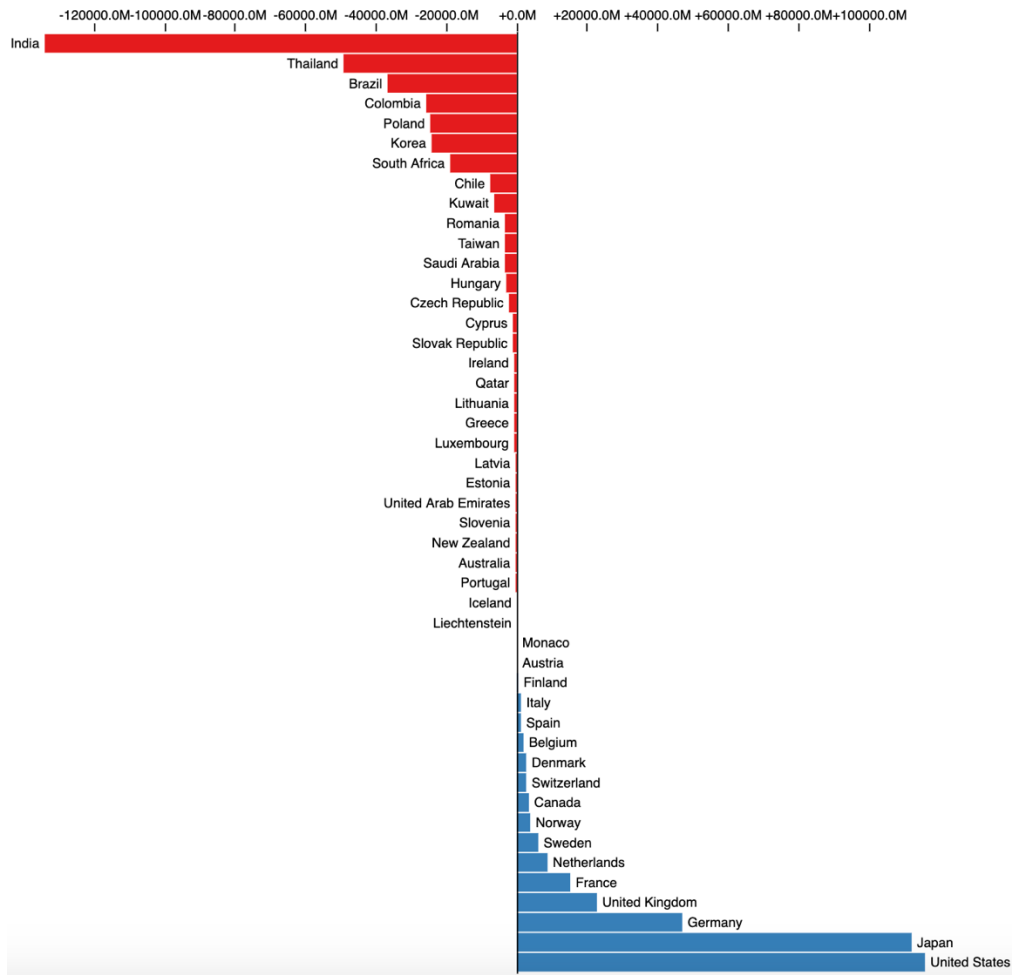


# Mini Project 1

## (Kundan Patel – kap675)

### Visualization 1:

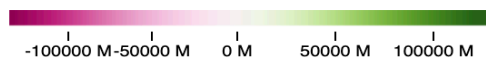
I used diverging bar chart to represent the net amounts donated (donated - received) by each country. These countries are sorted in the order from the lowest to highest, i.e., the top countries are the ones that receive more than they donate (negative net amounts) and the ones at the bottom are the ones that donate more than they receive (positive net amounts). This representation clearly answers the question about the comparison of countries in terms of the donated and received amounts as well as shows the countries that donate much more than they receive or receive much more than they donate (the topmost and bottommost ones).



## Visualization 2:

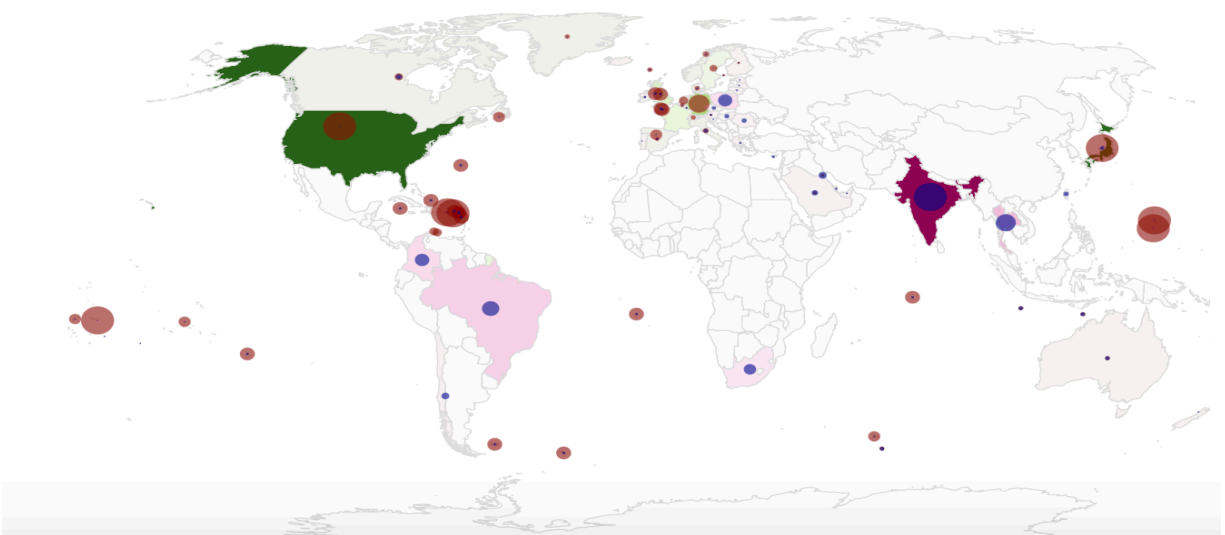
I used a choropleth map along with the symbol map for this visualization. The choropleth map uses a diverging color scale to represent the net donated amounts for the countries. This answers the clustering question which asks if there are countries that mostly receive or mostly donate tend to cluster around specific geographical areas of the world. Along with this, I have also used the symbol map on top which uses two types of circles (red and blue) to encode the donated and received amounts and the size of the circles encode the amounts. This symbol map answers the second question if there are neighboring countries that have radically different patterns in terms of how much they receive vs. how much they donate. We can easily detect this by comparing the red and the blue circles of the neighboring countries (if the red circle of country A is larger than the blue circle of country A and it is reverse for the country B, we can say that the countries have radically different patterns in terms of how much they donate vs how much they receive).

### Net Donated Amounts



● Donated Amount

● Received Amount



### Visualization 3:

In the third question, we need a way to compare the top five frequent purposes in terms of their distribution across countries. Here, I have used the matrix representation for visualization. The x-axis represents the recipients (receiving countries), y-axis represents the top five purposes and the dot size represents the amounts received for a specific purpose by a particular country. This representation clearly answers if there are countries that tend to receive more of certain types of donations than others.

