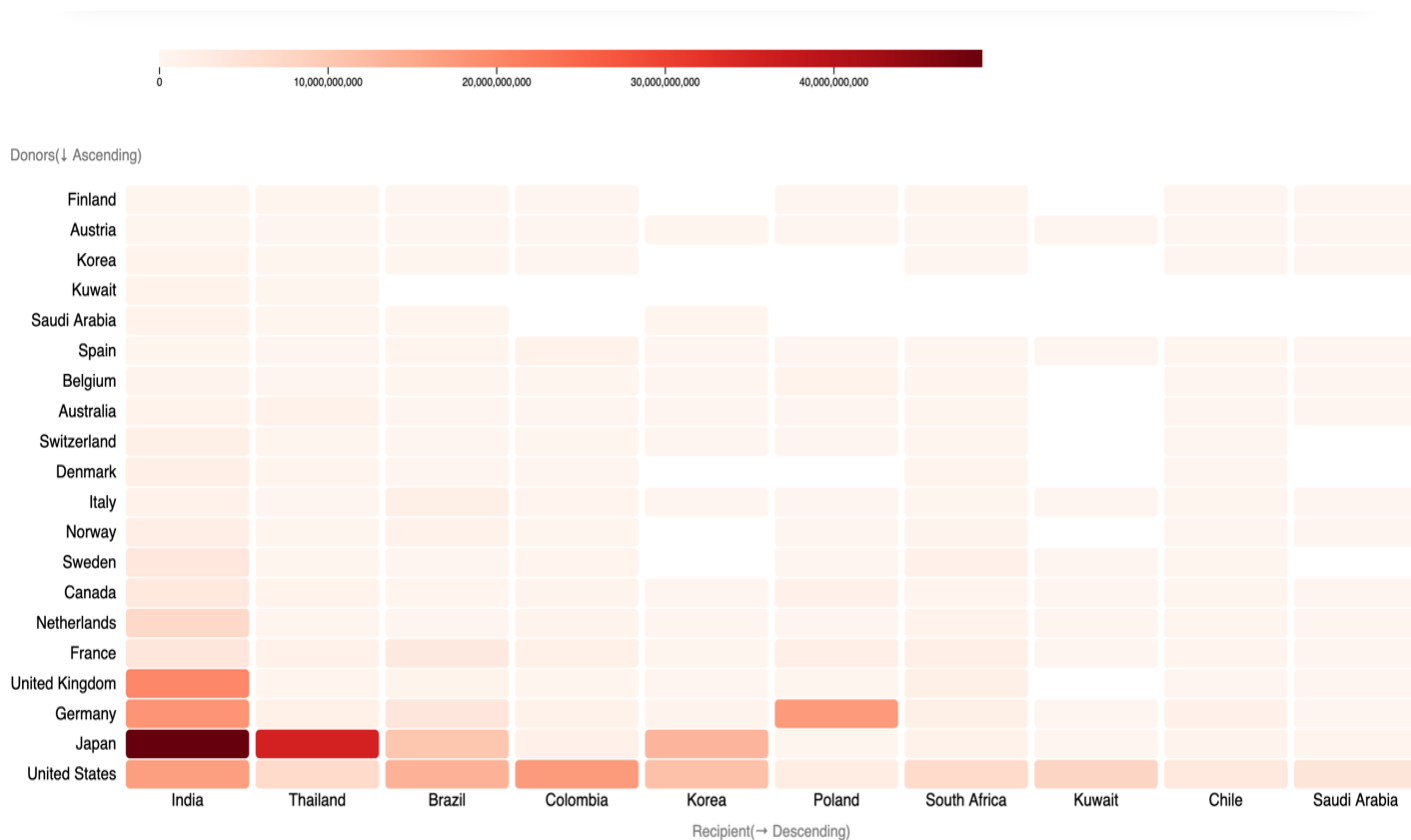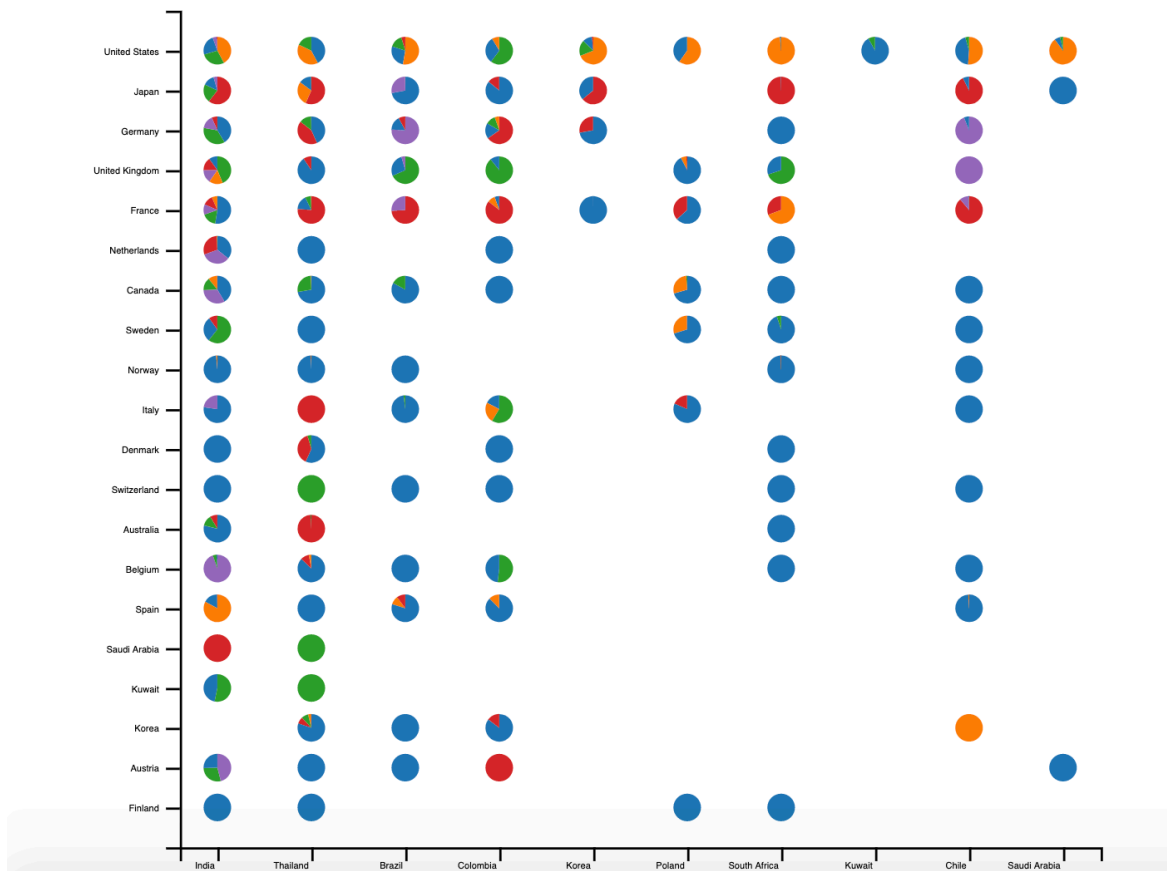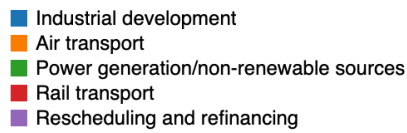# Mini Project 3
(Kundan Patel – kap675)

Visualization 1:

I used heatmap for visualization where the y axis represents the top 20 donor countries and the x axis represents the top 10 recipient countries. I have used a sequential scale which represents the amounts involved in the transactions. The darker the color of a cell, higher is the commitment amount. This representation answers all the questions. We can see the top donors and how much they donate to different countries and the top recipients and how much they receive from different countries.

Visualization 2:

I have used a matrix for this representation where each dot is a pie chart that represents the distribution of top 5 purposes for transaction between each pair of countries. This clearly answers the question and shows if there are countries that donate to a given country using multiple purposes or if there are countries that always donate using one single purpose when donating to another country.

Visualization 3:

In the third question, we need a way to represent how the patterns of donations (who donates to whom and how much) change over time. So, I have grouped the years in range of 10 years and decided to represent it in a faceted heat map. Each heat map is similar to the visualization 1 with donors and recipients on each of the axes and color intensities encode the amounts involved. This can enable us to detect if there are changes in the patterns of the donations between countries over the years and also detect major shifts (say a country used to donate to a specific set of countries and then it changes to other countries).