## Exercise: Graph Design (Geo)

In this assignment, you have to design visualization solutions for questions related to the AidData dataset. This dataset contains information about financial transactions for aid purposes between two countries. Given the data structure and analytical questions presented below, your goal is to sketch views that would help an analyst to obtain the answer for those questions.

## Data

In the AidData dataset, each row represents a financial transaction between two countries. The dataset contains the following attributes:

- Year: year of the commitment
- Donor: country providing the financial resource
- **Recipient:** country or organization receiving the money
- Commitment Amount: the total amount of financial resources provided
- Coalesced Purpose Name: the purpose of the transaction

Below is an example of the data:

Year	Donor	Recipient	Commitment Amo	Coalesced Purpose Name
1996	United States	Peru	19,085,570	Radio/television/print media
1996	United States	Brazil	272,863,443	Energy generation and supply, purpose unspeci
1996	United States	Argentina	34,107,930	Power generation/non-renewable sources
1996	United States	Argentina	68,215,861	Power generation/non-renewable sources
1996	United States	Argentina	73,788,687	Power generation/non-renewable sources
1996	United States	Argentina	102,323,791	Power generation/non-renewable sources
1996	United States	Argentina	115,966,963	Power generation/non-renewable sources
1996	United States	Bolivia	27,286,344	Power generation/non-renewable sources
1996	United States	Bolivia	150,074,894	Power generation/non-renewable sources

\*Note: The full dataset has many more columns and it also includes international organizations other than countries. The description here focuses only the attributes and entities (countries) relevant for the assignment.

You can find a (simplified and reduced) copy of the data here:

https://drive.google.com/open?id=1YiuHdfZv\_JZ-igOemKJMRaU8dkucfmHxOP6Od3FraW8

You can find the full dataset with descriptions here:

https://www.aiddata.org/data/aiddata-core-research-release-level-1-3-1

## Goal

Your goal is to create 2 independent visualizations of the same data set, each one with the intent of answering the questions stated below. For each numbered visualization, you should be able to create a data visualization that answers **all** of the questions specified.

These are the 2 visualizations you should create.

- Visualization 1: How do the countries compare in terms of how much they receive and donate from other countries? Are there countries that donate much more than they receive or receive much more than they donate?
- **Visualization 2:** Are there any major differences in how the top 5 most frequent purposes of disbursements distribute geographically in terms of countries that receive donations? Are there countries that tend to receive more of certain types of donations than others?

## Instructions

For this assignment, your goal is to come up with effective visualization designs to answer the questions posed and to communicate their answers found in the data.

You have to submit the following:

- 1) Submit a screenshot of the visualization you developed in D3.
- 2) Submit your D3 code in a separate file.