

DATA VISUALISATION

LAB-2

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Preprocessing Steps

Before plotting the data on the map, I performed a series of **preprocessing steps** to ensure that the raw data was cleaned, structured, and ready for visualization.

Filtering the Data

- Since the dataset contains information for multiple financial years, I filtered the data to **only include records from the financial year 2019-2020**. This was done by checking if `FinancialYearStart == 2019` and `FinancialYearEnd == 2020`.

Standardizing Country Names

- The **country names** in the CSV file were sometimes inconsistent (e.g., extra spaces, case differences). To match these names with the countries in the GeoJSON file, I:
 - Trimmed any extra spaces from the country names.
 - Converted the country names to lowercase so that they would match the standardized names in the GeoJSON data.

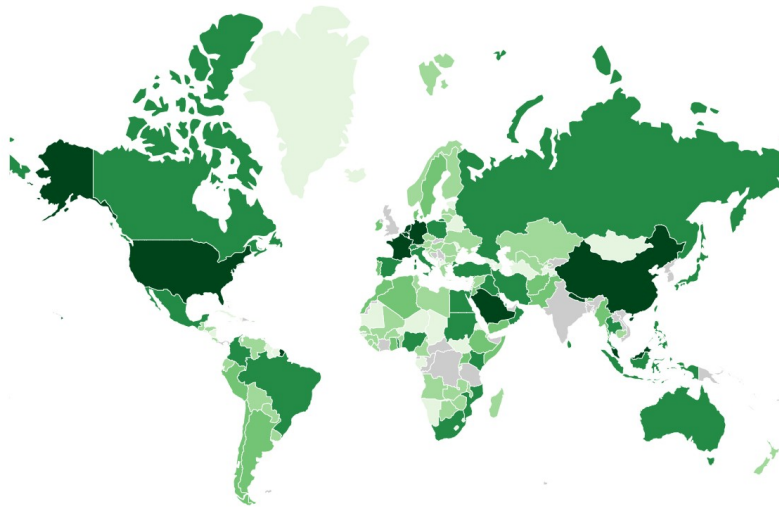
Handling Missing Data

- Not all countries have data available for export or import values. In cases where there's no data:
 - I rendered these countries on the map in a neutral **gray color (#ccc)**.
 - If a country's data exists in the `dataByCountry` object, it will be used to determine the color for that country. If not, the gray color is applied.

Total Export and Import with India (2019-2020)

● Export
○ Import

< 100 100 - 500 500 - 1000 1000 - 5000 5000 - 10000 > 10000



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< 100 100 - 500 500 - 1000 1000 - 5000 5000 - 10000 > 10000

