
INDIA TRADE

KAMLESH SINGH, NEHA AYULURI, & VISHNU VARDHAN RAO
MADAMANCHI

INTRODUCTION

1. The action of buying and selling goods and services is termed as Trade. Foreign trade includes Import and Export.
2. A country importing more than its export, runs a trade deficit.
3. A country importing less than its exports, create a trade surplus.

End users of our App:

1. Directorate general of Foreign Trade
2. Department of Commerce, Government of India.

GOAL:

1. Is India having a trade deficit or trade surplus in any given year?
2. Comparing Exports and Imports across countries.
3. How has the trade between India and any given country grown over time?

ABOUT THE DATASET:

- **Value** - values for export and import of commodities in million US \$.
- **Country** - Country Imported From/ Exported To
- **Year** - Year in which commodities were Imported/Exported which is in between 2010 to 2018.
- **Commodity** - the column contains chapter wise commodity category. In each commodity Category there are various commodities.
- **HSCode** - HS stands for Harmonized System. It was developed by the WCO (World Customs Organization) as a multipurpose international product nomenclature that describes the type of good that is shipped HS Code Structure

PREPARING THE DATASET

1. Value column in both imports and exports has NA's which are replaced with zeros
2. Country codes which are not included in the dataset are coded into the dataset for the top 50 countries in both import and export category using SAS.

Export Dataset

Select the dataset
Export Dataset

Exports/Imports Dataset

Show 10 entries

Search:

	HSCode	Commodity	value	country	year
1	2	MEAT AND EDIBLE MEAT OFFAL.	0.18	AFGHANISTAN TIS	2018
2	3	FISH AND CRUSTACEANS, MOLLUSCS AND OTHER AQUATIC INVERTABRATES.	0	AFGHANISTAN TIS	2018
3	4	DAIRY PRODUCE; BIRDS' EGGS; NATURAL HONEY; EDIBLE PROD. OF ANIMAL ORIGIN, NOT ELSEWHERE SPEC. OR INCLUDED.	12.48	AFGHANISTAN TIS	2018
4	6	LIVE TREES AND OTHER PLANTS; BULBS; ROOTS AND THE LIKE; CUT FLOWERS AND ORNAMENTAL FOLIAGE.	0	AFGHANISTAN TIS	2018
5	7	EDIBLE VEGETABLES AND CERTAIN ROOTS AND TUBERS.	1.89	AFGHANISTAN TIS	2018
6	8	EDIBLE FRUIT AND NUTS; PEEL OR CITRUS FRUIT OR MELONS.	25.01	AFGHANISTAN TIS	2018
7	9	COFFEE, TEA, MATE AND SPICES.	13.75	AFGHANISTAN TIS	2018
8	10	CEREALS.	0.75	AFGHANISTAN TIS	2018
9	11	PRODUCTS OF THE MILLING INDUSTRY; MALT; STARCHES; INULIN; WHEAT GLUTEN.	0.01	AFGHANISTAN TIS	2018
10	12	OIL SEEDS AND OLEA. FRUITS; MISC. GRAINS, SEEDS AND FRUIT; INDUSTRIAL OR MEDICINAL PLANTS; STRAW AND FODDER.	10.02	AFGHANISTAN TIS	2018

Showing 1 to 10 of 122,985 entries

Previous12345...12299Next

Exports/Imports Summary Statistics

HSCode	Commodity	value	country	year
Min. : 1.00	Length:122985	Min. : 0.00	Length:122985	Min. :2010
1st Qu.:28.00	Class :character	1st Qu.: 0.03	Class :character	1st Qu.:2012
Median :52.00	Mode :character	Median : 0.36	Mode :character	Median :2014
Mean :51.29		Mean : 21.57		Mean :2014
3rd Qu.:74.00		3rd Qu.: 3.77		3rd Qu.:2016
Max. :99.00		Max. :19805.17		Max. :2018

Rectangular Ship

Export Dataset has 5 variables HSCode, Commodity, Year, Value and Country

Import Dataset

Select the dataset

Import Dataset

Exports/Imports Dataset

Show 10 entries

Search:

	HSCode	Commodity	value	country	year
1	05	PRODUCTS OF ANIMAL ORIGIN, NOT ELSEWHERE SPECIFIED OR INCLUDED.	0	AFGHANISTAN TIS	2018
2	07	EDIBLE VEGETABLES AND CERTAIN ROOTS AND TUBERS.	12.38	AFGHANISTAN TIS	2018
3	08	EDIBLE FRUIT AND NUTS; PEEL OR CITRUS FRUIT OR MELONS.	268.6	AFGHANISTAN TIS	2018
4	09	COFFEE, TEA, MATE AND SPICES.	35.48	AFGHANISTAN TIS	2018
5	12	OIL SEEDS AND OLEA. FRUITS; MISC. GRAINS, SEEDS AND FRUIT; INDUSTRIAL OR MEDICINAL PLANTS; STRAW AND FODDER.	8.32	AFGHANISTAN TIS	2018
6	13	LAC; GUMS, RESINS AND OTHER VEGETABLE SAPS AND EXTRACTS.	108.78	AFGHANISTAN TIS	2018
7	20	PREPARATIONS OF VEGETABLES, FRUIT, NUTS OR OTHER PARTS OF PLANTS.	0.65	AFGHANISTAN TIS	2018
8	25	SALT; SULPHUR; EARTHS AND STONE; PLASTERING MATERIALS, LIME AND CEMENT.	0.05	AFGHANISTAN TIS	2018
9	27	MINERAL FUELS, MINERAL OILS AND PRODUCTS OF THEIR DISTILLATION; BITUMINOUS SUBSTANCES; MINERAL WAXES.	0	AFGHANISTAN TIS	2018
10	41	RAW HIDES AND SKINS (OTHER THAN FURSKINS) AND LEATHER	0	AFGHANISTAN TIS	2018

Showing 1 to 10 of 79,068 entries

Previous 1 2 3 4 5 ... 7907 Next

Exports/Imports Summary Statistics

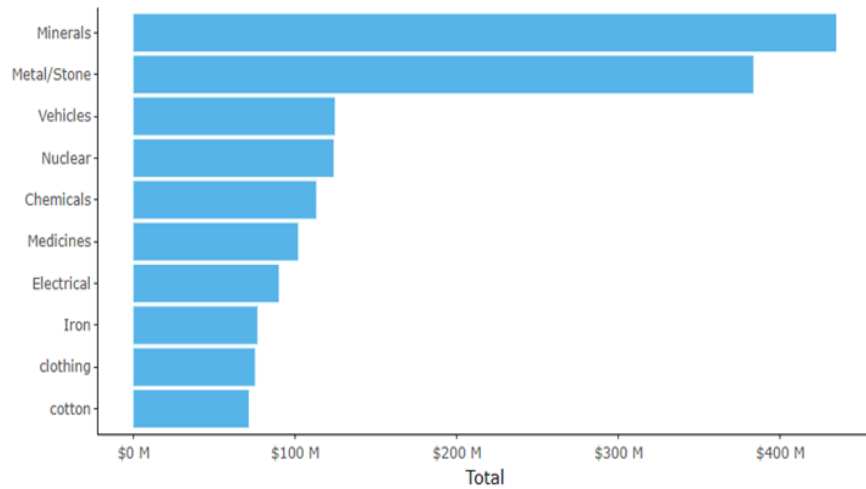
HSCode	Commodity	value	country	year
Length:79068	Length:79068	Min. : 0.00	Length:79068	Min. :2010
Class :character	Class :character	1st Qu.: 0.03	Class :character	1st Qu.:2012
Mode :character	Mode :character	Median : 0.38	Mode :character	Median :2015
		Mean : 63.29		Mean :2015
		3rd Qu.: 4.91		3rd Qu.:2017
		Max. :32781.57		Max. :2018

Rectangular Snap

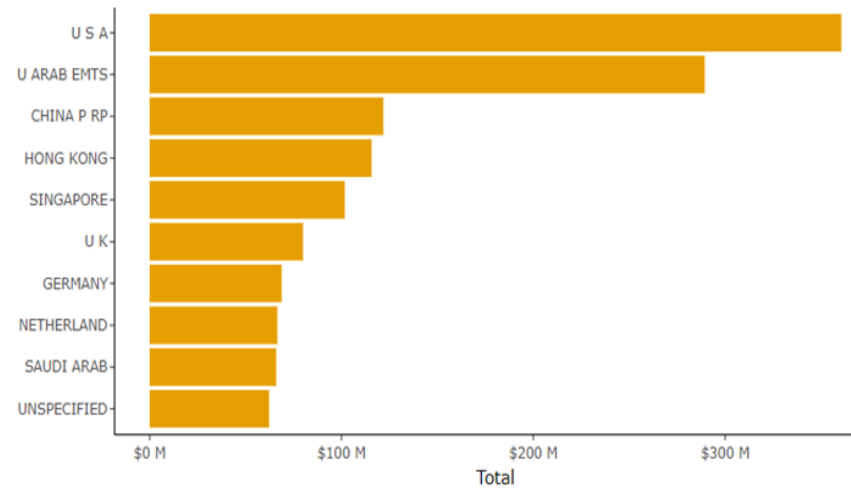
Import Dataset has 5 variables HSCode, Commodity, Year, Value and Country

Export & Import

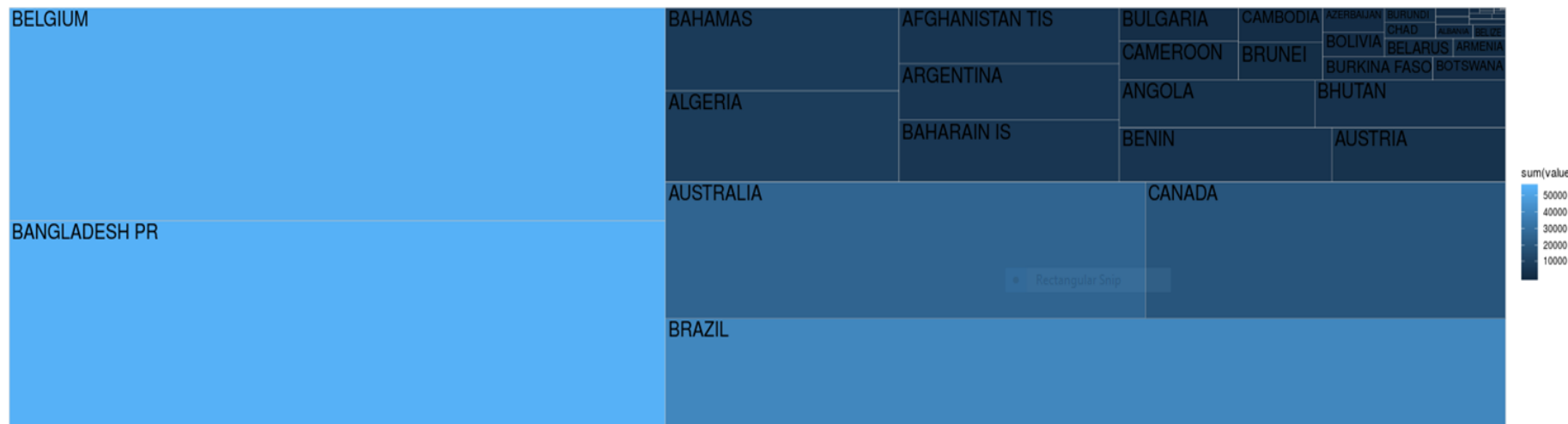
Imports/Exports by Commodity



Imports/Exports by Country

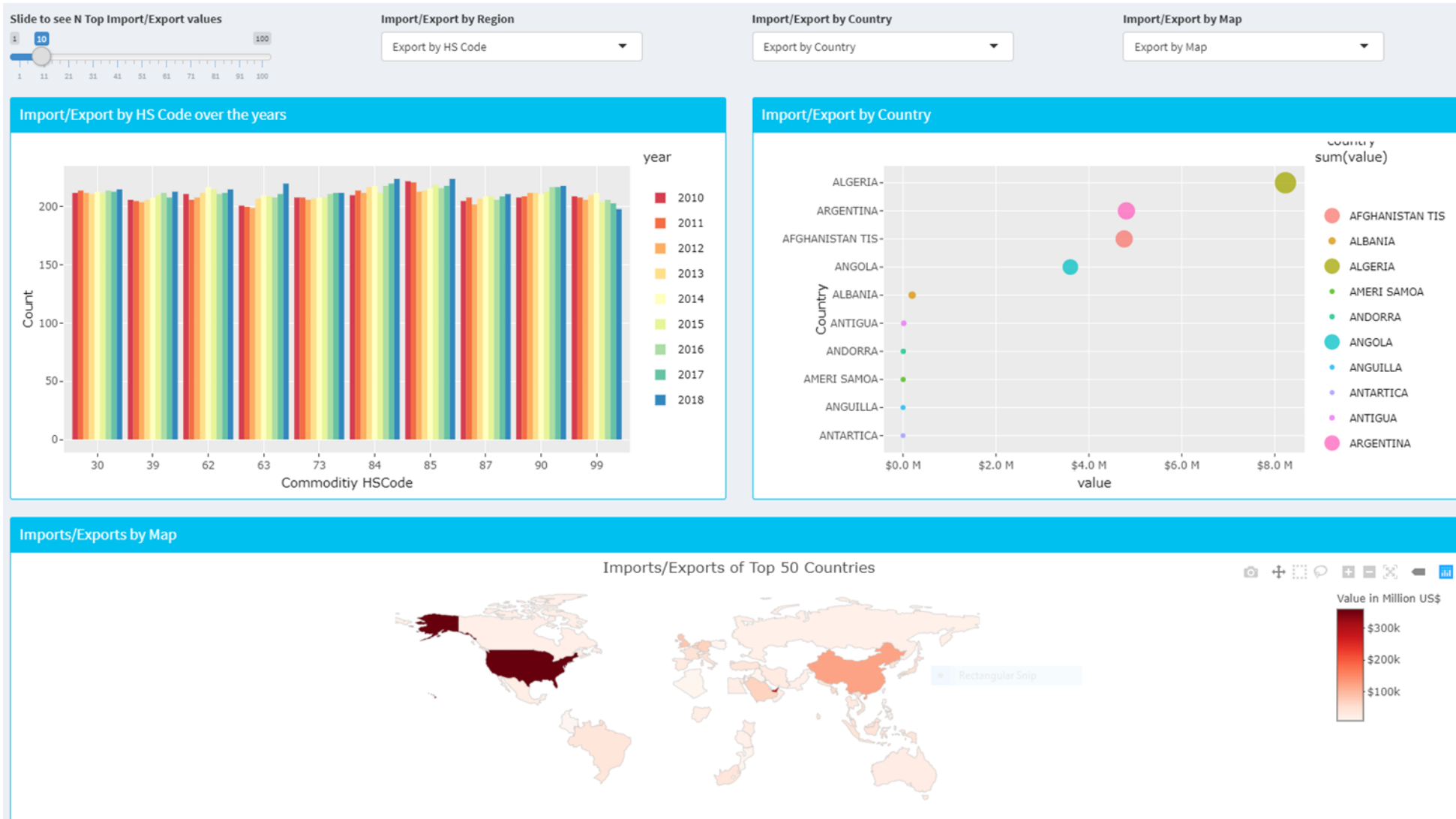


Imports/Exports by Country



Visual1 tab gives information about top 10 countries and top 10 commodities for both imports and exports which could be selected by the dropdown box

Export & Import



Visual2 tab gives information about top N countries which could be observed using the slider. Visual2 also explains about HSCode commodities with maximum count. Geographical view of the countries for Imports and Exports could be seen in the maps

Analysis by Year

2652519.47

Total Exports

5004202.27

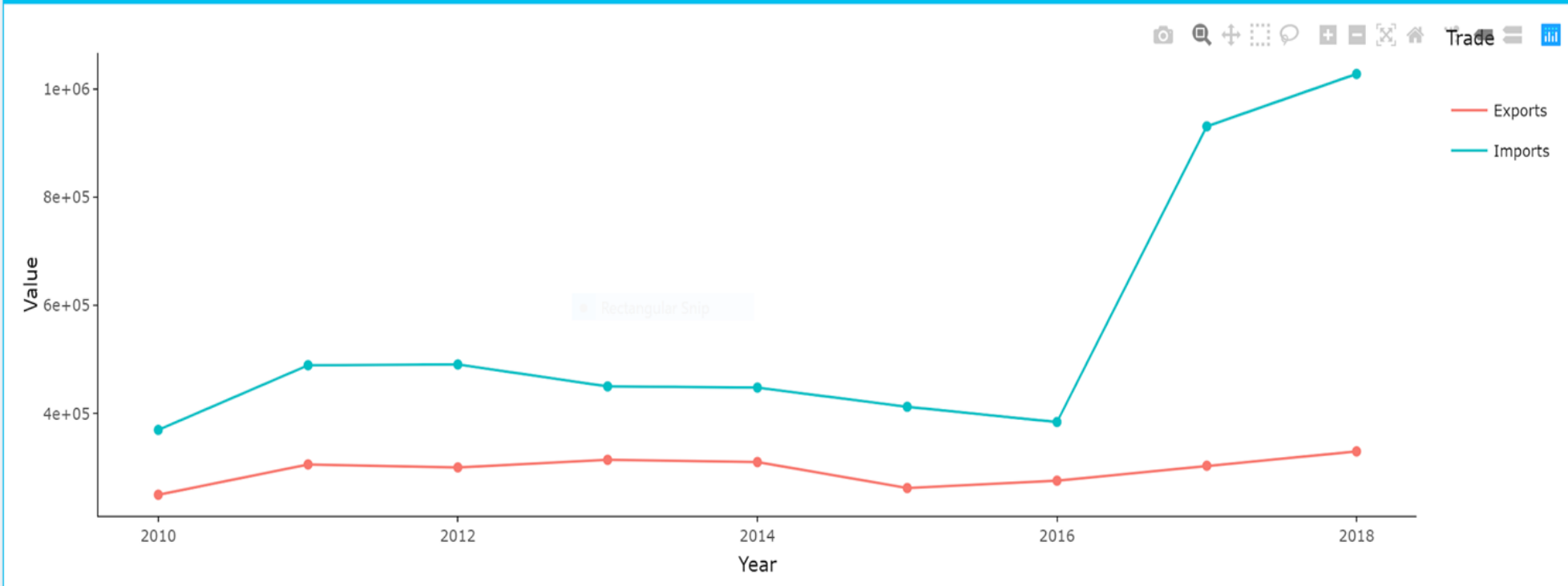
Total Imports

-2351682.8

Overall Profit

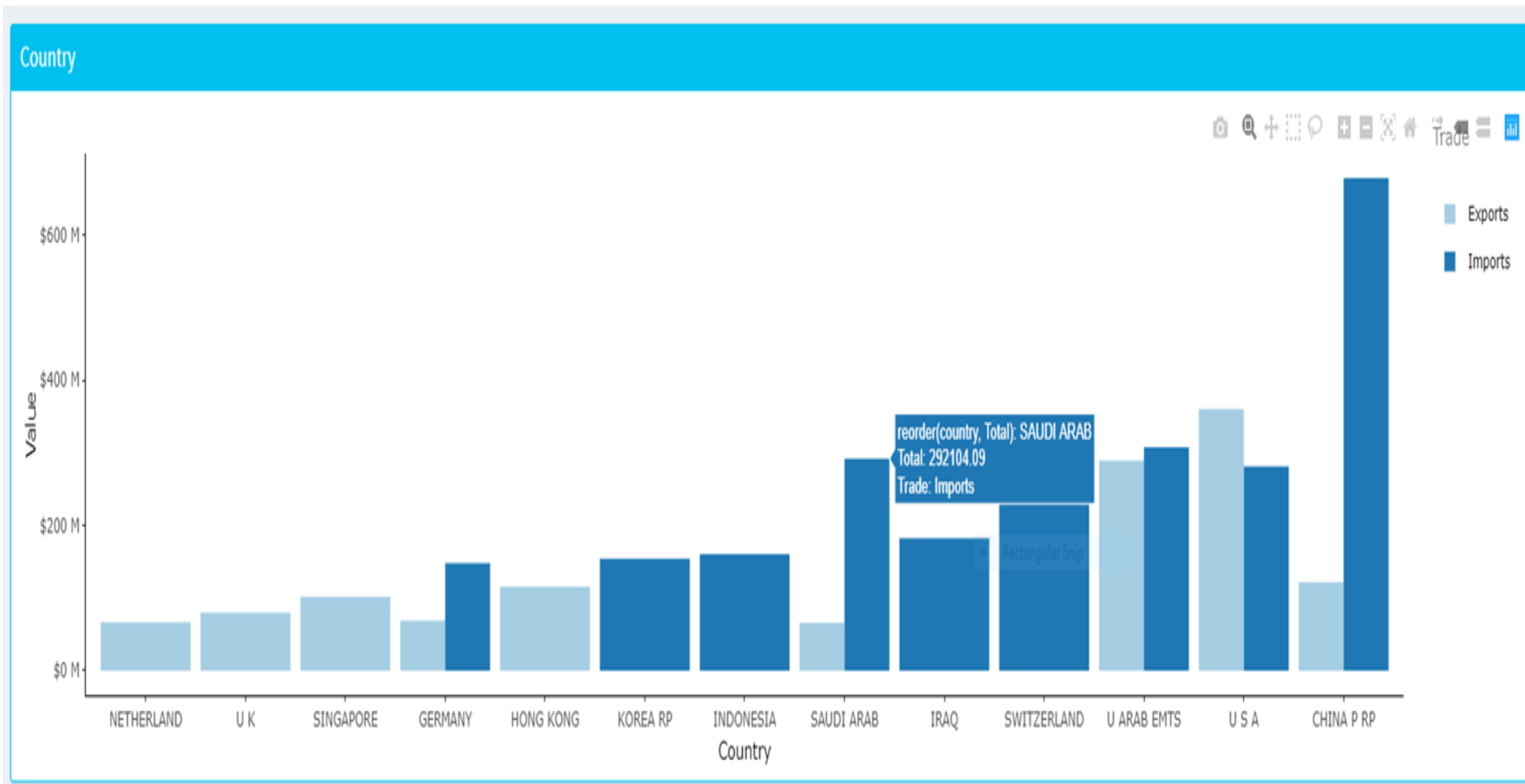


Year



The Country and Year tab gives the information about Imports and Exports of India over time and it could be observed that Exports are always higher than imports in any given year.

Analysis by Country



Import and
Export of
Top 10
countries

Analysis by Commodity

2652519.47

Total Exports

5004202.27

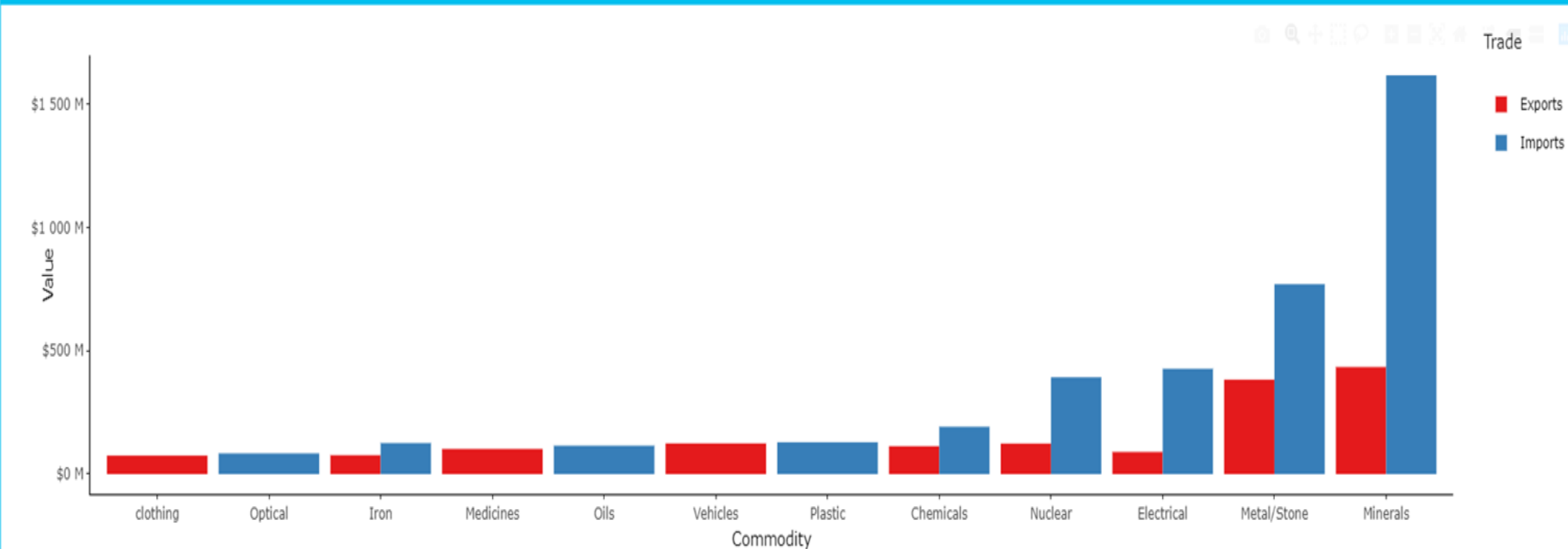
Total Imports

-2351682.8

Overall Profit

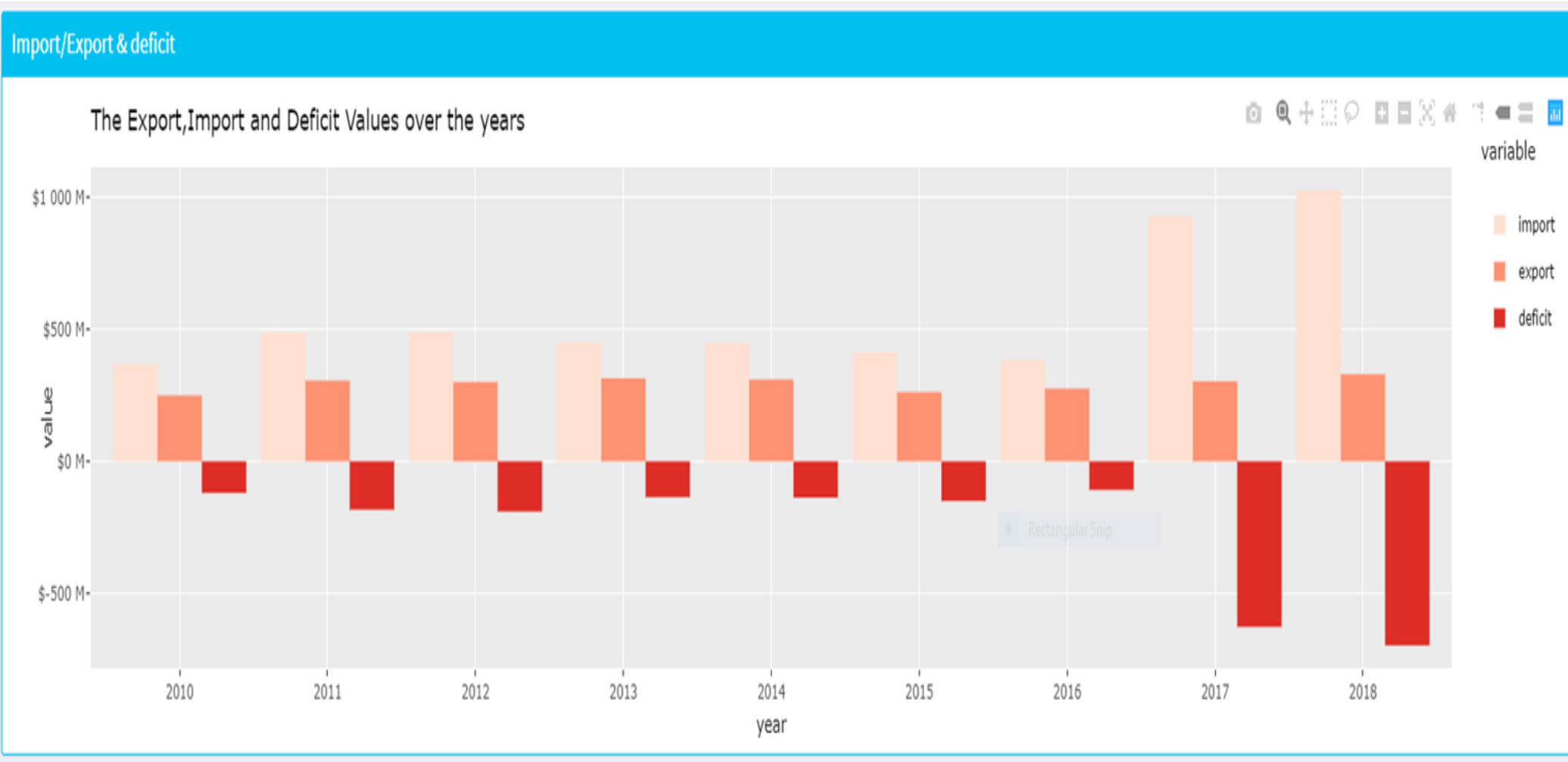


Commodity



Imports and Exports based on Commodities. It could be observed that import and export of Minerals is higher.

Trade Deficit



Deficit is calculated by Imports subtracted by Exports in any given year. It is observed that over period of time India has only observed deficits and no surplus.

Thank You!