



USER GUIDE

Prepared by: Vincent Koh How Han, Ng Wei En, Yeo Qin Ying Sheryl

Application Link: <https://vink94.github.io/uiuxsgtrade/index.html>

Landing Page

Alternate Links to other web pages

Expand sidebar

Link to Team Wikipedia

User Import / User Export

Project Overview

The robust Singapore economy and growth depends heavily on global trade. As a country with no natural resources and comparatively small domestic market, Singapore must be open to external markets in order for the economy to thrive; as two-thirds of Singapore's Gross Domestic Profit (GDP) is generated by external demand. PM Lee mentioned during the recent National Day Rally 2018 about how there might be potential trade impacts and challenges for Singapore; the international system is at a turning point due to the mounting trade tensions between the world's economic giants. Thus, we aim to provide a visualization tool to allow the ease of monitoring, identifying trade patterns and impacts with reference to the total trade figures, commodities type, services and the trade relationships between countries over the years. The visualization will be able to assist government bodies like Ministry of Trade and Industry (MTI), Innovation and Enterprise (IE) Singapore and Straits Times for their analysis and reporting, in turn allowing the public to have a better understanding.

Link to other web pages

Breakdown of Merchandise / Service

Distribution of Trade in Singapore by Top K commodities

Trade trend between countries

Trade Volume between Singapore and Other Country

The Analyst

Icons made by Freepik from www.flaticon.com is licensed by CC 3.0 BY

Made by Ng Wei En, Sheryl Yeo and Vincent Koh


Link to individual team LinkedIn

Upon reaching our web page, users can look at “Project Overview” to gain a better understanding of the context of our project. For navigation to other web pages, users can either select using the icon at the bottom of our webpage or selecting the icon on the left side of the screen (See Alternate Links to other web pages). Users can also click on the expand button (See Expand sidebar) to expand the sidebar out and see the details of the each icon (See image below).


Visual Analytics ☰ User Import / User Export

Project Overview


The robust Singapore economy and growth depends heavily on global trade. As a country with no natural resources and comparatively small domestic market, Singapore must be open to external markets in order for the economy to thrive; as two-thirds of Singapore's Gross Domestic Profit (GDP) is generated by external demand. PM Lee mentioned during the recent National Day Rally 2018 about how there might be potential trade impacts and challenges for Singapore; the international system is at a turning point due to the mounting trade tensions between the world's economic giants. Thus, we aim to provide a visualization tool to allow the ease of monitoring, identifying trade patterns and impacts with reference to the total trade figures, commodities type, services and the trade relationships between countries over the years. The visualization will be able to assist government bodies like Ministry of Trade and Industry (MTI), Innovation and Enterprise (IE) Singapore and Straits Times for their analysis and reporting, in turn allowing the public to have a better understanding.




Breakdown of Merchandise / Service




Distribution of Trade in Singapore by Top K commodities



Trade trend between countries



Trade Volume between Singapore and Other Country



The Analyst

Icons made by Freepik from www.flaticon.com is licensed by CC 3.0 BY Made by Ng Wei En, Sheryl Yeo and Vincent Koh

Breakdown of Merchandise / Service

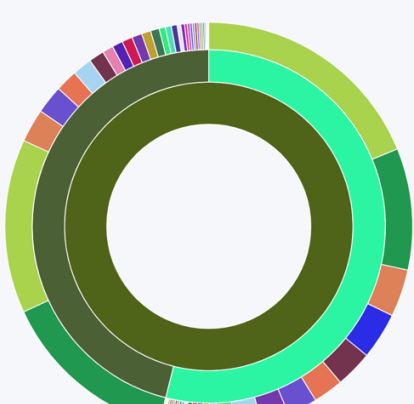
Variable for filtering

User Import / User Export

Distribution of Singapore Trade's by Merchandise/Service

Year: 2017

Type: Merchandise



Trade Details

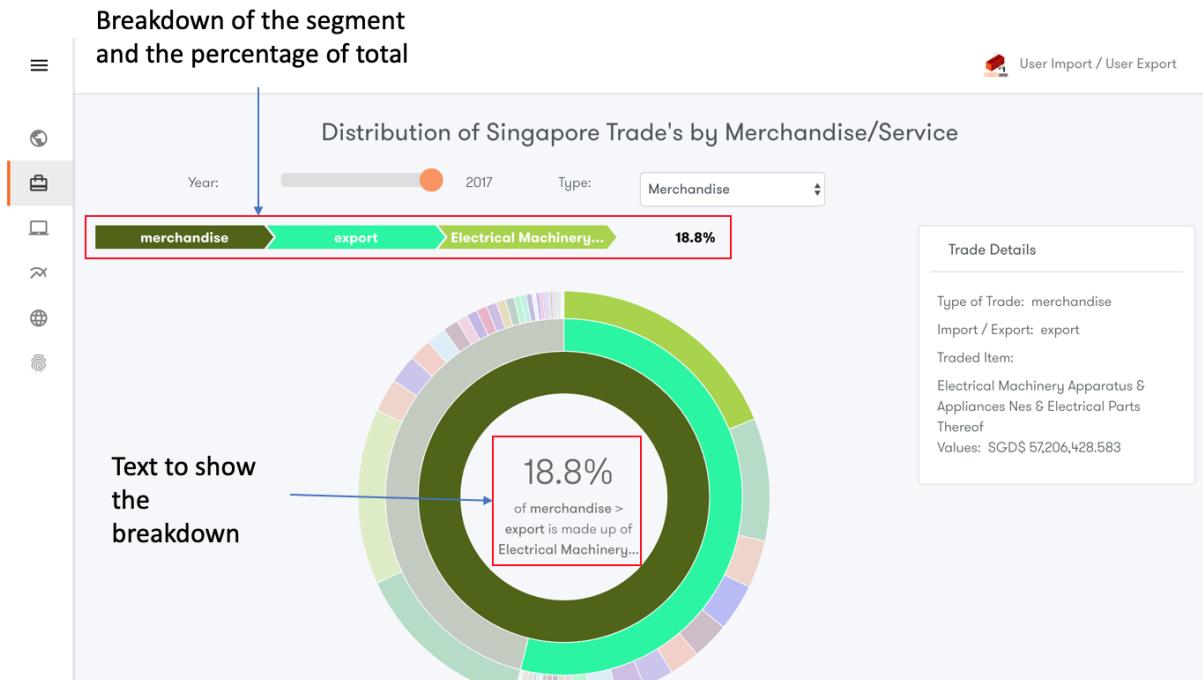
Type of Trade:
Import / Export:

Traded Item:

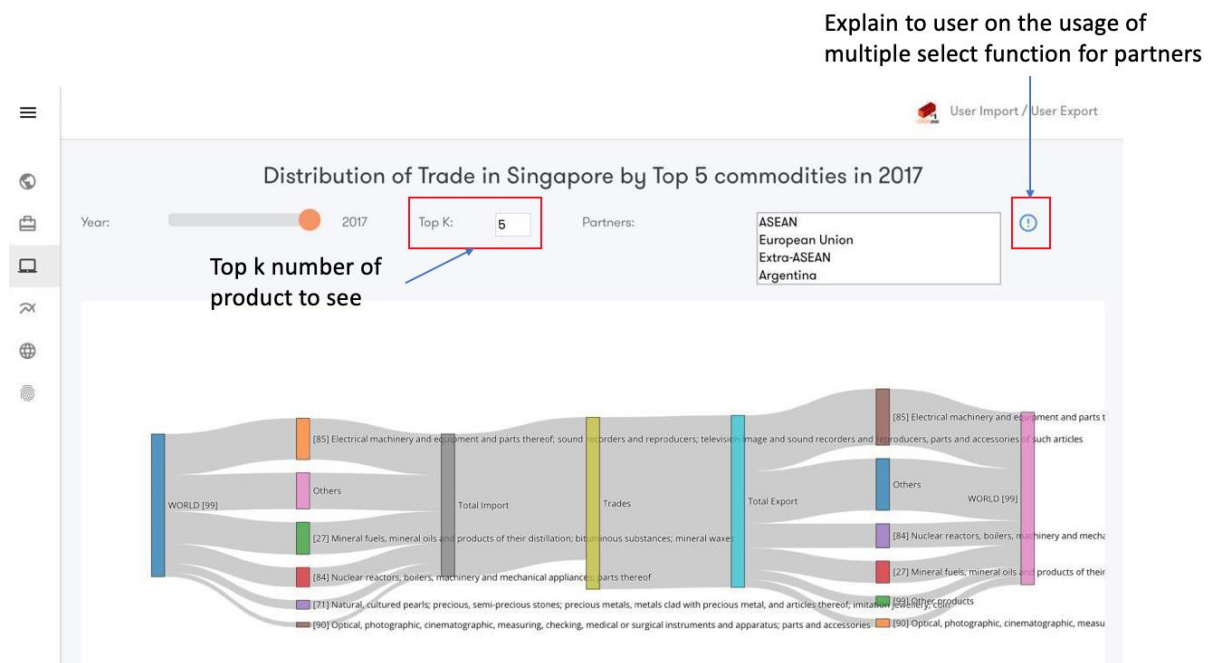
Values:

Details on each segment of sunburst

At this page, users will get to see the breakdown of the trade distribution under merchandise or services by import or export. Users are encouraged to shift the slider or select different type of trade (See Variable for filtering) to get a better sensing of the percentage of trade to or from Singapore based on the filters applied. Upon hovering over a slice of the sunburst diagram, more details on the segment will be shown at the right side of the screen under Trade Details (See details on each segment of sunburst). The image below shows the result when hovering on a particular segment.



Distribution of Trade in Singapore by Top K Commodities

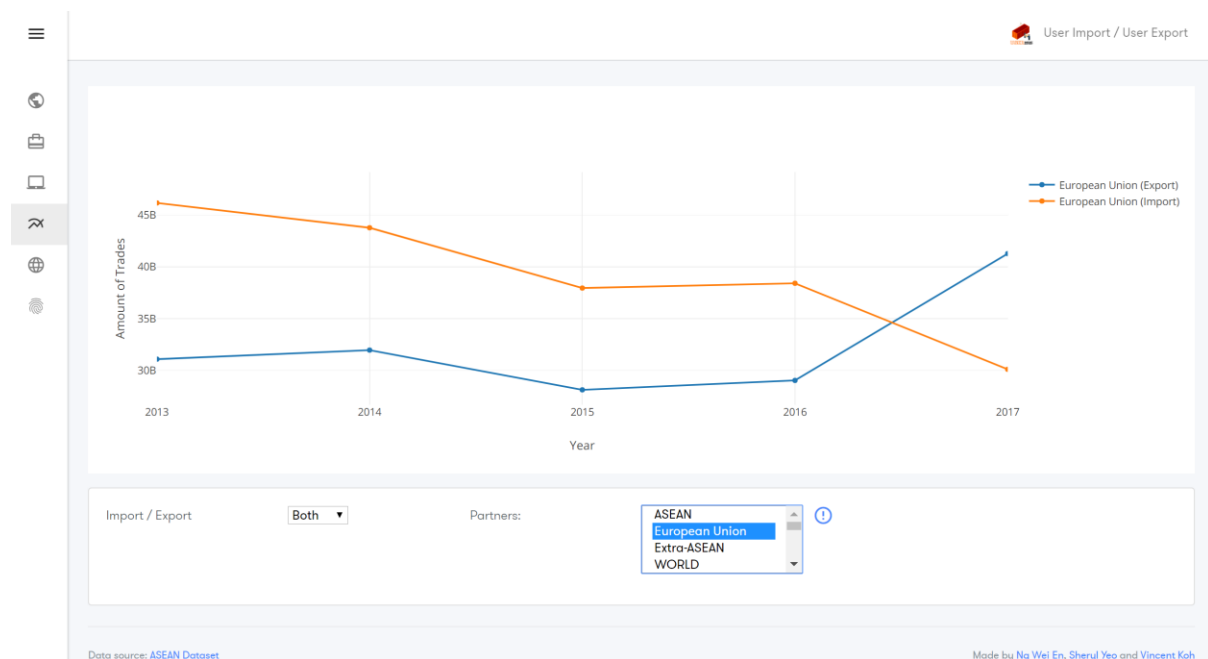


At this page, users will get to see the distribution of trade based on Top K numbers of commodities type to and from Singapore. Users are strongly encouraged to change the Top K, Year and Partners to see the various distribution and amount of trades to and from Singapore in a flow sequence from imports and exports down to the individual categories. In addition, hovering on any part of the Sankey will show the amount in USD.

A small information button beside Partners (See Explain to user on the usage of multiple select function for partners) will indicate how the multiple select works for the Partners' dropdown field for users to refer to.

Holding on command key on Mac/ Ctrl key on Windows will allow users to select multiple Partners for cross analysis of trade distribution. This will be useful to compare categories of trade contributed by a single country relative to another.

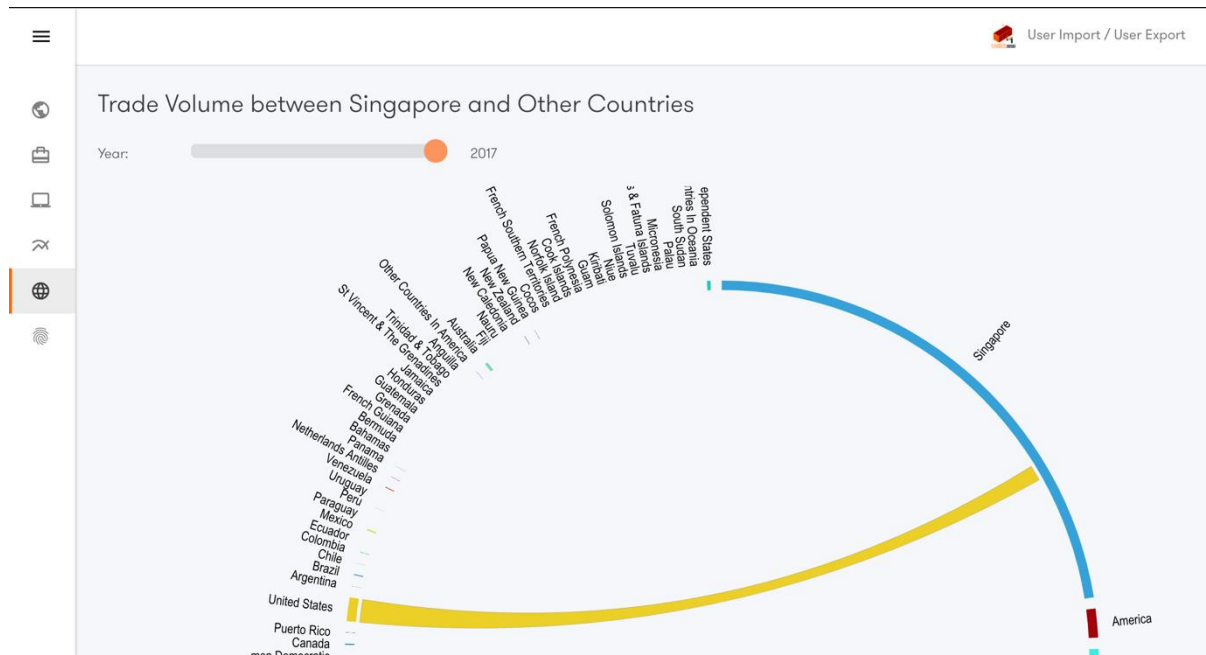
Trade Trends between Countries



At this page, users will be able to gather insights from the trading trends between Singapore and other countries or regions. Users are encouraged to make use of the two available variables to perform filtering. Once the chart is generated, hovering on the chart data point will allow user to see the actual trade amount based on the year in USD.

Likewise, a multi-select partners filter is available for users to toggle which countries they would like to visualise. Holding on Ctrl on Windows/ Command on Mac allows for multi-selection of countries/regions to compare between partners in the same chart.

Trade Volume between Singapore and Other Countries



In this page, users will get to see the relationships and the amount of trade between Singapore and all other countries or region. There is a year slider filter whereby users can filter to show the compare the trade volume over the past few years. Upon hovering over the edge of the chord diagram or the name of the countries or region, the diagram will highlight the link to show the difference between the import to and export from Singapore. In addition, hovering on the link will show a tooltip whereby it will show the actual amount in USD.