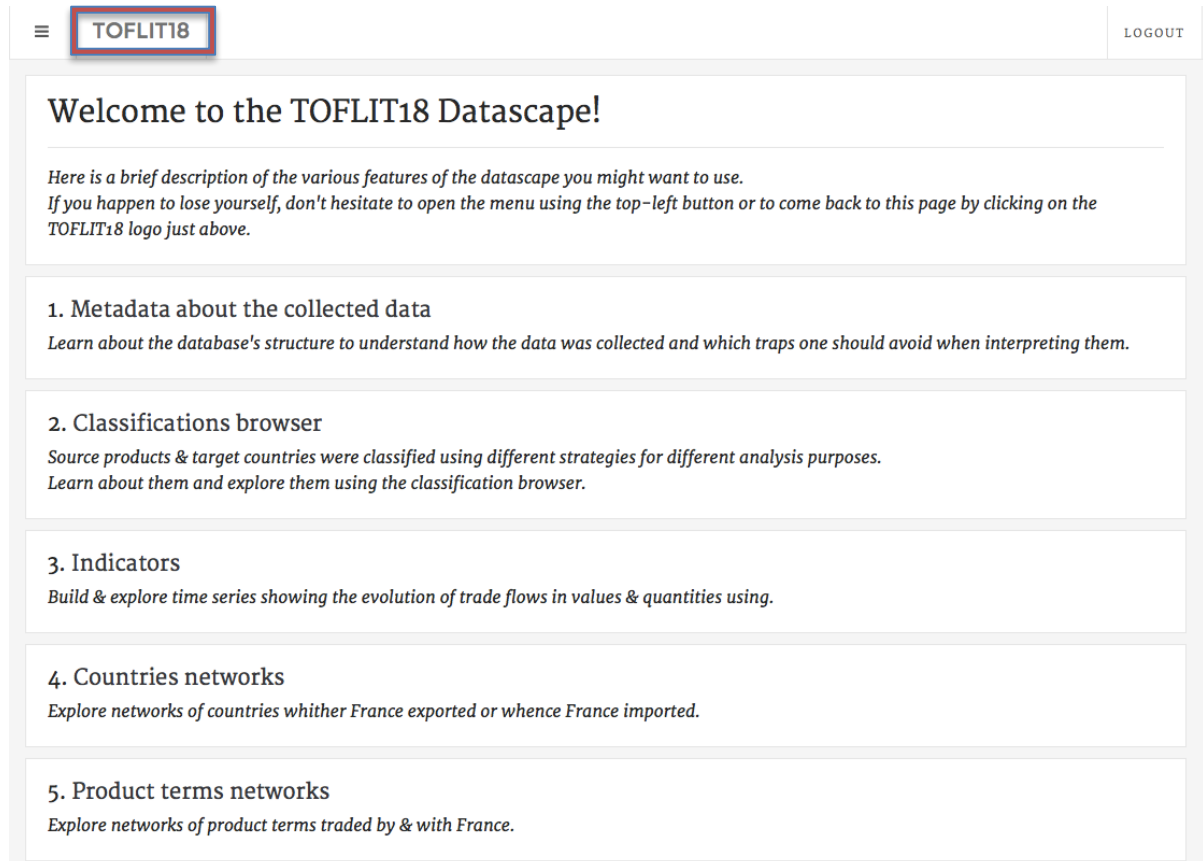


How to use the Datascape?

The Toflit18 Datascape is a useful tool for exploring the collected data on the French foreign trade during the 18th century. It has several features and the aim of that documentation is to display all the functions and possibilities offered by that device.

The user interface of the home page



The home page describes the different features of the Datascape you can use. You can come back to the home page at any time by clicking on the toflit18 logo (surrounded in red). All these features will be described below.

1. Metadata about the collected data

By clicking on “Metadata about the collected data”, you can learn some information about the database’s structure and understand data collected.

The screenshot shows the TOFLIT18 Metadata interface. At the top, there is a navigation bar with a hamburger menu icon, the text 'TOFLIT18', and a 'LOGOUT' button. Below the navigation bar, the main section is titled 'Metadata' with a subtitle 'Some information about the data itself.' The interface is divided into several sections for filtering data:

- What we want information about:** A section with a 'Data type' dropdown menu. Below it, a note says 'You must select the type of data to control.'
- Filters:** A section containing several filter options:
 - Source Type:** A dropdown menu with the text 'Source type...' and a note 'From which sources does the data comes from?'.
 - Product:** Two dropdown menus. The first is labeled 'Product classification...' and the second is labeled 'Product...'. A note below says 'The type of product being shipped.'
 - Country:** Two dropdown menus. The first is labeled 'Country classification...' and the second is labeled 'Country...'. A note below says 'The country whence we got the products or wither we are sending them.'
 - Direction:** A dropdown menu with the text 'All' and a note 'The French harbor where the transactions were recorded.'
 - Kind:** A dropdown menu with the text 'Total' and a note 'Should we look at import, export, or total?'.
- Add Charts:** A button at the bottom left of the filter section.

First of all, you need to select the type of data you want information on (“Data type”). There are several types:

- “Direction”: shows all the French regions that provided data, you can see where the data are available.
 - “Source type”: shows the types of sources available: national sources, local sources, sources from the colonies, etc...
 - Different merchandises’ classifications:
 - “Sources”, “Orthographic Normalization” and “Simplification” concern the spelling of merchandises (how it is written in the sources, how they were normalized and simplified);
 - “Medicinal products”, “Hamburg classification”, “North America”, “Eden Treaty”, “Grains”, “SITC”, “SITC EN” and “SITC FR” are several other merchandises’ classifications.
- These types of data show the occurrences (number of flows) of each category of the selected classification for every year.
- Different geographic classifications:
 - “Sources”, “Orthographic Normalization” and “Simplification” concern the spelling of countries (how it is written in the sources, how they were normalized and simplified);
 - “Grouping” and “O’Brien” are countries’ classifications.



2. Classifications browser

By clicking on “Classifications browser”, you can find all the classifications for products and countries and all the items included in each category of classification.

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TOFLIT18

LOGOUT

Classifications

Products

Sources
50 032 items.

Orthographic Normalization
24 522 groups for 50 032 items.
50 032 / 50 032 classified items (100 %)

Simplification
18 346 groups for 24 522 items.
24 522 / 24 522 classified items (100 %)

Medicinal products
3 groups for 18 346 items.
14 668 / 18 346 (-3 678) classified items (79 %)

Hamburg classification
38 groups for 18 346 items.
1 596 / 18 346 (-16 750) classified items (8 %)

North America

Export

Sources

Search group...

Filter

Reset

...caille de Tortue

...copes

...gouttoir à Fondre

...Licanes

...pars

...pars de Sapin

...parts

...pice

...pice de Curons

For example, if you want to find out how an item was classified in the SITC (Standard International Trade Classification), click on SITC inside the scroll-down menu on the left and write the name of the item on the area “Search item”. Then, press Enter or click on Filter for the datascape to show you the classification.

E.G.: “Tabac en feuilles” is classified into the category n°1 in the SITC classification.

Classifications

SITC
25 groups for 18 346 items.
18 346 / 18 346 classified items (100 %)

SITC EN
24 groups for 25 items.
24 / 25 (-1) classified items (96 %)

SITC FR
24 groups for 25 items.
24 / 25 (-1) classified items (96 %)

SITC

Search group...

Tabac en feuilles

Filter

Reset

1 (556 items)

- Madères
- absinthe
- anis et rac et rhum etc.
- anisette
- anisette au fiasque
- [...]

You may select SITC EN to see the details concerning the categories, their meaning, and, for example, understand what category n°1 stands for.

You can also do the same thing with countries' classification. Sometimes, in the sources, the place indicated is not a country but a city or a region. For example, "Venise" is classified inside "Italie" in the classification Grouping.

Classifications

24 / 25 / 1 / Classified items: 190 / 20 /

Countries

Sources
908 items.

Orthographic Normalization
331 groups for 908 items.
908 / 908 classified items (100 %)

Simplification
222 groups for 331 items.
331 / 331 classified items (100 %)

Grouping
30 groups for 222 items.
222 / 222 classified items (100 %)

Grouping

Italie (29 items)

- Genève et Piémont
- Gênes
- Gênes, Milan, Toscane et Lucques
- Italie
- Livourne
- [...]

There are several classifications, following a hierarchy described bellow (for example the normalisation and simplification for merchandises, but it is the same work for countries).

Step 1: Orthographic standardization

In order to regroup some merchandises written in different forms in the sources under a same spelling (for exemple : alun, aluns, Alun, ALUN), we have chosen to standardize the spelling of merchandises (in the last example, the good spelling is "alun"). So as to do this standardization, some rules are required to do it properly. You can find all these rules in French in the file "Normalisation et simplification orthographique des merchandises".

Thanks to this orthographic standardization, the 50 000 merchandises names represent less than 25 000 standardized names. Obviously, it facilitates the work with the data, as an example to follow the evolution of some merchandises trade. However, different standardizations correspond to the same merchandise so it is useful to do a simplification after that standardization.

Step 2 : Orthographic simplification

Orthographic simplification consists to regroup different merchandises standardized under a same designation **without losing information**. In fact, this simplification has permitted to reduce the number of merchandises to 18 000.

3. Indicators

By clicking on “Indicators”, you can explore the database and discover time series showing the evolution of trade flows. You can see the number of flows and their total value per year, choosing one direction or all, and the number of elements per year by direction.

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TOFLIT18

LOGOUT

1. Creating a new line

By selecting the following criteria, you'll be able to add the line you need on the graph that will be created for you below.

Source Type
From which sources does the flows come from?

Source type... ▾

Product
The type of product being shipped.

Product classification... ▾

Product... ▾

Country
The country whence we got the products or wither we are sending them.

Country classification... ▾

Country... ▾

Direction
The French harbor where the transactions were recorded.

All × ▾

Kind
Should we look at import, export, or total?

Total × ▾

Add the line

As in the category “Metadata about the collected data”, you can choose which source type you want to keep and which product you would like information on. You can also choose a country with which France has traded, a direction and a kind (Exports or Imports). Then you may click on “Add the line” and explore the results.

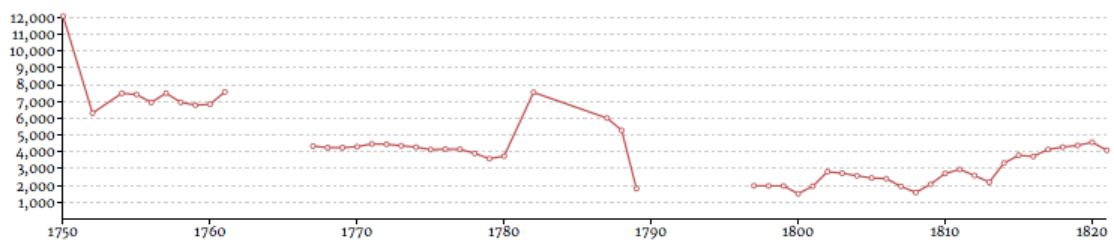
Of course, you can fill in none of the criteria, click on “Add the line” and have results about the entire database. As shown in the following example: you can see the number of flows per year and its value from the National best guess sources, and the number of directions per year found in the database for that source type.

2. Exploring the results

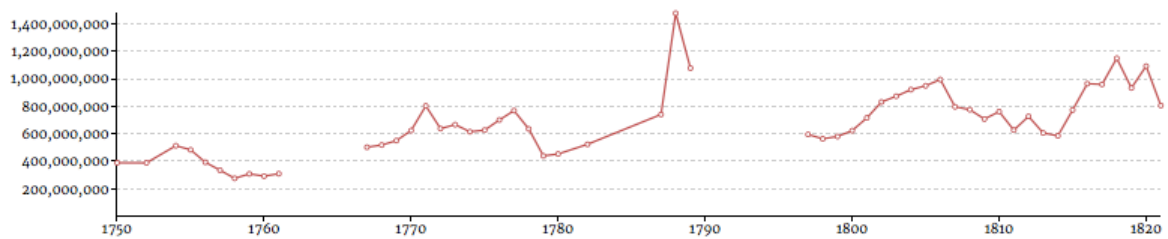
You can now see the created lines on the graph below.

Total flows - (source type: National best guess) ✕

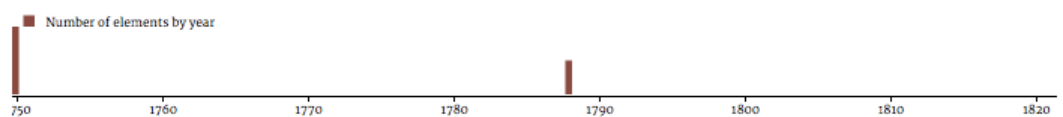
Number of flows per year



Total value of flows per year



Total number of directions per year



Export data

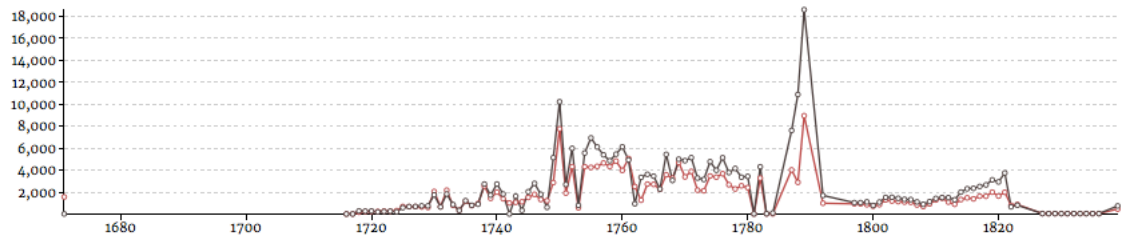
To export the data in text-form, use the “Export data” button on the bottom right of the page.

Additionally, you can compare several time series. For instance, you can compare the evolution of imports and exports in the entire database, you just have to select Imports in the criteria « Kind » and « Add the line »; then you may do the same thing with Exports and both graphs will come on top of each other.

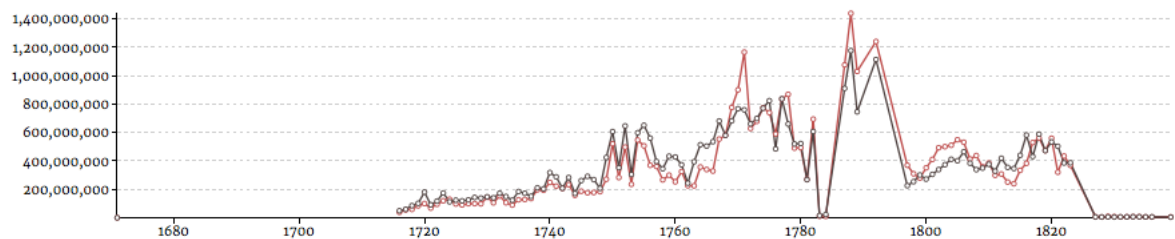
Import flows ☐

Export flows ☐

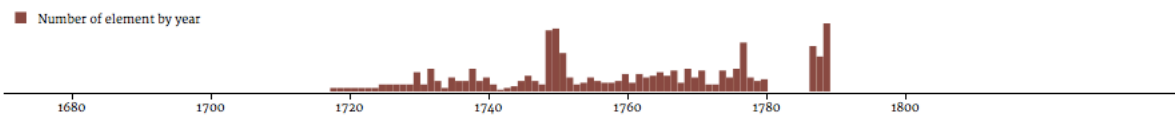
Number of flows per year



Total value of flows per year



Total number of directions per year



Export data

4. Countries network

By clicking on “Countries network”, you can explore relationship between directions and countries, between French regions and their partners.

Countries Network
Choose a country classification and display a graph showing relations between countries & directions.

What we represent as country nodes:

Country
The country whence we got the products or wither we are sending them.

Country classification...

Filters:

Source Type
From which sources does the data comes from?

Source type...

Product
Choose one or two types of product being shipped to cross or not result.

Product classification... Product...

Kind
Should we look at import, export, or total?

Total

Dates
Choose one date or a range date

Date min... Date max...

Add network

First, you shall select which country classification you wish to work with. Then you might choose filters (even though it is not required to add a network): source type, product, kind (Imports or Exports) and dates.

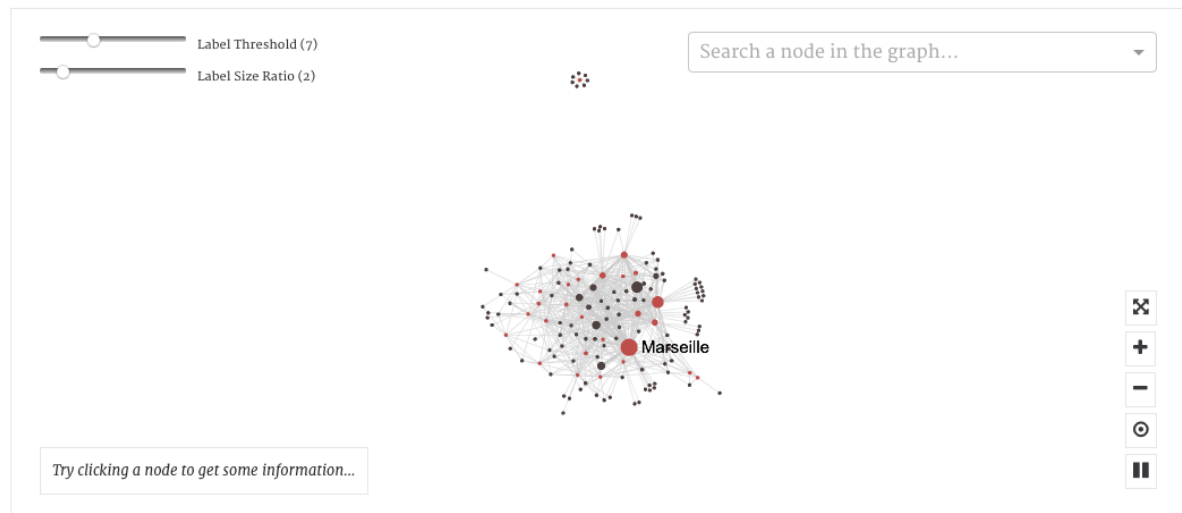
Thereafter, click on “Add network”, and the graph representing the network you selected will appear. For example, we have chosen “simplification” as country nodes without any filter.

That is what appears on the screen:

Node size: ☐ Nb. of flows. ☒ Value of flows. ☐ Degree.

Edge thickness: ☒ Nb. of flows. ☐ Value of flows.

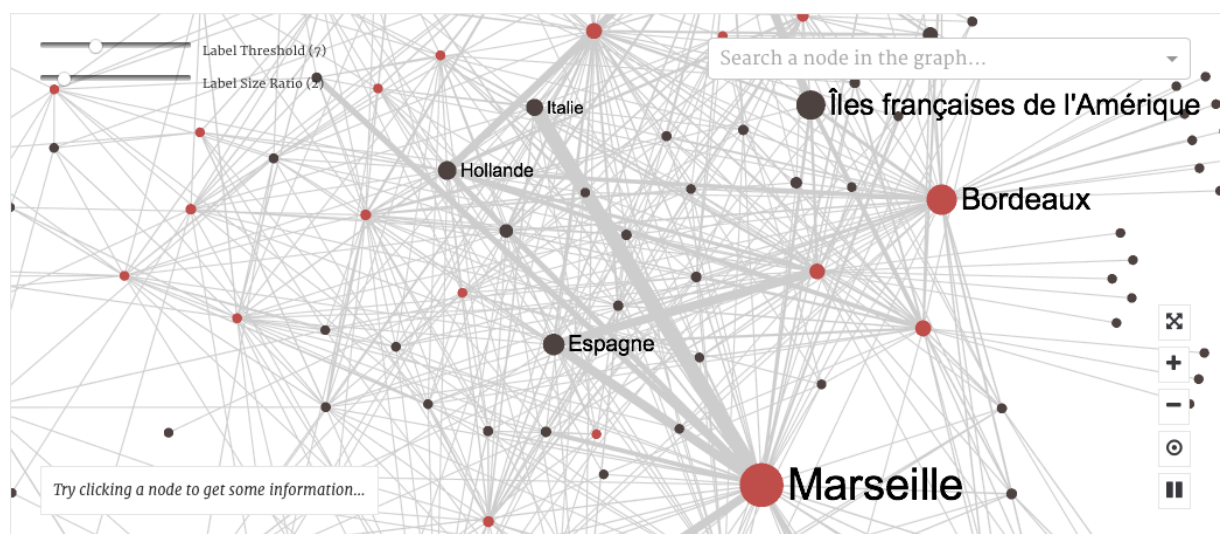
☒ Direction ☒ Country



Export CSV






Export GEXF

Export SVG



You can see a real network and you can “play” with it. Zoom in if you’d like a better visibility of relationships between directions and countries.

In that interface, you have different possibilities with different buttons:

-  Put the network representation in full screen
-  Zoom in or zoom out
- 
-  Restart the initial representation
-  Break the representation

Moreover, you can choose if you want the nodes to represent the number of flows between directions and countries, or the value of flows. Thus, the bigger the node is, the higher the number or the value of flows.

You can do the same thing with the links between nodes (choose between number or value of flows).

Furthermore, you can also see more labels of countries and directions by diminishing the label threshold and increase the size of these labels by raising the label size ratio.

Finally, you can search a node in the representation with the tool “Search a node in the graph” and get some information on the country or direction chosen by clicking on a node (you will obtain the number of flows, the value of these flows and the degree).

In order to export your results, you may choose between the following file formats : CSV, GEFX or SVG.

5. Product terms network

By clicking on “Product terms network”, you can explore relationships between product terms traded by and with France. It allows you to see how products terms are related (as an example, the products “feuilles de tabac” and “feuilles de fer” are linked by the term “feuilles”).

Terms Network
Choose a product classification and display a graph showing relations between terms of the aforementioned classification

Whence do we extract our terms:

Product
You must choose the type of product being shipped. Product classification...

Filters:

Source Type
From which sources does the data comes from? Source type...

Country
The country whence we got the products or wither we are sending them. Country classification... Country...

Child Classification
The value of a child classification for aggregation purposes. Child classification... Product...

Direction
The French harbor where the transactions were recorded. All

Kind
Should we look at import, export, or total? Total

Dates
Choose one date or a range date Date min... Date max...

Add network

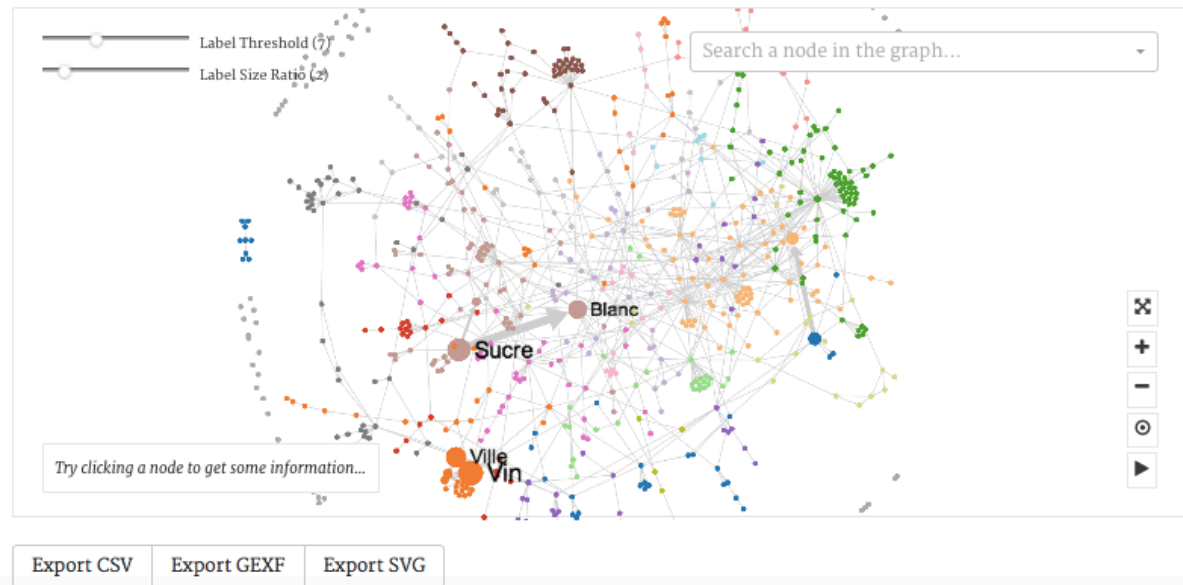
First, you must select which product classification you wish to work on. Then you might choose filters (even though it is not required to add a network): source type, country, direction, kind (Imports or Exports) and dates.

Thereafter, click on “Add network”, and the graph representing the network you selected will appear. For example, we have chosen “simplification” as products nodes with some filters: “simplification” as country, “Bordeaux” as direction and “exports” as kind.

That is what appears on the screen:

Node size: ☐ Nb of flows. ☒ Value of flows. ☐ Degree.

Edge thickness: ☐ Nb of flows. ☒ Value of flows.



Thus, you can see that the most exported products from Bordeaux are sugar (in particular white sugar, “sucre blanc” in the graph) and vine (in particular town vine, “vin de ville” in the graph).

You can apply the same options that are detailed in “Countries network” except it concerns products, not countries and directions.

By clicking on a node, you will be able to see the number of flows of that product term, its total value and the degree of that term.