

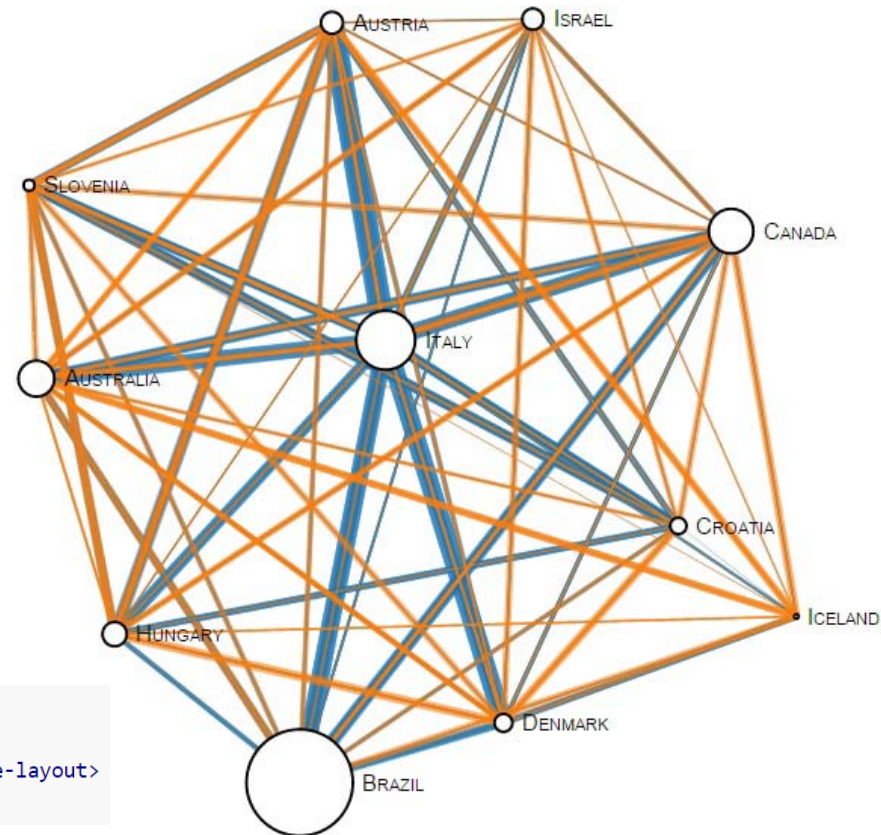
# MultiNets: Web-based multilayer network visualization

Matija Piškorec <sup>1</sup>, Borut Sluban <sup>2</sup>, Tomislav Šmuc <sup>1</sup>

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- Javascript library for visualization of multilayered networks in web browser.
- Composed of reusable HTML components.
- Easily extendable through Javascript and CSS.
- Use cases:
  - Publication quality network visualizations.
  - Exploratory data analysis.
  - Building complex web-based interfaces for data mining.



```
<div ng-app="networkApp" ng-controller="networkCtrl">
  <aspect-selector></aspect-selector>
  <force-layout initial-url="data/trade-network-multilayer.json"></force-layout>
</div>
```

Tuesday demo session (19:00 - 21:00)

matija.piskorec@irb.hr

<http://matijapiskorec.github.io/multinets/>



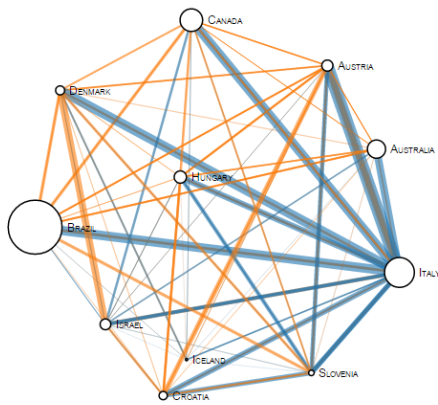
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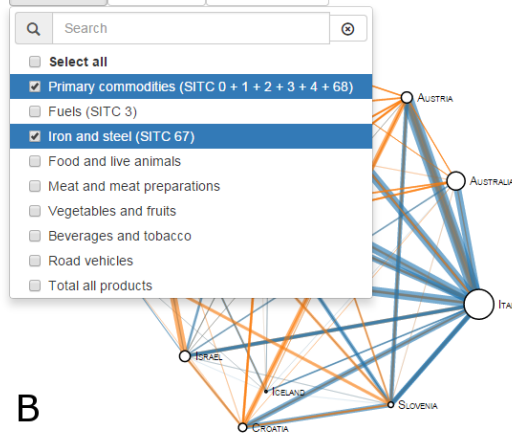
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2 selected ▾ 1 selected ▾ None selected ▾



A

2 selected ▾ 1 selected ▾ None selected ▾



B



C

Visualization of the multilayer network of trade relations between countries. Sizes of the nodes are proportional to the population of each countries, colors of the connections correspond to various products and their thickness to the total trading volume. Other mappings from data to visual elements can be easily defined by modifying the existing components.

Menu for selecting various aspects of the multilayer network, in this case the products traded between the countries. Multiple layers SITC can be selected at once.

Geographical embedding of the given multilayer network. Users can extend MultiNets to provide similar embeddings for their specific domains.

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