

# SPOT

## Visual analytics tool for science

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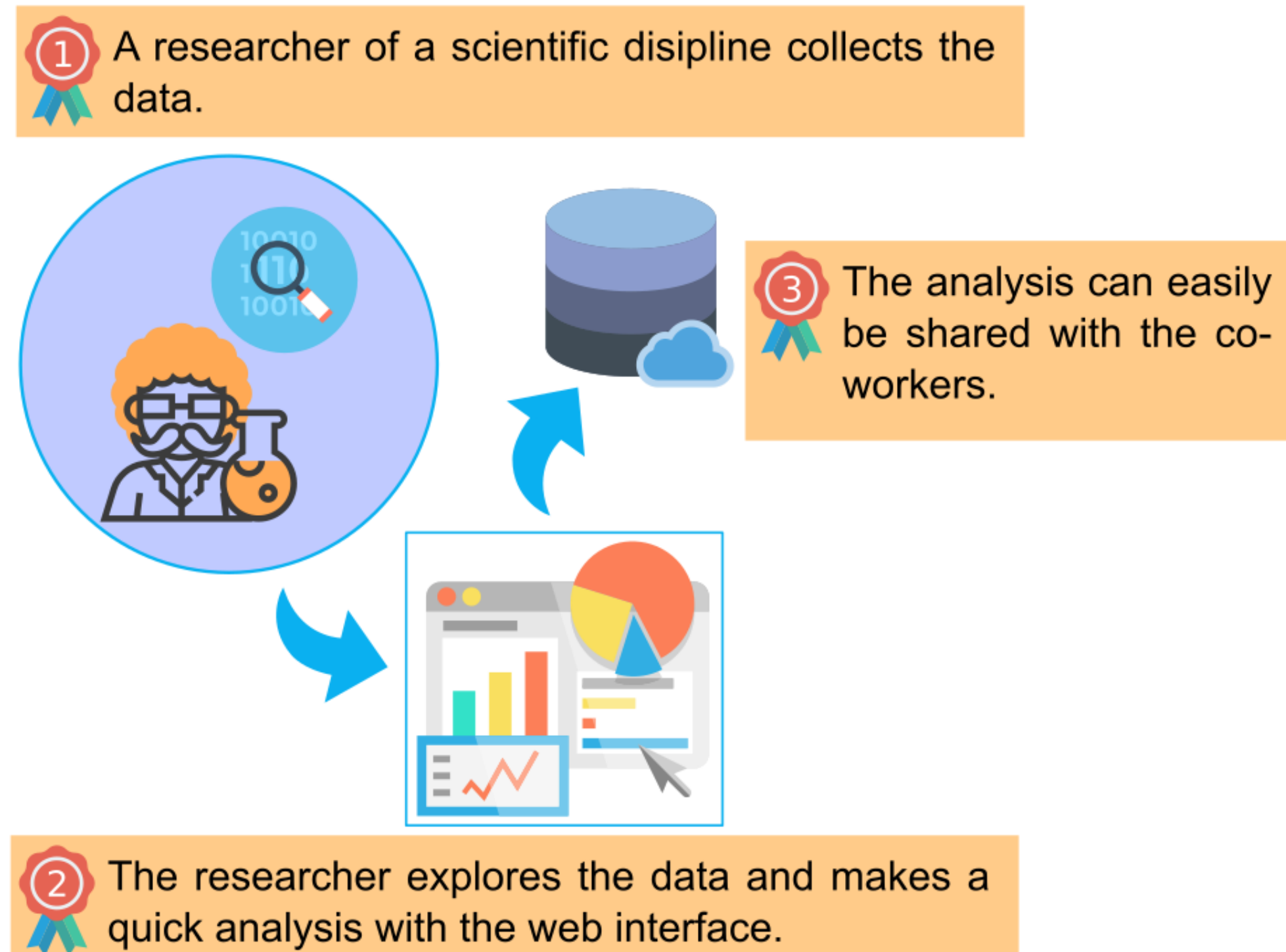
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### SPOT the details

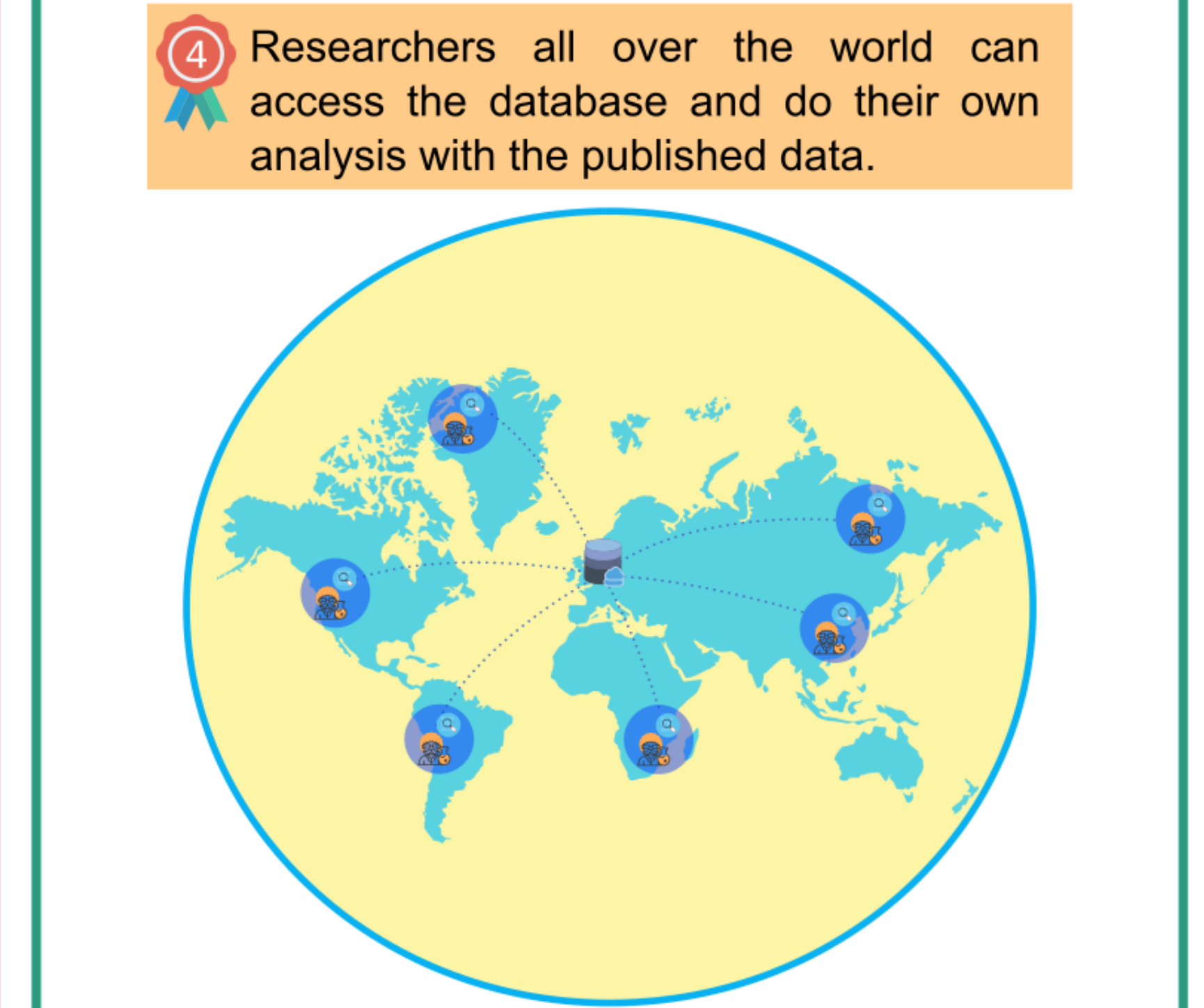
SPOT is an interactive, fast, scaleable, web-based visual analytics tool. It was primarily designed as data exploration and analysis tool for complex multidimensional datasets. It can now be used to create and share dashboards to visualize tabular data stored in relational databases, or CSV and JSON files. SPOT uses common visual analytics ideas like multiple coordinated views and drill-down. SPOT is currently being used in **IDARK** and **AA-ALERT** eScience projects.



#### Explore



#### Share



### Features

#### Analysis in three steps:

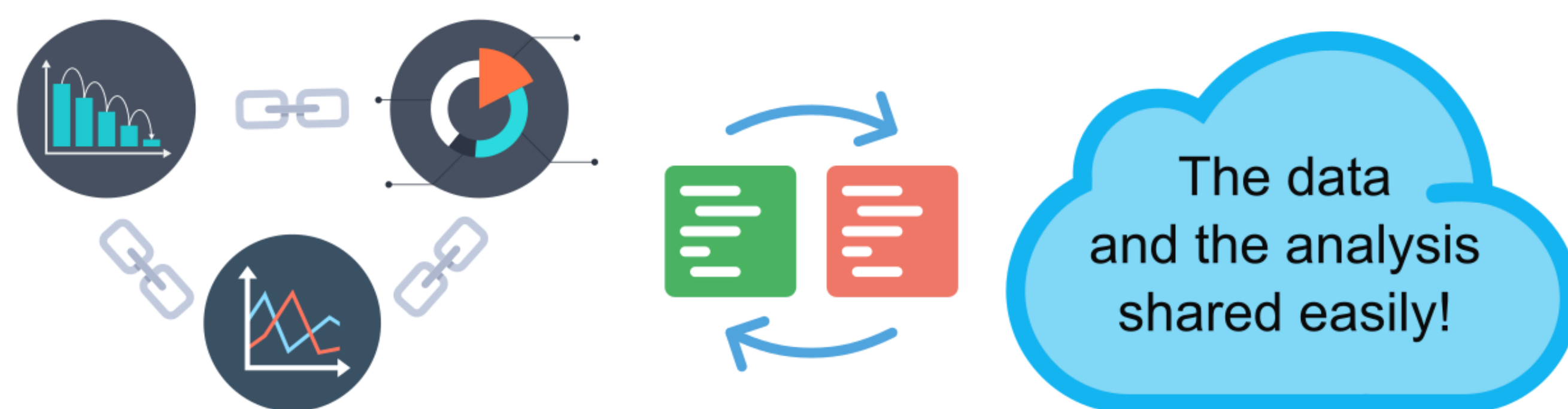
- 1-Upload the data.
- 2-Select your variables and create your plots.
- 3-Use "Select" and "drill-down" to make your discoveries.

#### Use cases:

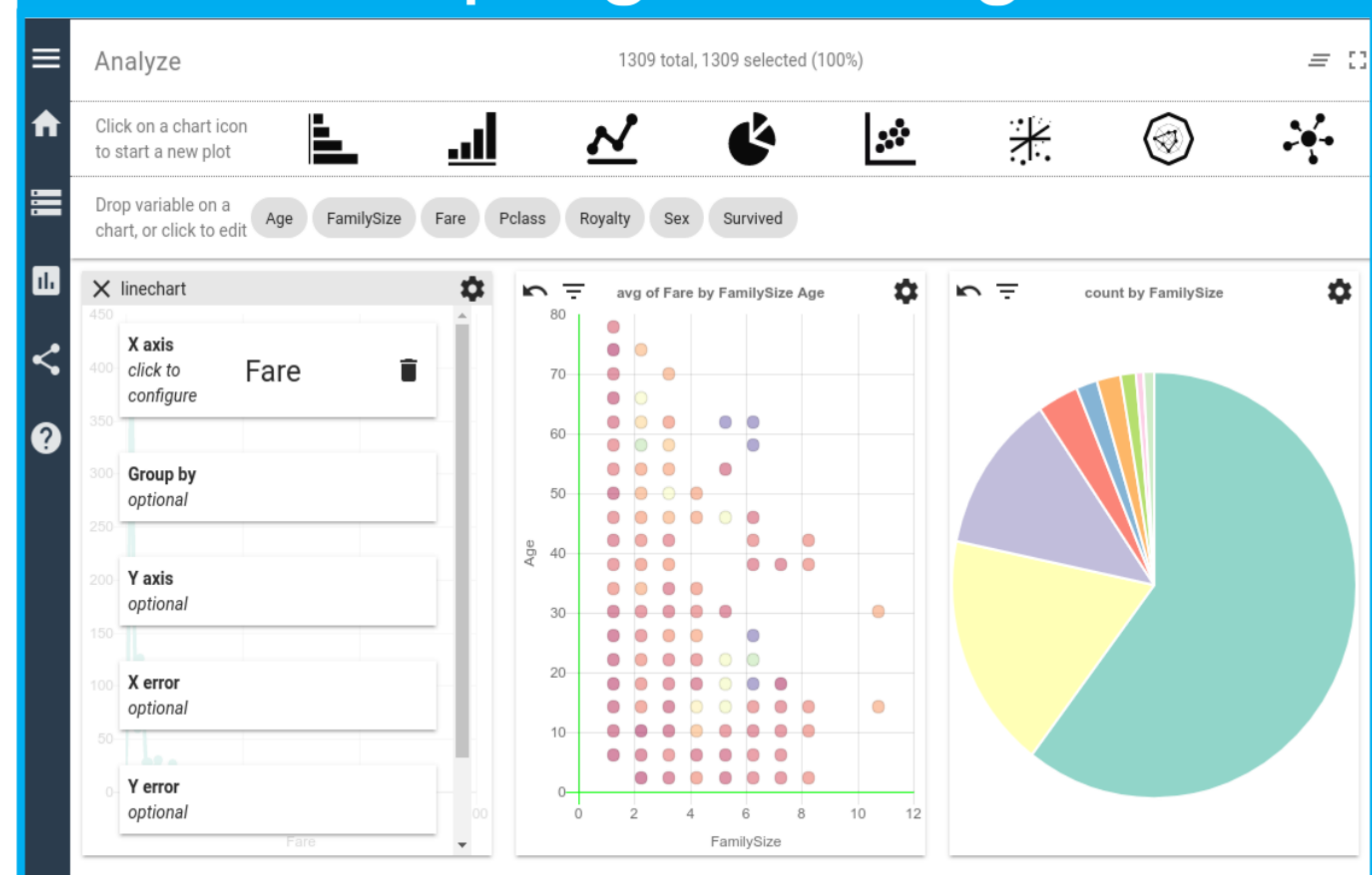
- Data exploration
- Data visualization
- Dimension reduction
- Collaborative analysis

#### Connected charts

- All charts are connected to each other, and filter the data.
- When a filter changes, the charts are updated simultaneously. This is helpful for high dimensional data visualization, where each chart shows a cross section on one or more dimensions.
- The analysis and the data can be shared with a single click!



### No programming



- Create your dashboard in seconds using only a few clicks and drag-and-drop.
- Interact with plots to select or drill-down.
- More complex options available in context menus.

### eScience Challenges

- Visualization of multidimensional data  
eChallenge: Scientific data visualization
- Database for published scientific data  
eChallenge: Optimized Data Handling, Big Data Analytics

Online version Desktop version



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<https://github.com/NLeSC/spot>

