

Efficient Algorithm for recommendation of data visualization tools

Overview

Use case/scenario

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Project Overview

■ Objective

- Develop an algorithm to recommend accurate data visualization tools (Charts) based on selected Datasets / Properties.
- Intended to be used by systems like LinDA Project that provide ways to explore Linked Data Datasets.

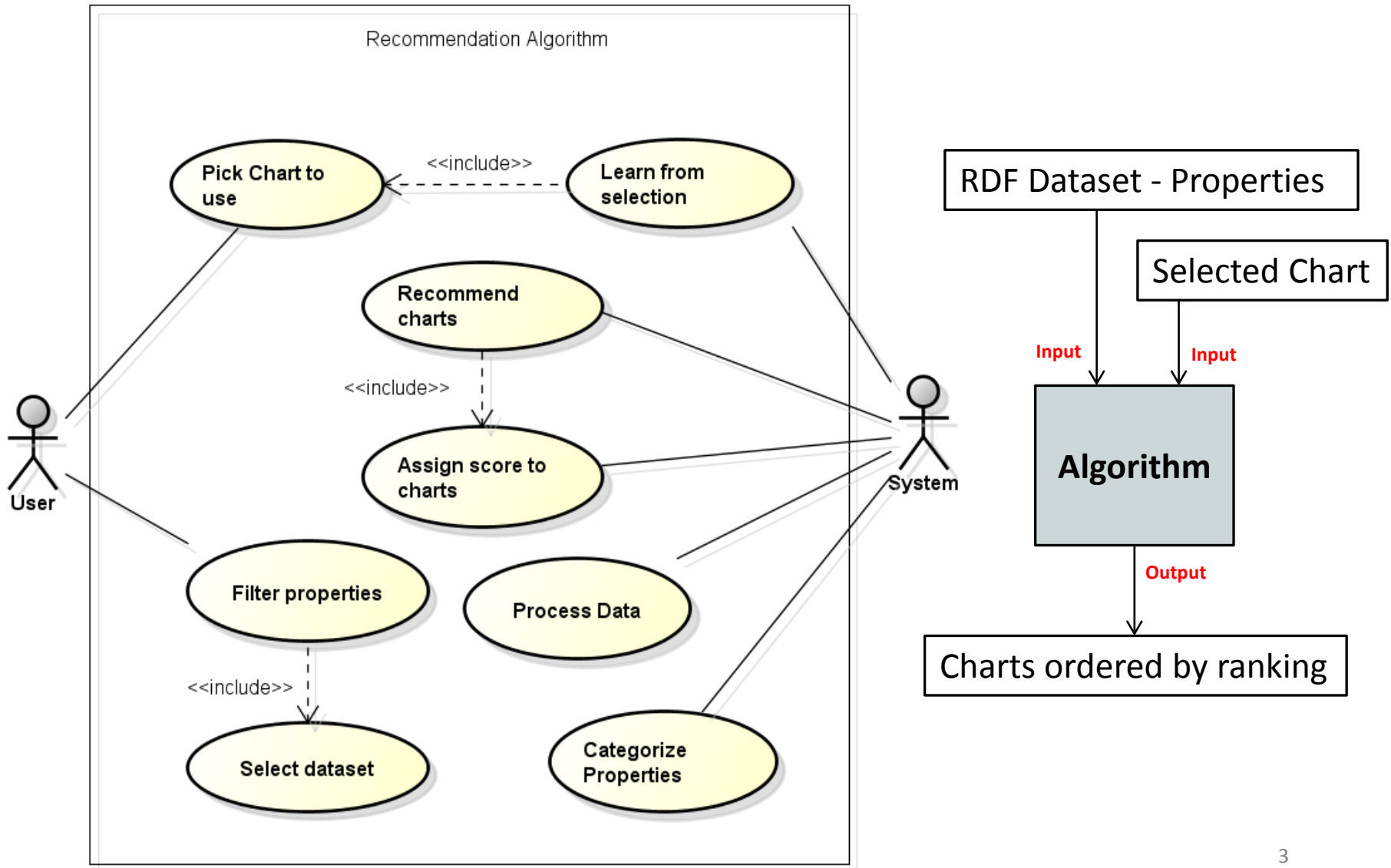
■ Charts recommendation

- Raked list of recommended charts
- Google Charts such as Bar, Bubble, Line, Geo Charts...

■ Algorithm

- Google Charts scope / Analyze data formats
- Categorize Properties (Data type, Scale of Measurement, etc...)
- Learn from previous selections (feedback)

Use-Case diagram



Scenario: BBC Music dataset

1. A user wants to explore the BBC Music dataset and visualize specific data from it as a chart.
2. User select the following properties (from dataset) to visualize: Artist, No. Album Sold, Country.
3. The algorithm use this data as input and recommends 3 charts ordered by ranking. The chart with the top rank is presented.
4. User selects the second option on the ranked list to visualize the data.
5. The algorithm receives a feedback from this selection and improves the recommendation pattern for future visualizations.

Thank You