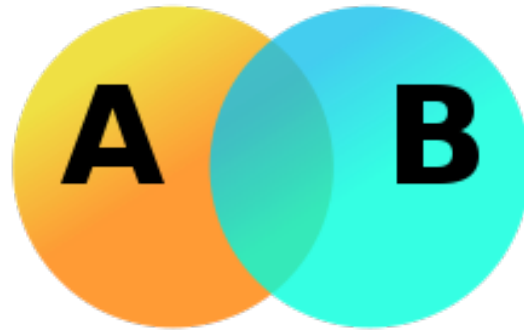


Gene List Venn Diagram

Habtom Kahsay Gidey, Mohamed Ahmed, Chung Kin Shing

Overview

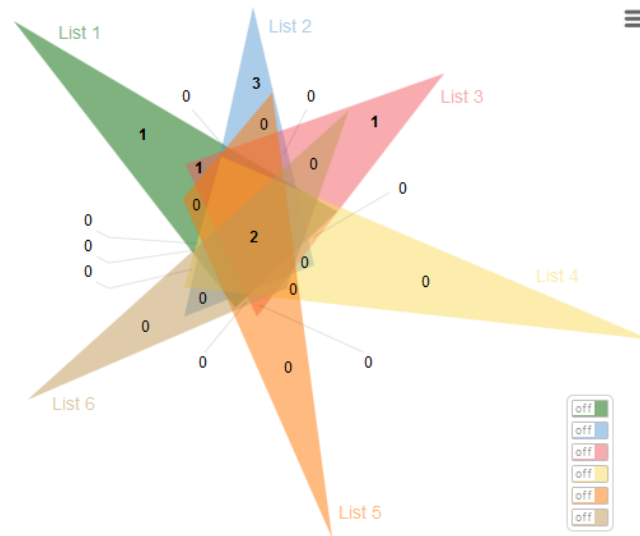
Venn Diagram visualize sets and the different intersection between them



.... gene list set comparisons and relations in between

Our Goal

Visualizing A Venn diagram up to six sets (Lists)



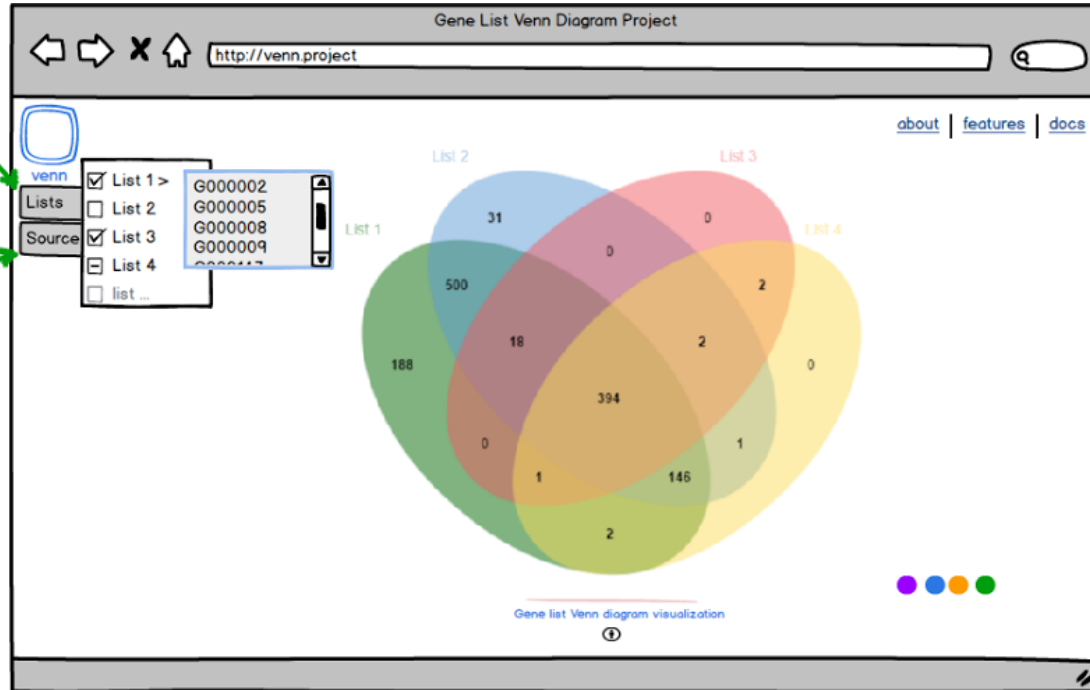
Our Goal

Enable users interested in gene list comparison and visualization with clear set of requirements possible.

User Experience

The Gene List data is entered on the form and interactively selected to reflect visualization

Data source can also be uploaded data source file (json,csv)



Legends, colour pickers, ...

Functionality

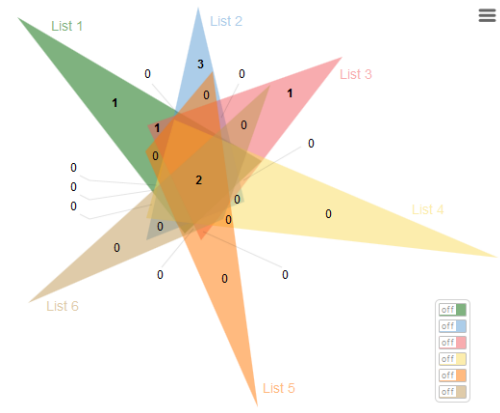
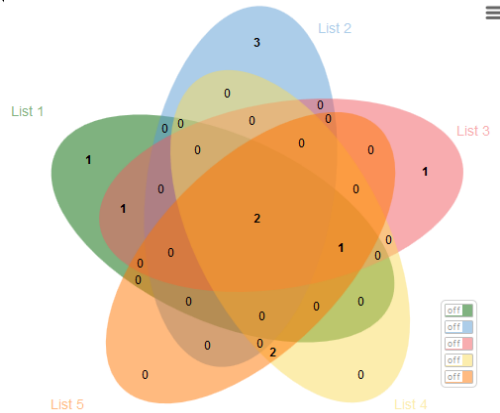
- Taking at most 6 lists of data.
- Calculating the area of intersection.
- Highlighting intersections.
- Save the output diagram as an image.

Features

- Taking input in different formats.
- Customizing colors.
- Having a legend for every list.
- Can show bar chart as a support.

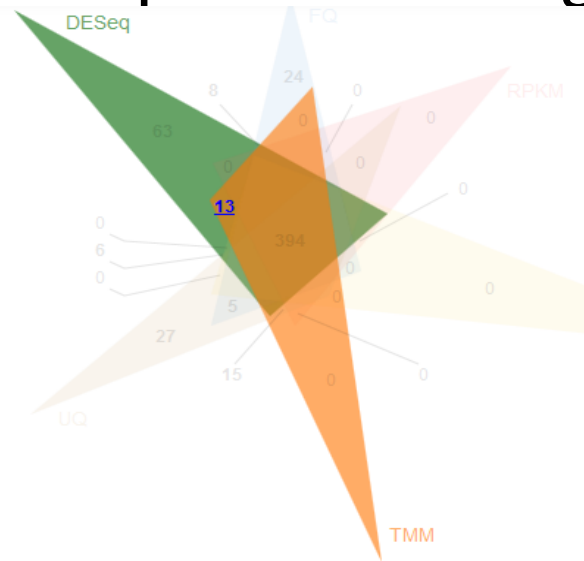
Expected difficulties

- Adapting circles for the lists size and composition



Expected difficulties

- Calculation of intersections.
- Highlighting intersected shapes according to the user cursor position.



Libraries and Inputs

Currently we are going to use d3.



Input consists of up to 6 lists containing items.
Lists can be empty or filled according to the input items

Thank you!

Structure

