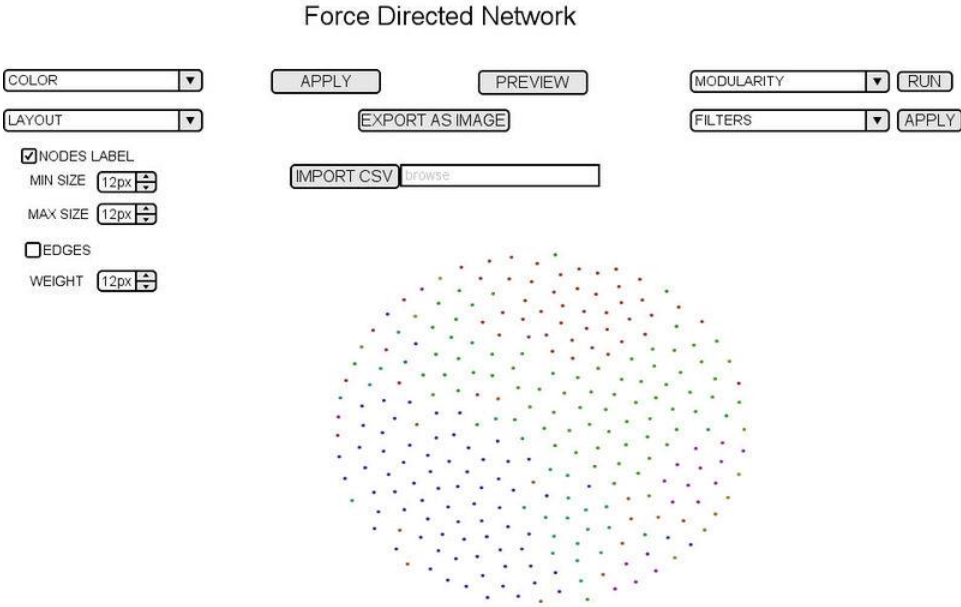


FORCE DIRECTED NETWORK (SPRING ALGORITHM) GRAPH VIEWER

Introduction

Force Directed Network is obtained by using the Force-directed graph drawing algorithms (SPRING ALGORITHM). This algorithm is mainly based on the forces assigned among the set of nodes and edges of a graph. The forces can be either attractive which is used to attract pairs of endpoints of the graph's edges towards each other or repulsive which is used to separate all pairs of nodes. In equilibrium states for this system of forces, the edges tend to have uniform length (using spring forces) and the nodes which are not connected by any edge tend to be drawn further apart (due to electrical repulsion).

Mockups



Force Directed Network

COLOR

LAYOUT

NODES LABEL

MIN SIZE

MAX SIZE

EDGES

WEIGHT

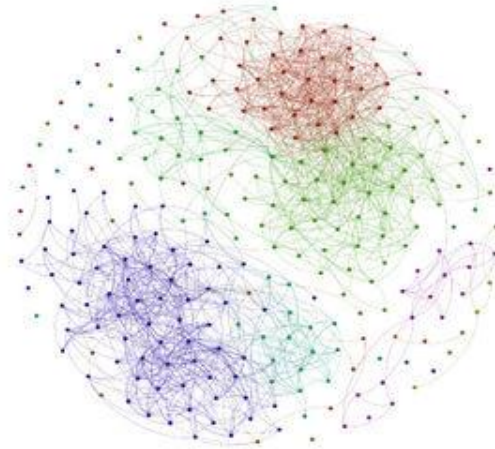
APPLY PREVIEW

EXPORT AS IMAGE

IMPORT CSV

MODULARITY RUN

FILTERS APPLY



Force Directed Network

COLOR

LAYOUT

NODES LABEL

MIN SIZE

MAX SIZE

EDGES

WEIGHT

APPLY PREVIEW

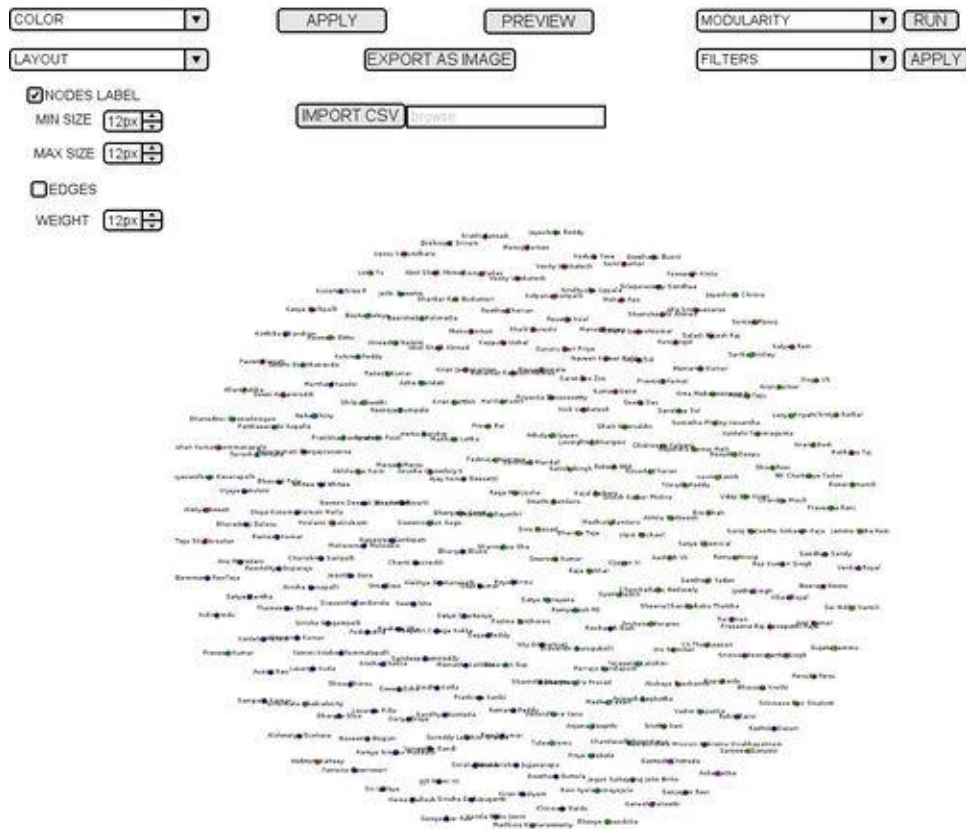
EXPORT AS IMAGE

MODULARITY RUN

FILTERS APPLY



Force Directed Network



Functionalitz

- Zoom in and Zoom out of the graph.
- Distance of a node from the rest of the network is determined by the number of nodes it is connected to.
- Selection by the number of neighbors
- Coloring by various thresholds
- Dividing the whole network into module based on the modularity.
- Applying filters.
- Defining the layout of your choice.
- Exporting the visualisation as an image.

Features

- Import from Text format

- Export to image
- Users should be able to change the layout of the view of the graph

Application Design

Fancy Libraries

- d3.js
- jQuery
- JavaScript InfoVis Toolkit

DATA

The input data should be in json/csv format

ROADMAP

