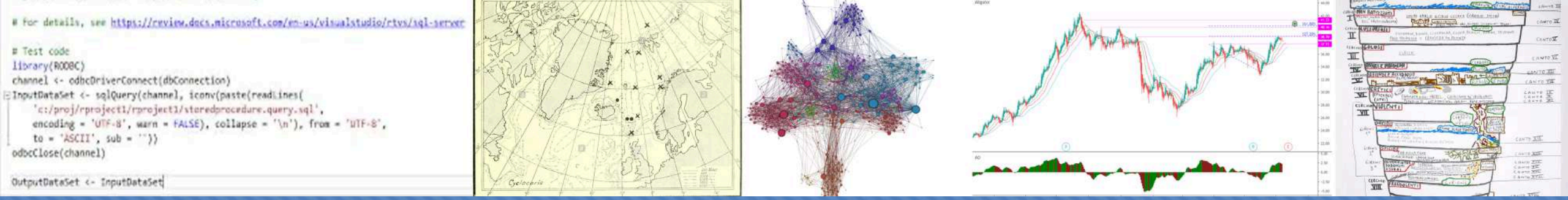

Inkscape

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Raster vs Vector

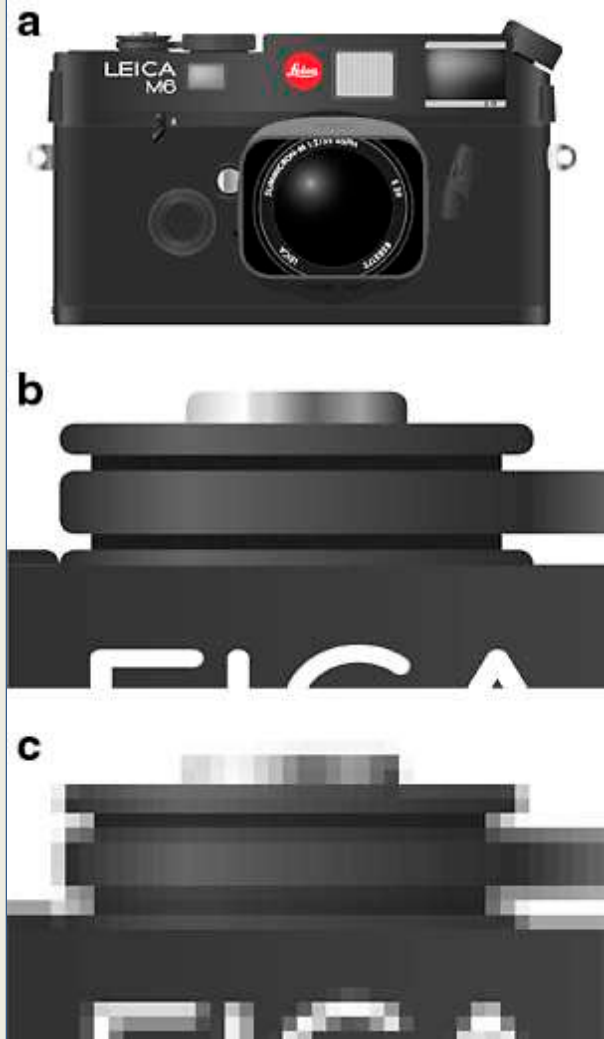
Vector graphics are computer graphics images that are defined in terms of 2D points, which are connected by lines and curves to form polygons and other shapes.[1] Each of these points has a definite position on the x- and y-axis of the work plane and determines the direction of the path; further, each path may have various properties including values for stroke color, shape, curve, thickness, and fill.[2][3] Vector graphics are commonly found today in the SVG, EPS, PDF or AI graphic file formats and are intrinsically different from the more common raster graphics file formats such as JPEG, PNG, APNG, GIF, and MPEG4.

Comparison between a raster image and an enlarged vector.

(a) original image

(b) 8x magnified vector image

(c) 8x magnified raster image



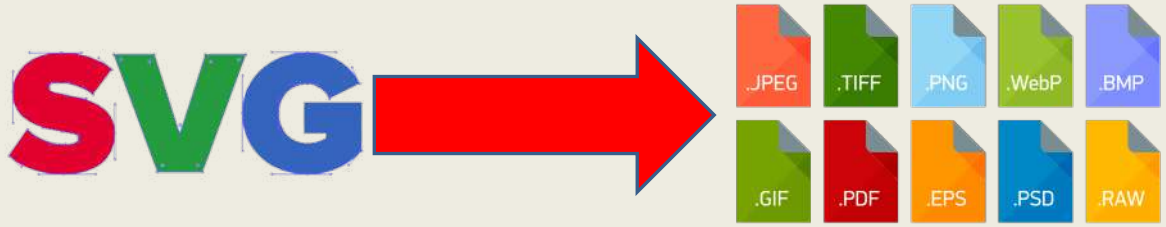
SVG - Scalable Vector Graphics

Scalable Vector Graphics (SVG) is an XML-based vector image format for two-dimensional graphics with support for interactivity and animation. The SVG specification is an open standard developed by the World Wide Web Consortium (W3C) since 1999.

SVG images and their behaviors are defined in XML text files. This means that they can be searched, indexed, scripted, and compressed. As XML files, SVG images can be created and edited with any text editor, as well as with drawing software.

All major modern web browsers—including Mozilla Firefox, Internet Explorer, Google Chrome, Opera, Safari, and Microsoft Edge—have SVG rendering support.

https://www.youtube.com/watch?v=hA7ESX7FsE4

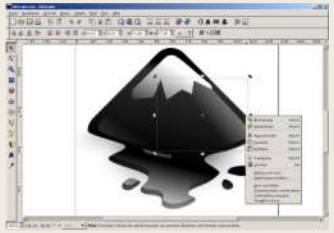


Inkscape

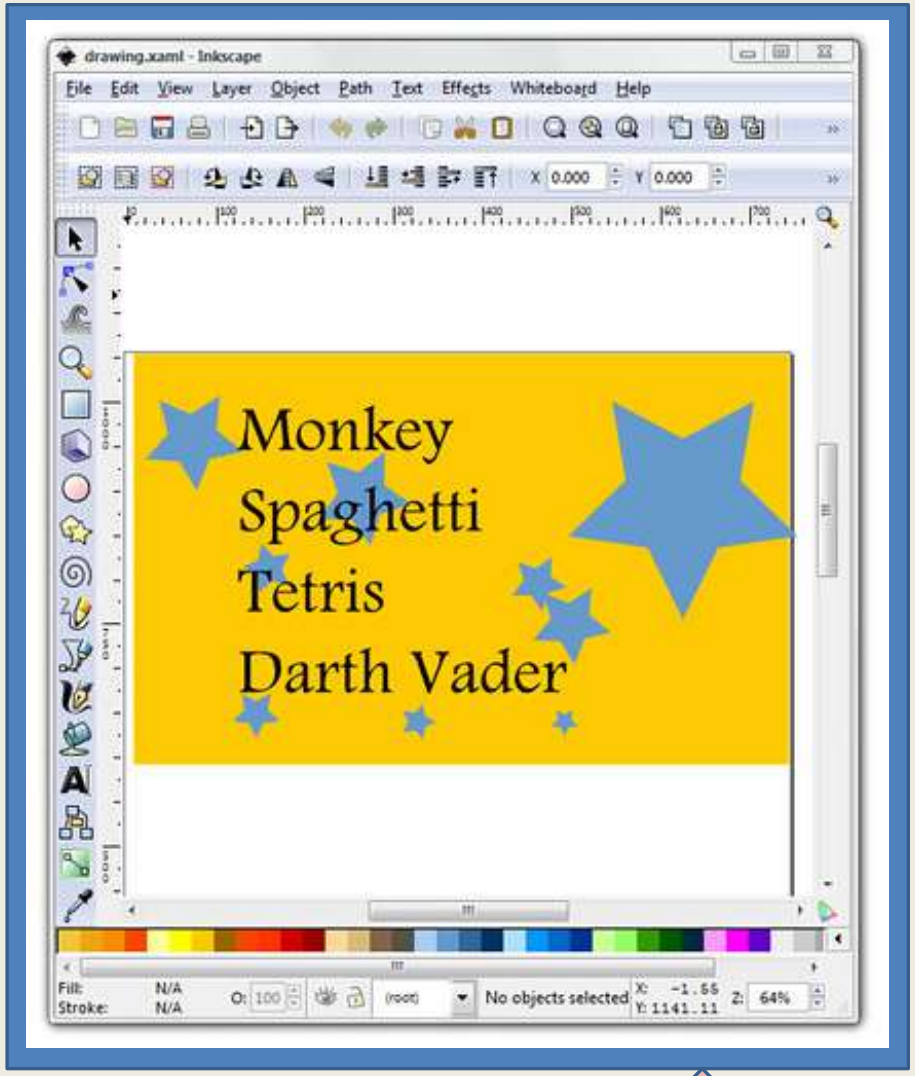
Inkscape is a free and open-source vector graphics editor. This software can be used to create or edit vector graphics such as illustrations, diagrams, line arts, charts, logos and complex paintings. Inkscape's primary vector graphics format is Scalable Vector Graphics (SVG); however, many other formats can be imported and exported.

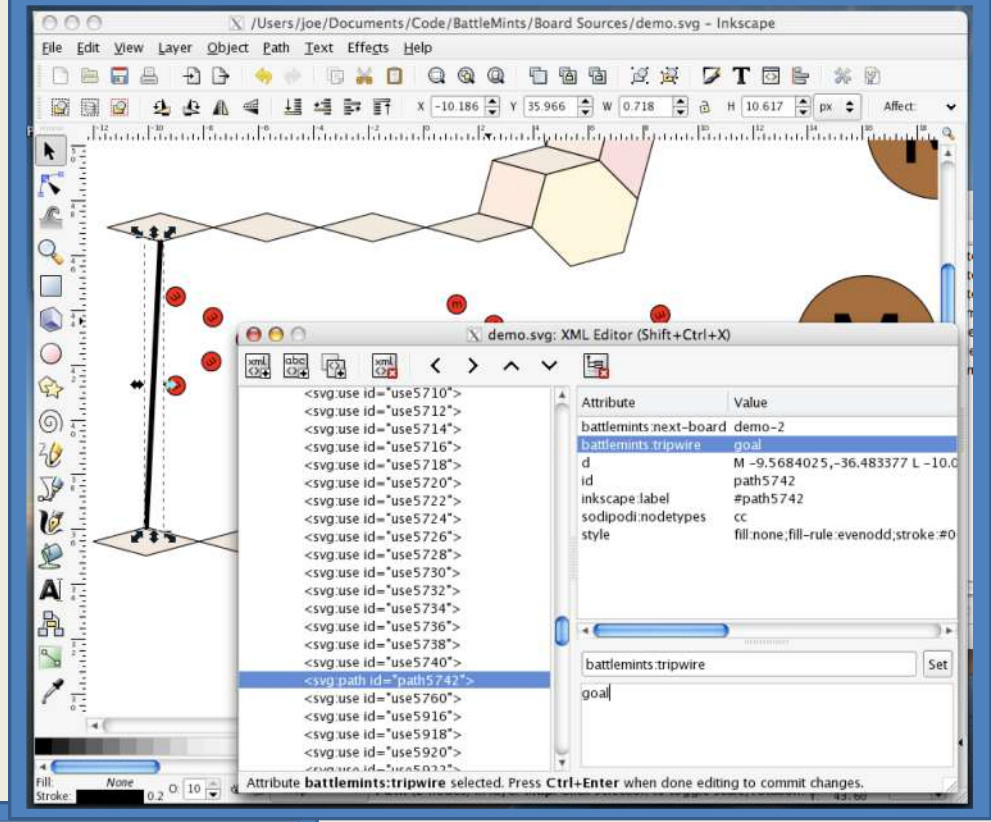
Source: https://en.wikipedia.org/wiki/Inkscape

TJ is a Youtuber who has created a YouTube channel on opesource softwares. In his channel there is a very clear Inkscape Tutorials.

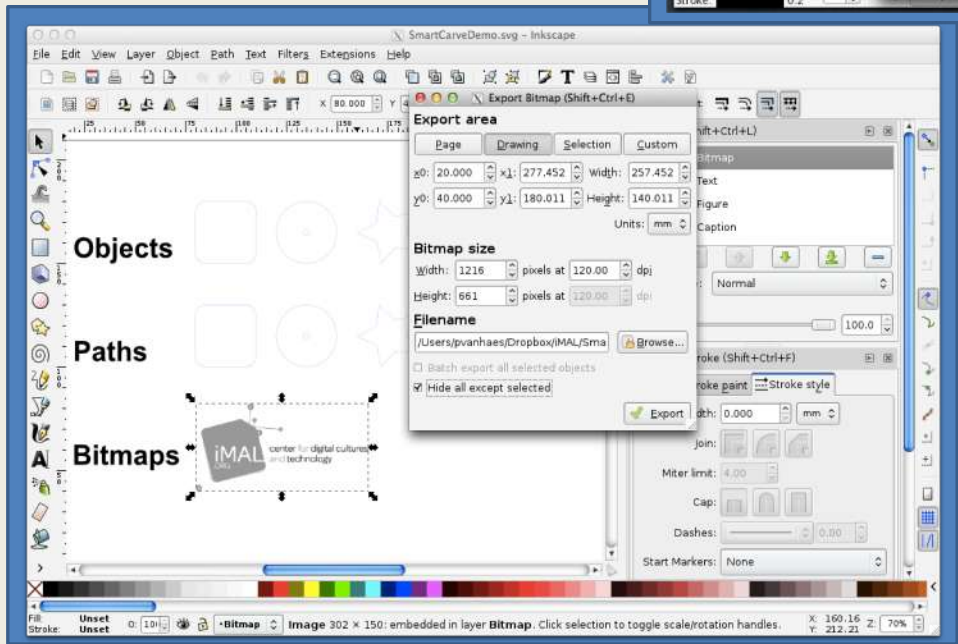


To edit graphically or by code



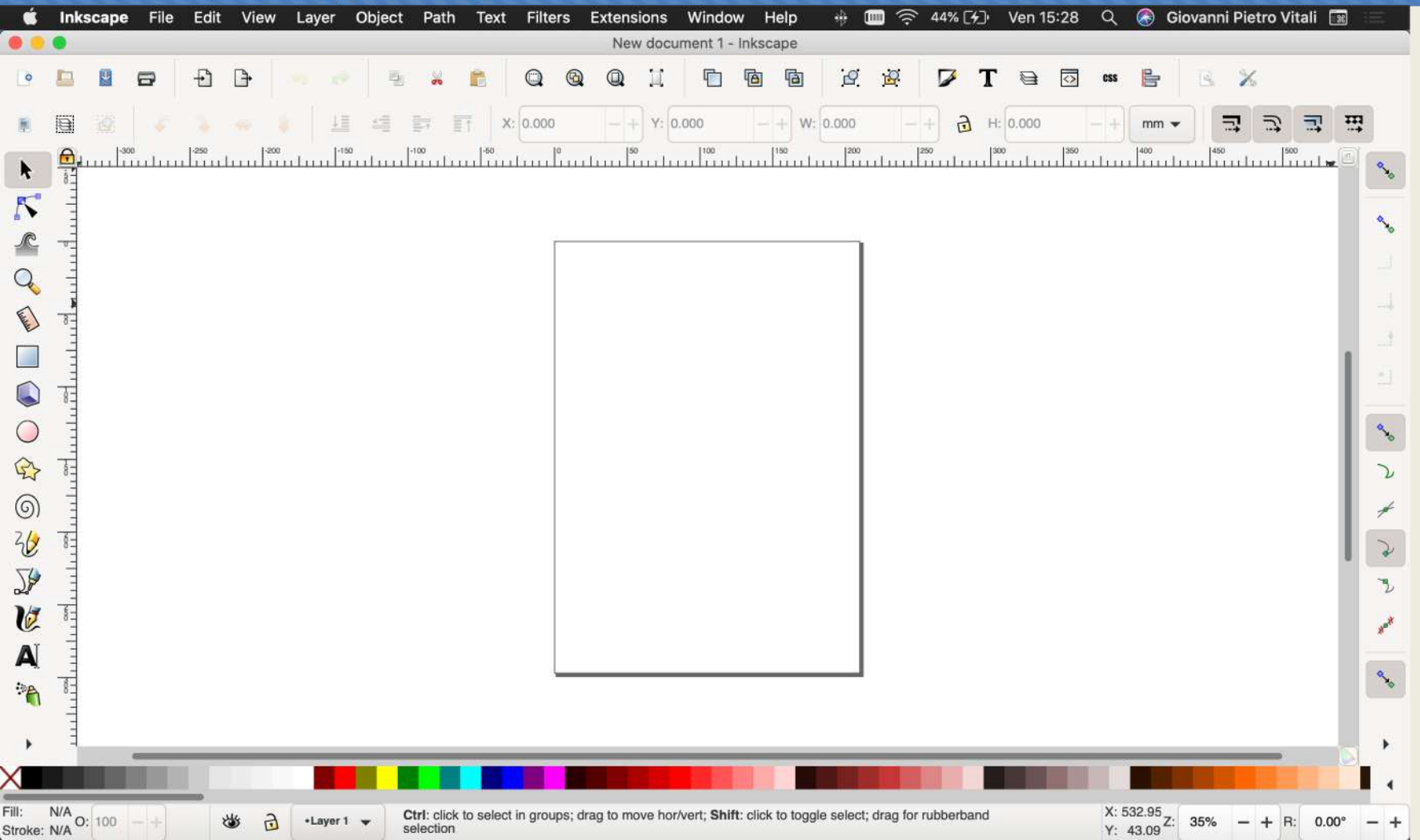


To draw



To export in the most suitable format

Let's take an example

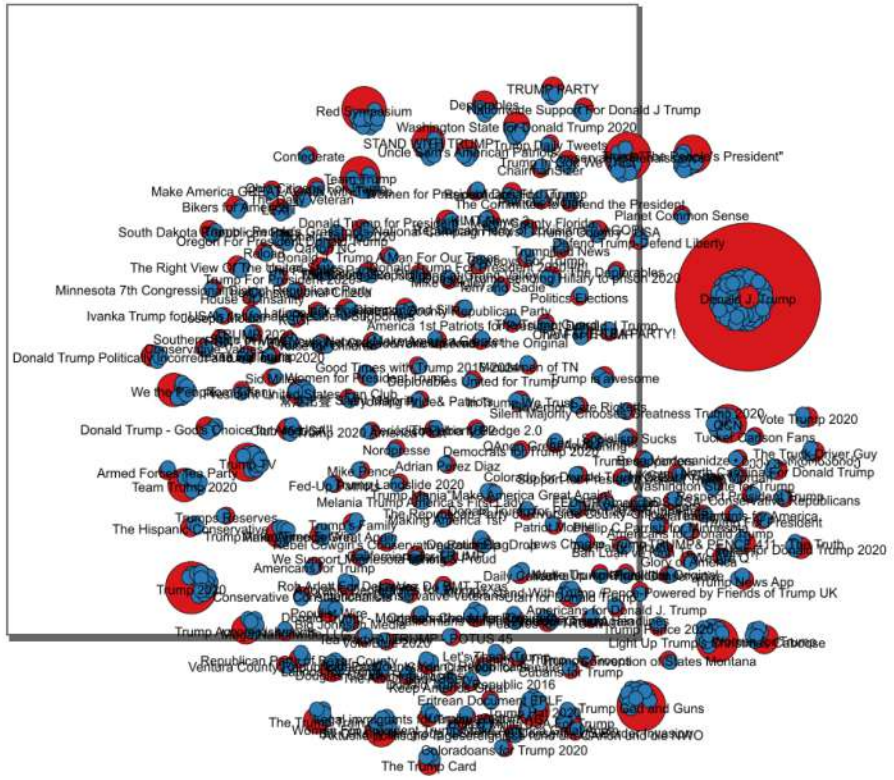


Inkscape looks like a traditional graphic editor. You can draw projects from scratch or edit SVG images. In the case of Digital Humanities tools often, almost always, you can download the svg version and customize it through inkscape.

- On the left are the tools for direct interaction with the drawing.
- At the top a contextual menu with the options to edit the document
- On the right is the vector tools menu.

Most of the Digital Humanities instruments export to svg but there are always some talking problems.

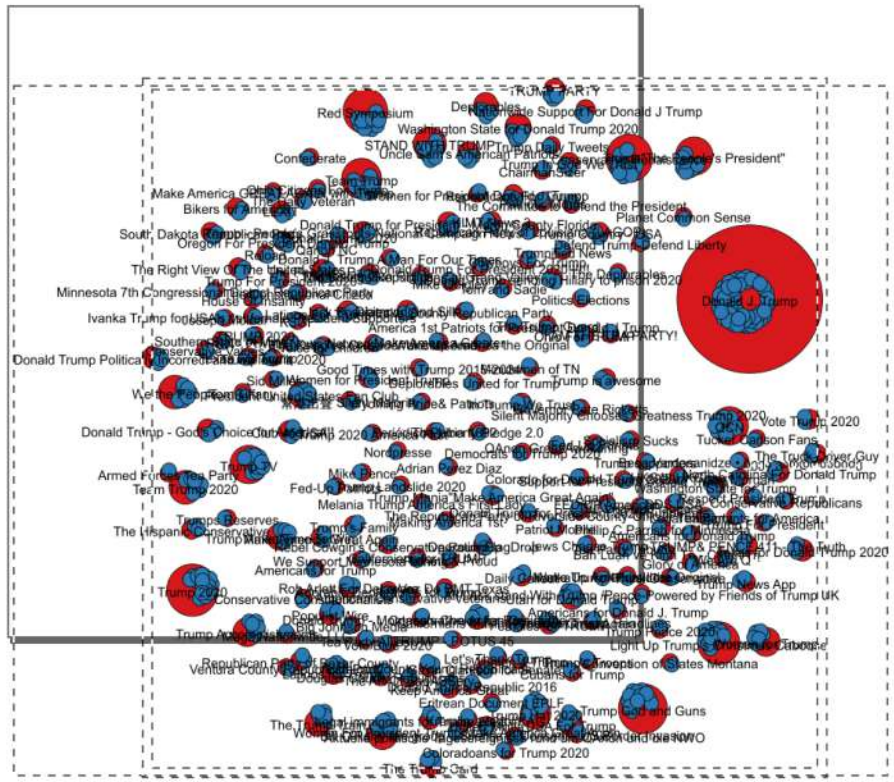
As in this case the drawings are outside the working area.



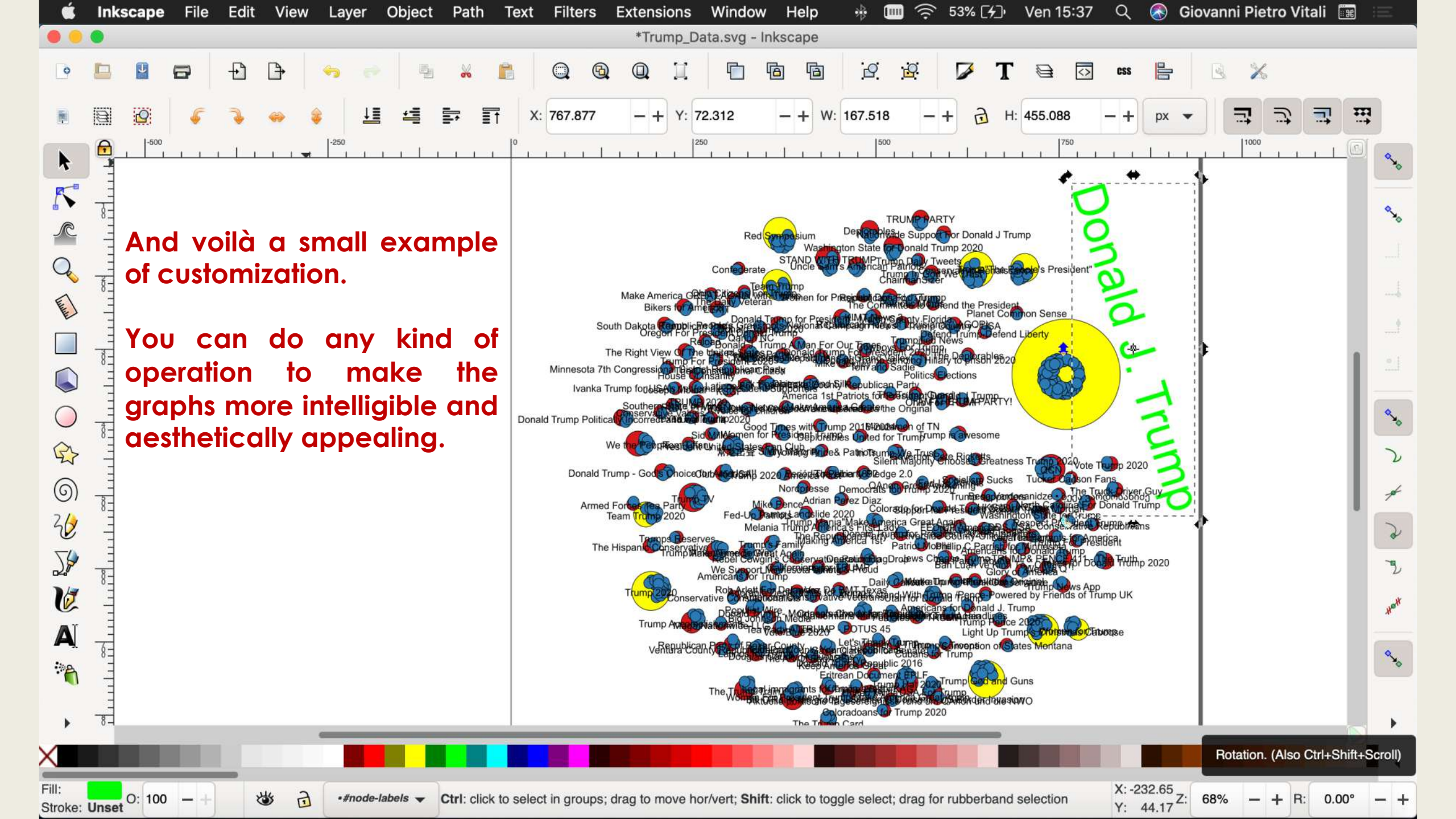
Before doing any operation it is necessary to frame the image of the space and then play with the colors.

All actions of this type can be managed with the arrow keys (the first two) of the tools menu.

The traditional arrow with a double click activates the transformation and with three clicks the rotation.

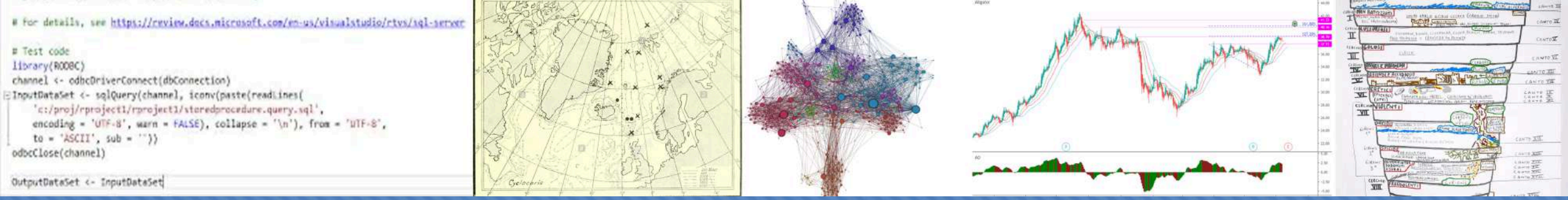


Fill: m Unset
Stroke: m Unset
O: 100
(root)
Shift: drag to add nodes to the selection
X: 1580.77
Y: 1278.19
Z: 35%
R: 0.00°



And voilà a small example of customization.

You can do any kind of operation to make the graphs more intelligible and aesthetically appealing.



Inkscape _end

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