

Using filters

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Download a network file for this tutorial

[download this zip file](#) and unzip it on your computer.

You should find the file `miserables.gexf` in it.

Save it in a folder you will remember (or create a folder specially for this small project).

This file contains a network representing "who appears next to whom" in the 19th century novel *Les Misérables* by Victor Hugo [1: D. E. Knuth, The Stanford GraphBase: A Platform for Combinatorial Computing, Addison-Wesley, Reading, MA (1993)].

A link between characters A and B means they appeared on the same page or paragraph in the novel.

The file name ends with ".gexf", which just means this is a text file where the network information is stored (name of the characters, their relations, etc.), following some conventions.

open the network in Gephi

- open Gephi. On the Welcome screen that appears, click on `Open Graph File`
- find `miserables.gexf` on your computer and open it

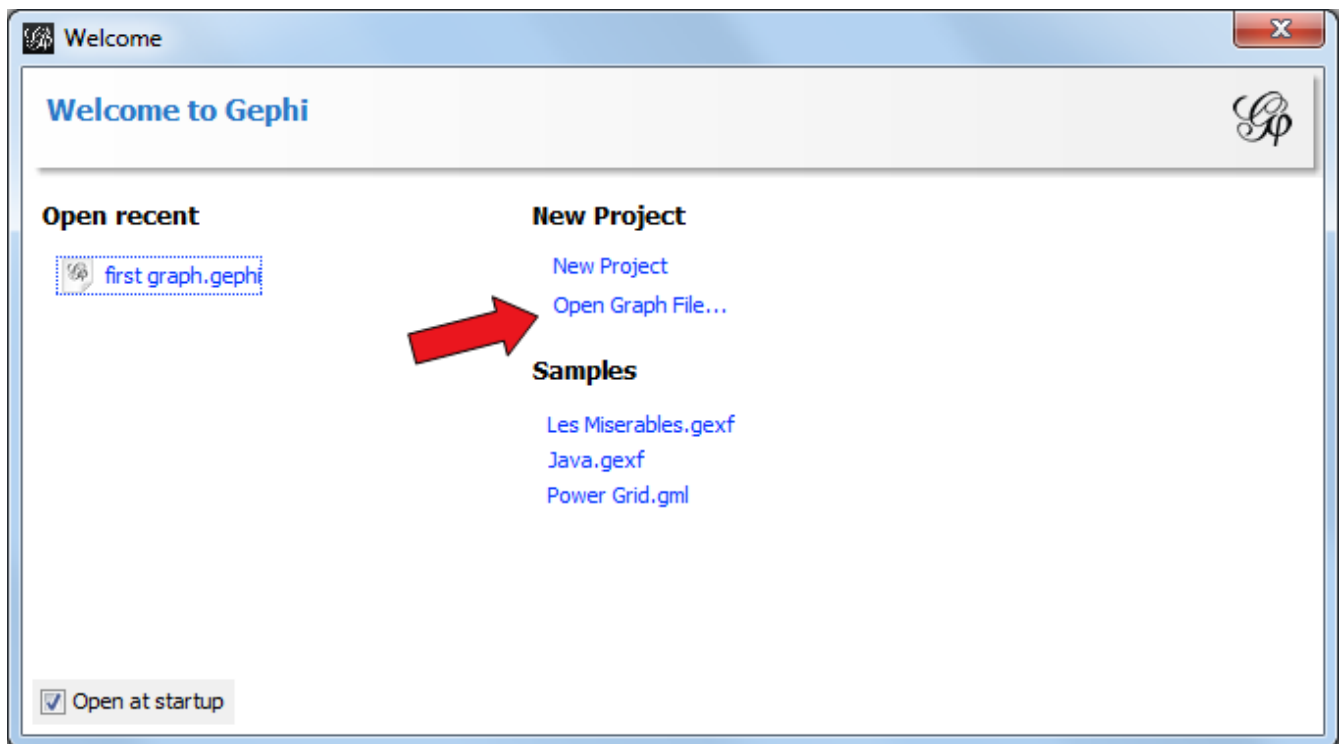


Figure 1. welcome screen

read the report after opening a file

A report window will open, giving you basic info on the network you opened:

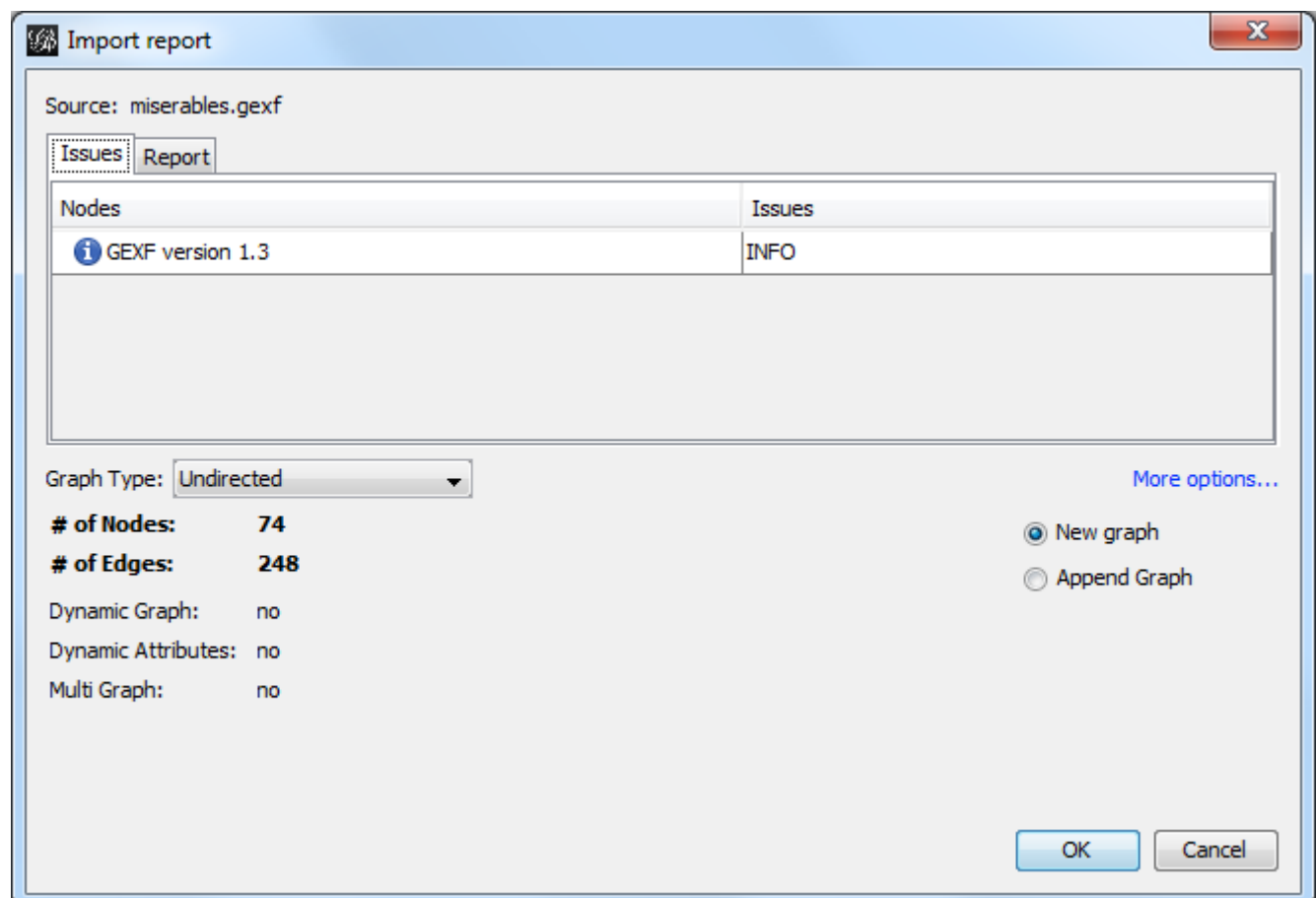


Figure 2. report window

This tells you that the network comprises 74 characters, connected by 248 links.

Links are undirected, meaning that if A is connected to B, then it is the same as B connected to A.

The report also tells us the graph is not dynamic: it means there is no evolution or chronology, it won't "move in time".

Click on **OK** to see the graph in Gephi.

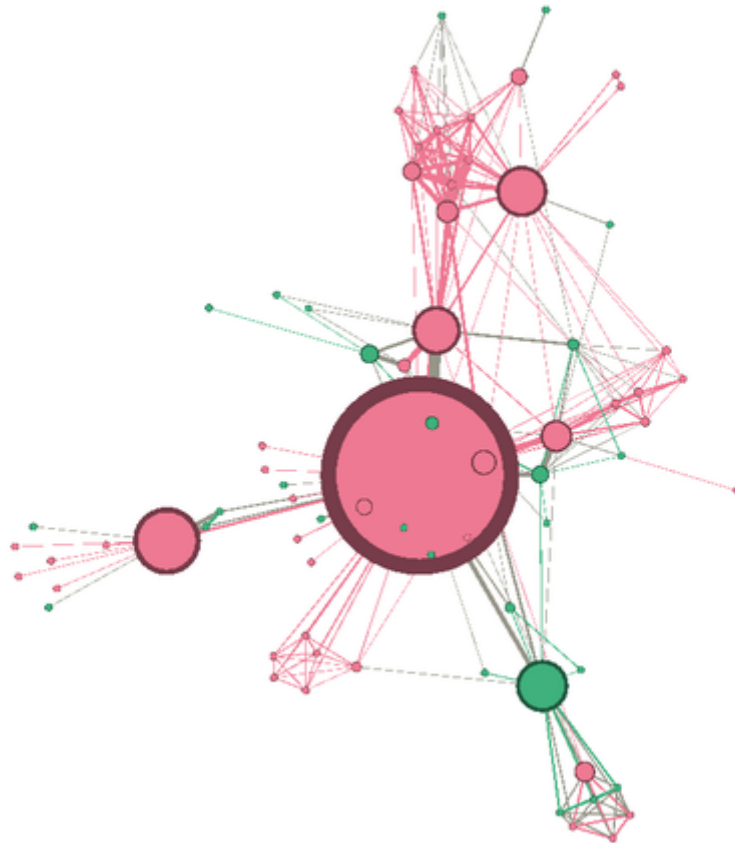


Figure 3. The network we will use in this tutorial

We can switch to the data laboratory to see the underlying data:

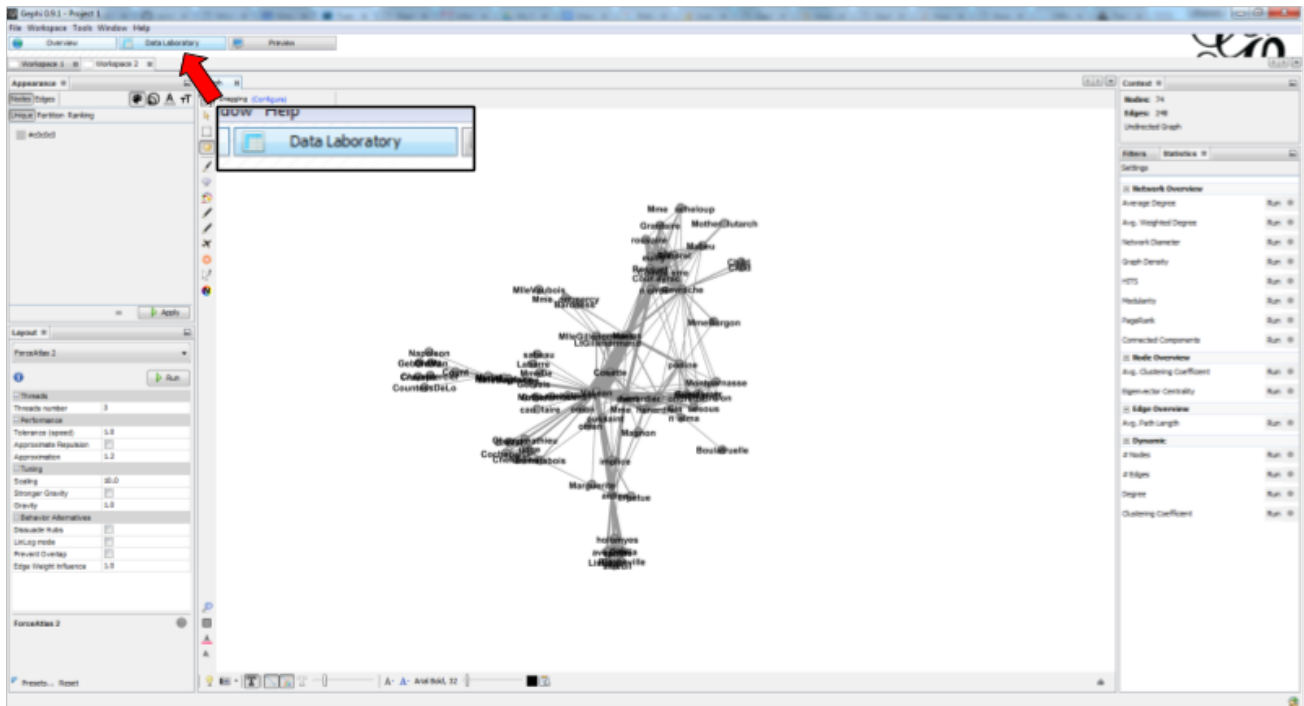


Figure 4. Switching the view to the data laboratory

We see that the nodes of the network have many attributes. In particular, each have a Gender and a measure of how central they are:

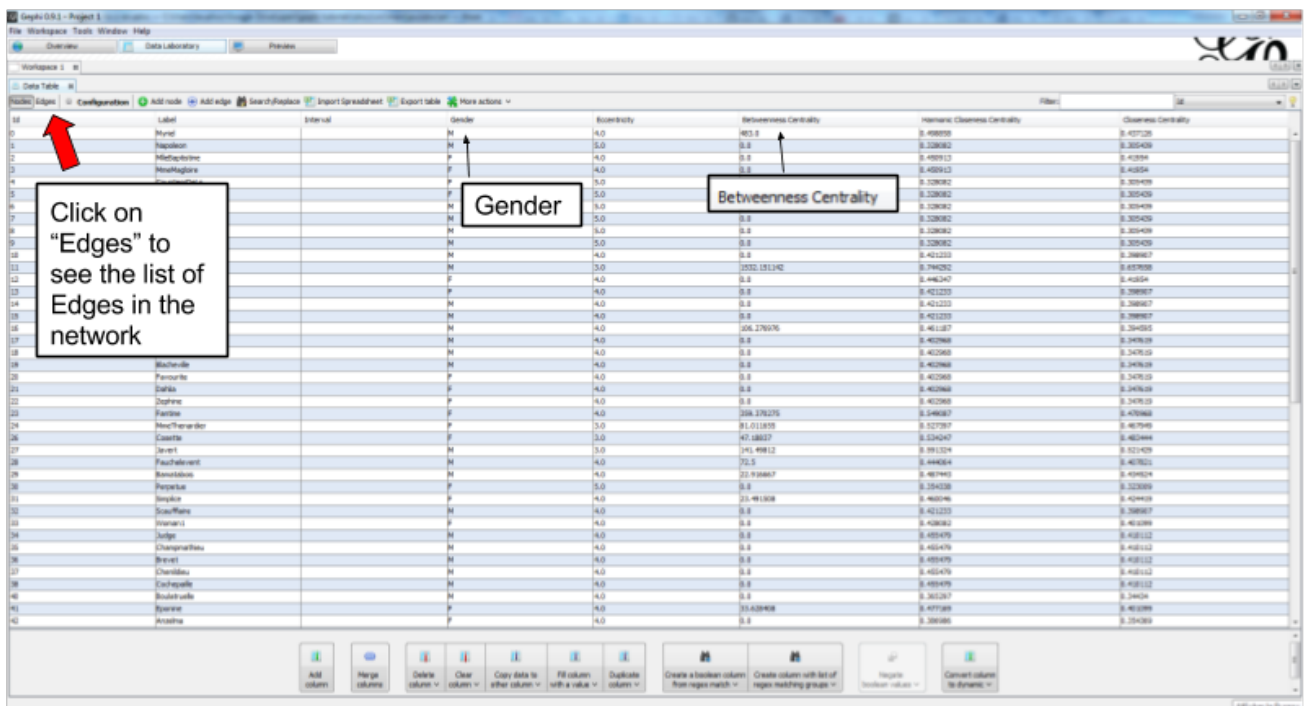


Figure 5. Nodes attributes.

This is the list of edges (relations) in the network. Notice that they have a "weight" (a "strength").

We can then go back to the "Overview" and start using Filters.

The "Weight" is a number representing how many times the 2 characters are associated, in the novel "Les Miserables" by Victor Hugo.

Source	Target	Type	Weight
1 - Javert	2 - Harelquide	Undirected	1
2 - Harelquide	3 - Harelquide	Undirected	1
3 - Harelquide	4 - Harelquide	Undirected	1
4 - Harelquide	5 - Harelquide	Undirected	1
5 - Harelquide	6 - Harelquide	Undirected	1
6 - Harelquide	7 - Harelquide	Undirected	1
7 - Harelquide	8 - Harelquide	Undirected	1
8 - Harelquide	9 - Harelquide	Undirected	1
9 - Harelquide	10 - Harelquide	Undirected	1
10 - Harelquide	11 - Harelquide	Undirected	1
11 - Harelquide	12 - Harelquide	Undirected	1
12 - Harelquide	13 - Harelquide	Undirected	1
13 - Harelquide	14 - Harelquide	Undirected	1
14 - Harelquide	15 - Harelquide	Undirected	1
15 - Harelquide	16 - Harelquide	Undirected	1
16 - Harelquide	17 - Harelquide	Undirected	1
17 - Harelquide	18 - Harelquide	Undirected	1
18 - Harelquide	19 - Harelquide	Undirected	1
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22 - Harelquide	23 - Harelquide	Undirected	1
23 - Harelquide	24 - Harelquide	Undirected	1
24 - Harelquide	25 - Harelquide	Undirected	1
25 - Harelquide	26 - Harelquide	Undirected	1
26 - Harelquide	27 - Harelquide	Undirected	1
27 - Harelquide	28 - Harelquide	Undirected	1
28 - Harelquide	29 - Harelquide	Undirected	1
29 - Harelquide	30 - Harelquide	Undirected	1
30 - Harelquide	31 - Harelquide	Undirected	1
31 - Harelquide	32 - Harelquide	Undirected	1
32 - Harelquide	33 - Harelquide	Undirected	1
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97 - Harelquide	98 - Harelquide	Undirected	1
98 - Harelquide	99 - Harelquide	Undirected	1
99 - Harelquide	100 - Harelquide	Undirected	1

Figure 6. Edges attributes

In the overview, make sure the Filter panel is displayed:

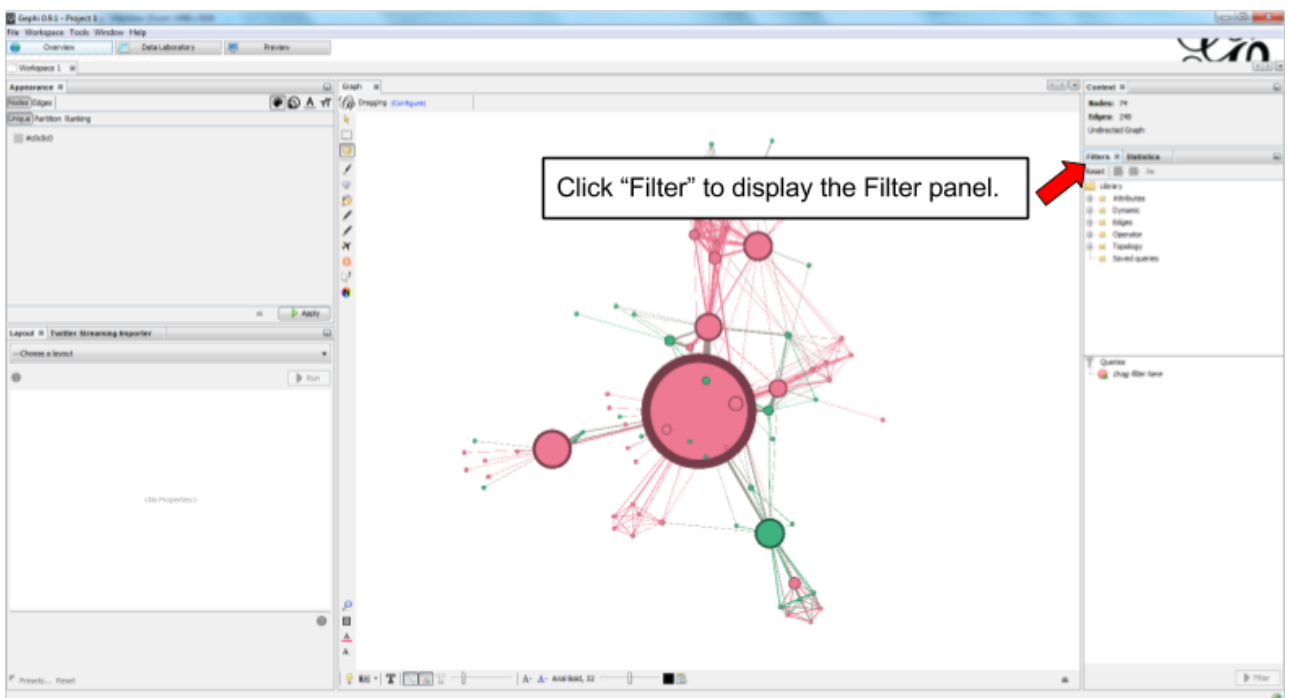


Figure 7. Making the Filter panel visible.

(to be continued)

More tutorials on importing data to Gephi

- [Video on using filters by Jen Golbeck](#)

the end

Visit [the Gephi group on Facebook](#) to get help,
or visit [the website for more tutorials](#)