Coloring communities in Gephi

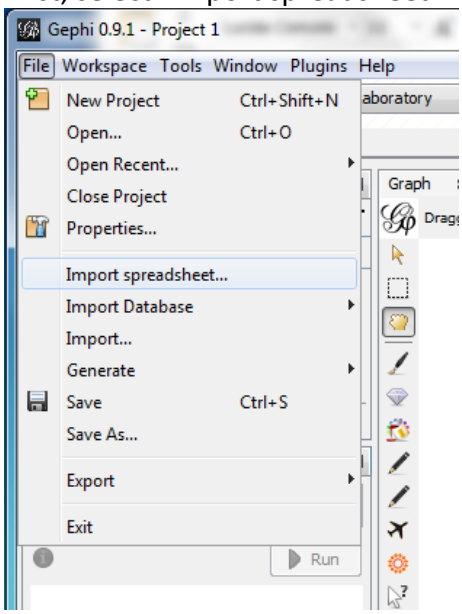
This tutorial shows you how you can color nodes in Gephi according to a communities file. Suppose you have the edges of your graph stored in a CSV (comma-delimited) file called G.csv, **with the following headers** (open the file with a text editor to make sure that there are no trailing spaces in the header strings),

	A	B
1	Source	Target
2	373	398
3	15	715
4	715	910
5	715	955
6	397	605
7	136	512

while the communities you discovered from your graph are in another CSV file called C.csv, **with the following headers**. (Open the file with a text editor to make sure that there are no trailing spaces in the header strings.)

	A	B
1	Id	Community
2	1	1
3	2	2
4	3	3
5	4	4
6	5	5
7	6	6
8	7	7
9	8	7

First, select “Import spreadsheet”.



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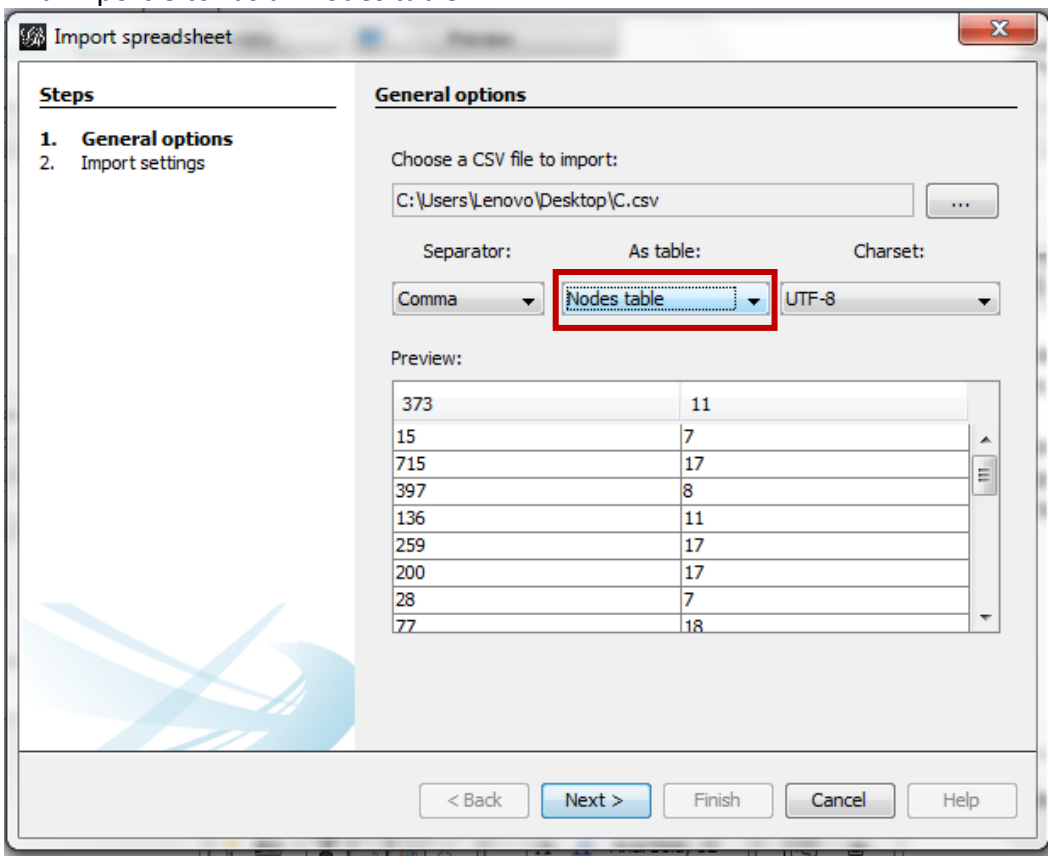
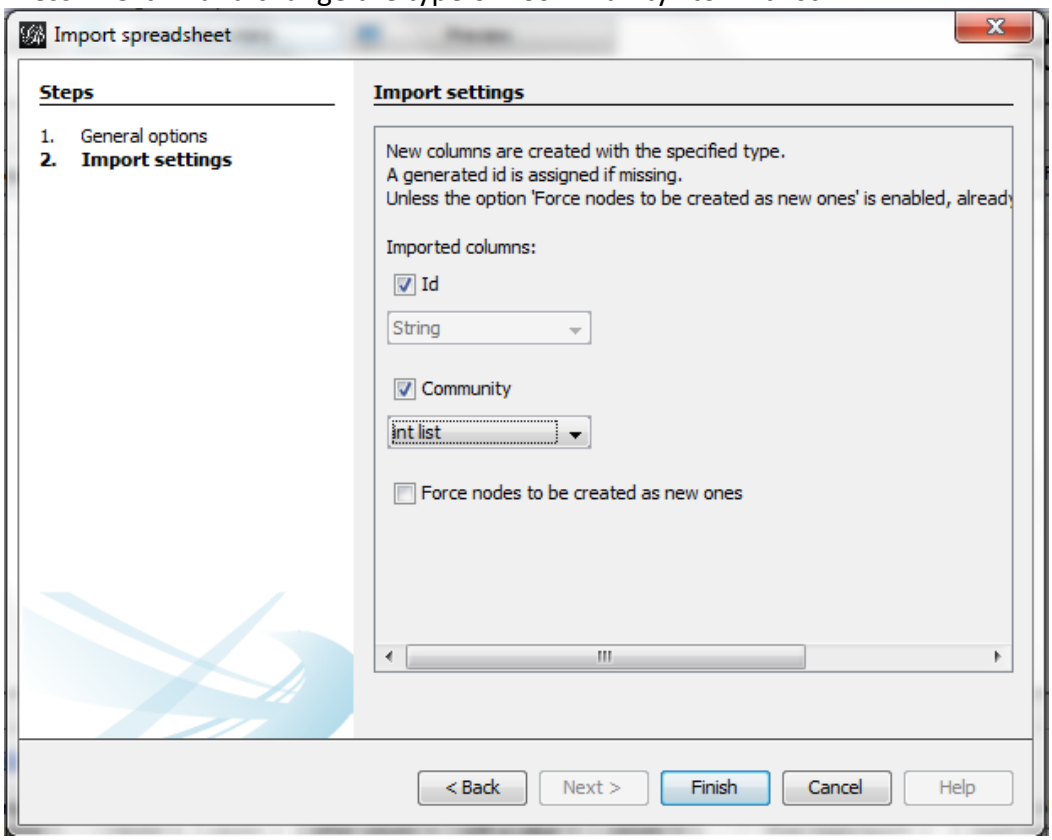
And import C.csv as a “Nodes table”.

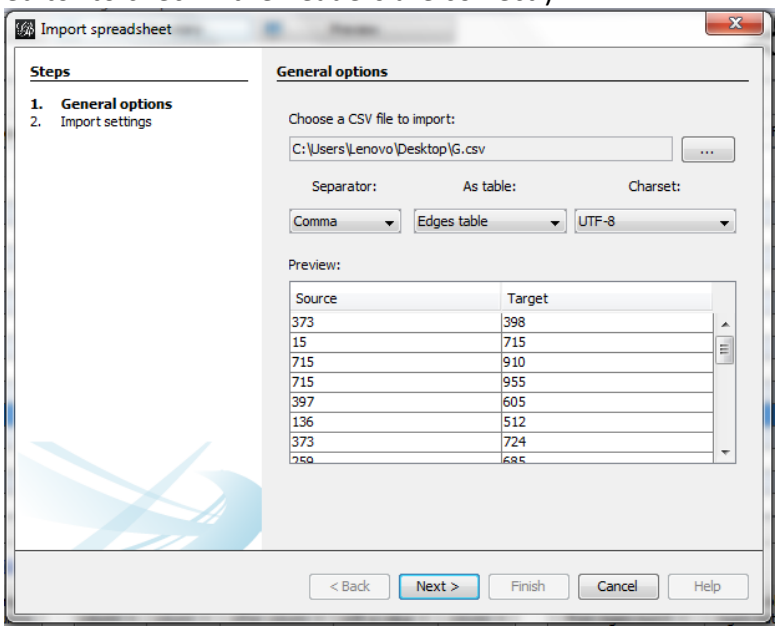


Press “Next >” and change the type of “Community” to “int list”.

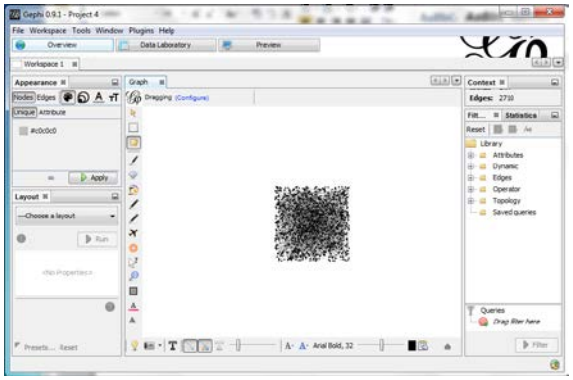


Press “Finish”. This would have loaded all the nodes of the network.

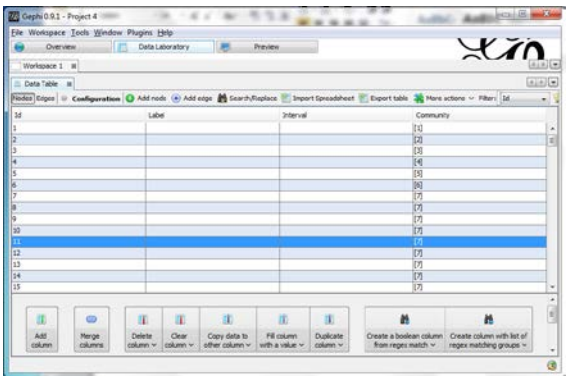
Now, import G.csv as an “edges table”. (If you see any error here, open G.csv with a text editor to check if the headers are correct.)



Gephi is now loaded with your graph. You can examine it in the “Overview” and the “Data Laboratory” tabs.



Overview



Data laboratory

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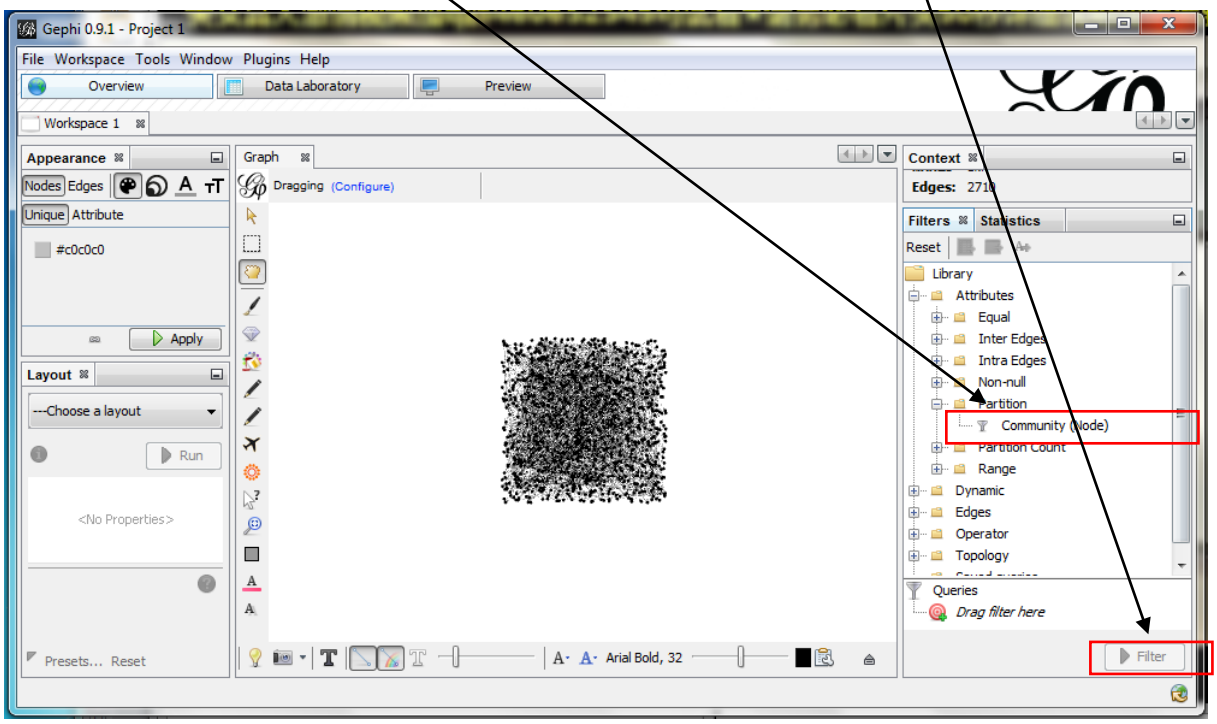
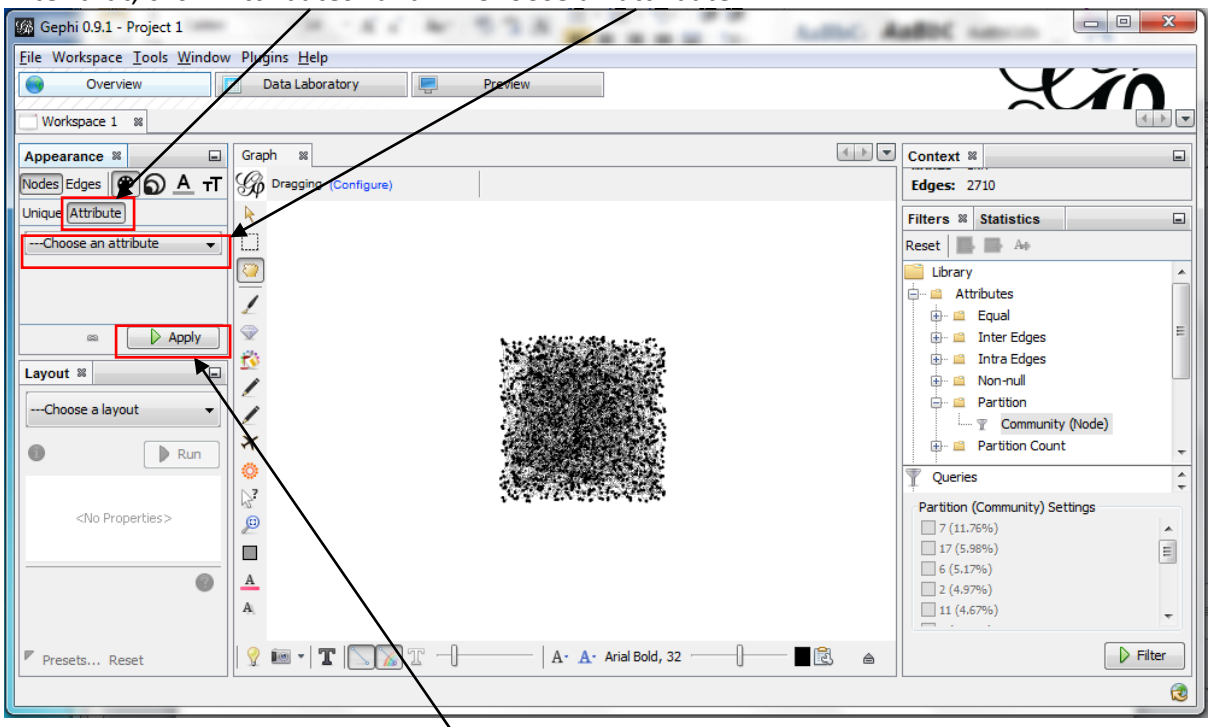
To color the nodes in Gephi according to C.csv, **double-click** "Partition/Community (Node)", and then click "Filter"



The filter button will change to "Stop". Click it again to make it change back to "Filter". After that, click "Attributes" and "—Choose an attribute".



Choose "Community" and press "Apply".

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Your nodes are now colored according to the community which they belong in. (Regrettably, they have no influence on the layout of the graph.)