

<https://gephi.org/users/download/>

For Gephi 0.9 install packages as soon as possible

Basic start:

To create a network first you need a consensus tree, or more specifically - a csv table thatv such analysis produces, one that we created would be sth like:

MyCorpus\_Consensus\_100-300\_MFWs\_Culled\_0\_\_Classic Delta\_C\_0.5\_EDGES.csv

1. **Data laboratory -> Import Spreadsheet -> Choose a csv file** - you don't need to change anything here, so just keep pressing next
2. On the bottom of the window select **Create column with list of regex matching groups -> ID**. Add **Title** of your choice, e.g. Author, in **Regular Expression** enter the regular expression limiting what content should be extracted from the ID name, e.g. to extract just the author: `^[A-Za-z]+`
3. Select **Copy data to other column -> Author** and select **Label**.
4. Go to **Overview**, in the menu Appearance on the left select **Nodes->Partition** and on the rolling list find the name you gave your column in step 2, e.g. Author, click on **Apply**. Nodes should now have some colors.
5. Below, on the left, in the **Layout** menu, choose **Force Atlas 2**:
  - a. My usual learnt settings so far are: **Scaling: 300**, **Dissuade Hubs** and **Prevent Overlap - on**, sometimes, if the nodes are very far / you want to force gephi to make one network instead of a few, it makes sense to switch on **Stronger Gravity**.
  - b. In the **graph** field you can change some display settings, it's a good idea to add IDs to nodes - in the bottom line select **Show Node Labels** (3rd from the left) and in **Attributes** (first from the right) ID rather than Label.
  - c. Select **run**, stop it when the network doesn't seem to change much anymore.
6. In the **Layout** menu, choose **Label Adjust**, run it once.
7. in the **Layout** menu, choose **Expansion**, run it once or a few times to stretch the graph and make it more readable.
8. Go to **Preview**, in **Nodes** select **Show Labels**, in **Edges** make **Thickness** smaller, refresh the graph
9. To save the graph as a picture go to **File->Export->SVG/PNG/PDF file** and choose your option. Note that PDF gives you high quality and enables you to copy names from the picture, however it sometimes cuts the graph, so go to **Options** and give it bigger **margins** - e.g. = 1 and preferably, choose **landscape** orientation.
10. To save the graph with its settings go to **File->Save as** and in the rolling list **Files of Type** choose Gephi Files rather than All Files - note, it likes to crash between different computers otherwise.

**Modularity:**

In **Overview**, go to right menu and select **Statistics -> Network Overview -> Modularity**

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<https://gephi.org/tutorials/gephi-tutorial-layouts.pdf> <-more information on layouts, I found that useful