

Twitter Streaming Importer

Clément Levallois

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Description of the plugin

This plugin is created by [Matthieu Totet](#), who is a long time community member of Gephi (check his [Gephi Streamer!](#))

You can find additional documentation on this plugin on [Matthieu's website](#).

This plugin enables you to:

- Collect tweets in realtime, on the topic you choose
- Get the connections between the users mentionned in these tweets
- Visualize these connections in Gephi, or just export all the tweets to Excel

Installing the plugin



The setup of the plugin will need you to create a Twitter account, if you don't already have one. Get your Twitter login and password ready. **You also need a mobile phone number where your Twitter account can be confirmed.**



Setting up a Twitter account and creating a Twitter app is a boring task.

It takes just 15 minutes, and you have to do it just once. Then you'll have Twitter at your fingertips.

Let's go!

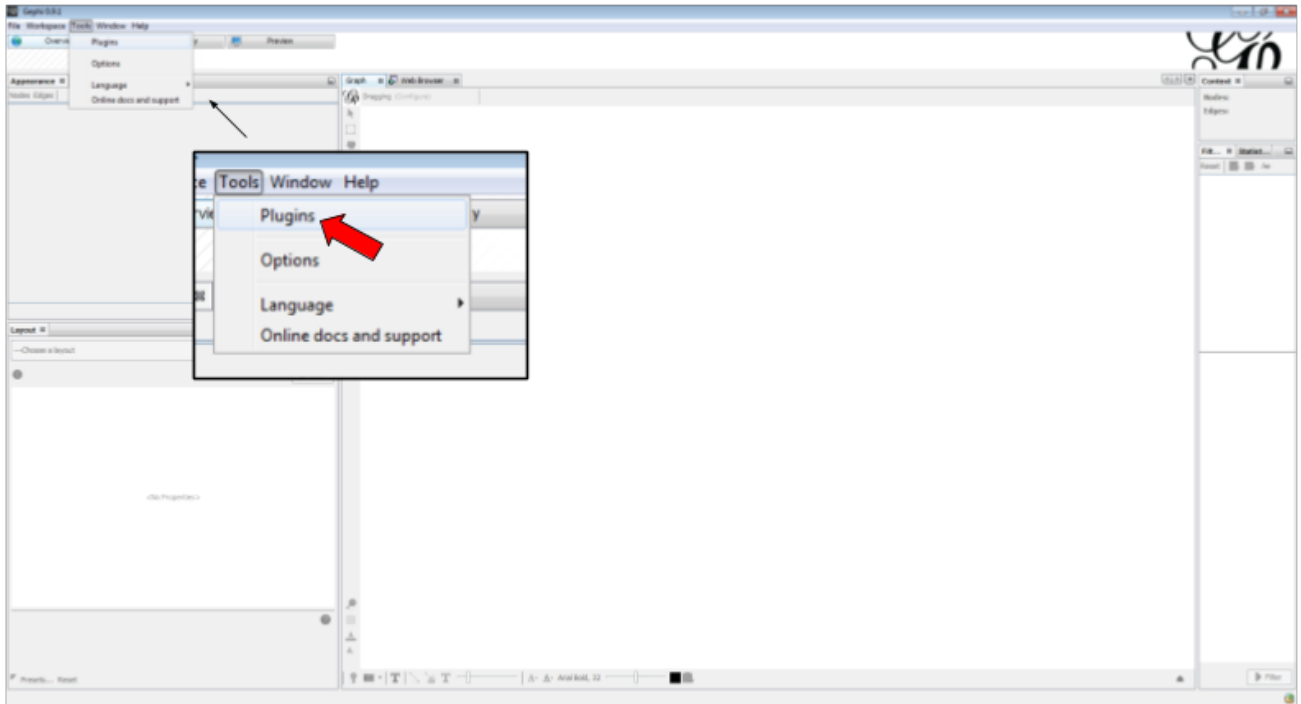


Figure 1. Choose the menu Tools then Plugins

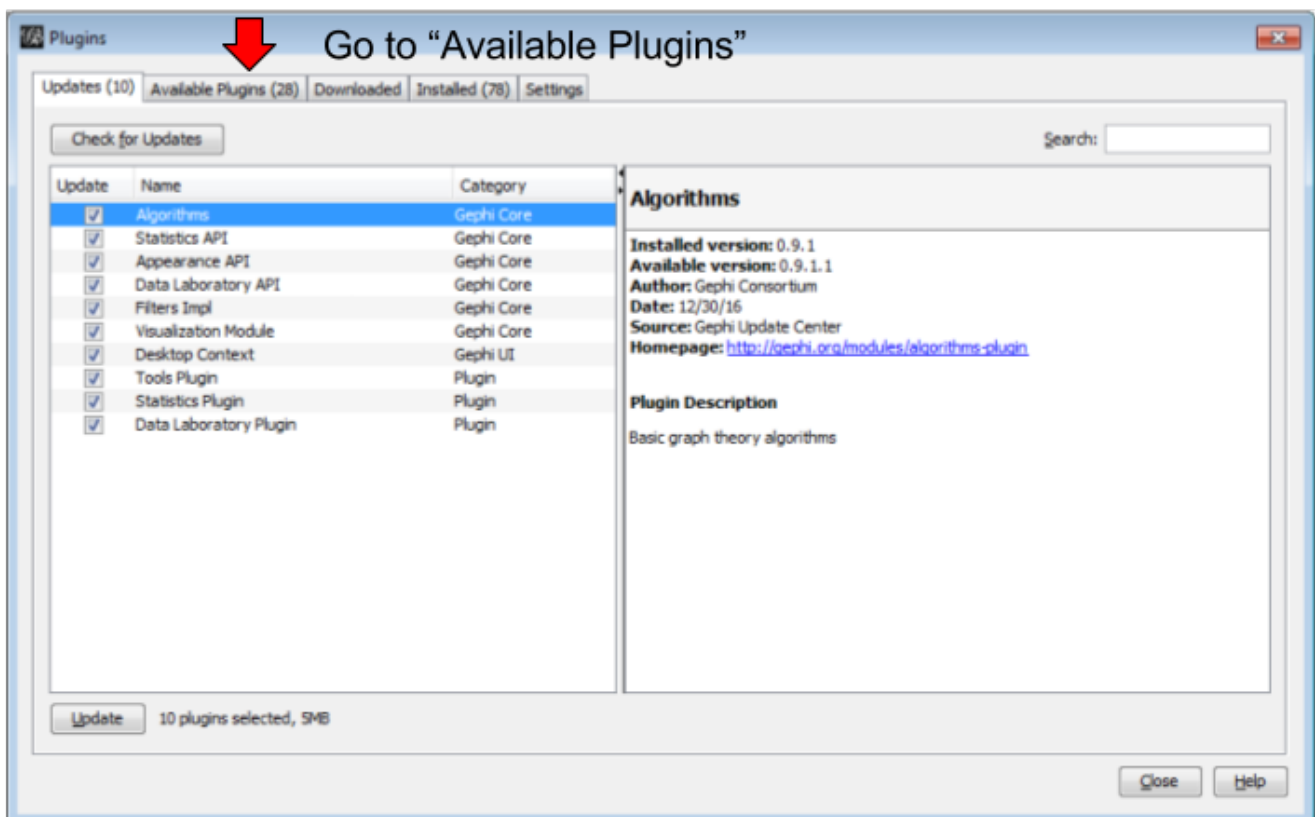


Figure 2. Click on the tab Available Plugins

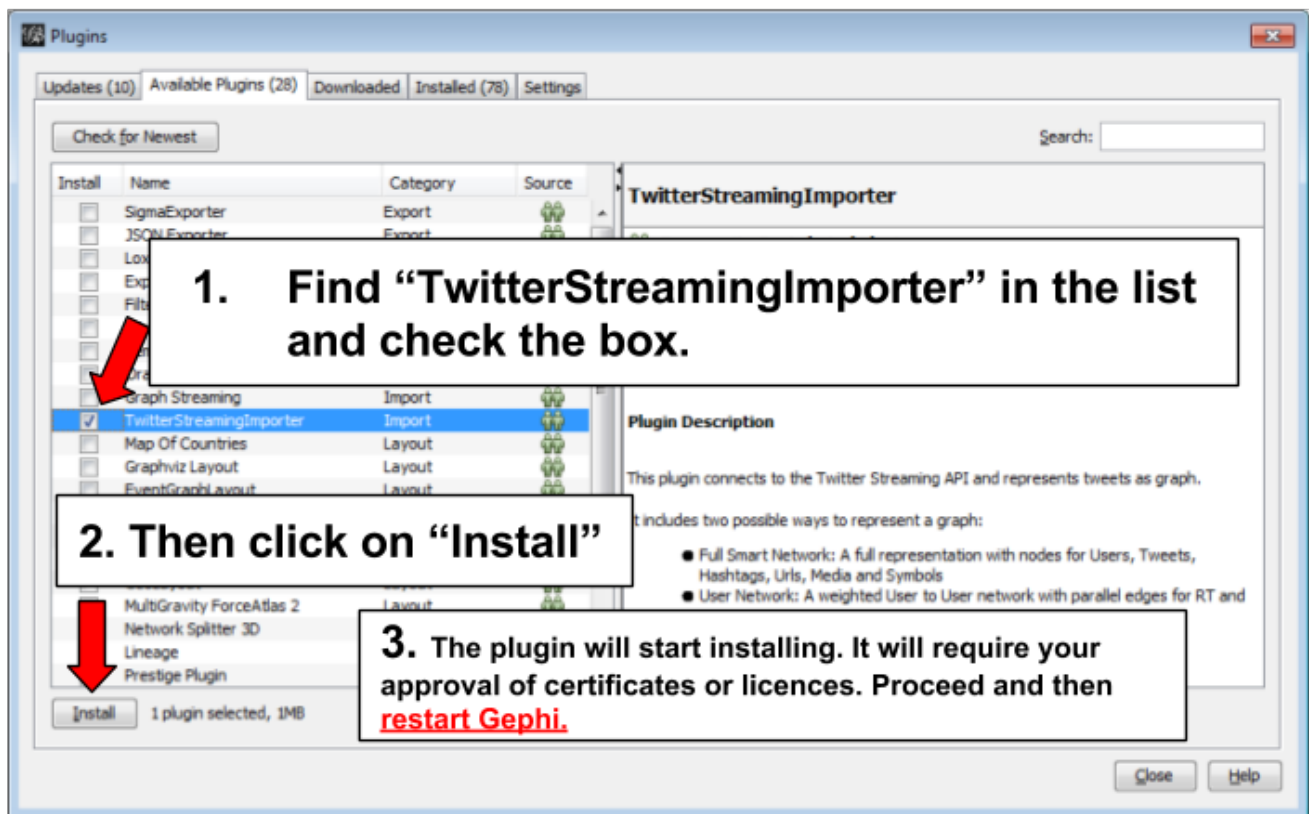


Figure 3. Install the plugin then restart Gephi

Initializing the plugin (to be done just once)

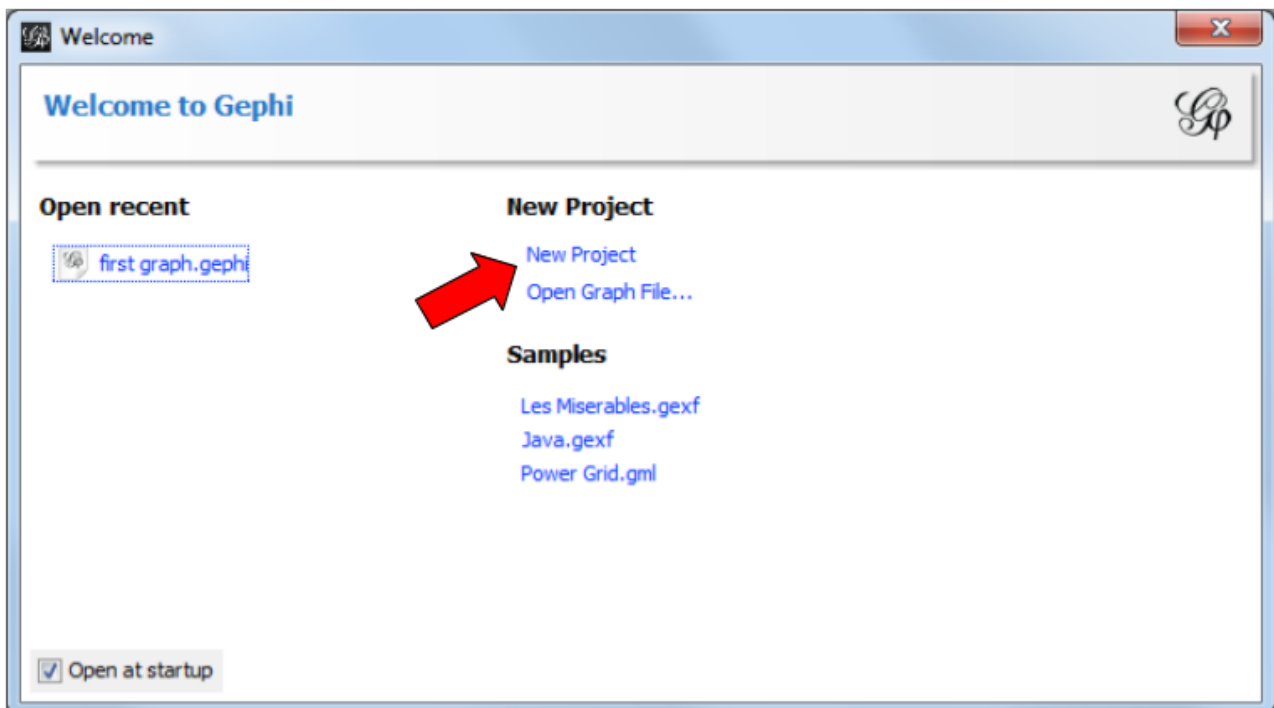


Figure 4. Open a new project in Gephi

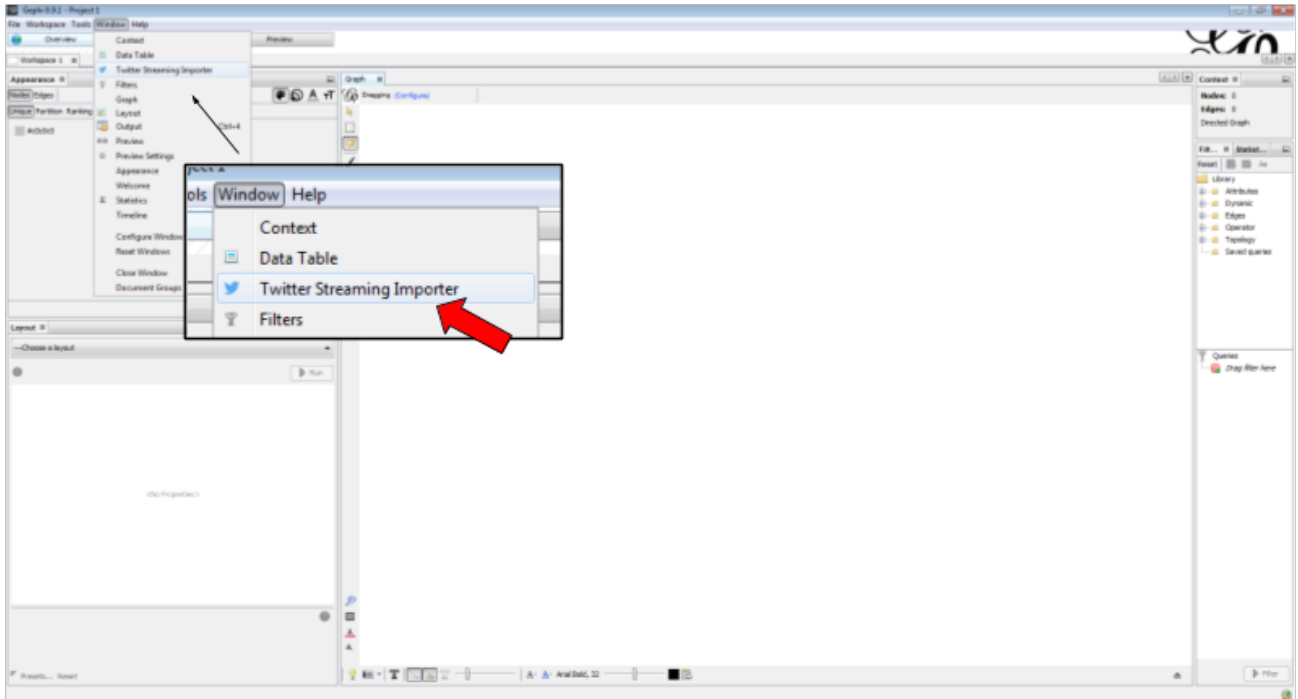


Figure 5. Display the plugin in Gephi

We need now to connect to a Twitter account. If you already have a Twitter account and you are logged in, [skip to here](#).

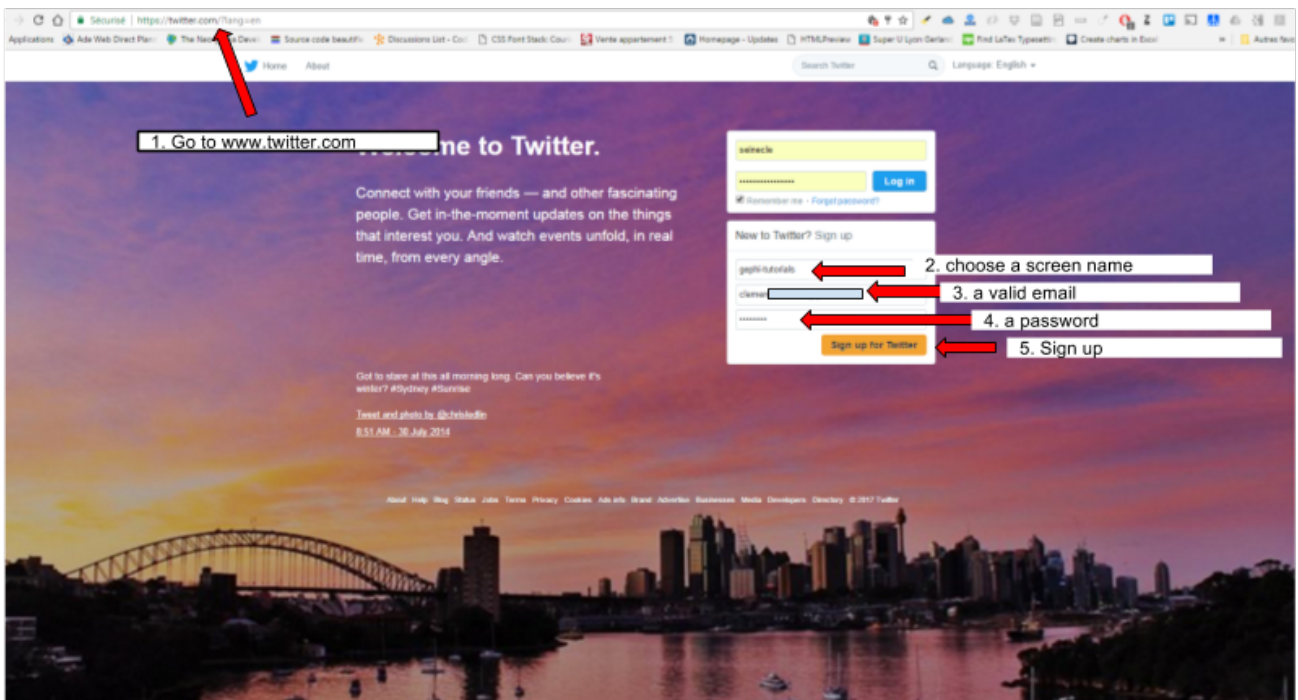


Figure 6. Creating a Twitter account

Join Twitter today.

gephi-tutorials ✓

clem... ✓

***** ✓

Sign up

By signing up, you agree to the Terms of Service and Privacy Policy, including Cookie Use. Others will be able to find you by email or phone number when provided.

[Advanced options](#)

Just click here

Figure 7. Confirmation of the sign-up



You have received an email by Twitter about the sign up. At some point (but now would be a good time), you must click on the link in this email to confirm it.

Verify your phone.

We sent a code to +33 6 [] Enter it below so we know you're a real person.

Enter here the code you received via text messaging

Verification code

Verify

[Re-send SMS](#) [Edit phone number](#)

Figure 8. Enter the verification code you received by sms

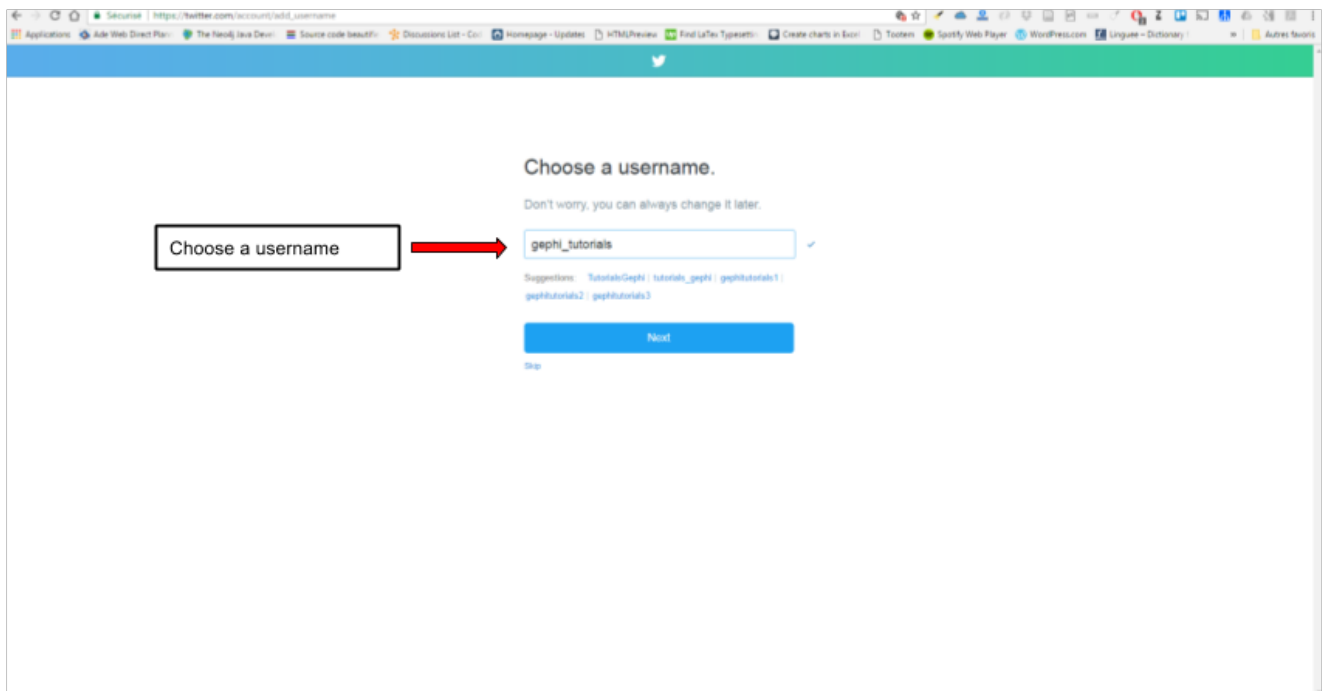


Figure 9. Choose a username

The next screens of the sign up for Twitter are not important for us. Just follow the steps until you get to the page showing your Twitter profile, meaning the setup is finished.

You now have a Twitter account. We need to create a Twitter app which will authorize us to collect tweets automatically via Gephi

Go to <https://apps.twitter.com>:

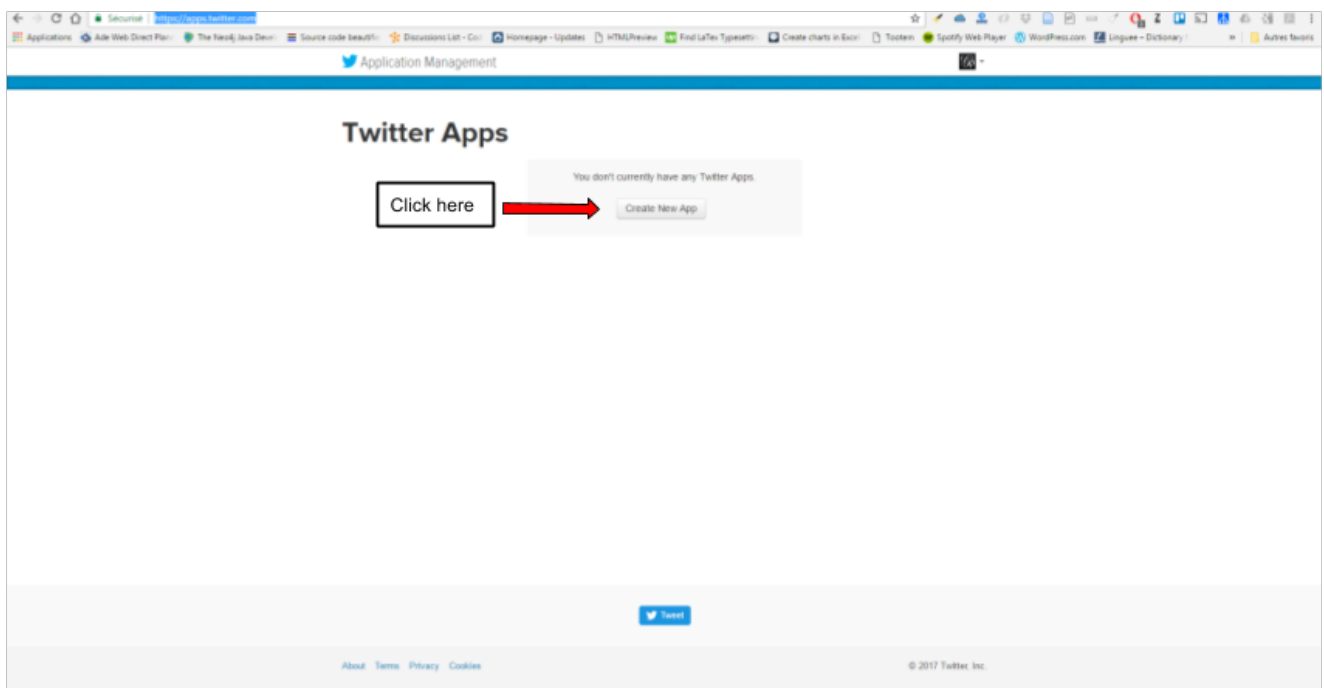


Figure 10. Create a new app

The screenshot shows the 'Create an application' form on the Twitter Developer portal. Red arrows and text boxes provide instructions for filling out the form:

- Name:** Annotated with 'Choose a name, can be random'.
- Description:** Annotated with 'Random description'.
- Website:** Annotated with 'Here put: <http://www.example.com> (don't forget the "http://")'.
- Callback URL:** Annotated with 'Leave this field empty'.
- Developer Agreement:** Annotated with 'Read the agreement carefully: publishing, sharing or selling Twitter data comes with strict conditions!'.
- Create your Twitter application:** Annotated with 'Finally, click here'.

Figure 11. Fill in the fields

INFO: Almost there!!

The screenshot shows the 'Keys and Access Tokens' page for an application named 'gephi-tutorial-example'. A red arrow points to the 'Keys and Access Tokens' tab, which is annotated with a text box: 'Click on "Keys and Access Tokens"'.

The page displays the following information:

- Organization:** Information about the organization or company associated with your application. This information is optional.
- Application Settings:** Your application's Consumer Key and Secret are used to authenticate requests to the Twitter Platform.
- Access level:** Read and write (modify app permissions)
- Consumer Key (API Key):** H25CjzUvArU8tL15KwHEDG (manage keys and access tokens)
- Callback URL:** None
- Callback URL Locked:** No
- Sign in with Twitter:** Yes
- App-only authentication:** <https://api.twitter.com/oauth2/token>
- Request token URL:** https://api.twitter.com/oauth/request_token
- Authorize URL:** <https://api.twitter.com/oauth/authorize>

Figure 12. Click on Keys and Access Tokens

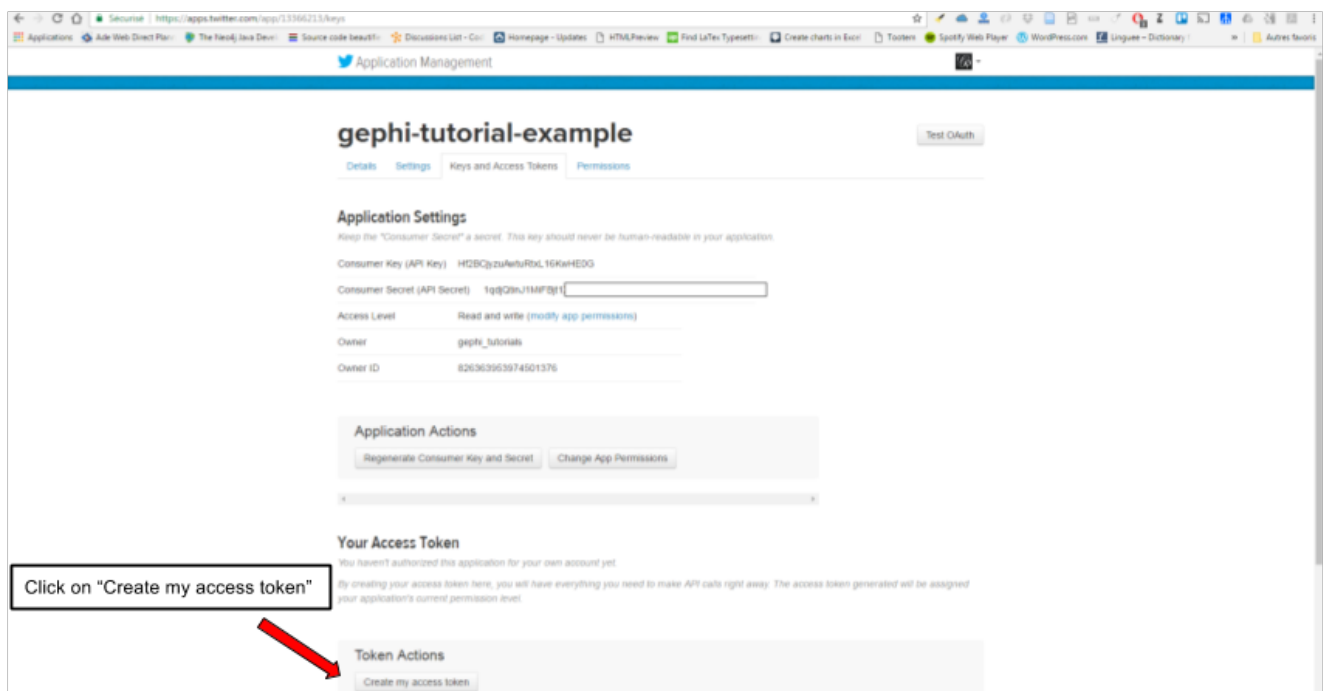


Figure 13. Click on Create my access token

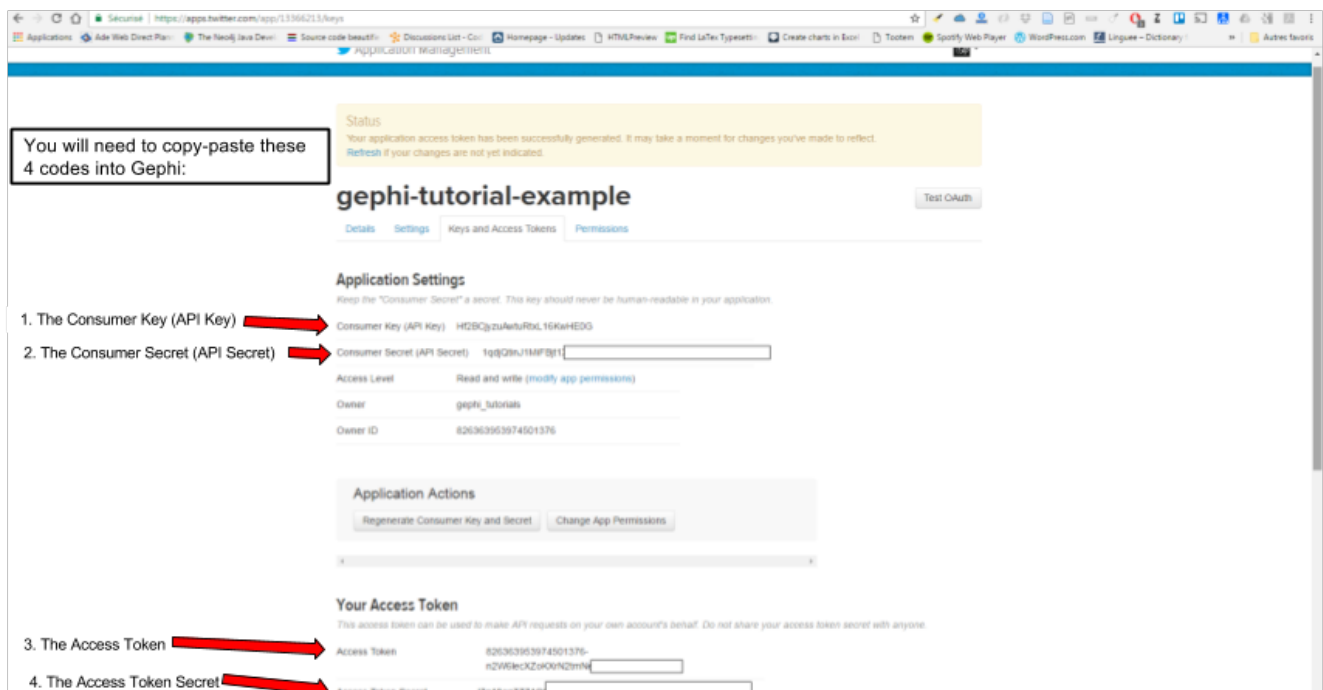


Figure 14. Copy paste these codes into Gephi

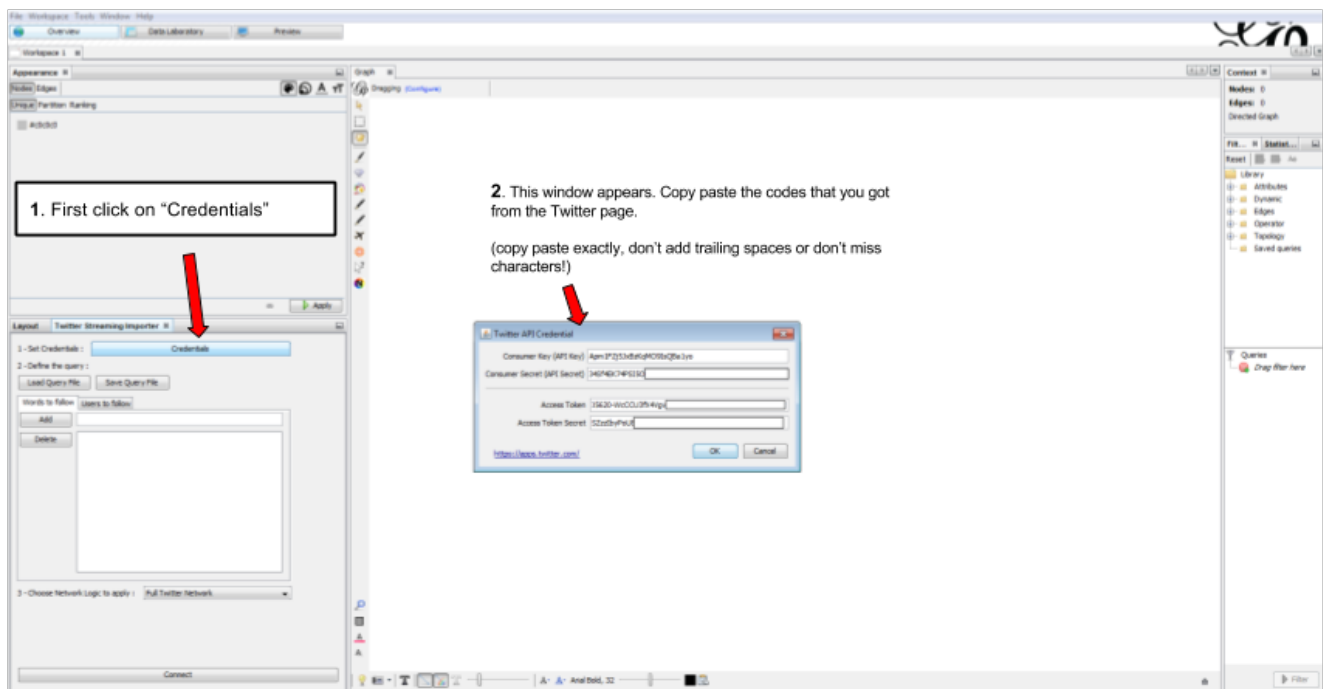


Figure 15. Where to copy paste the codes in Gephi

👍 Well done. This setup had just to be done once. Now we can start using the plugin.

Using the plugin

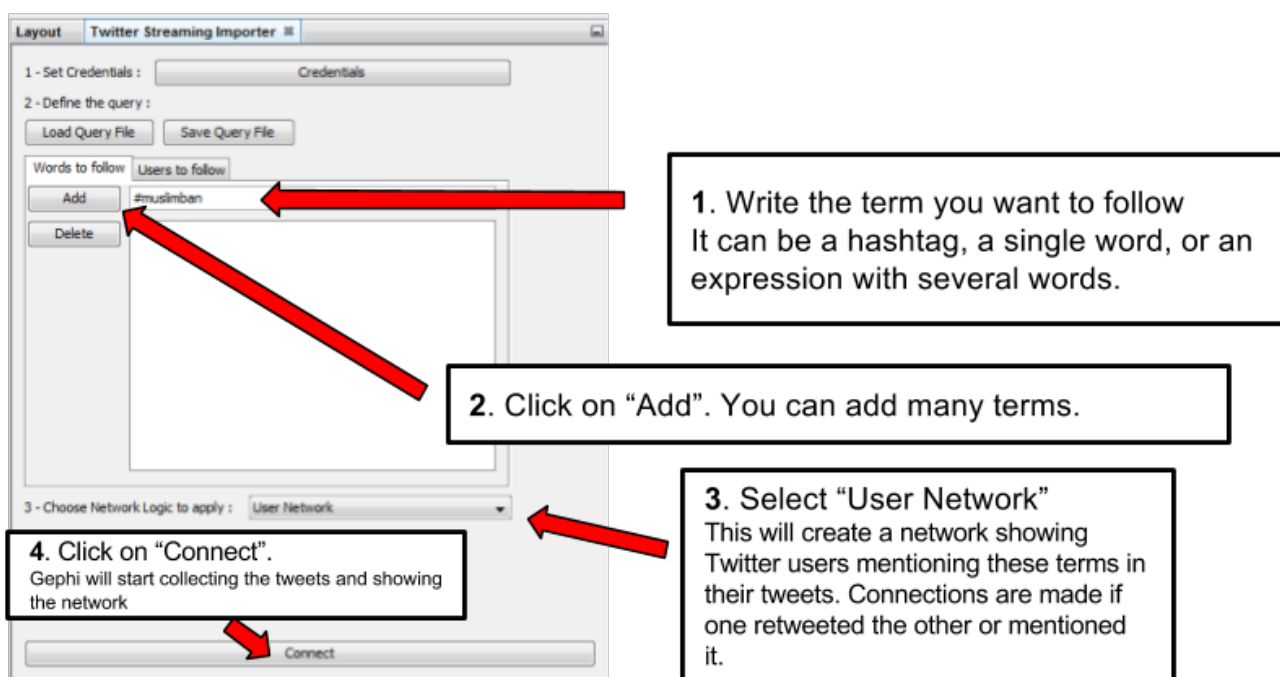


Figure 16. Adding terms and launching the collection of tweets

Be careful that if you choose very common terms, tweets will arrive fast and in large volumes. If you don't have enough memory (RAM) on your computer, this could make it crash. Click on "disconnect" to stop the collection of tweets.

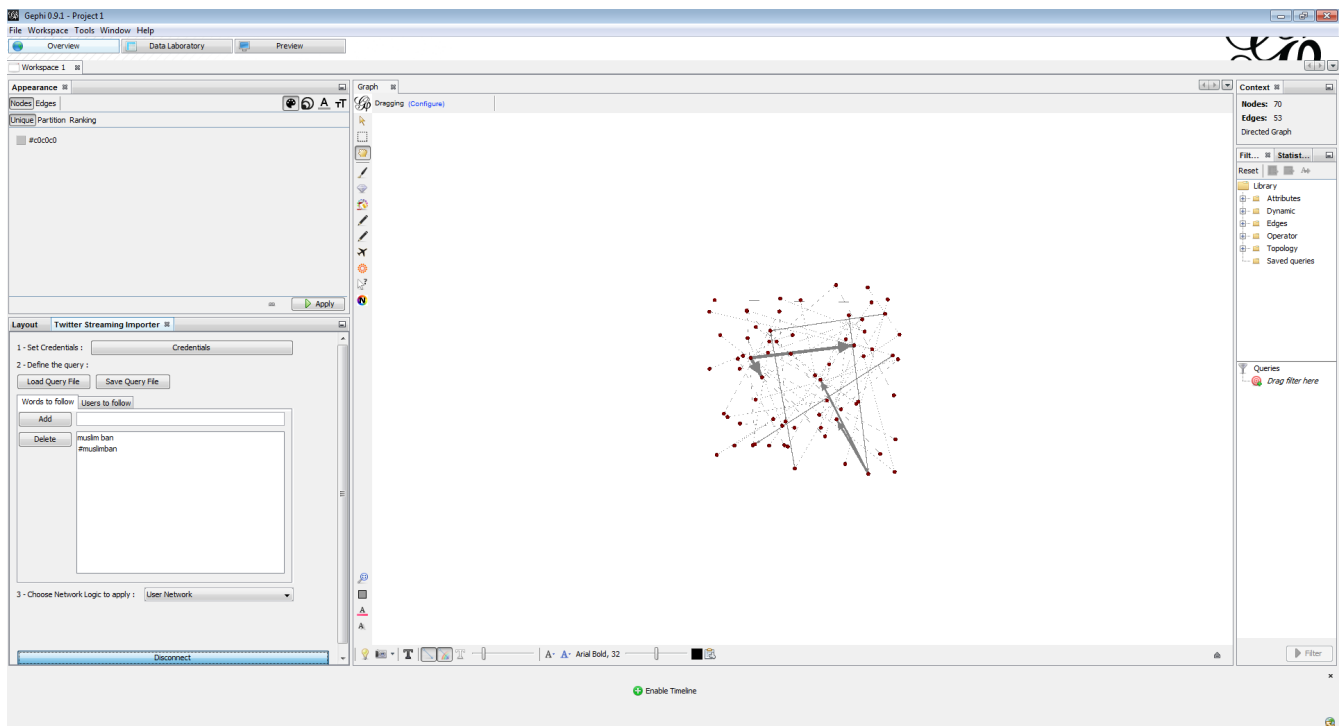


Figure 17. Users mentioned in or retweeting tweets citing the search terms

You can see the users organize spatially in real time, while the tweets are being collected.

Just run Force Atlas 2 in the "Layout" panel. This will not interrupt the collection of tweets.

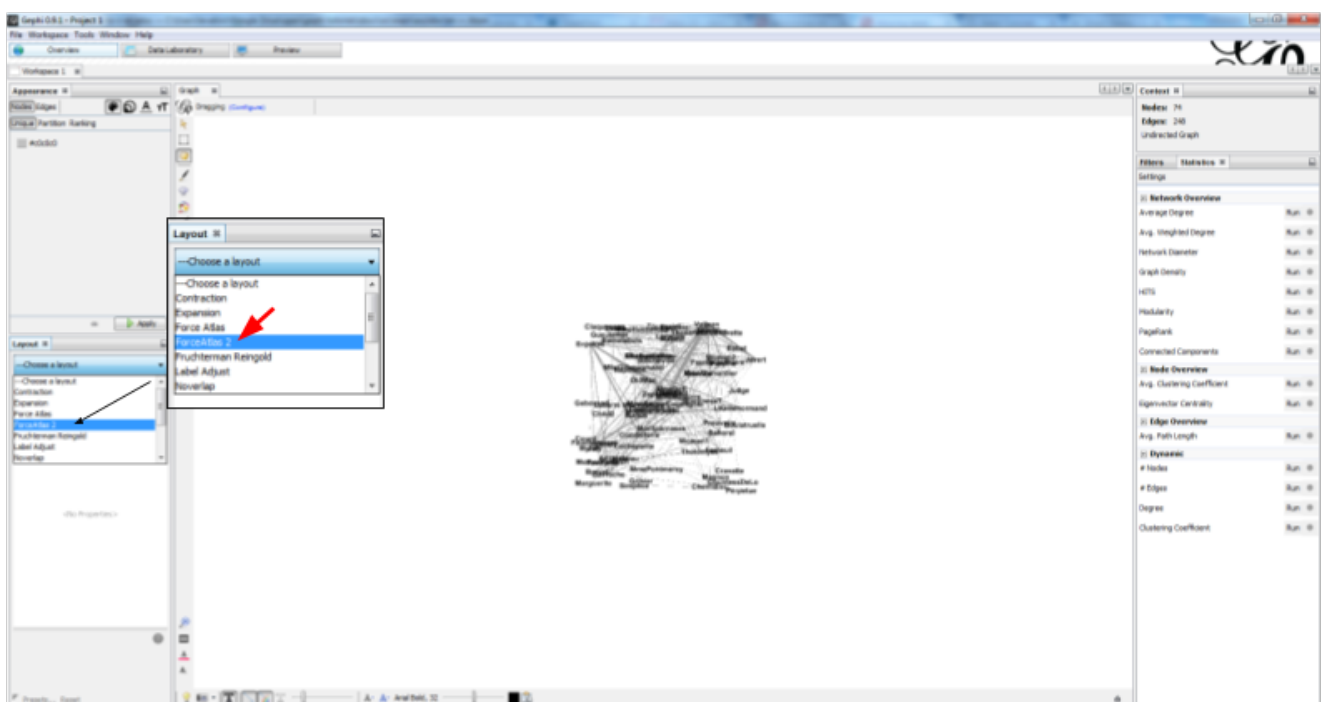


Figure 18. Running the Force Atlas layout while the tweets are arriving

Shift to the **data laboratory** to view the data collected, in a spreadsheet format:

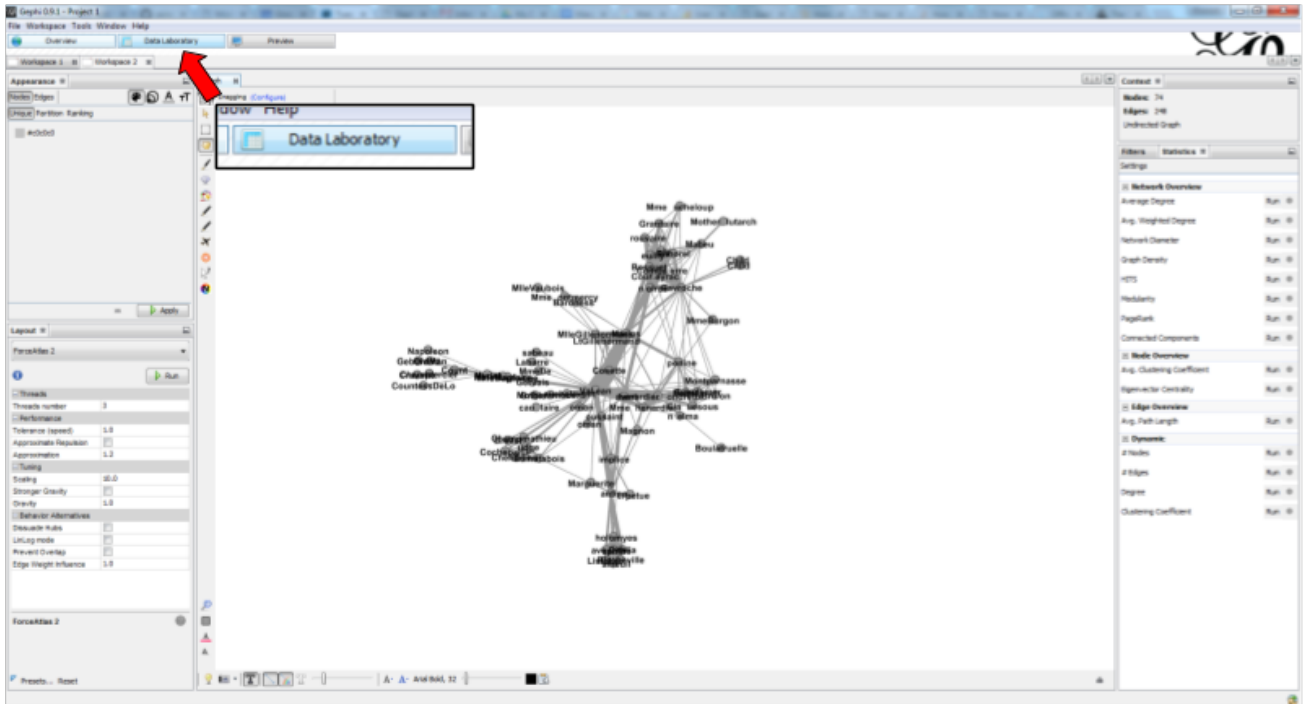


Figure 19. Switching to the data laboratory view

There, you can export nodes and relations ("edges") as csv files by clicking on "Export table".

The end

This plugin has many more features.

Visit [the Gephi group on Facebook](#) to get help,

or visit [the website for more tutorials](#)