socialmedia
RESEARCH FOUNDATION

VISUAL GUIDE

2024

How to utilize NodeXL Importers and further functionalities.

FREE GUIDE

Dr. Verónica Espinoza

NODEXL

www.smrfoundation.org

VISUAL GUIDE

How to utilize NodeXL Importers and further functionalities.

Dr. Verónica Espinoza

August, 2024
First version

This guide was prepared by
Dr. Verónica Espinoza

NetHabitus
www.nethabitus.org

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01

NodeXL Importers

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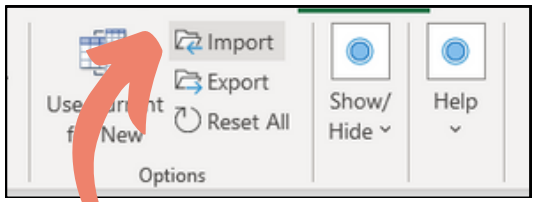
"X" (Twitter) Importer 3.0

Learn more here

1

Options > Import > Upload the recipe

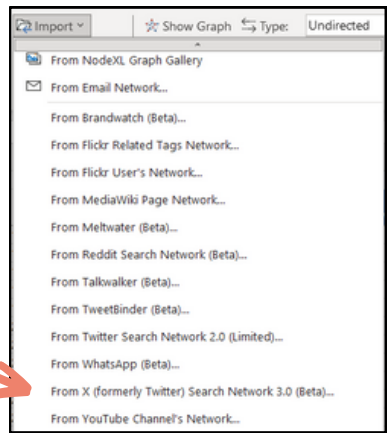


Recipe

2

Data > Import > From X (formerly Twitter) Search Network 3.0 (beta)

Import



From X (formerly Twitter) Search Network 3.0 (beta)

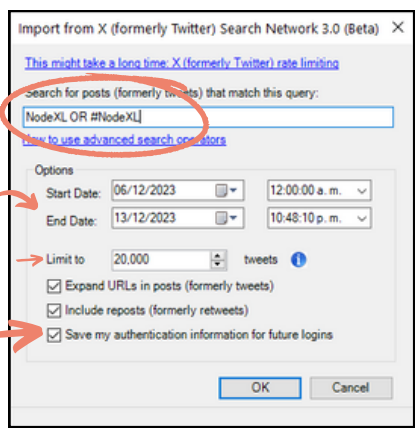
3

Type your query > Adjust other parameters of interest > OK > Authorize NodeXL to use your account

Type your query

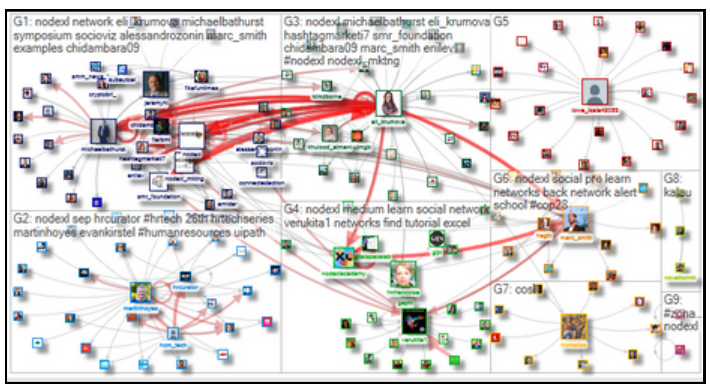
If required, adjust Start Date / End Date / Limit of tweets

Be sure to select here in order to save your authentication for future logins



4

After a few minutes, you will get the network and metadata!

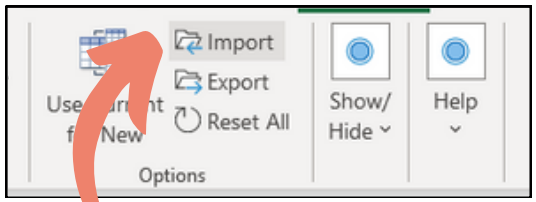


Instagram Importer

Learn more here

1

Options > Import > Upload the recipe



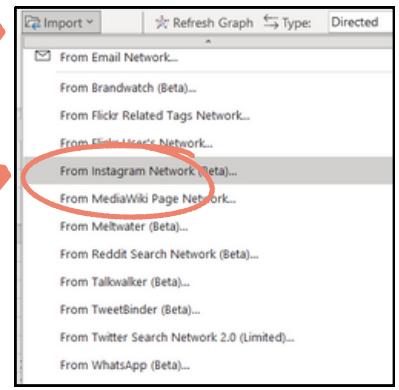
Recipe

2

Data > Import > From instagram network (beta)

Import

From Instagram network (beta)



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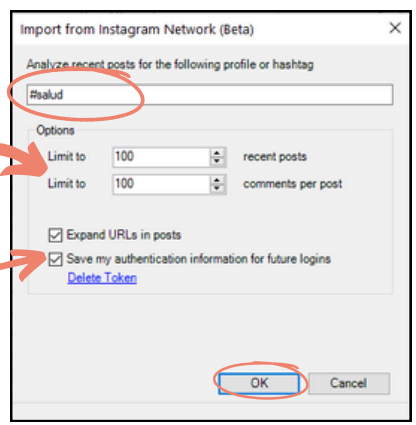
3

Type your query > Adjust other parameters of interest > OK > Authorize NodeXL to use your instagram account

Type your query

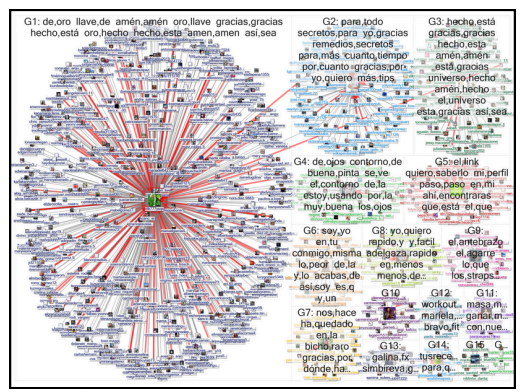
Adjust parameters

Be sure to select here in order to save your authentication for future logins



4

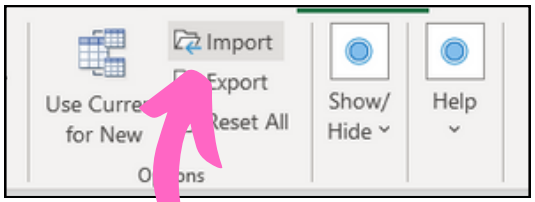
After a few minutes, you will get the network and metadata!



Flickr Importer

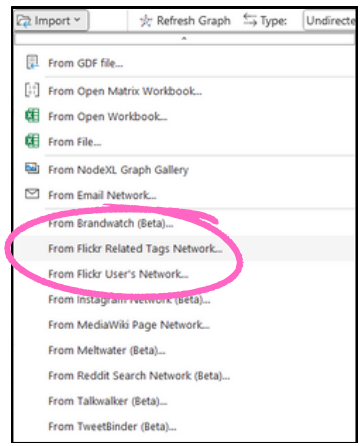
Learn more here

1 Options > Import > Upload the recipe

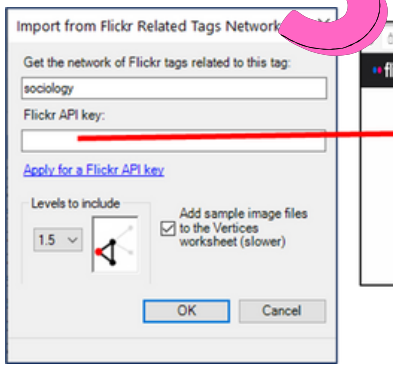


Recipe

2 Data > Import > From Flickr Tags Network

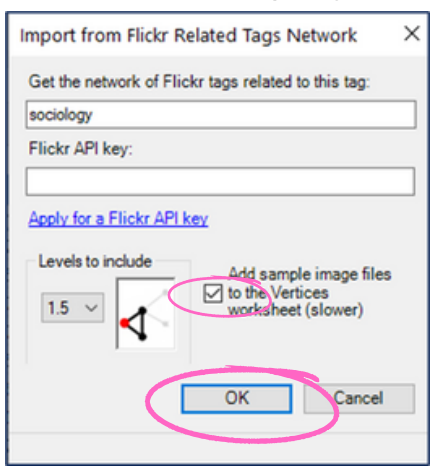


3

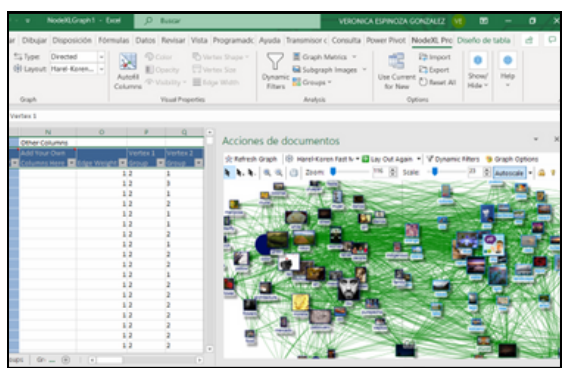


Get your API and type your query

4 Execute the query



5 Explore your results



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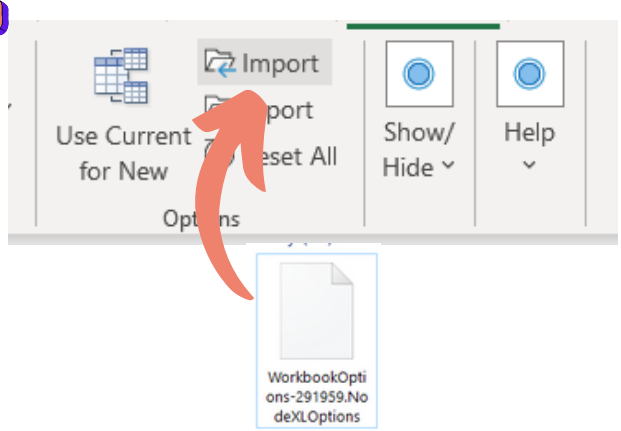
Reddit Importer

Learn more here

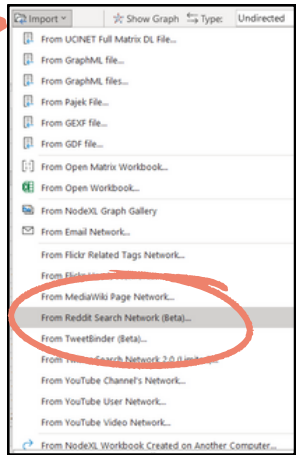
1

Options > Import > upload the recipe



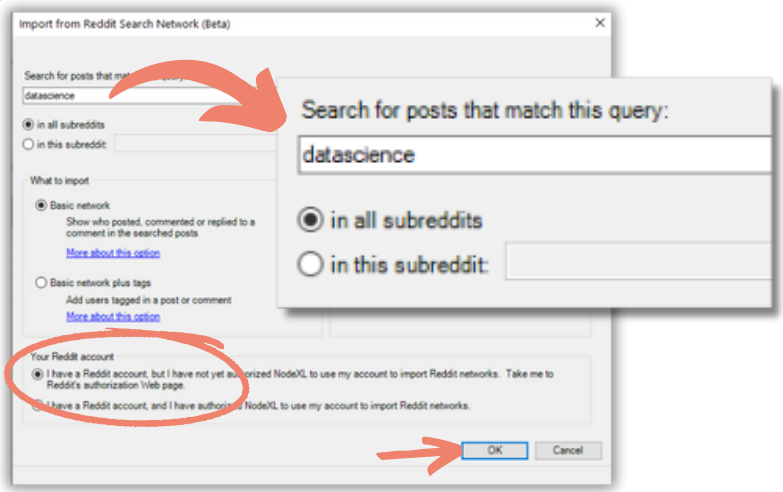
2

Data > Import > From Reddit Search Network (beta)



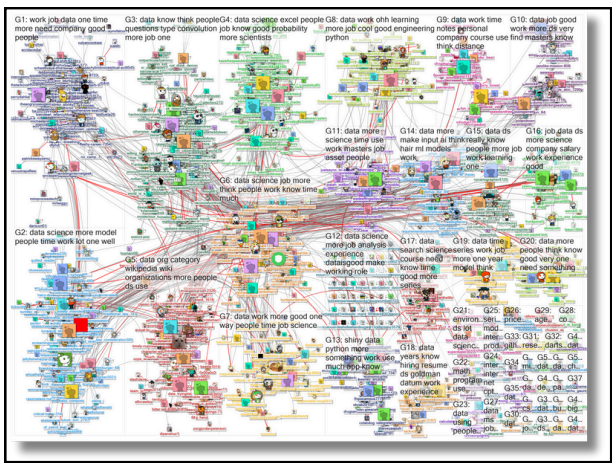
3

Authorize NodeXL to use your account > type the query > adjust other parameters of interest > OK



4

After a few minutes you will get the network and metadata!

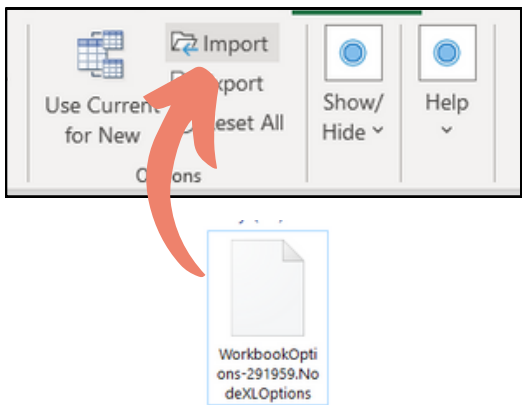


YouTube Importer

Learn more here

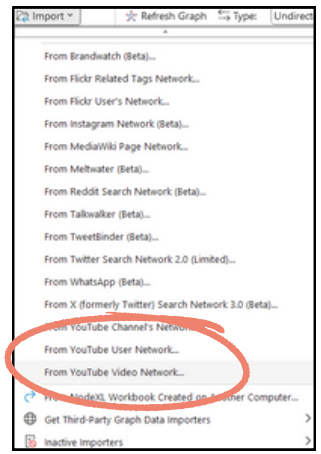
1

Options > Import > upload the recipe



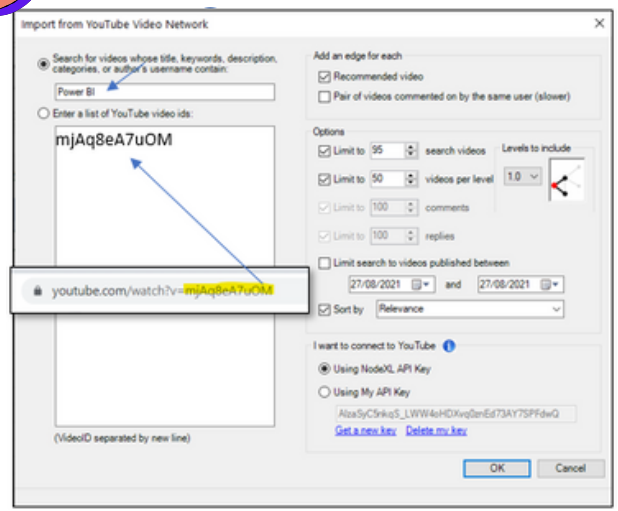
2

Data > Import > From YouTube Video Network

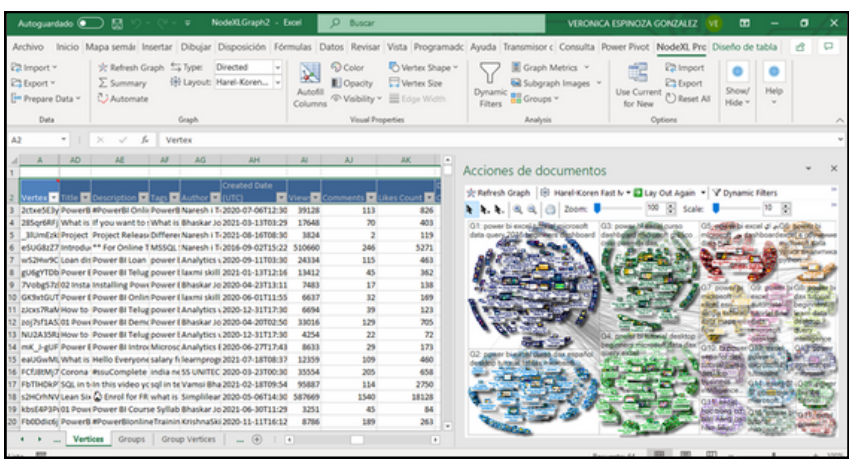


3

Type your query in a *search word* option or *enter IDs* for particular videos > adjust other necessary parameters



4



Explore your results

Information that you get: title, description, tags, author, creation date (UTC), views, comments, like count, dislike count and a link to the video.

Learn about YouTube User Network importer here

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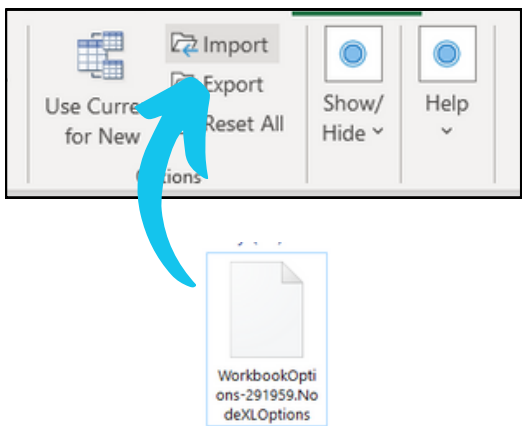
Wikipedia Importer

Learn more here

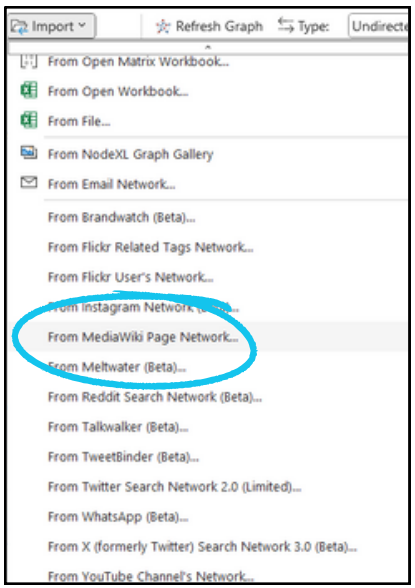
1

Options > Import > upload the recipe



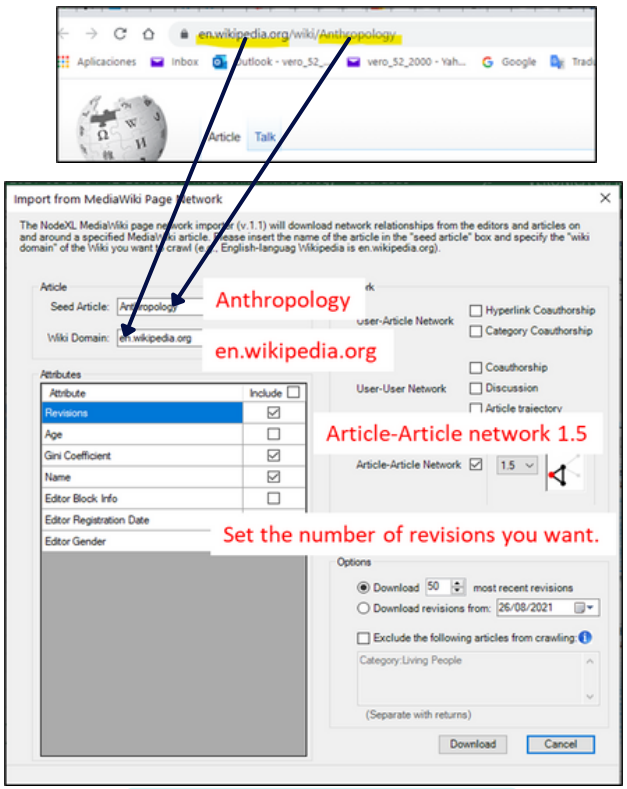
2

Data > Import > From MediaWiki Page Network



3

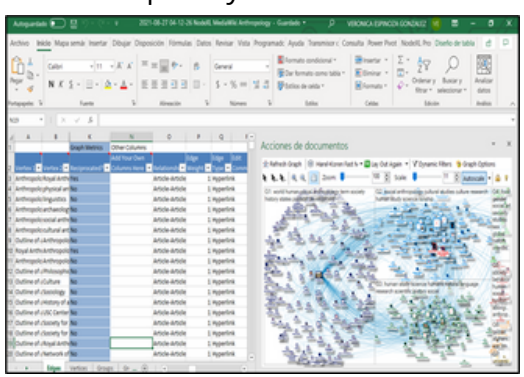
Open a Wikipedia page of your interest > type the information as shown in the image.



You can adjust more parameters, for example: number of reviews, network depth level, date range, etc.

4

Explore your results



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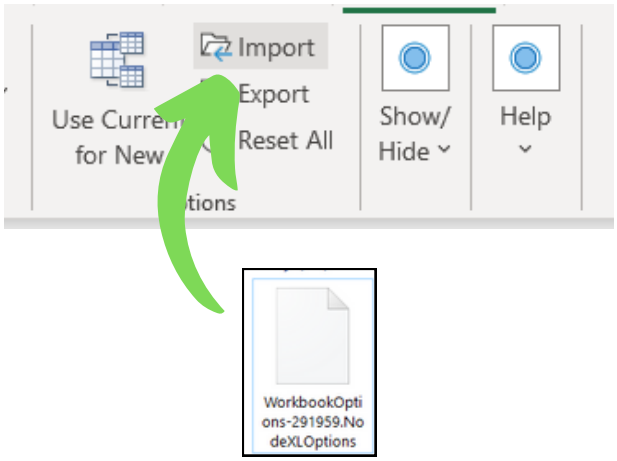
WhatsApp Importer

Learn more here

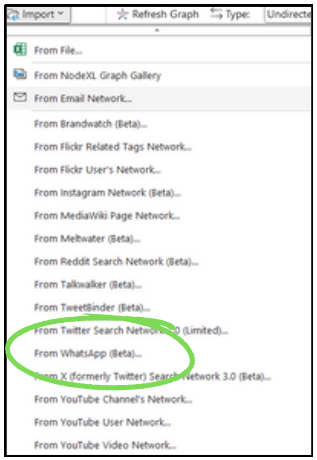
1

Options > Import > upload the recipe



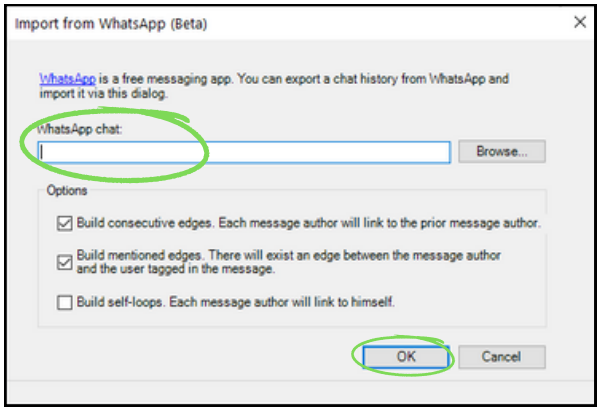
2

Data > Import > From WhatsAPP (beta)



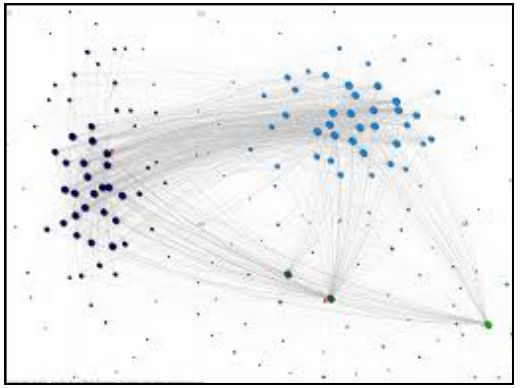
3

Import your file > Adjust parameters of interest > OK



4

Explore your results



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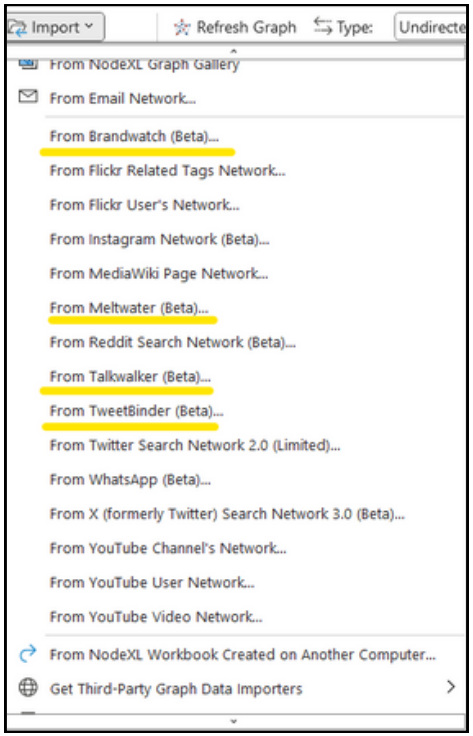
Brandwatch, Meltwater, Talkwalker and Tweet Binder Importers

> ***NodeXL team** has implemented importers for data sets created by Brandwatch, Meltwater, Talkwalker and TweetBinder.*

Learn more here

1 Data > Import > select the importer of your interest



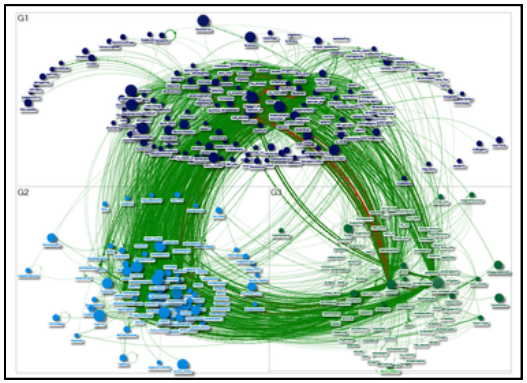
Brandwatch

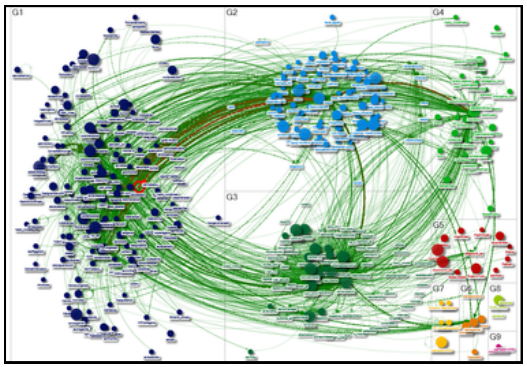
Meltwater

Talkwalker

tweetbinder

2 Apply a recipe > explore your results





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02

Networks from others sources

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NODE XL

Spotify Data

Learn more here

1

Spotify Artist Network

beta software!

This website allows for exploring networks of related artists (two steps from the starting point) on Spotify via its API. It uses sigma.js for graph visualization and chroma.js for colors.

First search for an artist via the text field below. Click on an artist to load the network. Loading the network may take over a minute on the first run.

Double click to zoom into the network and click on a node for details. Node size and color indicate popularity.

I make other stuff as well.

download network as gdf file (for visualization in gephi)

Download data using the *Spotify Artist Network Tool*

2

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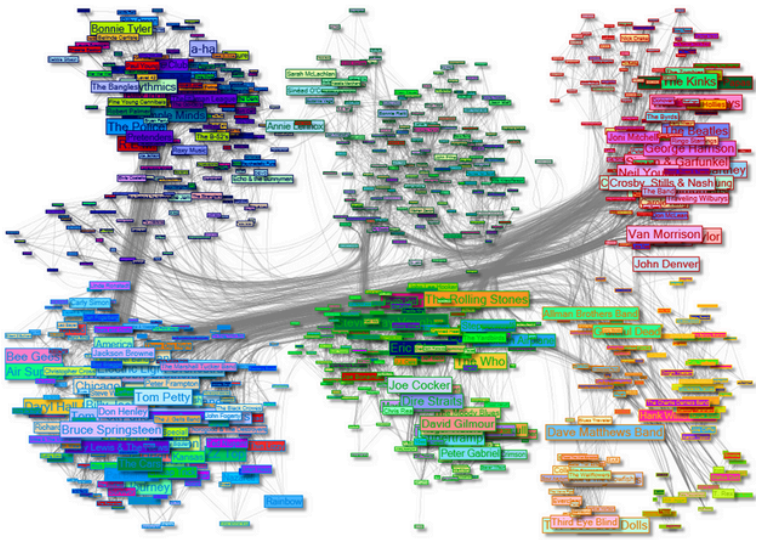


Import the network file into NodeXL > apply a recipe > explore your results

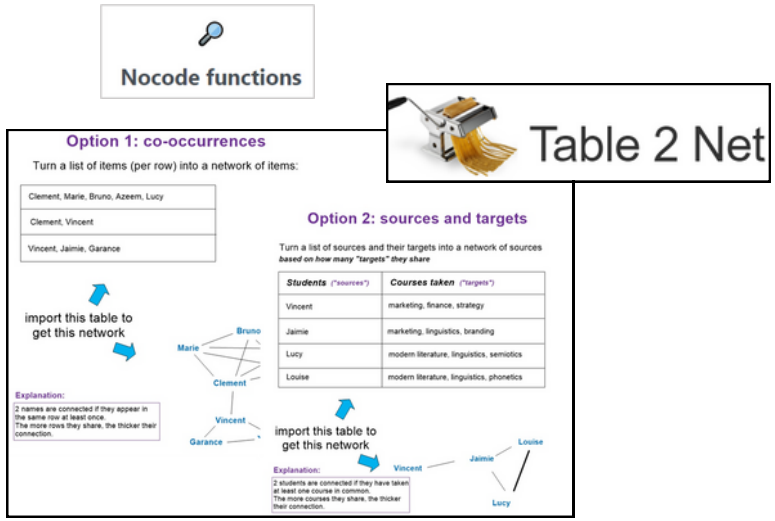
PubMed Data

Learn more here

1

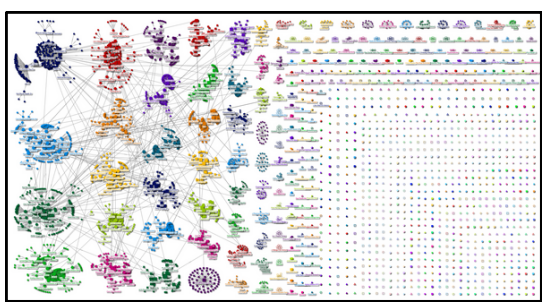
Download the CSV data from the *PubMed* website.

2



Prepare data with the NocodeFunction *Tool* using the options to *create networks based on co-occurrences or lists. You can also use the Table2Net Tool to prepare your data.*

3

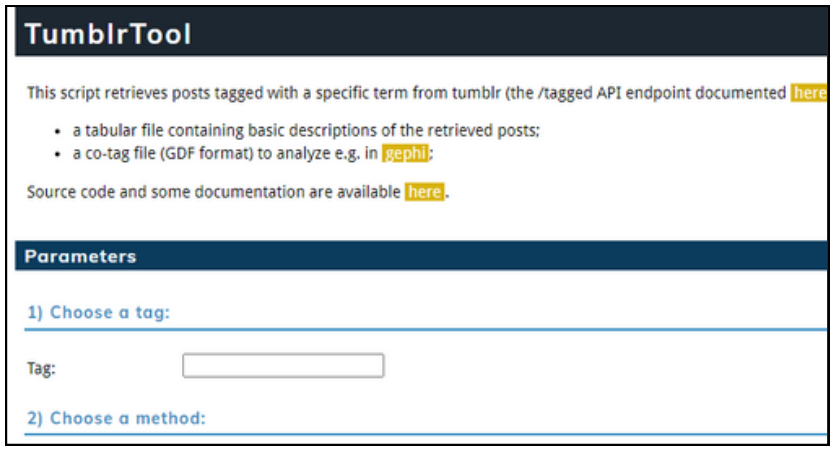


Import the network file into NodeXL > apply a recipe > explore your results

Tumblr Data

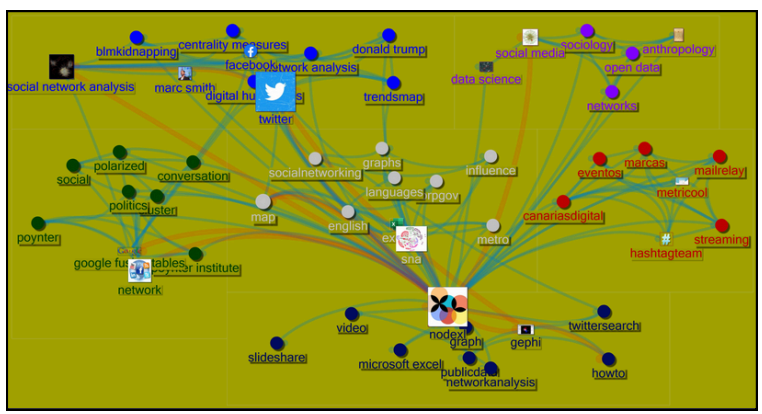
Learn more here

1



Download data using the Tumblr *Tool*.

2



Import the network file into NodeXL for visualization > apply a recipe > explore your results

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Kaggle Data

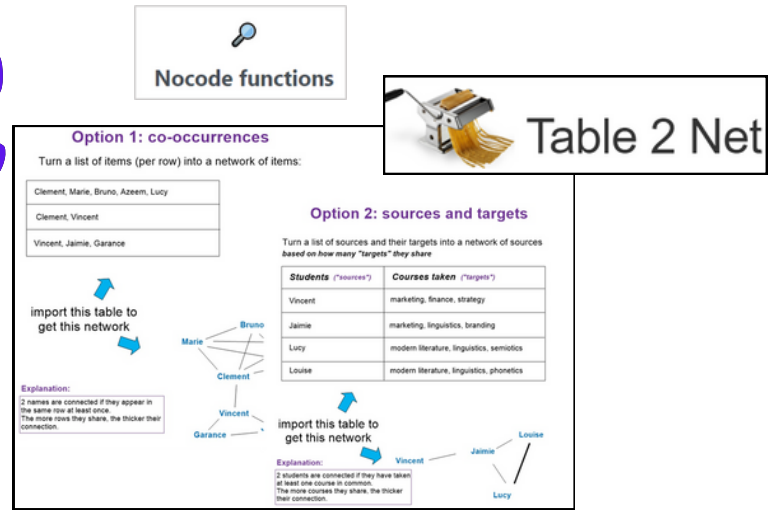
Learn more here

1

kaggle

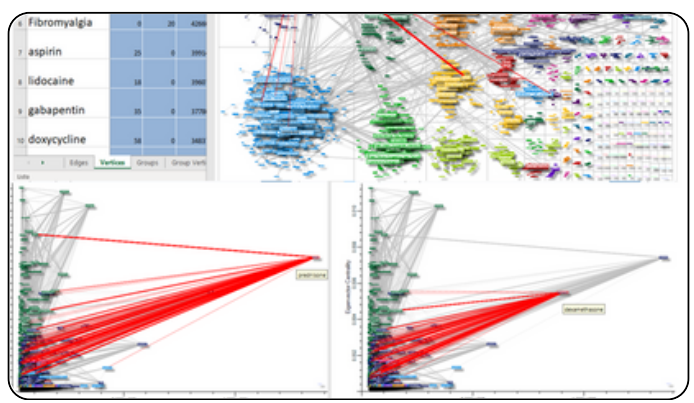
From Kaggle *website*, download a dataset that aligns with your interests.

2



Prepare data with the NocodeFunction Tool using the options to create networks based on co-occurrences or lists. You can also use the Table2Net Tool to prepare your data.

3



Import the network file into NodeXL for visualization > apply a recipe > explore your results

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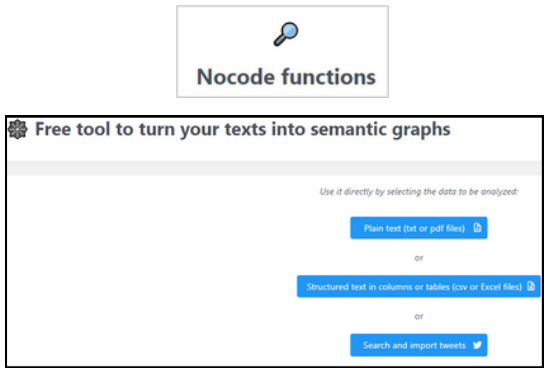
Interview Transcript Data

Full tutorial here

1

Transcribe the interview

2

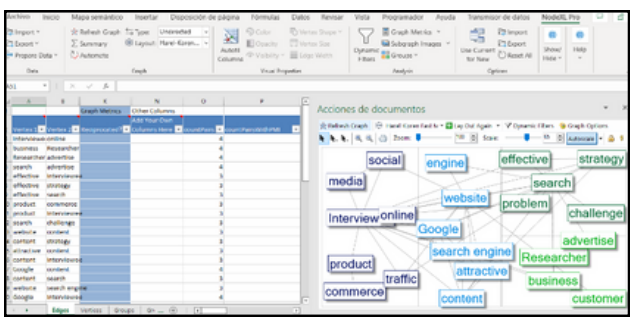


Free tool to turn your texts into semantic graphs

Use it directly by selecting the data to be analyzed:

Prepare data with the NocodeFunction Tool using the option *turn your text into semantic graphs.*

3



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Import the network file into NodeXL > apply a recipe > explore your results

03

More possibilities

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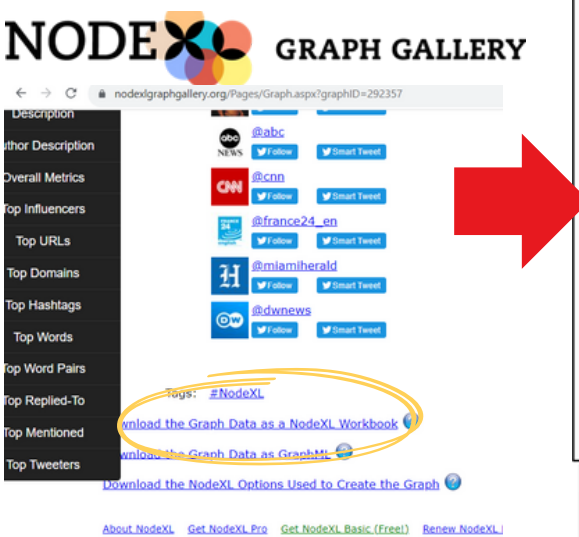
NODE XL

NodeXL data + Python = Graphistry

Full tutorial here

1



GRAPHISTRY

2

```
# pip install -q --user graphistry pandas

pip install -q --user openpyxl

import pandas as pd
import graphistry
graphistry.__version__

# To specify Graphistry account & server, use:
graphistry.register(api=3, username='[redacted]', password='[redacted]', protocol='https', server='hub.graphistry.com')

#g = NodeXLGraphistry().xls(xls, 'twitter')
g = graphistry.nodexl('https://www.nodexlgraphgallery.org/Pages/Workbook.ashx?graphID=286794')

print('%s nodes, %s edges' % (len(g._nodes), len(g._edges)))
g._nodes.sample(2)

g.plot()
```

3

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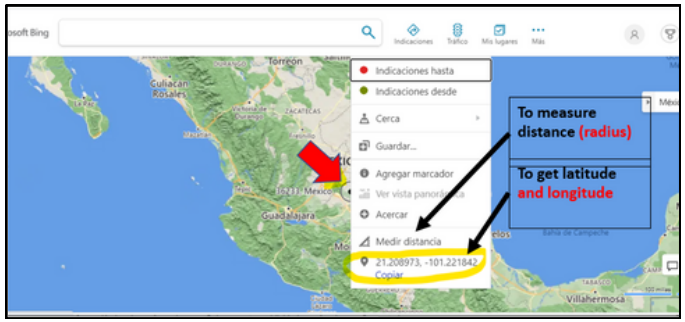
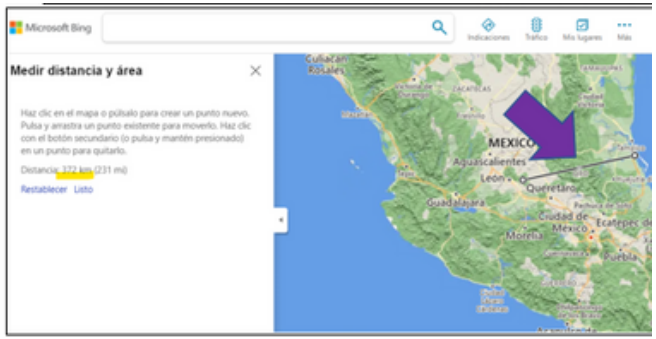
Geolocated Tweets

GENERAL FORMULA FOR GEOLOCATING IN X
geocode:lat,long,radius (km/mi)

1

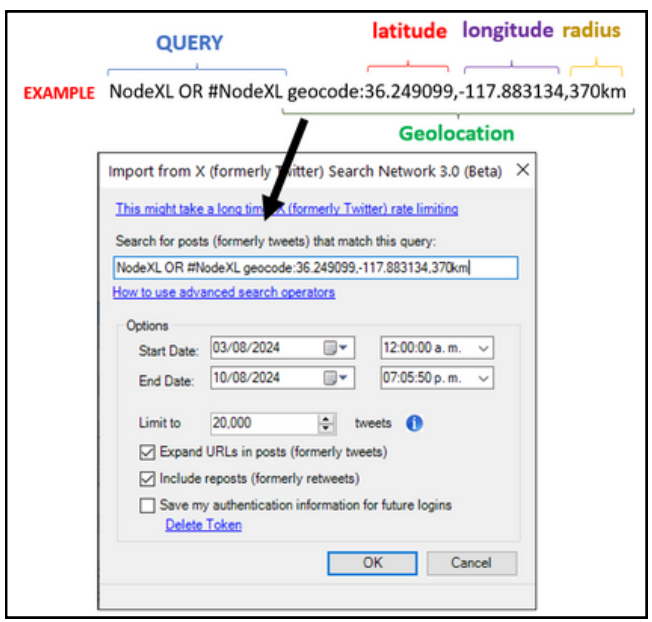
The initial step is to find the necessary data in Bing Maps: latitude, longitude, and radius of the specific region we aim to target in our search.





2

Enter your query along with the established geolocation data including latitude, longitude, and radius from Maps Bing.



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This guide was prepared
by Dr. Verónica Espinoza

NetHabitus
www.nethabitus.org

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socialmedia
RESEARCH FOUNDATION

Resources

Download the full set of NodeXL Pro data recipes

Meet NodeXL-Pro: one tool, many possibilities!

Mapping Twitter Topic Networks: From Polarized Crowds to Community Clusters

Connect to Networks with NodeXL: The official guide

Analyzing Social Media Networks with NodeXL: Insights from a Connected World. 2nd edition

Articles regarding NodeXL by Dr. Wasim Ahmed.

www.smrfoundation.org

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