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# Using data visualization for network analysis

Johanna Wild

Bellingcat

@Johanna\_Wild



# Creating your Netlytic network graph

NAME NETWORK / WHO MENTIONS WHOM

# posters with ties: 0

# ties (incl. self-loops): 0

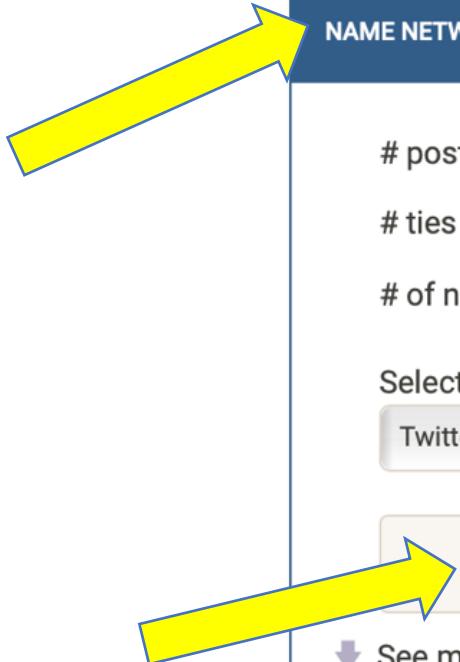
# of names found: ? 0

Select the dataset type:

Twitter

 ANALYZE 910 REMAINING POSTS

See more processing options



CHAIN NETWORK / WHO REPLIES TO WHOM



**^tsm**  Team Social Media

**^yt**  Yvonne Tamborini  
Social Media Management

**^tc**  Thilo Cablitz  
Pressesprecher

**^PPr'in**  Dr. Barbara Slowik  
Polizeipräsidentin



Bei Notfällen **110 wählen**  
Bürgertelefon: **(030) 4664 – 4664**

...  F

**Polizei Berlin** 

@polizeiberlin

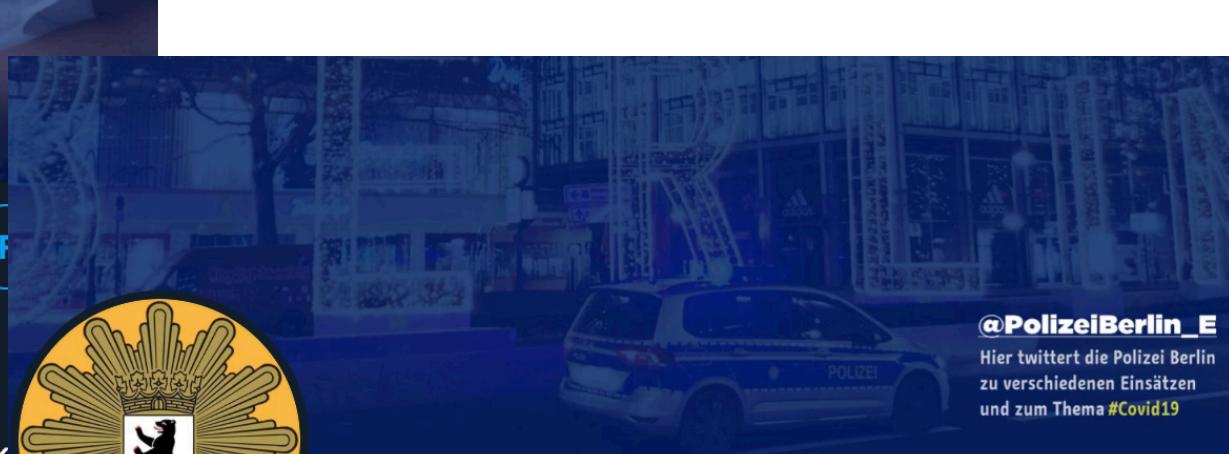
Hier twittern ^tsm, ^yt, ^tc & ^PPr'in für die Polizei Berlin. -Keine Notrufe- K Anzeigen -Kein 24/7- In Notfällen  110 Infos zu Karriere [@polizeiberlin\\_k](#)

[Translated from German by Google](#)

Tweet here ^ tsm, ^ yt, ^ tc & ^ PPr'in for the Berlin police. -No emergency calls -No 24/7- In emergencies  110 Career information [@polizeiberlin\\_k](#)

© Berlin, Deutschland  [berlin.de/polizei](#)  Joined March 2014

**11 Following** **476.9K Followers**



**@PolizeiBerlin\_E**  
Hier twittert die Polizei Berlin nur zu bestimmten Anlässen. - Keine Notrufe - Keine Anzeigen -Kein 24/7 Monitoring - In Notfällen 110 wählen. Impressum:

[Translated from German by Google](#)

**Polizei Berlin Einsatz** 

@PolizeiBerlin\_E

Hier twittert die Polizei Berlin nur zu bestimmten Anlässen. - Keine Notrufe - Keine Anzeigen -Kein 24/7 Monitoring - In Notfällen 110 wählen. Impressum:

[Translated from German by Google](#)

Here the Berlin police only tweet on certain occasions. - No emergency calls - No displays - No 24/7 monitoring - In emergencies dial 110. Imprint:

 [berlin.de/polizei/allgemein...](#)  Joined March 2014

**21 Following** **393.5K Followers**



Felidae Saberhagen  
@FelidaeSaberha1

Replying to @PolizeiBerlin\_E

DANKE an die #3Polizisten die allein gegen den Mob am #Reichstag standen. Ihr seid #Helden. Einfach nur Danke #b2908 #BerlinDemo

Translated from German by Google

THANKS to them #3Polizisten the alone against the mob on #Reichstag stood. You are #Helden . Just thank you #b2908#BerlinDemo

<https://twitter.com/FelidaeSaberha1/status/1299839592837910530>



Jay Ron Junghans  
@Jay2Ron

Ich muss doch noch einmal meinen Respekt für die drei Polizisten äußern, sie sich gegen die Meute vor den Türen des Reichstag gestellt haben. Sie hätten auch einfach abhauen können. Danke für den Mut und Einsatz!

@polizeiberlin @PolizeiBerlin\_E  
#b2908

Translated from German by Google

I have to once again express my respect for the three police officers who stood up against the mob in front of the doors of the Reichstag. You could have just run away. Thanks for the courage and commitment!

@polizeiberlin@PolizeiBerlin\_E  
#b2908

<https://twitter.com/Jay2Ron/status/1299850480345022464>



HH  
@heetenmann



Während wir 300 Gegendemonstrant:innen durchgehend abgefilmt u. überwacht wurden, haben die sog. "Coronaleugner" Narrenfreiheit in Berlin. Beschämende Bilder, nicht zu fassen wie dilettantisch einerseits und kriminalisierend andererseits die @polizeiberlin heute agierte. #be2908

Translated from German by Google

While we 300 counter-demonstrators: inside filmed continuously and have been monitored, the so-called "Corona deniers" have a fool's freedom in Berlin. Shameful images, unbelievable how amateurish on the one hand and criminalizing on the other hand @polizeiberlin acted today. #be2908

<https://twitter.com/heetenmann/status/1299846389820805121>



H. M.  
@HM60076990

Replying to @polizeiberlin

#polizeiberlin Sie sind die Exekutive und Ihr Auftrag lautet entsprechend: die rechtskräftigen Gerichtsentscheidungen respektieren u. durchsetzen. Ihre heutigen Verstöße bei #b2908 gegen die Gerichtsentscheidungen sind rechtswidrig!

Translated from German by Google

#polizeiberlin You are the executive and your mandate is accordingly: to respect the legally binding court decisions and the like. push through. Your violations today #b2908 against the court decisions are illegal!

<https://twitter.com/HM60076990/status/1299852924194095106>



Nicole Diekmann

@nicolediekmann

Vor dem Reichstag verbreitet sich gerade das Gerücht, vor der russischen Botschaft hätten die Polizisten die Helme abgenommen und seien damit übergelaufen zur Anti-Corona-Bewegung. Ekstatische Ansagen ins völlig übersteuernde Mikro. Man wähnt sich ganz kurz vorm Regierungssturz.

[Translated from German by Google](#)

In front of the Reichstag, the rumor is spreading that the police officers have taken off their helmets in front of the Russian embassy and have defected to the anti-corona movement. Ecstatic announcements into the completely oversteering microphone. You think you are very close to the fall of the government.

6:10 PM · Aug 29, 2020 · Twitter for iPhone

382 Retweets 112 Quote Tweets 5.5K Likes



R @raumcom · Aug 29

Replying to @nicolediekmann

Was für ein bekloppter Haufen.



Michael Mayr  
@Nightmare\_Keks

Nur mal so zur info.

Die [@polizeiberlin](#) [@PolizeiBerlin\\_E](#) kapituliert vor [#Querdenken](#) und feiert jetzt mit diesen.

Die Neutralität völlig weggeworfen.

#b2908info #BerlinDemo #B2908

[Translated from German by Google](#)

By the way.

The [@polizeiberlin](#) [@PolizeiBerlin\\_E](#) surrenders before [#Querdenken](#) and now celebrate with them.

Neutrality completely thrown away.

#b2908info#BerlinDemo#B2908





# Tools for more advanced network analysis graphs

**Gephi:**  
<https://gephi.org>

The Open Graph Viz Platform

Gephi is the leading visualization and exploration software for all kinds of graphs and networks. Gephi is open-source and free.

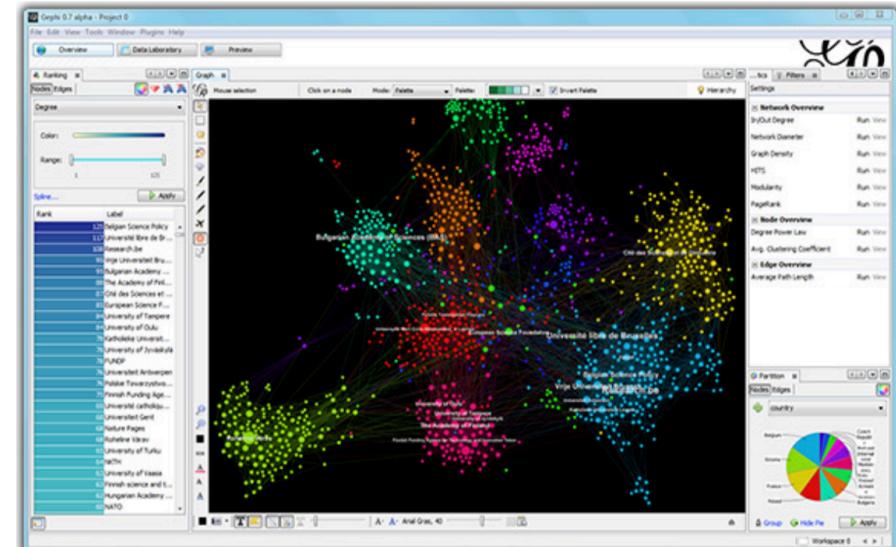
Runs on Windows, Mac OS X and Linux.

[Learn More on Gephi Platform »](#)

[Download FREE  
Gephi 0.9.2](#)

[Release Notes](#) | [System Requirements](#)

► Features      ► Screenshots  
► Quick start    ► Videos



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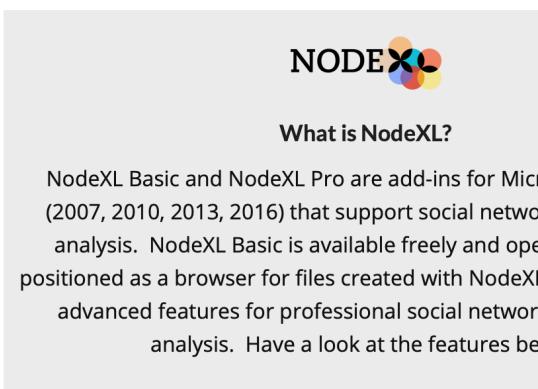


# Tools for more advanced network analysis graphs

**NodeXL (for Windows users only):**  
<https://www.smrfoundation.org/nodexl/>



The screenshot shows the NodeXL software interface. At the top, there is a navigation bar with links: Home, NodeXL (which is highlighted in orange), Licenses, Networks, Blog, Newsletter, and social media icons for Twitter, Facebook, and a search bar. Below the navigation bar is a large network visualization. The network consists of numerous small icons representing different entities, such as people, websites, and documents, connected by a dense web of green lines representing relationships. The word "NodeXL" is prominently displayed in white text on the right side of the graph. In the bottom right corner of the main window, there is a smaller inset showing a detailed view of a specific cluster of nodes.



The screenshot shows the NodeXL Basic add-in for Microsoft Excel. It features a central network visualization and a data grid below it. The data grid has columns labeled A through Z and rows numbered 1 through 14. Each row contains numerical values representing various metrics for each node. To the left of the data grid, there is a legend titled "NODEXL" with four colored circles (red, blue, yellow, green). Below the data grid, the text "What is NodeXL?" is displayed, followed by a detailed description of the software's capabilities.

**What is NodeXL?**

NodeXL Basic and NodeXL Pro are add-ins for Microsoft® Excel® (2007, 2010, 2013, 2016) that support social network and content analysis. NodeXL Basic is available freely and openly to all. It is positioned as a browser for files created with NodeXL Pro which offers advanced features for professional social network and content analysis. Have a look at the features below.