

# Social Media

Giovanni Pietro Vitali – University College Cork

[giovannipetrovitali@gmail.com](mailto:giovannipetrovitali@gmail.com)

<https://github.com/digitalkoine>

<https://ucc-ie.academia.edu/GiovanniPietroVitali>



uCC

Coláiste na hOllscoile Corcaigh, Éire  
University College Cork, Ireland



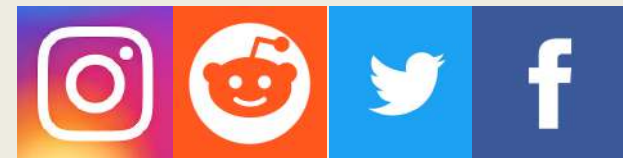
# What is an API (Application Programming Interface)?

<https://www.youtube.com/watch?v=s7wmis2msxy>

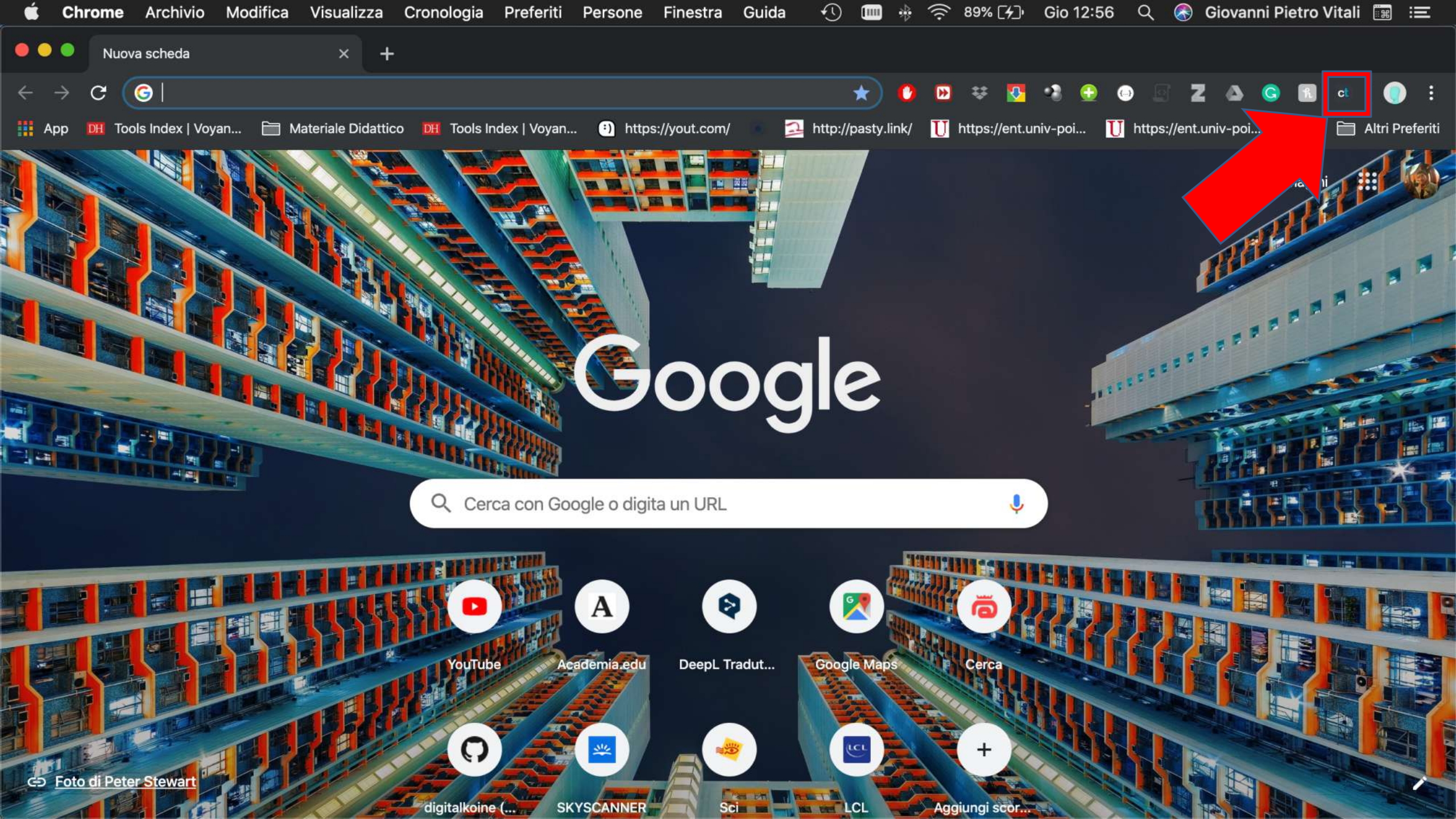
# Crowdtangle (Chrome Extension)



- **Extract data from social media:**
  - Facebook
  - Twitter
  - Income
  - Instagram
- **Partial and variable information depending on the availability of the API (Application Programming Interface).**







Google

Cerca con Google o digita un URL

Foto di Peter Stewart

YouTube Academia.edu DeepL Tradut... Google Maps Cerca

digitalkoine (... SKYSCANNER Sci LCL Aggiungi scor...



# Let's take an example

Chrome Archivio Modifica Visualizza Cronologia Preferiti Persone Finestra Guida Gio 10:43


Donald J. Trump - Home

facebook.com/DonaldTrump/

App Tools Index | Voyan... Materiale Didattico Tools Index | Voyan... https://youtu.com/ http://pasty.link/ https://ent.univ-poi... https://ent.univ...


Donald J. Trump

Giovanni Home Crea



Donald J. Trump ✓  
@DonaldTrump


Home Vetrina Video Post Informazioni Temi Foto Eventi Community




Mi piace Segui Condividi

Acquista ora


Vetrina




Official Donald J. Trump...



Firefighters for Trump an...



Trump Straws - Pack of 10



45th President of the United States

- Go to the page facebook, instagram, reddit, twitter.
- Click on the extension icon.

# Check and download the results.

Chrome Archivio Modifica Visualizza Cronologia Preferiti Persone Finestra Guida Gio 10:44 Giovanni Pietro Vitali

Donald J. Trump - Home

facebook.com/DonaldTrump/

Donald J. Trump

Donald J. Trump

Home

Vetrina

Video

Post

Informazioni

Temi

Foto

Eventi

TEXT "FACEBOOK"

Facebook Interactions

Download

TOP REFERRALS

Facebook Twitter Reddit Instagram

TIMES POSTED 500+

TOTAL INTERACTIONS 3,472,279

TOTAL FOLLOWERS 42,093,968

SOURCE (FOLLOWERS)	DATE	INTERACTIONS	LINK
Donald J. Trump 24,463,235	Oct 10, 2019	236,425	
Donald J. Trump 24,472,087	Oct 11, 2019	220,814	
Donald J. Trump 24,472,087	Oct 11, 2019	183,306	
Donald J. Trump 24,495,540	Oct 16, 2019	162,858	
Donald J. Trump 24,495,540	Oct 16, 2019	131,053	

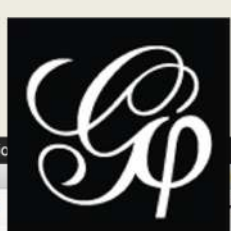
Donald J. Trump 24,463,235	Oct 10, 2019	14,684	
Donald J. Trump 24,488,432	Oct 14, 2019	13,115	
Donald J. Trump 24,463,235	Oct 10, 2019	10,542	
Conservative Values 422,456	Oct 17, 2019	8,026	
Diamond And Silk 1,808,334	Oct 8, 2019	7,260	
Conservative Renaissance 165,084	Oct 11, 2019	5,847	
Trump 2020 235,085	Oct 17, 2019	4,250	
Mike Pence 1,277,146	Oct 8, 2019	4,184	
Trump 2020 231,942	Oct 10, 2019	3,633	
Team Trump 149,973	Oct 10, 2019	3,458	
Red Symposium 157,940	Oct 10, 2019	3,291	



OpenOffice Calc - Trump\_Data.csv

	A	B	C	D	E	F
1	Link: <a href="https://www.facebook.com/DonaldTrump/?epa=SEARCH_BOX">https://www.facebook.com/DonaldTrump/?epa=SEARCH_BOX</a>					
2						
3	Source	Followers	Date	Interactions	Post Type	Link
4	Donald J. Trump	24463235	Thu Oct 10 2019 20:57:28 GMT+00	236511	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163285713945725">https://www.facebook.com/DonaldTrump/posts/10163285713945725</a>
5	Donald J. Trump	24472087	Fri Oct 11 2019 00:46:42 GMT+00	220847	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/444328779550413">https://www.facebook.com/DonaldTrump/posts/444328779550413</a>
6	Donald J. Trump	24472087	Fri Oct 11 2019 02:51:50 GMT+00	183311	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163287626775725">https://www.facebook.com/DonaldTrump/posts/10163287626775725</a>
7	Donald J. Trump	24495540	Wed Oct 16 2019 22:27:42 GMT+00	174197	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163321750750725">https://www.facebook.com/DonaldTrump/posts/10163321750750725</a>
8	Donald J. Trump	24495540	Wed Oct 16 2019 22:32:35 GMT+00	140214	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163321787980725">https://www.facebook.com/DonaldTrump/posts/10163321787980725</a>
9	Donald J. Trump	24495540	Wed Oct 16 2019 22:51:24 GMT+00	139325	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163321884225725">https://www.facebook.com/DonaldTrump/posts/10163321884225725</a>
10	Donald J. Trump	24472087	Fri Oct 11 2019 18:27:29 GMT+00	110654	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163290493125725">https://www.facebook.com/DonaldTrump/posts/10163290493125725</a>
11	Donald J. Trump	24459393	Wed Oct 09 2019 22:56:00 GMT+00	108989	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163280588505725">https://www.facebook.com/DonaldTrump/posts/10163280588505725</a>
12	Donald J. Trump	24483318	Sun Oct 13 2019 18:02:19 GMT+00	102856	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163301849840725">https://www.facebook.com/DonaldTrump/posts/10163301849840725</a>
13	Donald J. Trump	24463235	Thu Oct 10 2019 01:40:05 GMT+00	101579	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163281575305725">https://www.facebook.com/DonaldTrump/posts/10163281575305725</a>
14	Donald J. Trump	24492299	Tue Oct 15 2019 12:59:20 GMT+00	9063	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163283274935725">https://www.facebook.com/DonaldTrump/posts/10163283274935725</a>
15	Donald J. Trump	24492299	Tue Oct 15 2019 12:59:20 GMT+00	81254	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163313906815725">https://www.facebook.com/DonaldTrump/posts/10163313906815725</a>
16	Donald J. Trump	24488432	Mon Oct 14 2019 19:14:00 GMT+00	75664	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163274181185725">https://www.facebook.com/DonaldTrump/posts/10163274181185725</a>
17	Donald J. Trump	24488432	Mon Oct 14 2019 19:14:00 GMT+00	78729	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163308296525725">https://www.facebook.com/DonaldTrump/posts/10163308296525725</a>
18	Donald J. Trump	24488432	Mon Oct 14 2019 19:14:00 GMT+00	75664	Facebook	<a href="https://www.facebook.com/DonaldTrump/posts/10163308003350725">https://www.facebook.com/DonaldTrump/posts/10163308003350725</a>

Downloaded file



OpenOffice Calc - Trump\_Nodes.csv

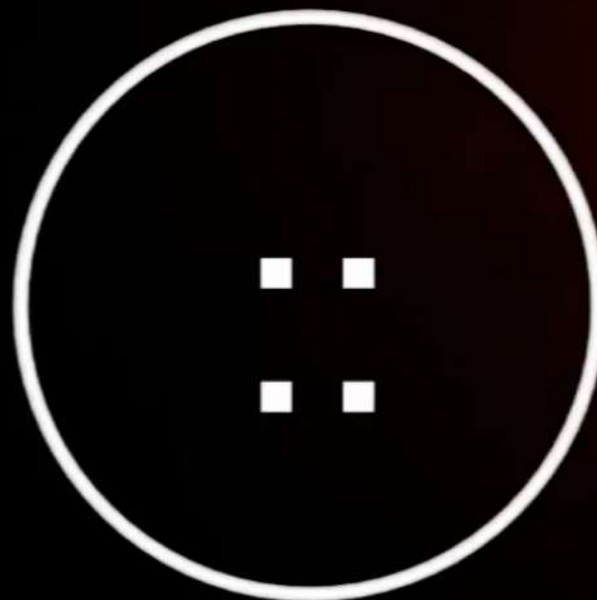
	A	B
1	ID	label
2	Donald J. Trump	Donald J. Trump
3	Diamond And Silk	Diamond And Silk
4	Conservative Values	Conservative Values
5	Conservative Renaissance	Conservative Renaissance
6	Trump 2020	Trump 2020
7	Mike Pence	Mike Pence
8	Team Trump	Team Trump
9	Red Symposium	Red Symposium
10	幫港出聲 Silent Majority	幫港出聲 Silent Majority
11	Minnesota Gun Rights	Minnesota Gun Rights
12	The Committee to Defend the President	The Committee to Defend the President
13	Women for Trump	Women for Trump
14	LEXIT	LEXIT
15	Sid Miller	Sid Miller
16	The Hispanic Conservative	The Hispanic Conservative
17	QCN	QCN
18	Bill O'Reilly fan group	Bill O'Reilly fan group
19	Team Trump 2020	Team Trump 2020
20	Cowboys For Trump	Cowboys For Trump

Nodes

OpenOffice Calc - Trump\_Edges.csv

	A	B	C	D	E	F
1	Source	Target	Followers	Date	Interactions	Post Type
2	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163285713945725">https://www.facebook.com/DonaldTrump/posts/10163285713945725</a>	24463235	Thu Oct 10 2019	236425	Facebook
3	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/444328779550413">https://www.facebook.com/DonaldTrump/posts/444328779550413</a>	24472087	Fri Oct 11 2019	220814	Facebook
4	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163287626775725">https://www.facebook.com/DonaldTrump/posts/10163287626775725</a>	24472087	Fri Oct 11 2019	183306	Facebook
5	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163321750750725">https://www.facebook.com/DonaldTrump/posts/10163321750750725</a>	24495540	Wed Oct 16 2019	162858	Facebook
6	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163321787980725">https://www.facebook.com/DonaldTrump/posts/10163321787980725</a>	24495540	Wed Oct 16 2019	131053	Facebook
7	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163321884225725">https://www.facebook.com/DonaldTrump/posts/10163321884225725</a>	24495540	Wed Oct 16 2019	128082	Facebook
8	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163290493125725">https://www.facebook.com/DonaldTrump/posts/10163290493125725</a>	24472087	Fri Oct 11 2019	110654	Facebook
9	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163280588505725">https://www.facebook.com/DonaldTrump/posts/10163280588505725</a>	24459393	Wed Oct 09 2019	108989	Facebook
10	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163301849840725">https://www.facebook.com/DonaldTrump/posts/10163301849840725</a>	24483318	Sun Oct 13 2019	102856	Facebook
11	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163281575305725">https://www.facebook.com/DonaldTrump/posts/10163281575305725</a>	24463235	Thu Oct 10 2019	101579	Facebook
12	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163283274935725">https://www.facebook.com/DonaldTrump/posts/10163283274935725</a>	24463235	Thu Oct 10 2019	90063	Facebook
13	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163313906815725">https://www.facebook.com/DonaldTrump/posts/10163313906815725</a>	24492299	Tue Oct 15 2019	81254	Facebook
14	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163274181185725">https://www.facebook.com/DonaldTrump/posts/10163274181185725</a>	24456603	Tue Oct 08 2019	80872	Facebook
15	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163308296525725">https://www.facebook.com/DonaldTrump/posts/10163308296525725</a>	24488432	Mon Oct 14 2019	78729	Facebook
16	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163308003350725">https://www.facebook.com/DonaldTrump/posts/10163308003350725</a>	24488432	Mon Oct 14 2019	74832	Facebook
17	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163285205100725">https://www.facebook.com/DonaldTrump/posts/10163285205100725</a>	24463235	Thu Oct 10 2019	71979	Facebook
18	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163280130750725">https://www.facebook.com/DonaldTrump/posts/10163280130750725</a>	24459393	Wed Oct 09 2019	55946	Facebook
19	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163290511225725">https://www.facebook.com/DonaldTrump/posts/10163290511225725</a>	24472087	Fri Oct 11 2019	52058	Facebook
20	Donald J. Trump	<a href="https://www.facebook.com/DonaldTrump/posts/10163274691090725">https://www.facebook.com/DonaldTrump/posts/10163274691090725</a>	24456603	Tue Oct 08 2019	52009	Facebook

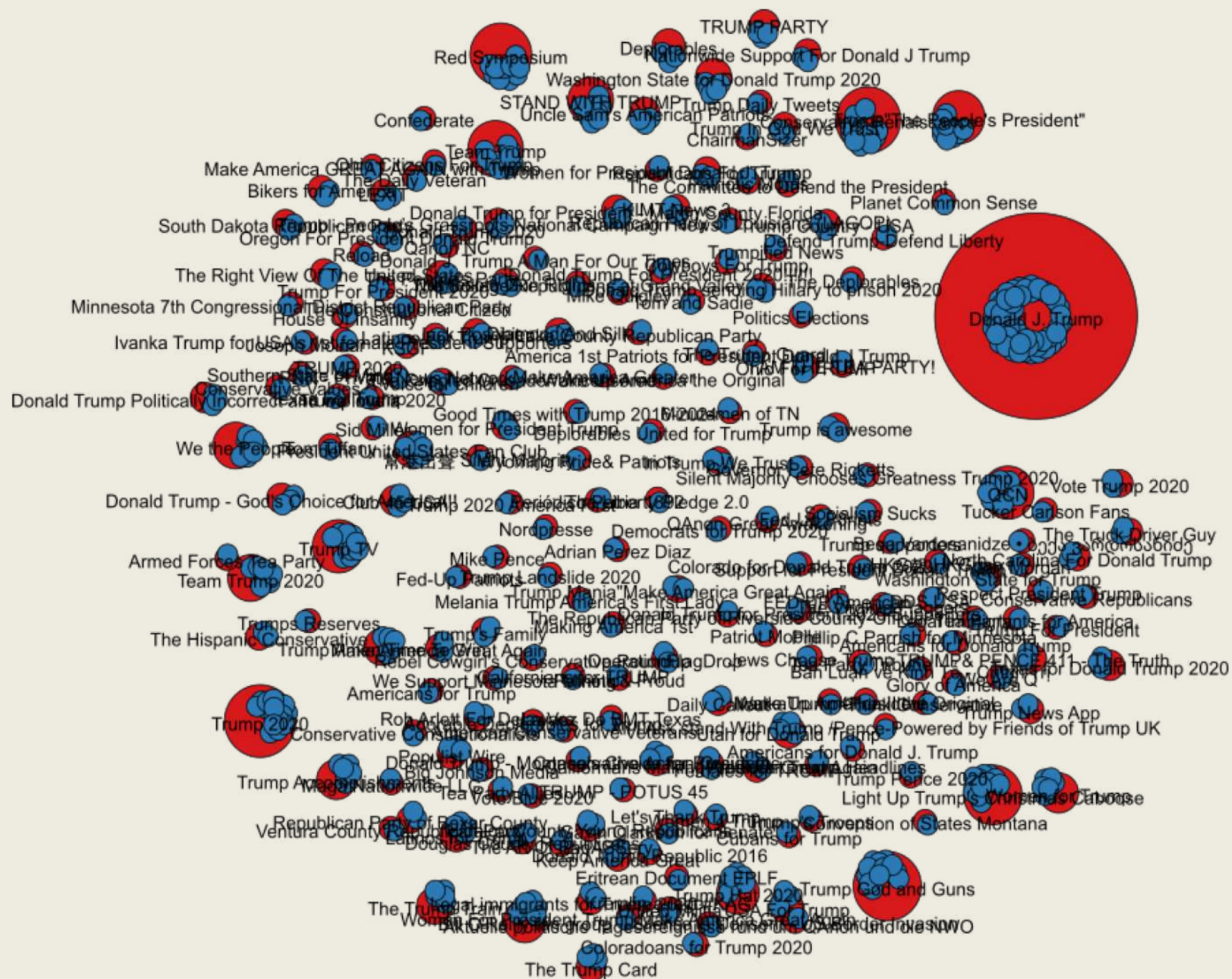
Edges



.....

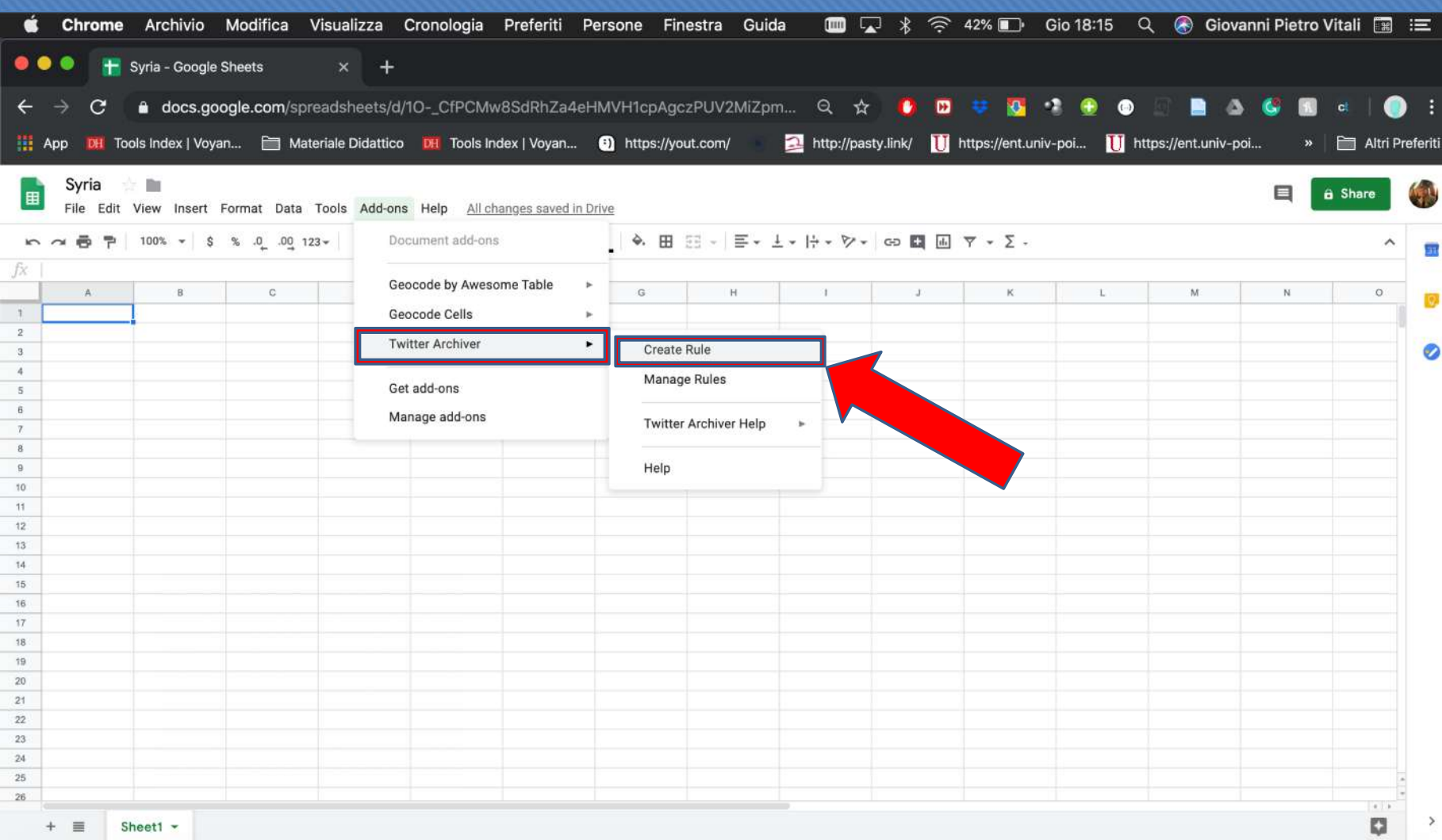








# Twitter Archiver - Google Sheets add-on



- A tool to open tweets
- Google Sheets Add-On



Syria

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

100% 123 Default (A11) 10 B I A

Create Twitter Rule

All of these words: This exact phrase:

Any of these words: None of these words:

These #hashtags: syria Kurdish Written in: Any Language

Near This Place: Inserisci una posizione Advanced Rules: -filter:retweets -filter:replies

People

To these accounts: Mentioning accounts:

From these accounts:

Working, please wait.

Create Search Rule Cancel

Create the rules

Check the results

Chrome Archivio Modifica Visualizza Cronologia Preferiti Persone Finestra Guida

Syria - Google Sheets

docs.google.com/spreadsheets/d/1O-CfPCMw8SdRhZa4eHMHV1cpAgczPUV2MiZpm...

App Tools Index | Voyan... Materiale Didattico Tools Index | Voyan... https://youtu.com/ http://pasty.link/ https://ent.univ-poi... https://ent.univ-poi... Altri Preferiti

Syria

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

100% 123 Droid Sans 10 B I A

Twitter Query: #syria OR #Kurdish -filter:retweets -filter:replies

Date	Screen Name	Full Name	Tweet Text	Tweet ID	Link(s)	Media	Location	Retweets	Favorites	App
17/10/2019 15:16	@teuccasan	Can OZDEMIR	#Turkey, #US agree on 120-hour pause in #Syria operation - #P	11849556345042251786	https://www.trtworld.com/turkey/turkey-us-agree-on-120-hour-pause-in-syria			0	0	Twitter Web App
17/10/2019 15:16	@riskmap	RiskMap	U.N. Chief Welcomes Turkey Pause In #Syria Assault, Still Long W	1184956267975958529	https://www.riskmap.com/news/https://pbs.twimg.com/media/EHHpJCK0A			0	0	dhr.it
17/10/2019 15:15	@rongxiang	VOA Nike Ching 张馨雅	At tehend of that five days, if the #SDF is withdrawn, the Turks v	1184956166994120709	https://twitter.com/rongxiang/status/1184955779692027904			0	0	Twitter for iPhone
17/10/2019 15:15	@talkestani	Talkestani	Lesson from #Syria: When you start a war, it's already too late i	1184956071640735744	https://twitter.com/TuluGabbard/status/1184947902608195584			0	0	Twitter for Android
17/10/2019 15:14	@AdemOgluAdem19	Adem Ademoglu	The #USA could have done this from the start on. By not doing t	1184955966695116802	https://twitter.com/TurkiseMarg https://pbs.twimg.com/media/EHHNpXkv			0	0	Twitter for Android
17/10/2019 15:14	@mimarhazal	mimarhazalhmethr	#Kahri: #Mehmedim "Hedef Kozl Elma" "Düğüne gidiyoruz" "Sefer bitim	118495595908667062	https://twitter.com/mehmedim pic.twitter.com/0x6l7XUv			0	1	Twitter for Android
17/10/2019 15:14	@ROJNAME_english	Rojname News English	U.S. says struck ceasefire deal knowing #Kurdish YPG could not	1184955865725575170	http://feeds.reuters.com/~r/reuters/worldNews/~3/rd4he1W4-8v0-c-says-c			0	0	Kurdish News
17/10/2019 15:14	@DavidNelsonTX	David Nelson	#Capitulation #Syria #Kurds #Turkey	1184955835480281088	https://m.dailykos.com/stories/2019/10/17/1893163/-Pence-announces-fu			0	0	Twitter for Android
17/10/2019 15:14	@GarrisonMartin	Garrison Martin	#HandsOffSyria "Moderate Rebels" were always international jf	1184955808020348929	https://twitter.com/hrivera72964164/status/1184611960966369280			0	0	Twitter for iPhone
17/10/2019 15:14	@huskerheaven1	huskerheaven	#ThankfulThursday Thankful that @realDonaldTrump brokered	1184955795798216704	https://twitter.com/AnaKasparian/status/1184276918331301889?n=20			0	0	Twitter Web App
17/10/2019 15:13	@UDDebat	UDDebat	Situation in NE #Syria Oct17 #Idlib #Russia #Assad #Turkey #E	1184955690282094599	https://pbs.twimg.com/media/EHHOpwBW			0	0	Twitter Web Client
17/10/2019 15:13	@nonnaimallbu	MAGA Wins All The Way	Rand Paul Blocks Senate Democrats' Rebuke Of Trump's Syria P	1184955688892912640	https://www.zerohedge.com/political/rand-paul-blocks-senate-rebuke-trum			0	0	Twitter Web App
17/10/2019 15:13	@katonley	Coffee Lovers Resist. 202-224-3	Those looking for a deeper justification for 45's actions against	1184955680379281409	https://twitter.com/CNNPolitics pic.twitter.com/SLjgK3g			0	1	Twitter Web App
17/10/2019 15:13	@Eye-on-Syria	Eye on Syria	#AJE Turkey's operation into Syria exposed Europe's double star	1184955581007720448	https://fr.fr/32pof25			0	0	IFTTT
17/10/2019 15:13	@MitranoforNY23	Tracy Mitrano for Congress	By voting against the House #Syria resolution yesterday, which	1184955505728356352	https://aml.ank/boj			0	1	Hootsuite Inc.
17/10/2019 15:13	@TheArabSource	Al-Masdar News	Kurdish forces block Syrian Army, Russian military from entering	1184955505728356352	https://fb.avaaz.org/campaign/en/stop_the_syria_bombs_637w5X0vfb			0	0	Twitter for iPad
17/10/2019 15:12	@NancyMcCaswell	Nancy M. Caswell	Children are being killed in Northern #Syria, women executed b	1184955458471321600	https://www.expressen.se/myheter/magda-gads-dagbok/barnet-skriker-av-e			0	0	Twitter Web App
17/10/2019 15:12	@FenMorgana	FenMorgana	#Syria The child screams in pain - the cry for help from the war	1184955352133058563	https://twitter.com/FenMorgana/status/118495485663494912			0	0	Twitter Web App
17/10/2019 15:12	@SpringsStaff	WHERE WE GO ONE WE GO ALL	#Syria #Turkey RT @BabakTaghvaei: #BREAKING: #SDF commar	1184955319358509977	https://t.me/r/The_Library_1 https://pbs.twimg.com/media/EHHGmX0v			0	0	Twitter for Android
17/10/2019 15:12	@Geronamopu	Salvar vidas no es delotro	Children are being killed in Northern #Syria, women executed b	1184955279056921778	https://fb.avaaz.org/campaign/en/stop_the_syria_bombs_637w5X0vfb			0	0	Twitter Web App

#syria OR #Kurdish -filter:retweets -filter:replies Twitter Archiver Logs Sheet1

# Tables ready for processing.

- #syria Erdogan: <http://bit.ly/35J8JO2>
- #syria Trump: <http://bit.ly/35NPgvZ>



# Digital Methods Initiative

## ASCA - University of Amsterdam



<https://wiki.digitalmethods.net/Dmi/ToolDatabase>

This tool interfaces with the API of Instagram to retrieve overviews of posts for a given set of usernames or hashtags.

As large result sets take a long time to process, for each query a limited amount of results is returned. Furthermore, up to 5 queries may be scraped simultaneously; any further queries are ignored.

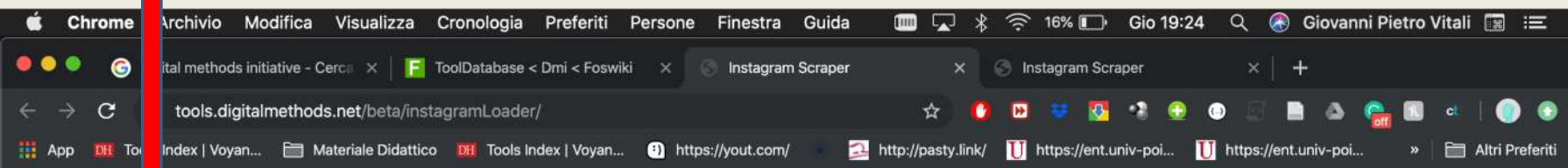
To not put too much load on the DMI server and to avoid triggering Instagram's API limits, scrapes are placed in a queue and only one scrape may run at a time. Your place in the queue will be shown to you when your scrape is first queued, and you can follow the progress in the output window.

### Limitations

The tool only scrapes posts. Stories, pinned stories or IGTV content are not included in the scrape.

### Instagram Scraper





Past Jobs **Output**

Login

## Instagram Scraper

### Input

You can scrape Instagram by username, hashtag or location. If you scrape by hashtag or location, note that results are limited to approximately 10000 photos per query. As each scrape takes a considerable amount of time, you are furthermore limited to either 25 usernames or 25 hashtags/locations - further input will be ignored.

Note that your scrapes are publicly available via the menu at the top of the page.

#### Query mode:

Hashtags

#### Posts to scrape per query (max: 10000):

10000

#### Hashtags (one per line, leading "#" is optional):

syria

#### Result file name (leave empty for default):

syria

Queue scrape

### Instagram Scraper, an Introduction

Retrieves Instagram images for hashtags, locations, or user names.

#### Process log

Your scrape was queued with job ID 5974.

Your scrape is at position 1 in the queue.

Querying: '#syria'

Your scrape was queued with job ID 5975.

Your scrape is at position 1 in the queue.

Querying: '#syria'

WARNING: Scraper reported a 500 error (Internal Server Error) while scraping '#syria'. Some images may be missing.

WARNING: Instagram complained about too many automated requests while scraping '#syria'. You may need to retry at a later time to get full results.

Scrape finished, but Instagram reported some internal errors. Results may be incomplete. You can download the error log in the results menu for closer inspection.

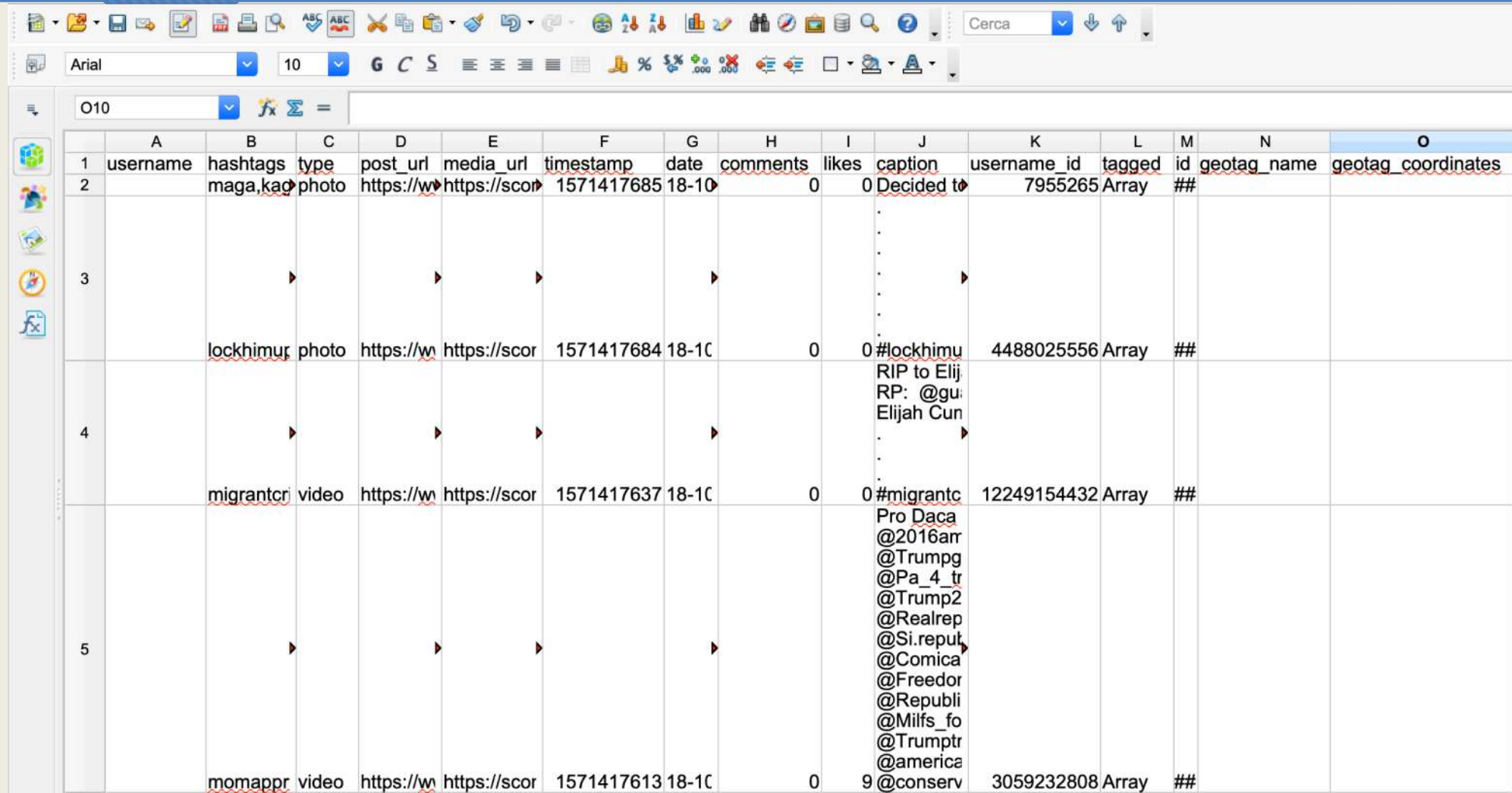
Your scrape has finished and can be downloaded via the Results menu at the top of the page.

#### Results

Results are available through the 'Output' menu at the top of this page.



# Results

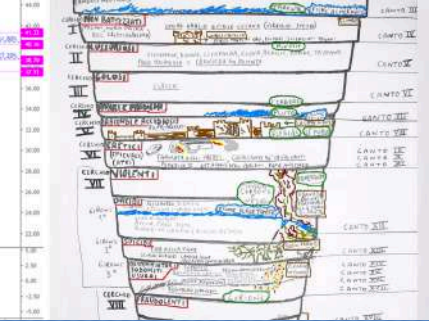


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	username	hashtags	type	post_url	media_url	timestamp	date	comments	likes	caption	username_id	tagged	id	geotag_name	geotag_coordinates
2		maga,kao	photo	https://w	https://scor	1571417685	18-10		0	0	Decided to	7955265	Array	##	
3															
		lockhimur	photo	https://w	https://scor	1571417684	18-10		0	0	#lockhimu	4488025556	Array	##	
4										RIP to Elij RP: @gu Elijah Cun					
		migrantcr	video	https://w	https://scor	1571417637	18-10		0	0	#migrantc	12249154432	Array	##	
5										Pro Daca @2016arr @Trumpg @Pa_4_tr @Trump2 @Realrep @Si.reput @Comica @Freedor @Republi @Milfs_fo @Trumptr @america					
		momappr	video	https://w	https://scor	1571417613	18-10		0	9	@conserv	3059232808	Array	##	

# For details, see <https://review.docs.microsoft.com/en-us/visualstudio/rvs/sql-server>

```
# Test code
library(RODBC)
channel <- odbcDriverConnect(dbConnection)
InputDataSet <- sqlQuery(channel, iconv(paste(readLines(
  'c:/proj/rproject1/rproject1/storedprocedure.query.sql',
  encoding = 'UTF-8', warn = FALSE), collapse = '\n'), from = 'UTF-8',
  to = 'ASCII', sub = ''))
odbcClose(channel)

OutputDataSet <- InputDataSet
```



# Social Media

# \_end

Giovanni Pietro Vitali – University College Cork

[giovannipetrovitali@gmail.com](mailto:giovannipetrovitali@gmail.com)

<https://github.com/digitalkoine>

<https://ucc-ie.academia.edu/GiovanniPietroVitali>



UCC

Coláiste na hOllscoile Corcaigh, Éire  
University College Cork, Ireland

