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Crowd4SDG

Actionable information from unconventional data sources

VisualCit social media analysis

Hands on

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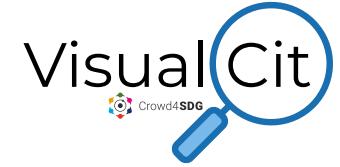


This project has received funding from the European Union's Horizon 2020
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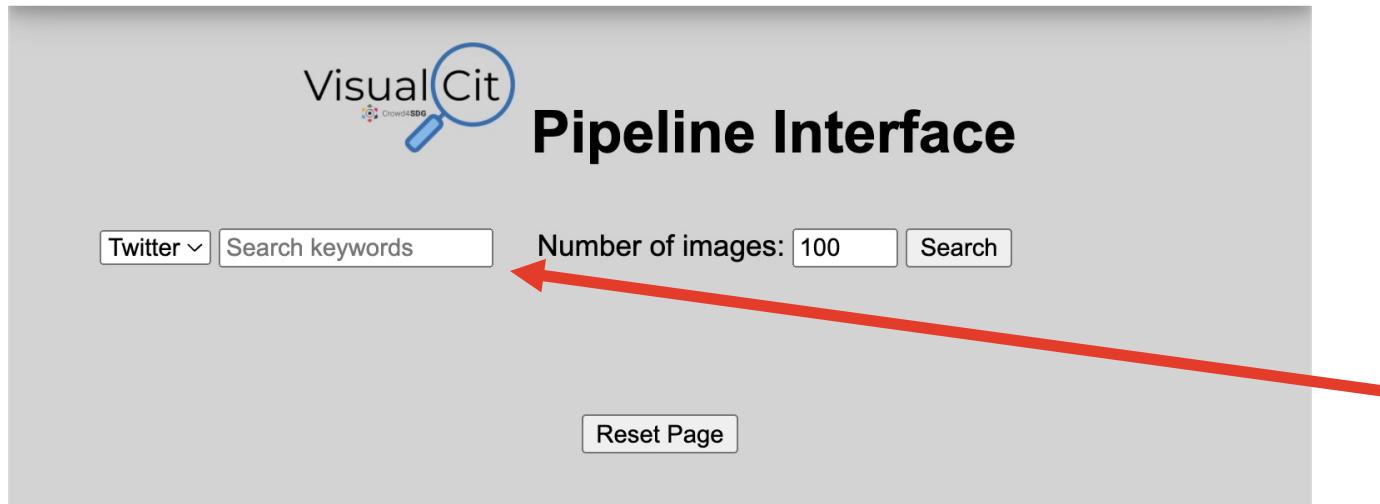
VisualCit in action!

<http://visualcit.polimi.it:7778>



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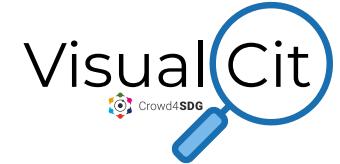


Start the
journey here...



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Let's query some term, for example «flood»



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VisualCit
Pipeline Interface

Twitter ▾ Search keywords Number of images: 100 Search

Reset Page



We can try to build a sample pipeline:

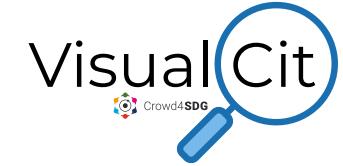
1. remove duplicates
2. remove non-photos
3. remove NSFW
4. select flooding event
5. select photos with people

Play with confidence thresholds, they are tricky!



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Let's sketch another application:

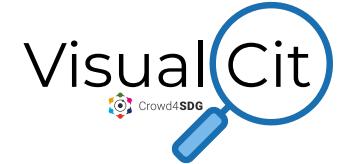
1. search for «traffic»
2. remove non-photos
3. remove duplicates
4. select outdoor photos
5. select photos with cars

... again try to play with confidences a bit!



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VisualCit can/should also be used as a web service, see for example our [Colab playground](#) (needs a Google account)

Step 2 & 3: Processing data with Crowd4SDG-VisualCit WebService

Choose an example action and send the data. A processed CSV will be sent back.

Action: Remove duplicates
Confidence: 0.90

[9] Show code

Endpoint: <http://131.175.120.2:7779/Action/API/FilterCSV>
Request: {'actions': [{'name': 'FHashDuplicator', 'confidence': 0.9}], 'column_name': 'media_url'}

Processing... Done in 21.61s

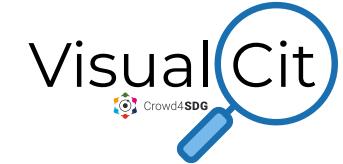
Unnamed:	id	media_url	full_text
0	0	1506747861626728457	http://pbs.twimg.com/media/FOkLMZzWUAcj483.jpg Noah said sorry for the flash flood https://t....
1	1	1506747716545749007	http://pbs.twimg.com/media/FOkKqx3XwAAKw91.jpg @Jess_Shankleman Here's a flood map of Londo...

Play is the key



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Third-party functionalities to play with



Entity extraction

<https://dandelion.eu/semantic-text/entity-extraction-demo>

Image analysis with cloud vision

<https://cloud.google.com/vision/docs/drag-and-drop>



Other tools

- To visualize/annotate files

<https://social-distancing-project.herokuapp.com/>

Load one of the example files (tweet.csv)

twitter.com/anyuser/status/1194363294397685765

- Check a single tweet

twitter.com/anyuser/status/*tweetid*

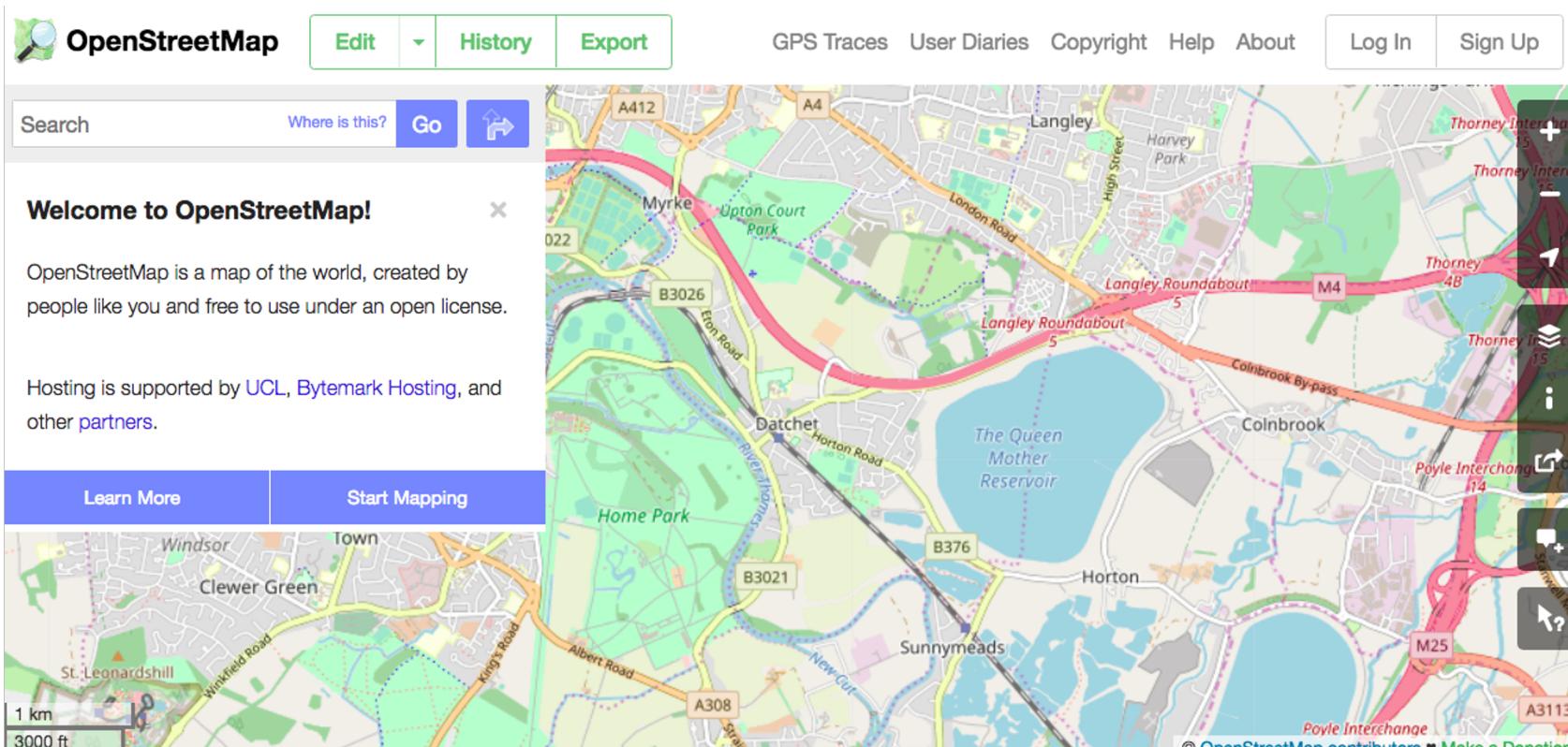
Tweetid 1194363294397685765



Other tools

Crowd4SDG

- <https://www.openstreetmap.org>





Other tools

Crowd4SDG

- <https://nominatim.openstreetmap.org>

Nominatim

Data last updated:
2018/11/11 21:30 GMT

About & Help ▾

Milan [link to this page](#)

Name

- Milán (loc_name)
- Milano (name)
- میلان (name:ar)
- Milà (name:ca)
- Milán (name:cs)
- Mailand (name:de)
- Miláđo (name:el)
- Milan (name:en)
- Milán (name:es)
- میلان (name:fa)
- Milano (name:fi)
- Milan (name:fr)
- Milan (name:fur)
- מילן (name:he)
- ミラノ (name:hi)
- Milano (name:hr)
- Milánó (name:hu)
- Milano (name:it)
- ミラノ (name:ja)
- মিলান (name:kn)
- Mediolanum (name:la)
- Mailand (name:lb)
- Milan (name:mo)
- Milanás (name:it)
- Milaan (name:nl)
- Milan (name:oc)
- Mediolan (name:pl)

A detailed map of the Milan metropolitan area and surrounding regions. The map includes labels for numerous towns and districts such as Legnano, Parabiago, Rho, Bollate, Cinisello Balsamo, Sesto San Giovanni, Carugate, Cernusco sul Naviglio, Segrate, Magenta, Settimo Milanese, Corsico, Buccinasco, Rozzano, Pieve Emanuele, and Abbiategrosso. A large blue polygon highlights the 'Parco agricolo Sud Milano'. The map also shows the Swiss border with labels for 'Schweiz/uisse/Svizzera/Svizra'. Major cities like Torino, Genova, and Firenze are indicated. The map includes zoom controls (+/-) and a compass rose.



Nominativi administrative levels

- <https://wiki.openstreetmap.org/wiki/Tag:boundary=administrative>

Italy <i>(as discussed on the Italian Mailing list Vol 16, Issue 27, Dieterdreist)</i>	N/A	per i confini regionali (en: boundary of regions)	N/A	per i confini provinciali (en: boundary of provinces)	N/A	per i confini comunali (en: boundary of municipalities)	N/A	per le circoscrizioni (dove sono rimaste) o per le località (en: boundary of districts)
Côte d'Ivoire	N/A	district (example: Lagunes) où disctrict autonome (example: Abidjan) place=state (not place=district)	region (example: Agnéby-Tiassa) place=region	département (example: Département Sikensi) place=province	sous-préfecture (example: Sous-prefecture Bingerville) place=county	commune (example: Yopougon)	village place=village	quartier
Japan <i>(copied from Japan tagging#Boundary)</i>	Reserved for state border - 道州制	Prefecture border	Sub Prefecture border (振興局・支庁 in Hokkaido)	County (郡)	Municipal border (Cities, Towns, Villages, Special wards of Tokyo)	Suburb; Wards of cities designated by government ordinance 政令指定都市 , Wards designated by local ordinance - 地域自治区	Quarter; Major Neighbourhood - 大字, (市町村配下の)町	Neighbourhood ; Minor Neighbourhood - 小字, 字, 丁, 丁目
Jordan <i>not implemented below level 4 (governorate)</i>		governorate		district	subdistrict			
Kosovo <i>(proposed/used, proposed by MarcRKS & bardhazizi)</i>	Komunat e Kosovës	Zonat Kadastrale	Lagjet	N/A	N/A	Rajonet e Kosovës	Rrafshet e Kosovës	Regionet Gjeografike e Kosovës

visualCit



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<https://pernici.faculty.polimi.it/crowd4sdgpolimi/>