

Bellingcat's Online Investigation Toolkit



Welcome to Bellingcat's freely available online open source investigation toolkit. You can follow our work on via our [website](#), [Twitter](#) and [Facebook](#). **Feel free to suggest tools not yet listed here.** This is version 3.8 (October 9, 2018). The list includes satellite and mapping services, tools for verifying photos and videos, websites to archive web pages, and much more. The list is long, and may seem daunting. There are guides at the end of the document, highlighting the methods and use of these tools in further detail. We also provide tailored digital forensics workshops. Feel free to contact me with questions or suggestions via email (christiaantriebert@bellingcat.com) or Twitter ([@trbrtc](#)).

To view an outline of the document, click "View" and then "Show document outline". The "OSINT Landscape" — a condensed version of the online investigation toolkit below — can be download in high resolution [here](#).

Maps, Satellites & Streetview				
Name	Description	Pros	Cons	Link
Baidu Maps	Baidu's mapping service offering satellite imagery, street maps, and streetview ("Panorama" - zh:百度全景).			map.baidu.com
Bing Maps	Baidu's mapping service offering satellite imagery and street maps.	More recent and higher resolution imagery than Google, e.g. in Afghanistan and Iraq.	Difficult to check the date of the imagery (this tool doesn't work anymore)	bing.com/maps
converting coordinates	Convert geographic coordinates between different notation styles.			synnatschke.de/geo-tools/coordinate-converter.php
Copernicus	The site for the European Space Agency and for images from Copernicus' six Sentinel satellites.	Better resolution than Landsat. See explanation from the website GISGeography on how to download free images.		scihub.copernicus.eu
Descartes Labs	A commercial service that collects data daily from public and commercial imagery providers.	Will help journalists. "We do not charge for these requests, only ask that they are credited." (via GIJN)		descarteslabs.com
DigitalGlobe	Satellite imagery vendor.	Preview available via the catalogue, search tool very easy to use.	\$	discover.digitalglobe.com
DualMaps	Combines Google's road maps, aerial view, and street view in one embeddable tool.			data.mashedworld.com/dualmaps/map.htm
EarthExplorer	From the US Geological Service. Provides mainly US images. Gives access to Landsat satellite data as well as NASA's Land Data Products and Services. The USGS Global Visualization Viewer (GloVis) provides remote sensing data. The USGS archive contains a complete and well-maintained collection of NASA Landsat data.			earthexplorer.usgs.gov
EOS Landviewer		EOS Landviewer provides free services for up to 10 images. More images and analysis are available to		eos.com/landviewer

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		journalists at a discount. Contact: Artem Seredyuk artem.seredyuk@eosda.com . EOS is in the process of developing a service provisionally called EOS Media that will be providing free images and analysis of major natural disasters.		
ESA Earth Online	Consolidates European Space Agency's earth observation data on topics such as temperature, agriculture, and ice sheets.			earth.esa.int/web/guest/eoli
find2places	Allows querying Google Maps API for two specific places in precise distance from each other within given radius. Useful for geolocating photos and videos.		It's a script, no user-friendly interface.	github.com/musafir-py/find2places
Geograph	Georeferenced images.			geograph.org
GeoNames	Database of location names.	A wide variety of different spellings in various languages.		geonames.org
GeoVisual Search	Search engine that lets users visually query images for similar geographic features. The platform from Descartes Labs is built on satellite imagery from Landsat, the National Agriculture Imagery Program (NAIP), and PlanetScope. Description of how to use it.			search.descarteslabs.com/?layer=naip_v2_rgb_2014-2015#lat=39.2322531&lng=-100.8544921&skipTut=true&zoom=5
Google Earth Pro		Add a Bing Maps satellite imagery layer . Historical imagery.		[software] Training guides here .
Google Earth Engine	Open-access satellite imagery and analytical framework	Virtually any satellite imagery collected from NASA, NOAA, USGS, etc. is available	Moderate and coarse resolution imagery rather than high-resolution commercial imagery; Learning curve with Javascript	earthengine.google.com/
Google Maps	Google's mapping service offering satellite imagery, street maps, and streetview.	Many 3D modelled places in Americas, Australia, Europe, N Africa, and SE Asia. Probably the easiest-to-navigate mapping service of all.	No historical satellite imagery, but historic Streetview images available in many places.	maps.google.com
Google Photos (formerly Panoramio)	Geotagged photos.		R.I.P. Panoramio.	
HERE WeGo		More recent satellite imagery than Google in e.g. Iraq.		wego.here.com

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Map checking	Calculate the amount of people that are standing in the selected Google Maps area.			mapchecking.com
Mapillary	Crowdsourced street-level photos.	A useful addition to Google Streetview.	Little to no coverage in countries like Syria, Iraq, etc.	mapillary.com
Mapotic	Map making app useful for communities, easy to make categories and attributes.			mapotic.com
NASA EarthData	WorldView allows visualization of near real-time imagery from NASA.	A wide array of satellite and aerial images; broad search criteria; and other mapping and visualization tools such as FIRMS for fires. Access to more than a dozen NASA data centres and associated satellite data products. NASA Earth Observations: More than 50 datasets on atmosphere, land, ocean, energy, environment and more.		earthdata.nasa.gov
Old Maps Online	Find old maps through numerous databases all around the world.	Easy-to-use, similar browsing as the DigitalGlobe catalogue.		oldmapsonline.org
OpenStreetCam				openstreetcam.org
OpenStreetMap				openstreetmap.org
Radiant Earth	A non-profit group that helps the global development community discover, explore and analyze satellite, drone and aerial imagery archives.	Radiant Earth is working with Code of Africa, among others. Apply to gain assistance via their website. Or contact Radiant Earth.		radiant.earth
Resource Watch	A nonprofit platform, still in beta, that provides hundreds of data sets on the state of the planet's resources and citizens. It is sponsored by the World Resources Institute and other organizations.	Resource Watch data are free and users can download data.		resourcewatch.org
Sentinel Hub Playground	A user-friendly place for Sentinel 2/Landsat images.	Updated every 5-10 days with new imagery, dependent on cloud cover. Ability to explore a variety of GIS variables eg NDVI or NDWO. The EO Browser facilitates time-lapse reviews.	Generally low resolution of 10m/px.	apps.sentinel-hub.com/sentinel-playground
TerraServer	Satellite imagery vendor.	Highest resolution available (0.3m).	\$ to preview high-resolution satellite imagery.	terraserver.com
Wikimapia	Crowdsourced information related to geographic locations.	Possibility to switch between Google/Bing/OSM. Massive amount of UCG information.	Can be laggy, and need to refresh page after a view searches. Lost Google API.	wikimapia.org

Yandex Maps				yandex.com/maps
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Geo-Based Searches				
Name	Description	Pros	Cons	Link
Animaps	Created custom animated maps.	Useful for timeline recording for investigations	Not secure, and not well developed.	http://www.animaps.com
Echosec	Geobased searches.	Twitter, VKontakte, Foursquare	\$ (doesn't list Facebook, genuine Instagram)	echosec.net
Custom Satellite View Tools	Link to allow search as well as auto-populate multimap links for address searching	Quick, easy		inteltechniques.com/osint/maps.html
GeoGig	Users are able to import raw geospatial data (currently from Shapefiles, PostGIS or SpatiaLite) into a repository where every change to the data is tracked. These changes can be viewed in a history, reverted to older versions, branched in to sandboxed areas, merged back in, and pushed to remote repositories.	Well Developed.	If you're not Linux/Github/Programming saavy, you will be doing a lot of reading from the manual.	http://geogig.org/
GeoNames	The GeoNames geographical database covers all countries and contains over eleven million placenames that are available for download free of charge	Extremely useful in Geo Tagging, documentation, and data collection.		geonames.org
Esri	powerful mapping and analytics software	Robust and full featured	Requires a level of account setup and configurations that may make some to forget it.	esri.com
Follow Your World	track your points of interest and manage your email subscription settings here.	Simple, easy to use, dashboard for tracking.		followyourworld.appspot.com/
Liveuamap	Interactive live map of conflict news.	Variety of countries available: Afghanistan , Iraq, Syria , U.S., Ukraine , Venezuela, etc.		liveuamap.com
Photo-Map.RU	Geotagged VKontakte posts.	VKontakte		photo-map.ru
SnRadar	Geotagged VKontakte posts.	VKontakte		snradar.azurewebsites.net/search

Twitter	Insert in search box: geocode:[coordinates],[radius-km], for example: geocode:36.222285,43.998233,2km (only works with km, so 500m = 0.5km)	There's a tool for it too.	Easy to fake.	
WarWire	Geo-based searches.	Twitter, VKontakte, Instagram	\$ (but does list Instagram)	warwire.net
YouTube	Geo-based searches		Unclear whether it shows where it was uploaded, from which server, or only filters on keywords (e.g. "Paris" in title shows up in Paris).	youtube.github.io/geo-search-tool/search.html

Images, Videos & Metadata					
Name	Description	Pros	Cons	Link	Guides
Exiftool	Read and manipulate metadata for a vast number of file types. Note: no GUI	Floss, Cross-platform and very easy to integrate into scripts.	Yet to encounter any (Have only used on GNU/Linux).	https://www.sno.phy.queensu.ca/~phil/exiftool/	See forum and FAQ on linked page
Foca	Extracts metadata.	Windows-based, open sourced 2017.	No native Linux support. (needs wine installed within Linux)	elevenpaths.com/labstools/foca/index.html	NullByte
FotoForensics	Image forensics tool.	Simple, web-based.	Public access, information not private.	fotoforensics.com	
GooFile	Extract metadata.	Simple to use.	Doesn't work well outside Kali	tools.kali.org/information-gathering/goofile	Ascii cinema
Image Forensics	Web-based image forensics tool.	Can easily identify fake or doctored images	Public access, information not private.	29a.ch/photo-forensics/#level-sweep	
InVID	Verification plugin to help journalists verify images and videos. Contextual data, Metadata, reverse search (Google, Yandex, Baidu), image forensic, Magnifier)			invid-project.eu (plugins for Chrome, Firefox (Windows , Mac OS X , Linux))	https://www.youtube.com/watch?v=nmgbFODPIBY
Irfanview	Extract metadata.	Windows-based	No native Linux support	irfanview.com	
Jeffrey's Image Metadata Viewer	Extract metadata, online.	Only requires a web browser.	Public access, information not private.	exif.regex.info/exif.cgi	
Reveal Image Verification Assistant	Forensic providing eight filters to detect still images alterations.	Web-based image tool. Also available within InVID verification plugin.		http://reveal-mklab.iti.gr/reveal/index.html	Documented with examples and explanations of the different filters. Developed in

					Reveal project.
reverse image search	Locates similar images on the internet	Easy, simple and works!	Recommended plugin: RevEye, which searches Google, Yandex, Baidu and Bing.	tineye.com	
SpiderPig	Extract metadata.	Command line interface and scriptable.	Requires dependencies and knowledge of web technologies.	github.com/hatlord/Spiderpig	
Splunk	Extract metadata.	Report grade analysis and presentation.	Not simple to set up and deploy.	blog.sweepatic.com/metadata-hackers-best-friend	Sweepatic.com

Social Media

Facebook

Name	Description	Pros	Cons	Link	Guides
Graph.tips/beta	Automatically advanced searches for Facebook profiles.			graph.tips/beta	
Who posted what?	Find posts on Facebook			Whopostedwhat.com	
IntelTechniques	Various tools for analyzing Facebook profiles and pages.			inteltechniques.com/menu.html	
Facebook Live Map	Live broadcasts around the world.			facebook.com/livemap	
Search Tool	Find accounts by name, email, screen name, and phone.			netbootcamp.org/facebook.html	
StalkScan	Automatic advanced searches per Facebook profile.			stalkscan.com	
Video Downloader Online	Download Facebook videos.			fbdown.net	
Skopenow	Social Media Investigations - name, phone, email, username searches.			Skopenow.com	

Instagram

Name	Description	Pros	Cons	Link	Guides
Websta	Find other locations in Instagram's			websta.me	Use direct URL with

	database near a particular location.				a location ID, e.g. websta.me/location/116231
StoriesIG	Tool for downloading Instagram stories.			storiesig.com	
Save Instagram Stories	Allows you to do a username search for stories already saved.			isdb.pw/save-instagram-stories.html	
LinkedIn					
Name	Description	Pros	Cons	Link	Guides
Socilab	Visualise and analyse your own LinkedIn network.			socilab.com	
Reddit					
Name	Description	Pros	Cons	Link	Guides
F5Bot	Sends you an email when a keyword is mentioned on Reddit.			intoli.com/blog/f5-bot/	
Snapchat					
Name	Description	Pros	Cons	Link	Guides
Snap Map	Searchable map of geotagged snaps.			map.snapchat.com	
Tumblr					
Name	Description	Pros	Cons	Link	Guides
Tumblr Originals	Find original posts per Tumblr, thus excluding reblogs.			studiomoh.com/fun/tumblr-originals	
Twitter					
Name	Description	Pros	Cons	Link	Guides
InVID verification plugin	InVID plugin provides a Twitter advanced search by time interval up to the minute.	Allows documenting use cases from the past without APIs and time limit. Allows searching for content within a user-defined time range after a breaking news.		InVID verification plugin	Automates the conversion between calendar date and Unix timestamp in Twitter advanced

					search: https://youtu.be/nmgbFODPiBY?t=4m21s
Onemilliontweetmap	Tweets map per locations up to 6 hours old, keyword search option.			onemilliontweetmap.com	
Treeverse	Chrome extension to visualise Twitter conversations.			t.co/hGvsk63Li	
Tweetreach	Find reach of tweets.		Advanced search operators available, same as Google advanced search.	tweetreach.com	
Twitter advanced search	Search by date, keywords, etc.			twitter.com/search-advanced	Many useful search features are not available from Advanced interface, e.g. https://medium.com/@preslavrachev/how-to-use-twitter-more-efficiently-with-the-se-hidden-search-features-8c80b450fab5c
Twitter geobased search	geocode:[coordinates],[radius-km], for example: geocode:36.222285,43.998233,2km	There's a tool for it too.			
Twlets	Download anyone's tweets, followers and likes in an Excel sheet.	Easy and quick to use, there's a Chrome extension too.	Goes up to 3,200 tweets, followers and likes.	twlets.com	
quarter tweets	Geobased Twitter search.			qtrtweets.com/twitter	
t	command-line power tool for Twitter (it is an open source command line script written in Ruby)	Highly flexible, can be put in Bash scripts to automate Twitter activity and searches Deeper search through REST API Output spreadsheets/CSV Fast performance for bulk operations	Set-up might be technical for some (ask if you want help)	https://github.com/sferik/t	https://github.com/sferik/t/blob/master/README.md

YouTube

Name	Description	Pros	Cons	Link	Guides
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Amnesty YouTube Dataviewer	Reverse image (video still) search and exact uploading time.		Searches for a number of stills, not each frame is included (thus results may be left out). InVID plugin is probably better at this stage.	amnestyusa.org/sites/default/custom-scripts/citizen-evidence	Advanced Guide on Verifying Video Content
Geo Search Tool	Search for YouTube videos based on location.			youtube.github.io/geo-search-tool/search.html	
youtube-dl	Python tool to download from a variety of sources.	Select video / audio formats, quality etc Updated frequently to support parsing the relevant sources	Intellect needed (read: cli usage only)	http://rg3.github.io/youtube-dl/	

Transportation					
Air					
Name	Description	Pros	Cons	Link	Guides
AirNav RadarBox	Tracking flights, including private and military jets.			radarbox24.com	
ADS-B Exchange Global Radar	Tracking flights.	Includes a number of military aircraft .		global.adsbexchange.com/VirtualRadar/desktop.html	
ADS-B Historical Flight Viewer	Look up flight history of a specific aircraft as far back as two years	Like FlightRadar24, but free		https://flight-data.adsbexchange.com/	Search by icao (a.k.a. Registration number)
FlightAware				flightaware.com	
FlightRadar24	Tracking (civilian) flights.		\$ to go back in 12-month archive.	flightradar24.com	
PlaneFinder				planefinder.net	
Federal Aviation Administration	Nationwide Plane Registry	Comprehensive list of privately owned planes in the US		http://registry.faa.gov/aircraftinquiry/NNUM_inquiry.aspx	Search by N-Number (a.k.a. Callsign)
Water					
Equasis	Vessel ownership and identification records	Lists historical information		http://www.equasis.org/	
MarineTraffic	An open, community-based project, providing (near) real-time information on the			marinetraffic.com	

	movements of ships and their locations in harbours and ports.				
VesselFinder				vesselfinder.com	
Land					
Licence Plate Mania				.licenseplatemania.com	
Trains	Full interactive maps of various railway networks in European countries.			Denmark , France , Germany , Netherlands , Poland	
Misc					
WikiRoutes	Public transport database.			wikiroutes.info	

Date & Time					
Name	Description	Pros	Cons	Link	Guides
SunCalc	Make an approximation of the time of the day using shadow direction.			suncalc.net / suncalc.org	
Wolfram Alpha	Does a load of things, including weather forecasts per day and location.			wolframalpha.com	

Individuals, Whols, IPs & Website Analysis					
Name	Description	Pros	Cons	Link	Guides
Passive DNS	Collects, stores and analyses data from thousands of passive DNS collection sensors.	Complete unadulterated historical and current DNS information.	15 API calls day, 15 searches a day.	community.riskiq.com	
Censys.io	Censys continually monitors every reachable server and device on the Internet.	A complete wealth of knowledge of internet connected devices.	None	Censys.io	
Domain Tools				domaintools.com	

DNS History	Collection of historical DNS information.	Free, simple and easy to use.	Sometimes limited in availability.	DNS History	
DNS Cyrillic check	Check if malicious or Cyrillic domains are registered	Free, simple and easy to use.		https://holdintegrity.com/checker/	
DNS Trails	The World's Largest Repository of historical DNS data	Free, simple and easy to use.		dnstrails.com	
Geo IP Tool	Check your own IP, handy to check if your VPN is working,			geoiptool.com	
Shodan	Internet of things search engine.	Can find heaps of misconfigured network-connected devices.	Lives in the gray zone...	shodan.io	

- [Network-Tools](#)
- [Open Site Explorer](#)
- **People search**
 - [Aggregated list of over 200 people search and data broker sites, reverse phone look ups, and other search tools with opt-out links.](#)
 - **Peekyou**, <peekyou.com>
 - **Pipl**, the world largest people search engine, find persons behind an e-mail address, social media username, or phone number, <pipl.com>
 - **Yasni**, <yasni.com>
 - **Zaba Search**, only US, <zabasearch.com>
 - <publicrecords.searchsystems.net>
 - <cemetery.canadagenweb.org/search.html>
 - <opencorporates.com>
 - www.numberway.com/ - a list of URLs to local White Pages and Yellow Pages, with the description in English. Useful in finding people and companies.
- [Robtex](#)
- [Search IRC](#)
- [Shodan Computer Search](#)
- [Utrace](#)
- [ViewDNS](#)
- **DNS Historical Data**, <research.dnstrails.com>
- **SpyOnWeb**, to retrieve websites by their Tracking codes, <spyonweb.com>
- **Whois**, for domain search and information, <whois.net> or <whois.icann.org>

Archiving, Downloading & Internet Storage

Name	Description	Pros	Cons	Link	Guides
Archive.is	Archive any webpage.			Archive.is	
DMCA	Search takedown notices			lumendatabase.org	

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Gruber	Slideshare downloader			http://grub.cballenar.me/	
Hunch.ly	Research sidekick.	Automates the collection of all sites visited	\$\$\$	hunch.ly	
Wayback Machine	Archives websites. Download an entire website from the Wayback Machine.		Does not always include images from web pages or multimedia content	github.com/hartator/wayback-machine-downloader	
Wayback Machine for Github	Finds and searches when and who did what!	Easy terminal interface.	Nil cons.	github.com/MadRabbit/git-wayback-machine	
Gitrob	Reconnaissance tool for GitHub organizations	Easy, free and open source.	Nil cons.	github.com/michenriksen/gitrob	
Dumpster Diver	Tool to search for secrets in various file types.	Easy, free and open source.	Nil cons.	github.com/securing/DumpsterDiver	
TruffleHog	Searches through git repositories for high entropy strings and secrets, digging deep into commit history	Easy, free and open source.	Nil cons.	github.com/dxa4481/truffleHog	
Stone	A "research transparency" app that captures desktop research using screen capture and webcam commentaries..	Free, "twitch for journalists" Audio and video files can also be directly uploaded from	Beta	writeinstone.com	

Miscellaneous

Name	Description	Pros	Cons	Link	Guides
BlockExplorer	Following a bitcoin trail or following a bitcoin account?			https://blockexplorer.com	
Check	Collaborative fact-checking.			checkmedia.org	User guide , Bellingcat's Check team
Document Redaction	Useful for removing potentially harmful content in Pdfs before viewing, like traceback.			github.com/firstlookmedia/pdf-redact-tools	
Etherscan	Tracking transactions & finding a cryptowallet each based on the ETH blockchain.			etherscan.io	

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Google Search Operators	Such as searching for a specific filetype (e.g. PDF) or on a specific website.			googleguide.com/advanced_operators_reference.html	
Insecam	Network live IP video cameras directory.			insecam.org/en/	
LittleSis	Database of who-knows-who at the heights of business and government.			littlesis.org	
Lumen	Collects and analyses legal complaints and requests for removal of online materials, helping Internet users to know their rights and understand the law. This data enables us to study the prevalence of legal threats and let Internet users see the source of content removals.			lumendatabase.org	
Maltego	Interactive data mining tool that renders directed graphs for link analysis.	Used in online investigations for finding relationships between pieces of information from various sources located on the Internet.	There is a free version but full version costs \$	paterva.com/web7	
Montage	For collaborative working.			montage.storyful.com	
Malicious URL Tester	Testing unknown URLs			safeweb.norton.com	
OpenCorporates	Database of companies in the world.			opencorporates.com	
TimelineJS by Knight Lab	Make an interactive timeline of events.			timeline.knightlab.com	
Visual timeline creator		Free and easy to use		time.graphics/editor	
Unknown Hash ID	On investigation, if you come across a hash but don't know what it is (and warrants further investigation) this will identify the type.			onlinehashcrack.com/hash-identification.php	
Visual Investigative Scenarios (VIS)				vis.occrp.org	
Zoopla	Search for a property with the UK's leading resource. Browse houses and flats for sale and to			zoopla.co.uk	

	rent, and find estate agents in any area.				
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Guides & Handbooks

- **American Press Institute Fact-Checking Resources**, americanpressinstitute.org/training-tools/fact-checking-resource
- **Bellingcat's resources**, www.bellingcat.com/category/resources/how-tos, for example:
- **Exposing the Invisible**, a project by the Tactical Tech Collective, exposingtheinvisible.org
 - Includes multiple guides (website data scraping, Google Dorking etc.), resource links, and examples of successful investigations in various fields
- **First Draft News' resources**, some of which have been written by Bellingcat members, firstdraftnews.com/resources, for example:
 - [How to Get Started in Online Investigations](https://firstdraftnews.com/resources/how-to-get-started-in-online-investigations)
- **Flash Environmental Assessment Tool**, for identifying harmful substances and their effect on the environment after industry has been destroyed: https://docs.unocha.org/sites/dms/Documents/FEAT_Version_1.1.pdf
- **Poynter**, fact-checking how-to guides, factcheckingday.com/#how-to
- **Poynter**, fact-checkers code of principles, poynter.org/fact-checkers-code-of-principles
- **Verification Handbook** (PDF) is a great place to go to find tools to verify digital information, verificationhandbook.com
- **Washington Post**, guide, [washingtonpost.com/news/fact-checker](https://www.washingtonpost.com/news/fact-checker/)
- **Washington Post**, fact-checker tool, [washingtonpost.com/news/fact-checker](https://www.washingtonpost.com/news/fact-checker/)
- **WITNESS**
 - [Activists' Guide to Archiving Video](https://www.witness-evidence.com/activists-guide-to-archiving-video)
 - [Video As Evidence: Verifying Eyewitness Video](https://www.witness-evidence.com/video-as-evidence-verifying-eyewitness-video)

WEAPONS

- An open guide called "**Itrace**" by Conflict Armament Research, lots of information on different kinds of munitions and weapons presented graphically on a map format, itrace.conflictarm.com

Data Visualisation					
Name	Description	Pros	Cons	Link	Guides
DataBasic.io	Web tools for beginners that introduce concepts of working with data			databasic.io/en	

DataWrapper	Easy to use chart and mapping tool			datawrapper.de	
Google Fusion Tables				fusiontables.google.com	
Maptia				maptia.com	
Visual investigative scenarios				vis.occrp.org	
RAWGraphs	Free webtool to quickly visualize your data			app.rawgraphs.io	
Open Desktop Semantic Search		Searches unstructured data well		opensematicsearch.org/doc/desktop_search	
TrustServista	Online story verification and visualisation tool			www.trustservista.com	
Neo4j	Graph Platform			neo4j.com	

Online Security & Privacy					
Name	Description	Pros	Cons	Link	Guides
Two Factor Auth (2FA)	Check for every digital service you use whether you have enabled two-factor authentication (2FA)			twofactorauth.org	
Security in a Box	Security in a box guide advice on how to use social media and mobile phones more safely. The Tool Guides offer step-by-step instructions to help you install, configure and use some essential digital security software and services			securityinabox.org/en/	
Tech Solidarity	Basic Security Guide, do and don'ts for basic security when using a laptop and/or mobile device			techsolidarity.org/	techsolidarity.org/resources/basic_security.htm

SEARCH ENGINES WHICH PROTECT PRIVACY

- **DuckDuckGo**, Internet search engine, protecting privacy, duckduckgo.com
- **StartPage**, Internet search engine, protecting privacy, startpage.com
- **Qwant**, Internet search engine, protecting privacy, qwant.com

Sources per Country				
Iraq				
Name	Description	Pros	Cons	Links
Provinces of the so-called Islamic State				umap.openstreetmap.fr
Syria				
Name	Description	Pros	Cons	Links
Maps				lib.utexas.edu/maps/syria.html
Opposition media	See this excellent list compiled by Noor Nahas of multimedia sources from Syrian opposition groups,			reddit.com
Provinces of the so-called Islamic State,				umap.openstreetmap.fr

Company Registries

- **French SIRENE**, provided by [Investigative Dashboard](https://data.occrp.org/entities?filter:dataset=fr_sirene), a queryable version of the french RCS (Business registry), with OpenRefine reconciliation tool. https://data.occrp.org/entities?filter:dataset=fr_sirene
- In France, <https://www.societe.com/>
- **Business registries in Europe**, on the European e-Justice portal, links to the national business registry of each EU member. https://e-justice.europa.eu/content_business_registers_in_member_states-106-en.do
- Portugal, <https://publicacoes.mj.pt/DetalhePublicacao.aspx>
- For the UK, which covers Gibraltar as well, Companies House <https://beta.companieshouse.gov.uk>

- <https://opencorporates.com/>
- <https://data.occrp.org/>
- <https://public.enigma.com>

<https://challenge.burnerapp.com/>

Expert/Source Tools					
Name	Description	Pros	Cons	Link	Guides
Expertise Finder	Search engine for journalists to find experts (currently only academics in USA and Canada), contact information on page, no login, 30k experts listed			http://expertisefinder.com/	
Expert Guide	Academics open to media in Australia:		Australia only.	http://www.expertguide.com.au/	
Help a Reporter Out	Post a query and experts reply, mainly the USA and Canada, quality of replies is hit or miss			https://www.helpareporter.com/	
She Source	Female experts, mainly USA.			http://www.womensmediacenter.com/shesource/	
Speakezee	Academics and those with PhDs, mainly UK:			https://www.speakezee.org	
Expert File	A mix of experts, mainly USA and Canada:			https://expertfile.com	

- <https://www.numberway.com/> - a list of URLs to local White Pages and Yellow Pages, with the description in English. Useful in finding people and companies (I've already placed it in the google doc)

- <https://socialbearing.com/> - lots of Twitter statistics (mostly useful or comparative materials/reports).

Paint.net

bellingcat

Namechk.com

Toolset

<https://start.me/p/ZGAzN7/verification-toolset>

Very good for identifying online accounts with a username. Simply plug the username in and this tool will identify where there are users using that name.