

# Resources / Tools

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CATEGORY	DESCRIPTION	NUMBER OF TOOLS
Data	DATA JOURNALISM, DATABASES, DATA PROTECTION TOOLS	19

## DATA JOURNALISM

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1. Data Journalists' Tools for the Future	Journalists look at how data journalism has evolved throughout the years and the new, sophisticated tools to analyze troves of data.
2. DataJournalism	

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DataJournalism.com offers a number of courses in data journalism, such as “Fundamental search for journalists,” “Python for journalists,” “Going viral with social media analytics” and many others.

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### 3. Instant Data Scraper

Instant Data Scraper extracts data from web pages and exports it as Excel or CSV files. Instant Data Scraper is an automated data extraction tool for any website. It uses AI to predict which data is most relevant on a HTML page and allows saving it to Excel or CSV file (XLS, XLSX, CSV).

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### 4. Mr. Data Converter

Convert your Excel data into one of several web-friendly formats, including HTML, JSON and XML.

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### 5. OpenRefine

Open source tool to clean data.

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### 6. R for Journalists

R for Journalism will help you to learn how to use the statistical computing and graphics language R to enhance your data analysis and reporting process.

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### 7. Tabula

Scraper for pulling tables out of PDFs

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### 8. Two tone

Free data sonification tool by Google News Initiative.

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## DATA PROTECTION

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### 1. Data Detox Kit

Detox your data.

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### 2. Ghostery

Ghostery helps you browse smarter by giving you control over ads and tracking technologies to speed up page loads, eliminate clutter, and protect your data.

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### 3. Jungle Disk

Jungle Disk provides automatic data backup, password management and security awareness training.

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### 4. Keybase

Keybase is a key directory that maps social media identities to encryption keys (including, but not limited to PGP keys) in a publicly auditable manner. Additionally it offers an end-to-end encrypted chat and cloud storage system

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### 5. Let's Encrypt

Let's Encrypt is a free, automated, and open Certificate Authority.

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### 6. Mailvelope

The browser extension Mailvelope provides end-to-end encryption for your existing email address.

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### 7. My Data Done Right

My Data Done Right helps you generate, send, and keep track of your requests in order to access, remove, correct, or move your personal data.

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### 8. Tresorit

Tresorit is the ultra-secure place in the cloud to store, sync and share files easily from anywhere, anytime.

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## DATABASES

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### 1. Databasic

Building a data culture in your organisation

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### 2. OCCRP

The "Database of Databases" for international public records searches.

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### 3. The Reuters Hot List

This is the Reuters list of the world's top climate scientists. To build it, we created a system of

identifying and ranking 1,000 climate academics according to how influential they are.

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## Find people & businesses

### SEARCH TOOLS AND ARCHIVES

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#### ARCHIVES

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##### 1. Archive.fo

Archive live urls in case they change, saved publicly for all to see, or search for urls others are saving.

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##### 2. Archive.org

Web archive for checking deleted or amended websites.

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#### CORPATE INFORMATION TOOLS

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##### 1. Arachnys

Financial reporting data tool.

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##### 2. Bloomberg

Finding business information.

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##### 3. Companies House

Finding archived business information.

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##### 4. Investigative DashBoard

A place to make international research requests for journalists.

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##### 5. Open corporates

Tool for finding business information.

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##### 6. Stansa

Collaborative production platform.

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## FINDING PEOPLE

1. 192	Finding people's addresses and sometimes phone numbers, based on where they were registered to vote.
2. Ancestry	Find people's relations.
3. ContactOut	Finding anyone's email or phone number, from LinkedIn.
4. LinkedIn	Finding people that used to work at a company, to approach as a source.
5. Pipl	Finding data on people when all else fails, aggregated information.

Geo &  
Chrono  
location

OPEN SOURCE SATELLITE AND  
MAPPING SERVICES

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## LOCATION BASED SEARCHES

1. Insta tool name	Insta tool description
2. Insta tool name	Insta tool description

## MAPS, SATELLITES & STREETVIEW

## 1. Baidu Maps

Baidu Maps is a desktop and mobile web mapping service application, offering satellite imagery, street maps, street view and indoor view perspectives

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## 2. Bing Maps

Bing offers more recent and higher resolution imagery than Google, e.g. in Afghanistan and Iraq.

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## 3. Coordinate converter

Geographic Tools; Coordinate Conversion / Datum Transformation

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## 4. Copernicus

Better resolution than Landsat

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## 5. Descartes Labs

Descartes Labs is using its data refinery for satellite imagery. They are currently processing images from the major NASA and ESA satellite constellations. They do not charge journalists

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## 6. Digital Globe

Satellite imagery, derived data, and space infrastructure.

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## 7. Dual Maps

Dual Maps combine synchronised Google Maps, Aerial Imagery and Google Street View into one embeddable control.

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## 8. EOS Landviewer

EOS Landviewer provides free services for up to 10 images. More images and analysis are available to journalists at a discount.

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## 9. ESA Earth Online

The web portal provides a vast amount of content, grown and collected over more than a decade: Detailed technical information on Earth Observation (EO) missions; Satellites and sensors; EO data products & services; Online resources such as catalogues and library; Applications of satellite data; Access to promotional satellite imagery.

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## 10. ESA SNAP

The Sentinel Applications Platform (SNAP) is a data analysis framework ideal for the exploitation of Earth Observation data.

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### 11. Earth Explorer

The EarthExplorer (EE) user interface is an online search, discovery, and ordering tool developed by the United States Geological Survey (USGS).

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### 12. GIJN resources

Here you can find resources for finding and using satellite images.

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### 13. GeoNames

A wide variety of different spellings in various languages. Draws upon many sources, including NGA's Geonames.

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### 14. GeoVisual Search

GeoVisual Search works on two different imagery catalogues, showcasing multiple resolutions, and national and global scale search.

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### 15. Geograph

Geograph is a concept and open source code for an online website to create a comprehensive collection of photographs capturing every part of given region.

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### 16. Google Earth Engine

Virtually any satellite imagery collected from NASA, NOAA, USGS, etc. is available.

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### 17. Google Earth Pro

Add a Bing Maps satellite imagery layer. Historical imagery.

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### 18. Google Maps

3D modelled places in the Americas, Australia, Europe, North Africa, and SE Asia.

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### 19. HERE WeGo

Here WeGo is a web mapping and navigation service.

20. IndustryAbout	Database of industrial facilities.
21. Map checking	Map checking provides more recent satellite imagery than Google in, e.g. Iraq.
22. Mapillary	Mapillary is the street-level imagery platform that uses computer vision to fix the world's maps. With computer vision, Mapillary connects images across time and space to create immersive street-level views and extract map data.
23. Mapotic	Mapotic is a mapping platform.
24. NASA EarthData	
25. Old Maps Online	Old Maps Online are a useful addition to Google Streetview.
26. OpenStreetCam	OpenStreetCam is a project to collect crowdsourced street-level photographs
27. OpenStreetMap	A wide array of satellite and aerial images; broad search criteria; and other mapping and visualisation 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.
28. StoryMap	Mapping stories across a geography
29. find2places	Allows querying Google Maps API for two specific places in precise distance from each



other within a given radius. Useful for geolocating from photographs.

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## Handbooks & Tips

### HANDBOOKS, COURSES AND TIPS FOR REPORTERS

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#### COURSES

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<b>1. Collaborative Journalism Handbook</b>	This set of guides and workbooks is designed to help newsrooms design and manage collaborative journalism projects.
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<b>2. Coronanewsroom</b>	Coronanewsroom offers stories, webinars, lesson and guide on how to run a newsroom in the time of COVID-19.
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<b>3. Digital Journalism Courses</b>	Free digital journalism courses with mixed media lessons, concise tip-sheets and practical exercises.
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<b>4. EJC Video</b>	EJC's video courses
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<b>5. FINDING: MODI – Find Where &amp; When a Photo Was Taken (Geolocation &amp; Chronolocation)</b>	This tutorial covers how to geolocate an image (find where it was taken on a map), and then chronolocate the image (identify the time, using shadows visible in the image).
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<b>6. Free Digital Skills Courses</b>	Free digital skills courses for all levels.
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**7. Fundamental Search for Journalists** In this course we're going through some of the tips and tricks on how to make your own research faster and more accurate using Google's tools. We will go from advanced search through to verification, touching upon visualisation and finishing up with Geo mapping tools to help you tell your stories in a beautiful, interactive way online.

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**8. Global Muckraking: Investigative Journalism and Global Media** This course is a fast-paced introduction to global muckraking, past and present, and includes penetrating interviews with historians and investigative journalists.

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**9. Google News Initiative Courses** It provides various courses for journalists, verification and vital tools such as Google Search, Scholar, Trends, and much, much more.

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**10. Introduction to Data for Business Leaders** A leadership course that goes beyond the hype surrounding data by focusing on the practicalities of achieving business outcomes.

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**11. Introduction to Machine Learning** This course will introduce you to the potential of machine learning and help you reflect on how you can use it responsibly to enhance your journalism.

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**12. Journalist's Toolbox: Scraping Data from Web Pages** Learn how to scrape data off web pages.

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**13. Online Course on Mobile Journalism** The course is open for journalists or media professionals from the Western Balkans who are interested in using their mobile phone for complete production of powerful journalistic stories. The self-paced online courses are available in three languages – Macedonian, Bosnian/Serbian and Albanian.

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**14. Online Harassment:** This resource page features course content from the Knight Center for Journalism in the

## Strategies for Journalists' Defense

America's massive open online course (MOOC) titled "Online Harassment: Strategies for Journalists' Defense."

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## 15. Protecting Health Data in the Modern Age: Getting to Grips with the GDPR

Learn how the GDPR helps to protect health data and get familiar with rights, obligations, risks and safeguards.

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## 16. The BBC's Introduction to Podcastology

In this Podcastology series you'll get to know: how to produce a successful podcast; how to develop an audience; and how to promote your podcasts.

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## 17. The GNI Digital Growth Programme

The GNI Digital Growth Program has been designed with industry experts and news publishers across the world to help small and medium sized news organizations grow their digital businesses, through a range of free playbooks, interactive exercises, digital workshops and labs.

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## 18. Totem

Totem is an online learning platform that offers educational courses about digital security and privacy, and related tools and tactics for journalists, activists and human rights defenders in a safe, online classroom environment.

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## 19. Tutorials & Tech Support Guides

Tutorials on basic computer concepts, spyware removal, security, software, and operating systems.

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## HANDBOOKS

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## 1. COVID Links

Collection of links to resources, tools, data, and knowledge to support COVID analysis.

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## 2. Coronavirus Tech Handbook

A crowdsourced resource for technologists building things related to the coronavirus outbreak.

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## 3. Coronavirus: Resources for Reporters

First Draft's resource hub has created and collected guidance to support accurate and responsible reporting on coronavirus, which will be regularly updated with new information.

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## 4. Digital Helpdesk of Digital Security for Journalists RSF

## 5. EJC Handbook

EJC's Data Journalism Handbook

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## 6. GIJN Asset

Asset Disclosure

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## 7. GIJN Supply Chains

Supply Chains

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## 8. GIJN Tracking Ships

Maritime Shipping

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## 9. GIJN's Global Guide to Freedom of Information: Resources

National, regional and international sites filled with advice and information, as well as governmental and nongovernmental sites that facilitate the filing of requests online.

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## 10. GIJN's Guide for Investigating Health and Medicine

A comprehensive guide for understanding health care, evidence-based medicine, clinical trials & handling medical experts & their testimonies.

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## 11. Investigative Reporters and Editors Resource Hub

The IRE Resource Center is a major research library containing more than 25,000 investigative stories, as well as more than 3,500 tipsheets from our national conferences, Watchdog Workshops, and on-the-road training on how to cover specific beats or do specific stories.

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<b>12. Journo Code</b>	Data journalism dictionary
<b>13. KUNFU.AI</b>	Tracking Coronavirus Disinformation on Twitter
<b>14. Local News Lab Focus Groups</b>	Focus Groups guide
<b>15. Local News Lab Newsletters</b>	Newsletters guide
<b>16. Membership Puzzle Project &amp; Tow Center Audience Revenue Glossary</b>	Membership Puzzle Project & Tow Center audience revenue glossary
<b>17. News Nerderly</b>	Media technology resources
<b>18. Press Freedom Police Codex</b>	These are important guidelines on how the police should interact with journalists. Also, the tool offers overview on recent projects, education programs, information sources and dialogue settings to improve the relationship of police and press.
<b>19. Reporter's Guide to Investigating Organized Crime</b>	From money laundering to human trafficking, GJJN's guide tells you everything you need to know about investigating organised crime.
<b>20. Researching Government Contracts for COVID- 19 Spending</b>	As countries rapidly spend billions of dollars to fight the coronavirus pandemic, digging into government contracts is taking on a new urgency.
<b>21. Resources: Guides to Finding</b>	Here are six services with functioning, reliable databases used by journalists searching for

**22. Safety of Female Journalists Online: A #SOFJO Resource Guide**

The safety of women journalists online directly affects the quality of our democracies and the right of society to access a plurality of information. This #SOFJO Resource Guide responds to the gaps that exist in addressing the safety of women journalists online.

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**23. Solutions Story Tracker**

The Solutions Story Tracker® is a curated database of rigorous reporting on responses to social problems.

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**24. Tools for Investigating Coronavirus Fakes and Disinfo**

Bellingcat presents a wide array of tools and guides to conduct online investigations during this difficult time.

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**25. Types, Sources, and Claims of COVID-19 Misinformation**

In this factsheet we identify some of the main types, sources, and claims of COVID-19 misinformation seen so far.

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**26. Verification Handbook**

This book equips journalists with the knowledge to investigate social media accounts, bots, private messaging apps, information operations, deep fakes, as well as other forms of disinformation and media manipulation.

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**TIPS**

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**1. 4 Tips for Navigating the COVID-19 Infodemic**

How best to deal with falsehoods and misinformation during this pandemic is one of many difficult tasks facing journalists and publishers.

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**2. 5 Tips for Journalists Working with Whistleblowers**

Here are some tips to help guide and inform journalists who are working with whistleblowers.

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### **3. 6 Must-Know Hacks for Investigative Journalists**

These tips can help journalists be more effective in their investigations.

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### **4. 6 Tips for Using Open Source Tools When Reporting from Home**

The use of open source tools, user-generated content (UGC), and advanced search filters has allowed reporters to break major stories on the COVID-19 pandemic from home quarantine.

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### **5. COVID-19: Expert Advice on Investigative Angles**

GIJN asked leading journalists in our global community — including experts in investigating disinformation, supply chains, and open source tools — for their advice to fellow reporters on what we should be scrutinizing during the outbreak.

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### **6. CPJ Safety Advisory: Covering the Coronavirus Outbreak**

Safety tips for journalists who are planning to cover the COVID-19 outbreak.

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### **7. Covering Coronavirus: Privacy and Security Tips for Journalists**

Insights from First Draft's session on best practices and good habits to protect yourself during online investigations into coronavirus misinformation

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### **8. Creators' Tips for Launching a Podcast**

If you are considering starting your own podcast, but don't know where to begin, here are some tips.

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### **9. Cybersecurity Toolkit**

Use this toolkit when you have problems accessing your data/account/device, when someone impersonates you, or intercepts your communication. It also offers a platform to learn about cybersecurity more generally.

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## 10. Digital Security Do's and Don'ts for Journalists

Tips and tools that journalists can use to protect themselves, their data and their story.

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## 11. Disinformation Toolkit

The application provides step-by-step guidelines to using online tools for identifying misinformation in the Western Balkans. It is especially useful for journalists who encounter suspicious content on a daily basis in their work.

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## 12. Enhance Your News Editing Skills

These ten tips will help you improve your news editing skills.

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## 13. Hackastory Tools

A handpicked list of tools and resources to help you build your digital story.

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## 14. How Journalists Can Work from Home Securely

Cybersecurity tips for reporters working remotely in the time of COVID-19

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## 15. Interview Tips for Journalists

5 interview tips every journalist needs

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## 16. Investigating Sexual Abuse: Reporting Tips and Tools

This guide is based on tips and techniques drawn from a November 2020 GIJN webinar, Investigating Sexual Abuse, and augmented by a GIJN Resource Center search of relevant case studies, useful organizations, and guides.

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## 17. Investigative Photography: Supporting a Story with Images

Useful tips for photographing documents, storing images, and recovering lost information.

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## 18. Mental Health Tips and Resources for Journalists

Journalists are often on the frontlines of some of the world's most challenging events, from crime scenes and road accidents to natural disasters and wars. Now, journalists around the world are working overtime to cover the COVID-19 pandemic.

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## 19. Systems Thinking for Journalists

A toolkit for reporting on complex problems.

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## 20. The Journalism Security Assessment Tool

JSAT is a free, survey-based self-assessment tool that offers practical solutions tailored to each newsroom's profile and vulnerabilities. The survey takes about an hour to complete, and is followed by an instant diagnosis of an organization's digital and physical security and resilience.

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## 21. VPN Comparison

VPN Comparison is meant to be a resource to those who value their privacy, specifically those looking for information on VPNs (that isn't disguised advertising).

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# Image & Video

## IMAGE AND VIDEO SEARCH AND VERIFICATION TOOLS

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## IMAGE AND VIDEO TOOLS

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### 1. Advanced Multimedia Storytelling Tools

An extensive dashboard listing mostly-free tools for data visualization and visual storytelling.

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2. Auto edit	Fast text-based video editing.
3. ExifPurge	EXIF Purge is a small portable application to remove EXIF metadata from multiple images at once.
4. ExifTool	Read, write, remove, and manipulate metadata for a vast number of file types.
5. Foca	Extracts metadata.
6. FotoForensics	Image forensics tool.
7. GooFile	Extract metadata.
8. Image Forensics	Web-based image forensics tool.
9. InVID	Verification plugin to help journalists verify images and videos.
10. Irfanview	Extract metadata.
11. Jeffrey's Image Metadata Viewer	Extract metadata, online.
12. Planet	Planet is an explorer portal where anyone can download imagery of the tropics for environmental monitoring.
13. Reveal Image Verification Assistant	Forensic providing eight filters to detect still images alterations.
14. Reverse image search	Locates similar images on the internet.

15. SpiderPig Extract metadata.

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16. Splunk Extract metadata.

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17. Tin Eye Reverse image search.

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18. VGG Face Finder (VFF) Engine VFF is a web application that serves as a web engine to perform searches for faces over an user-defined image dataset.

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19. VGG Image Classification (VIC) Engine VIC is a web application that serves as a web engine to perform image classification queries over an user-defined image dataset.

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20. VGG Image Search Engine (VISE) This standalone application can be used to do a reverse image search on a large collection of images.

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Making  
projects  
easier

## FUNDRAISING AND COLLABORATION TOOLS

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## COLLABORATION TOOLS

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1. Asana Asana is a web and mobile application designed to help teams organize, track, and manage their work.

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2. COVID-19 Collaboration Wire This platform helps connect editors with journalists all over the world ready to fact-check, research and report from their regions.

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### 3. Deskle

Deskle is a collaboration tool for distributed teams, where participants see each other's actions in real-time. It is also a tool for online collaborations and project management.

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### 4. Evernote

Evernote is an app designed for note taking, organizing, task management, and archiving.

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### 5. Facet project

Collaborative production platform.

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### 6. Filestage

Filestage gives teams the easy way to manage the content review process.

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### 7. Slack

Slack is a cloud-based proprietary instant messaging platform.

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### 8. Streak

Manage any workflow from your inbox.

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## FUNDRAISING

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### 1. Best Practices for Making Investigative Journalism Sustainable

Learn more about the four ways that journalism organizations can make money.

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### 2. Crowdfunding for Journalists

Tips for crowdfunding, global and regional crowdfunding sites, tutorials, free tools for campaigns.

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### 3. Local news lab

Crowdfunding guide.

## FACEBOOK

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**1. Digital Democracy Monitor** Recent cases have exposed the risks of democratic discourse manipulation on social media. There is still too little evidence of how disinformation, hate speech, bots and others influence the online debate. The Digital Democracy Monitor Toolkit helps civil society, journalists, researchers and anyone trying to research social media and democracy. Use this toolkit to get started with your own monitoring.

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**2. FBDOWN.net** Download public Facebook videos. Copy-paste the URL of the video and download it in the available definition formats.

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**3. Facebook Intersect Search Tool** This tool is designed to provide a simple method to conduct Facebook intersect searches across multiple variables. Missing intersect options are due to Facebook limitations.

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**4. Facebook Live Map** Live broadcasts around the world.

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**5. PeopleFindThor** Graph searches.

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**6. Search Is Back!** Graph searches.

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**7. Search Tool** Find accounts by name, email, screen name, and phone.

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**8. SkopeNow** Social Media Investigations - name, phone, email, username searches.

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## 9. Social Media Resources

Tools for social media graphics, video, scraping, analytics and much more.

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### 10. Stalk Scan

Advanced searches per Facebook profile.

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### 11. Video Downloader Online

Download Facebook videos.

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### 12. Who posted what?

Find posts on Facebook.

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## INSTAGRAM

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### 1. Gramfly

View interactions and activity of Instagram users.

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### 2. PicoDash

Search Instagram and Twitter

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### 3. Save Instagram Stories

Allows you to do a username search for stories already saved.

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### 4. StoriesIG

Tool for downloading Instagram stories.

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### 5. Websta

Find other locations in Instagram's database near a particular site.

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## LINKEDIN

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### 1. LinkedIn Overlay Remover

Removes the overlay that displays over a LinkedIn profile.

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### 2. Socilab

Visualise and analyse your own LinkedIn network.

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## REDDIT

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## 1. F5Bot

Sends you an email when a keyword is mentioned on Reddit.

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## SKYPE

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### 1. Skype

Skype directory for finding and contacting people.

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## SNAPCHAT

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### 1. Snap Map

Searchable map of geotagged snaps.

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## TWITTER

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### 3. Bot Sentinel

A free platform developed to automatically detect political trollbots and untrustworthy accounts.

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### 4. Botcheck

Web extension that is checking for bots.

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### 5. Botometer

Checks the activity of a Twitter account and gives it a score based on how likely the account is to be a bot.

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### 6. InVID verification plugin

InVID plugin provides a Twitter advanced search by time interval up to the minute.

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### 7. Moz

Linking social media users together to find sources

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<b>8. One Million Tweet Map</b>	A tool that you can use to visualise tweets and aggregated Twitter data on a world map.
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<b>9. Quarter tweets</b>	Geobased Twitter search.
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<b>10. T</b>	A command-line power tool for Twitter (it is an open-source command-line script written in Ruby)
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<b>11. Treeverse</b>	Chrome extension to visualise Twitter conversations.
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<b>12. TweetReach</b>	Find reach of tweets.
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<b>13. Twint</b>	Advanced Twitter scraping tool written in Python that doesn't use Twitter's API, allowing you to scrape a user's followers, following, Tweets and more while evading most API limitations.
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<b>14. Twitter advanced search</b>	Search by date, keywords, etc.
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<b>15. TwitterAudit</b>	Check bots.
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<b>16. Twlets</b>	Download anyone's tweets, followers and likes in an Excel sheet.
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## YOUTUBE

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<b>1. Amnesty YouTube Dataviewer</b>	Searches for a number of stills, not each frame is included (thus results may be left out).
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<b>2. Geo Search Tool</b>	It uses YouTube and Google APIs to generate location-based search results which are stack ranked by upload time
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### 3. YouTube-dl

YouTube-dl is a command-line program to download videos from YouTube.com and a few more sites. It requires the Python interpreter (2.6, 2.7, or 3.2+), and it is not platform-specific.

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Investigative  
Resource Desk

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