

SPJ Digital Tools Training Resources

Contact Mike: mikereilley1@gmail.com | [@journtoolbox](#)

This document's shortlink: bit.ly/spjresources

- Google free training site: <https://newsinitiative.withgoogle.com/training/>
- Journalist's Toolbox: <https://www.journaliststoolbox.org/> | [@journtoolbox](#)
- Toolbox YouTube (subscribe!):
<https://www.youtube.com/channel/UC8CCI01DmsE65wh-qPqjSLQ/videos>
- Toolbox newsletter (subscribe!): <https://journaliststoolbox.substack.com/>

RTDNA

Basic Tools

Journalist's Toolbox: <https://www.journaliststoolbox.org/>

Toolbox Twitter: <https://twitter.com/journtoolbox>

Google News Initiative Training Center (free):
<https://newsinitiative.withgoogle.com/training/>

Thsrs.com: The Shorter Thesaurus: <http://www.ironicsans.com/thrsr/>
Video: [Copy editing tools \(first tool\)](#)

Fact-Check Explorer: <https://toolbox.google.com/factcheck/explorer>
Video: [Copy editing tools \(second tool\)](#)

Dataset Search: <https://datasetsearch.research.google.com/>
Video: [Finding datasets \(several tools\)](#)

Public Data Explorer: <https://www.google.com/publicdata/directory>

Video: [Census \(first tool\)](#)

MapChecking.com: <https://www.mapchecking.com/>

Video: [Using MapChecking.com](#)

Google Earth Measure Tool: <https://www.google.com/earth/>

Video: [Using Google Earth Measure tool](#)

Earth Engine Timelapse: <https://earthengine.google.com/timelapse/>

Video: [Google Earth Engine Timelapse and Google Earth](#)

Google Trends: <https://trends.google.com/trends/>

Video: [Using Google Trends and Google Scholar](#)

Google Trends COVID-19 Data:

<https://trends.google.com/trends/?geo=US>

Google Trends Data Store: <https://googletrends.github.io/data/>

Data Scraping and Google Flourish

Data scraping exercise: <http://bit.ly/spjdatasrape>

Video: [Datascraping 101](#)

***Google Sheets:** Open in Google Drive or type sheets.new in browser field or sheets.new in browser window

Google Flourish (set up free account): <https://flourish.studio/>

Video: [Using Google Flourish](#)

Google Flourish exercises: <http://bit.ly/googleflourish>

If time: Google Earth Studio: <https://www.google.com/earth/studio/>

VERIFICATION RESOURCES

Google Image Search: <https://images.google.com/>

TinEye: <https://tineye.com/>

Tabula (Download for scraping .PDFs): <https://tabula.technology/>

Bookmarks

Google News Initiative Training Center (free courses and tools trainings): <https://newsinitiative.withgoogle.com/training/>

Google Advanced Search Operators List (Dan Russell):
<https://docs.google.com/document/d/1ydVaJJeL1EYbWtlfj9TPfBTE5IBADkQfZrQaBZxqXGs/edit>

Google News Initiative Teaching Tools for College and High School Instructors
<https://www.spj.org/google-educators.asp>

Exercises, tools and data we downloaded during our hands-on training:

- 1) Data scraping exercise: <http://bit.ly/spjdatascrape>
- 2) <http://MyMaps.google.com> (log-in through gmail)
- 3) Download this data to desktop: Cycling cities: <http://bit.ly/mrcyclingdata>

- 4) Google Flourish training exercise: <http://bit.ly/googleflourish>
- Chart for Avocado imports and horserace chart for NFC North QBs
- 5) Google Dataset Search: toolbox.google.com/datasetsearch
- 6) Earth Engine Timelapse: <https://earthengine.google.com/timelapse/>
- 7) Google Earth: <https://www.google.com/earth/>
- 8) Download Earth Pro here: <https://www.google.com/earth/resources/>

Training Videos

[Google MyMaps](#)

[Google Image Search](#)

[API training video on verification](#)

[Advanced Google Search](#)

[Google Alerts](#)

[Google Translate](#)

[How to create a Google Earth Pro tour](#)

[Google Earth for Web Project Creation Video](#)

[Google Earth for Web Project Creation Video: Stylings](#)

[Primer: Google Earth for Web Project Creation Tool](#)

[Global Forest Watch tutorials](#)

[What is a DDoS Attack? Project Shield](#)

[How to Enroll in Google Advanced Protection Program](#)

[Publishing in Google News](#)

[Google AdSense: Monetizing Multiscreen](#)

[Google Search: Funny video](#)

[Archive: Google News Lab training videos](#)

[Cybersecurity: How to Set Up Two-Step Authentication](#)

Mike's Software Demo Videos

(This is what Mike shows you during the training session. Archive for post-training reference and for training others in your newsroom. Have employees watch the videos before coming to the session.)

[Journalist's Toolbox digital tools trainings on YouTube](#)

[How to use Juxtapose JS Photo Slider](#)

[Data scraping in Google Sheets and scraping .PDFs with Tabula](#)

[Google Earth Engine Timelapse and Google Earth](#)

[Google Trends and Google Scholar](#)

[Google Reverse Image Search and Verification Tools](#)

[Google Earth Pro demo](#)

[Google Earth Pro examples](#)

[Mobile reporting tools](#) (includes Streetview and Cardboard Camera)

[Mobile reporting tools examples](#)

* **Mike's YouTube channel with many training videos:** <http://bit.ly/miketrainingvids>

Environment Reporting

[Sustainability.google](#)

[Google Environmental Insights Explorer](#)

Call up city to look at emissions, air quality and other data taken from models in Google Maps. If your city is not there, you can write and request it. Methodology explained at bottom of city datasets.

[Global Surface Water Explorer](#)

A virtual time machine that maps the location and temporal distribution of water surfaces at the global scale over the past 3.5 decades, and provides statistics on their extent and change to support better informed water-management decision-making.

[Your Plan, Your Planet](#) (look up water use/data converted)

[Google Global Forest Watch](#)

[Google Global Fishing Watch](#) (track fishing vessels)

[Google Dataset Search](#) (search for environment data)

[Google Trends](#) (what topics are people searching for)

[Google Fact-Check Explorer](#) (search environment topics)

[Google Earth Timelapse](#)

[Google Earth](#) (measure tool, etc.)

Google Fusion Tables Turndown

Blog post: <https://support.google.com/fusiontables/answer/9185417>

Google Form to sign up for alerts on the new mapping tool to come from Google. Direct link here:

https://docs.google.com/forms/d/e/1FAIpQLSdXwDdRb8JyKj_JcQ6D-iu1T_e393U0ndSE-tKm28Llc03-cw/viewform

DATA SCRAPING

[Data Scraping Exercise](#)

Use this script to extract data buried in tables on government (and other websites). All you need is the web address and table number.

Scrape this page using the formula from the exercise:

https://www.nifc.gov/fireInfo/fireInfo_stats_lgFires.html

Plug it into the scraping formula and put table and 0 in the corresponding fields. You can import the large wildfires database from the National Interagency Fire Center.

CYBERSECURITY

[Security.Google.com](#)

[Google Security Check-up](#)

Just log-in with your Gmail.

[Google Advanced Protection Program](#)

[Password Alert: Google Chrome Plug-in](#)

[Google SmartLock](#)

[Google Outline VPN](#)

GOOGLE MYMAPS PRACTICE DATA

[Global Biking Locations \(.csv file\)](#)

From the video example, here's the dataset you can use in Google MyMaps to follow along.

College Football Bowl Game Locations

<http://bit.ly/bowllist>

Good for sports trainings.

[MyMaps: Salary You Need to Buy a Home \(.csv file\)](#)

Use in Google MyMaps to create a map of cities across the U.S.

[Chicago Homicides by Year](#)

Attribute data to City of Chicago data portal. 2016 data is complete. Note that it's for homicides and not Chicago murders (762 of them). This is Fusion Tables or Flourish only.

[Mass Shootings \(GunViolence.org\)](#)

[Mass Shootings \(Mass Shooting Tracker\)](#)

Note that some U.S. state abbreviations place points in Great Britain. (Should spell them out.)

[2015 craft breweries by state](#)

Attribute data to Brewers Association. But check the state of Washington on the map. How do we fix this?

[U.S. Gas Price Averages January 2017](#)

Attribute to Gas Buddy. Use for Datawrapper choropleth map. Uses state ISO codes.

[Indiana Unemployment in Obama Years](#)

Attribution: Bureau of Labor Statistics and State of Indiana.

[Chicago Pride Parade Attendance](#)

Attribute data to City of Chicago data portal.

[Chicago Cubs Season Attendance \(2007-16\)](#)

From Chicago Cubs. For Datawrapper.

[South Bend Cubs Attendance](#)

For Datawrapper. Attribute to SB Cubs.

[Chicago Potholes Patched \(2014\)](#)

Attribute data to City of Chicago data portal.

[Barry Bonds Home Runs by Season](#)

Attribute data to Baseball-Reference.com.

[MLB 100 mph fastballs annual 2008-16](#)

Attribute data to MLB.com. Fusion or Sheets chart.

[Google Geomedia Lab](#)

Resources and practice data for Fusion Tables and MyMaps. Also, some resources for Google Earth.

[Chicago neighborhood areas \(KML file\)](#)

Download the KML file to desktop. We'll use it for Google MyMaps practice. To download the file, click on the export tab on the upper right and download as a KML file.

[Derek Eder's Searchable Map Template for Fusion Tables](#)

His site has links to dozens of examples, including the ones shown in the presentation.

Creating Interactive Maps: Fusion Tables, MyMaps and Carto.com
Includes torque maps.

Responsive site embedding tools
EmbedResponsively.com

GOOGLE VOTING INFO PROJECT

Google Voting Info Project

<https://gttp.votinginfoproject.org/>

This website is an initiative of the Voting Information Project (VIP), a partnership between state election officials and Democracy Works to connect voters with the election information they need to cast a ballot. Launched in 2008, VIP works with state and local election officials to provide official and up-to-date election information. Enter your address 2-4 weeks before your next local election to get the information.

GOOGLE FLOURISH

Google Flourish tool: <https://flourish.studio/> ...

Training video:

https://flourish.studio/2017/04/10/flourish_google_newsrooms

Flourish training exercise: <http://bit.ly/googleflourish>

Chart for Avocado imports and horserace chart for NFC North QBs.

Axios Story on Trump Time Spent (download data):

<https://www.axios.com/donald-trump-private-schedules-leak-executive-time-34e67fbb-3af6-48df-aefb-52e02c334255.html>

Flourish Examples

Arizona Republic: Avocados: U.S. import Volume (line chart)

https://public.flourish.studio/visualisation/175911/?utm_source=showcase&utm_campaign=visualisation/17591

Toledo Blade: Big Changes Coming for GM (Google Flourish Story):

<https://public.flourish.studio/story/21557/embed>

USA Today: Flourish Quiz: How well do you know America's history with slavery?

<https://www.usatoday.com/story/news/education/2019/10/16/slavery-black-history-1619-abolished-quiz/2290336001/>

USA Today: Death rates, bedsores, ER wait times: Where every VA hospital lags or leads other medical care

<https://www.usatoday.com/in-depth/news/investigations/2019/02/07/where-every-va-hospital-lags-leads-other-care/2511739002/>

Asbury Park Press: NJ's Biggest Employers (animated bar chart)

<https://www.app.com/story/news/investigations/data/analysis/2019/07/29/nj-top-employers/1841950001/>

Asbury Park Press: DWI arrests

<https://public.flourish.studio/visualisation/598697/>

<https://public.flourish.studio/visualisation/598737/>

Miami Democratic Debate 1

<https://public.flourish.studio/visualisation/445123/>

Google loaded Trends data into Flourish.

Miami Democratic Debate 2

<https://public.flourish.studio/visualisation/449091/>

Google loaded Trends data into Flourish.

Tweet: Top Highest-Paid Athletes from Forbes

<https://twitter.com/thekendallbaker/status/1204456119524937729?s=12>

Toledo Blade: Homicides in 2018:

<https://public.flourish.studio/story/23573/embed>

Toledo Blade: Homicide map:

<https://public.flourish.studio/visualisation/192286/embed>

Flourish map: Abortion providers by state by year

<https://public.flourish.studio/visualisation/138284/>

(U of I investigative reporting student)

Election charts with Flourish

<https://flourish.studio/2018/10/23/american-midterm-data-visualisation/>

Chattanooga Times Free Press Flourish Examples

Percentage of Working Teens

<https://public.flourish.studio/visualisation/55211/>

Chemical Agent Incidents at Tennessee Prisons

<https://public.flourish.studio/visualisation/52369/>

Mother's Day Spending

<https://public.flourish.studio/visualisation/45384/>

Occupancy Tax Charts

<https://public.flourish.studio/visualisation/36959/>

Google maps:

<https://www.google.com/maps/d/u/0/edit?mid=1gpF50ZdosNRh7ZKWPnaUNbaq6njjWr5y&ll=34.80814253493336%2C-86.98485964999998&z=7>

Flourish Sports

Pensacola Boys Prep Soccer Stat Leaders (Google Flourish line chart):

<https://www.pnj.com/story/sports/high-school/2019/01/13/pnj-boys-soccer-leaderboard-catholic-duo-surge-area-scoring-lead/2566398002/>

Charlotte Observer (APSE): Why Panthers QB Kyle Allen Deserves a Raise

<https://www.charlotteobserver.com/sports/nfl/carolina-panthers/panthers-tracks-news/article237372724.html>

Detroit Free Press (APSE): Matthew Stafford's race to 40k yards

<https://www.freep.com/in-depth/sports/nfl/lions/2019/10/20/matthew-stafford-40000-detroit-lions/3947053002/>

NOLA (APSE): Text Cards of Drew Brees' WRs for TDs

https://www.nola.com/sports/saints/article_06f23a64-1f99-11ea-84d3-bb13e5046fa5.html

NOLA (APSE): For 12 Saints, hundreds in NFL camps: Small-school road makes for uphill climb: 'Patience is key'

https://www.nola.com/sports/saints/article_2238bcb6-c30b-11e9-afd1-e33851d122f9.html

(tweet: https://twitter.com/Amie_Just/status/1163944606934999042)

Denver Post (APSE): Baseball's whole new ballgame: Strikeouts, home runs and growing concerns

<https://www.denverpost.com/2019/06/23/baseball-strikeouts-home-runs-growing-concerns/>

Forbes: Highest-paid Athletes (stacked bar chart)

<https://public.flourish.studio/visualisation/132723/>

Toledo Blade: Urban Meyer's coaching career:

<https://public.flourish.studio/story/22172/embed>

Scranton (PA) Times-Tribune: Prep Football Picks Flourish Chart

<https://public.flourish.studio/story/130130/>

Citizen's Voice, Wilkes Barre, PA: High School Football Schedule Map

<https://public.flourish.studio/story/57759/>

GOOGLE TRENDS EXAMPLES

Miami Democratic Debate 1

<https://public.flourish.studio/visualisation/445123/>

Google loaded Trends data into Flourish.

fKC Star (Google Trends): What Americans want to know about Thanksgiving?

<http://www.kansascity.com/news/local/article185193868.html>

Successful Farming magazine (Meredith): [Google Trends: Farm Bill Interest vs. Olympics and SpaceX](#)

<https://www.agriculture.com/news/this-week-in-agriculture-272018>

Examples of MyMaps and Fusion Tables from past trainings

[Santa Barbara Mudslides/Fires Evacuation Zones](#)

Santa Barbara Independent showing how 17 of the 23 victims may have been living [under no evacuation notice of any sort](#). A hugely important tool to help readers visualize this, thanks. Brandon Yedgari attended a Google News Lab training at AAN in 2017, learned maps and they used it to tell this story.

[Traffic issues at Quicken Loans Arena](#)

The Willoughby, Ohio, News-Herald did this simple Google MyMap to run with a story about traffic issues around Quicken Loans Arena during Cavs games, thanks to road construction. [Full story](#)

[Dangerous roads map](#)

The Willoughby, Ohio, News-Herald did this simple Google MyMap to run with a story about a dangerous stretch of road in the community. They had done a "ride-along" with local law enforcement officer, who narrated the video. Rather than just embed the YouTube videos in the story, they placed it in the map to show where the officer was as he was describing the dangers. It helped readers understand it. [Full story](#)

[WBIR Ch. 10 Knoxville: Crime near schools map](#)

Reporter Becca Habegger attended a Google News Lab training in Knoxville and built this Google Fusion Tables crime map that served as a centerpiece of a large investigative series the channel aired and posted online. Note the use of the Caspio database to flesh out the map.

[St Louis Post-Dispatch homicides map](#)

A great visual archive of the year's homicides. Note the link at the bottom of each summary to the news story.

[Western Kentucky Campus Crime Map](#)

Good example of a simple campus map in MyMaps.

[Knoxville: Underground Railroad bike tour](#)

From the Knoxville News Sentinel. Great MyMaps example.

[Nashville Pothole Repairs](#)

Basic MyMaps map with data produced off the city's data portal.

[Map: Lee Enterprises \(Sioux City Journal\): Potholes in your neighborhood / Report a pothole](#)

We asked readers to submit locations of potholes which populated pins on the map. Used Google Forms, and Google MyMaps to create.

[Lee Enterprises \(Sioux City Journal\) Map: Show your colors: Support Iowa or Nebraska](#)

Used Google Forms and Google MyMaps to plot points on map to indicate which team – Hawkeyes or Huskers - our readers support

[Chicago homicides by police district beat \(2013\)](#)

Example of how you can use Derek Eder's searchable map template (see link above to the template).

[Lewiston, Idaho: Idaho Vandals Player Map](#)

[Lewiston, Idaho: Washington State Cougars Player Map](#)

[The Morning Journal: 8 Loraine County Property Owners Owe \\$100k in Taxes](#)

This suburban Cleveland story focused on the eight most-expensive properties being demolished in the area. Map example linked out of story.

[MoviePass Theaters in Bay Area](#)

<https://www.mercurynews.com/2018/03/31/after-2-million-subscribers-nationwide-moviepass-is-having-ripple-effects-on-moviegoers-local-theaters/>

Example from the Mercury News.

[Side Effects: Indiana Farmers Markets](#)

<http://sideeffectspublicmedia.org/post/how-changes-farmers-markets-could-keep-fresh-food-low-income-hoosiers>

[Ole Miss: illustrate an important element of diversity on the Ole Miss campus \(MyMaps\)](#)

[Athlon Sports graphic: College football coach salaries vs. wins](#)

Notre Dame sophomore Juan-Jose Rodriguez built this scatter plot chart to complement a blog post about coaching salaries. Who was getting their money's worth?

[Google Maps Example: NY Times and Hurricane Harvey](#)

Times used Street View images out of Google Maps to show locations before flooding hit in Houston in before/after split screen.

[Timelapse map example: NY Times Hurricane Harvey Cries for Help](#)

911 calls on a coded timelapse map (not Google or Carto). 11 staffers worked on this project.

CARTO.com Example: Chicago's population drops for third year in a row, losing 3,825 in 2017: Census | Chicago Sun-Times (Tanveer Ali)

<https://chicago.suntimes.com/news/illinois-census-map-chicago-loses-3825-people/>

[Google Public Data Explorer](#)

Not a scraping tool, but you can build some great graphics using Census data and other data sets from Google Tables.

[Google Fusion Tables Map Examples](#)

Eastern Kentucky University Department Relocation: Google Maps:

<https://www.google.com/maps/d/viewer?mid=1ym5qEPc-DhIE6Vlu3b83b0x6d1cKKWrK&ll=37.73744766141253%2C-84.30037120000003&z=16>

Geo Search Tool

Can't search YouTube by location but this open-source tool will allow you to.

<http://youtube.github.io/geo-search-tool/search.html>

GOOGLE EARTH TOOLS

Google Earth Training Lessons Suite
<https://www.google.com/earth/outreach/learn/>

Google Earth Studio
<https://earth.google.com/studio>

Google Earth Studio (documentation):
<https://earth.google.com/studio/docs/>

Google Earth Studio Example: Gay Street flyover in Knoxville
<https://www.jacklail.com/2018/12/11/a-flyover-of-gay-street/>

Google Earth GeoPermissions Page:
<http://google.com/permissions/geoguidelines.html>

[Google Earth Pro Download Page](#)
Download Google Earth Pro to desktop/laptop or use mobile app)

[Google Earth Engine Timelapse](#)
Timelapse of photos over geographic areas. Great for showing urban sprawl.

[Google Earth for Chrome](#)
Launched in April 2017, this browser-based tool incorporates new features such as Voyager tours and the Knowledge graph from Google Search. The new app is available on Chrome browser at <http://earth.google.com/web> and a native Android app available via the Google Play store. Coming soon to iOS.

[Google Earth Geomedia Lab Earth page](#)
Training videos and links to all kinds of resources for KML touring, working Google Earth Pro into your newscast, etc.

[Google Earth KML Touring Page](#)
This page shows you how to build great Earth tours, begin editing of KML code and how to record and export HD movies with Google Earth Pro

[Google Permissions](#)

For broadcast, you need to register here once a year to obtain a Google Earth broadcast license. It's free. Just register. Follow the permissions on the site to properly credit the images/maps you use.

[Juxtapose JS](#)

A great before/after photo slider tool from Northwestern's Knight Lab. Load your Google Earth photos into the free tool and embed a slider on your web page.

[Google News Lab Media Alerts](#)

Email list for journalists using Google Earth and Maps in their news gathering and reporting. Here we'll share fresh satellite imagery related to breaking news, new Google Crisis Maps, Google Earth b-roll, and more.

[Google Earth VR](#)

Google Earth VR is first available on Steam for the HTC Vive .

[Google Earth Measure Tool](#)

Good for checking distance, area and perimeter. Good for measuring crowd estimates/crowd sizes. Here's another tool (not Google's) that does that: <https://www.mapchecking.com>

How-to Article

[MediaShift: Bring the World to Your Classroom with Google Earth Tools](#)

Piece Mike authored on using Earth, Earth Pro and Timelapse when working with college students.

Google Earth Training Videos

[Video: How to create a Google Earth movie maker tour](#)

[Mike: Google Earth Pro demo](#)

[Mike: Google Earth Pro and TImelapse examples](#)

GOOGLE EARTH EXAMPLES

NBC Bay Area: Hunters Point Shipyard Contamination, Cleanup and Development

<https://www.nbcbayarea.com/investigations/San-Francisco-Hunters-Point-Contamination-Cleanup-Development-494440271.html>

Google Earth Pro: A Google Earth view of the Barton 1792 distillery warehouse collapse

<https://www.courier-journal.com/videos/news/2018/06/23/google-earth-view-barton-1792-distillery-warehouse-collapse/728096002/>

Louisville Courier experiments with Google Earth Pro. Gannett.

Google Earth Pro: Nasty 9 Louisville Golf Holes

<https://www.courier-journal.com/story/sports/golf/2018/06/19/hardest-golf-holes-we-love-hate-louisville/703597002/>

Louisville Courier experiments with Google Earth Pro.

Desert Sun: Wildfire Prevention Video in San Diego (Google Earth)

<https://www.desertsun.com/in-depth/news/2019/08/01/san-deigo-fire-chief-oks-wildfire-hazard-development-new-homes-adara-otay-ranch-chula-vista/1664951001/>

USA Today: Google Earth and Timelapse on Amazon Rainforest Wildfires

<https://www.usatoday.com/in-depth/news/2019/08/23/amazon-rainforest-six-charts-explain-why-fires-matter/2096257001/>

Social Video for Amazon Rainforest Wildfires

<https://twitter.com/usatgraphics/status/1165036342906097672>

Reno Gazette Journal: How two skiers survived a Sierra avalanche on Jobs Peak

Story:

<https://www.rgj.com/story/life/outdoors/2019/03/22/nevada-skiers-barely-escaped-jobs-peak-accident-before-nightfall/2943310002/>

Video:

<https://www.rgj.com/videos/news/2019/03/23/how-two-skiers-survived-harrowing-avalanche-nevadas-jobs-peak/3251924002/>

Google Earth Pro and Open Street Maps: Kobe Bryant Helicopter Crash

<https://twitter.com/palewire/status/1221576809558360064?s=12h>

Google Earth Pro: Analysis of Kobe Bryant Helicopter Path

<https://www.latimes.com/projects/kobe-bryant-helicopter-crash-3d-map/>

ABC7 Chicago: Google Earth Photos Show Chicago's Disappearing Beaches

<https://abc7chicago.com/weather/dramatic-photos-show-chicagos-disappearing-beaches/5713591/>

Tampa Bay Times: Church of Scientology

<https://projects.tampabay.com/projects/2019/investigations/scientology-clearwater-real-estate//?fbclid=IwAR1n3BYPP2jZ7DnmwTIFCawpINylzPoPcYoczao8PFAC9wbEleSj61nZDRw>

Historical Chicago Hotels

<https://nicolesrokadigital.wordpress.com/2019/04/01/five-of-chicagos-historic-hotels-to-visit-over-the-summer/>

USA Today: Locations for Jeffrey Epstein

<https://www.usatoday.com/story/money/2019/07/14/jeffrey-epstein-net-worth-is-he-billionaire-or-not/1708479001/>

BBC Africa: Anatomy of a Killing

<https://twitter.com/BBCAfrica/status/1044186344153583616>

Used Google Earth tools to geolocate/fact check location of a gruesome murder of women and children in Africa.

Pensacola Lake Charlene Development Over the Years (Google Earth Pro):

<https://www.pnj.com/videos/news/2019/01/11/lake-charlene-development-over-years/2547766002/>

Columbus Dispatch: [Google Earth Pro Downtown Development Project](#)
Dispatch story: [Google Earth Pro Downtown Development Project](#)

Columbus Dispatch: Ohio State Football Schedule

<http://www.dispatch.com/news/20180412/video-see-football-stadiums-where-ohio-state-buckeyes-will-play>

Pensacola Santa Rosa County Road Repair MyMap:

<https://www.pnj.com/story/news/2019/01/14/santa-rosa-county-track-resurface-repair-76-roads-year/2546881002/>

Google Earth Voyager: Time: Noirs Journey:

<https://earth.google.com/web/data=CkASPhIgm2Y3NTQ0NGM5ODg0MTFlNzhjNDAzNWQ5ODdjZGIzMGMaDEZpbmRpbmVmcGSG9tZS1Mc3BsYXNoc2NyZWVu>

Syrian family followed for one year as they flee to Europe.

Google Earth Pro: Wisconsin State Journal Wisconsin Men's Basketball Tour of New Zealand and Australia

<https://www.youtube.com/watch?v=MKu4Lzd9wi0>

Baltimore Business Journal: Jeff Bezos commute. Google Earth Pro

<https://www.bizjournals.com/baltimore/news/2018/01/24/hey-jeff-bezos-heres-what-your-morning-commute-to.html?ana=tw>

Reporter attended a training at Towson University. Two weeks later, she produced this Google Earth Pro tour showing what Bezos' commute could look like from his Washington home to possible HQ2 sites in Baltimore and Northern Virginia.

Google Earth Timelapse: [Screengrab of locations with lower thirds added in Premiere](#)

NY Times: [Google Earth for Barcelona graphic](#)

NY Times: [Google Earth for Las Vegas shooting graphic](#)

DNAInfo Chicago: Las Vegas shooter and Lollapalooza
<https://www.dnainfo.com/chicago/20171005/loop/chicago-hotel-las-vegas-shooter-stephen-paddock-lollapalooza-blackstone-map/>

San Antonio Express News: [See how Texas Cities Have Changed](#)

KC Star: [Trail murders Google Earth Pro video](#)

KC Star: [Police shooting of Overland Park student](#)
Google Earth Pro tour, Broadcastify video and images to illustrate dispatch radio traffic as police respond to a student's suicide attempt.

Successful Farming (Meredith): [Google Earth Pro in video about how paralysis can't keep a Minnesota Farmer down](#)
Video is at end of the story. Earth Pro segments set location/transitions in the story.

Google Earth Pro: [Notre Dame football Shamrock Series](#)
Google Earth Pro and Timelapse: [Beyond the Bend: A Google Earth Experiment](#)
Google Earth Engine Timelapse: [South Bend, Indiana](#)

Google Time Machine: Create Tours Similar to Earth
<http://timemachine.cmucreatelab.org/wiki/EarthEngineTourEditor>

NY Times: [Video timeline of Vegas shootings](#)
Google Earth Pro renderings play a key role in the video

NY Times: [Google Earth Puerto Rico hurricane images](#)

Slider images: Juxtapose from the Guardian with COVID-19
<https://www.theguardian.com/environment/2020/apr/11/positively-alpine-disbelief-air-pollution-falls-lockdown-coronavirus>
Smogless cities around the world amid shelter in place. Coronavirus. COVID-19.

Juxtapose: Bloomington IN

Here's the story of the first baby girl to be born to a local family in 130+ years, and the Timeline we made for it:

https://www.hoosiertimes.com/herald_times_online/news/local/bloomington-family-gets-first-girl-in-long-line-of-boys/article_1fe62ac8-dd7a-5df4-9007-90ec4d2377b2.html

Bloomington, Indiana: And our I-69 story with a couple Juxtaposes:

https://www.hoosiertimes.com/herald_times_online/news/local/i--crews-preparing-for-iu-move-in/article_ce43eee0-c4b9-5fc3-b35a-6cd251871276.html

The Morning Journal: House Near Vermilion's Main Street Beach to be Demolished

Great use of Juxtapose slider! [Full story](#)

[Red Line Project: Chicago Population Drops](#)

Good Juxtapose link near bottom of the story.

§ Desktop download

Be sure to download [Google Earth Pro](#) (it's free) to your laptop prior to the training.

GOOGLE EARTH PRO TOOLS

Using Google Earth Pro, locate these stadiums and create a tour of them, then try to record and export the tour.

- § Ohio Stadium (Columbus, Ohio/Ohio State University)
- § Camp Randall Stadium (Madison, Wisconsin/University of Wisconsin)
- § Memorial Stadium (Lincoln, Nebraska/University of Nebraska)
- § Michigan Stadium (Ann Arbor Michigan/University of Michigan)
- § Spartans Stadium (Lansing, Michigan/Michigan State)
- § Beaver Stadium (Happy Valley, Pennsylvania/Penn State)
- § Ryan Field (Evanston, Illinois/Northwestern University)
- § Kinnick Stadium (Iowa City, Iowa/University of Iowa)
- § TCF Bank Stadium (Minneapolis, Minnesota/University of Minnesota)
- § Memorial Stadium (Champaign, Illinois/University of Illinois)

- § Byrd Stadium (College Park, Maryland/University of Maryland)
 - § High Point Solutions Stadium (Piscataway Township, New Jersey/Rutgers University)
 - § Ross Ade Stadium (West Lafayette, Indiana/Purdue University)
 - § Memorial Stadium (Bloomington, Indiana/Indiana)
-

IMAGE SEARCH/VIDEO VERIFICATION

*** Additional tools and tips can be found on The Journalist's Toolbox Trust and Verification page:**

https://www.journaliststoolbox.org/2019/03/25/urban_legendsfact-checking/

WatchFramebyFrame.com

<http://www.watchframebyframe.com/watch/yt/Xb0P5t5NQWM>

Great for fact-checking videos. Paste URL into player and hit the arrow keys to look at each shot frame by frame. Watch for shadows out of place, etc. (You can watch frame by frame in YouTube by using the comma and period keys after pausing the video. Comma moves backward and period forward.) Test both out with this famous fake (watch shadows of bird/kid):

<https://www.youtube.com/watch?v=Xb0P5t5NQWM>

How to tell it's fake: <https://www.youtube.com/watch?v=WVr43I16B3Q>

[Verification Handbook](#)

Case studies and examples of how to verify photos, video and other news.

Google Reverse Image Search

<https://images.google.com/>

Reverse image search to see when/where a photo has been published

TinEye

<https://www.tineye.com/>

Reverse image search to see when/where a photo has been published

InVid Video News Verification

<https://invid.weblyzard.com/>

Also available as a Google Chrome plug-in.

YouTube Dataviewer

<https://citizenevidence.amnestyusa.org/>

From Amnesty International, plug YouTube video URL in and see where the video has been published.

[List of False News Sites](#)

Google Doc maintained by a college professor. Good quick-reference if you're checking out a site's validity.

First Draft News video: [Using Instagram to find newsworthy photos and fact-check](#)

[First Draft News](#) | [Twitter](#)

[Storyful](#) | [Twitter](#)

[Journalist's Toolbox Fact-Checking/Urban Legends page](#)

[Politifact](#)

[RealDonaldTrump](#) Google Chrome browser extension

Storyful's Mandy Jenkins on fake video:

<https://twitter.com/fusiontv/status/986650576137027584>

Chicago Homeless Snow Photo (misrepresented)

<https://twitter.com/dbcalabrese/status/1091133268391612417?s=12>

TRENDS, AUTODRAW AND DATA GIF MAKER

Year in Search 2017

<https://trends.google.com/trends/yis/2017/GLOBAL/>

[AutoDraw.com](#)

Draw freehand on this interface and this Google tool uses machine learning to match it to a professionally drawn icon. Good for adding custom icons to Google Maps. One of the many Google AI tools coming.

[What does Google Trends data mean?](#)

[Google Trends](#)

[Google Data GIF maker](#)

Build your own GIFs to show percentage comparisons between two subjects. Download as high-res and keep browser window open. It will take a few minutes

[Google Data GIF maker instructions](#)

This walks you through the steps to make the GIF

MORE DATA SCRAPING

Google Chrome Scraper Extension

- Install extension: <http://mnmldave.github.io/scraper/>
- In Chrome, visit the URL you want to scrape
- Highlight an instance of the text you would like to convert to a table (E.g., <http://www.cision.com/us/2015/08/top-50-social-media-influencers-on-twitter/>; <http://cas.msu.edu/people/faculty-staff/staff-listing/>) > Right-click and choose 'Scrape similar...' to scrape the relevant content of the page > Inspect content to determine relevance > Adjust copied text if not relevant
- Save it in Google Docs!

ANALYTICS

What can you do with the numbers?

Create something: Cronkite News Refresh: A end-of-week recap show featuring Cronkite News stories that performed well on social media. Pop-ups with social media content. Stories chosen based on weekly analytics reports from Reilley's students in the digital production bureau. Some examples:

<https://www.youtube.com/watch?v=itQg5n1Jx3U>

https://www.youtube.com/watch?v=p_luOgmO-I8

<https://www.youtube.com/watch?v=itQg5n1Jx3U>

YouTube Creator Academy

Watch videos on how to get the most out of your YouTube channel and content.

<https://creatoracademy.youtube.com/page/welcome>

MOBILE EXAMPLES

Going Mobile:

<http://dataindiana.news/2017/02/06/going-mobile-five-days-in-south-bend-and-beyond/>

<http://dataindiana.news/2017/02/06/going-mobile-five-days-in-south-bend-and-beyond/>

Adobe Spark Think Different:

<https://spark.adobe.com/page/ZBP5MMouuYPm0/>

Adobe Spark DIY Chicago:

<https://spark.adobe.com/page/P77IIOQQLNIVR/>

Adobe Spark: Cronkite News Recycling

<https://twitter.com/cronkitenews/status/1040624992923406336?s=12>

Adobe Spark: Buttress on Hancock Tower. Kevin Sherman:

<https://twitter.com/Shermanator8088/status/963498530492092418>

Adobe Spark: Yas! Fest at Millennium Park

<https://twitter.com/mcmps156/status/1043929232420872192>

Adobe Spark: Steak n Shake Opening

<https://twitter.com/FPParco/status/1043562350534647808>

Adobe Spark Post (Coronavirus/NYPA):

<https://twitter.com/sullcodemocrat/status/1255926489868050433?s=12>

Adobe Spark: Class Presentation on Phenotyping

<https://spark.adobe.com/page/whmJSBed3ohVr/>

From Nevada Reno student

Adobe Spark and Google Earth Pro: Decatur (Illinois) road conditions

<https://mail.google.com/mail/u/0/#inbox/1622fbd367d3bfb5?projector=1>

Chicago Women's March Timelapse (not Hyperlapse):

https://twitter.com/chicagotribune/status/954829865043324930?ref_src=twcamp%5Eshare%7Ctwsrc%5Eios%7Ctwgr%5Ecom.google.Gmail.ShareExtension

Periscope and Insta360

Bubbli: Community Book Fair in Bloomington, Indiana:

<http://on.bubb.li/451068aw3g34lcpl4jhghjj/>

Ripl: <https://twitter.com/laurenslavlin/status/781236115516817408>

Ripl winter weather:

<https://twitter.com/TonyJmaz/status/960929753212604417>

Hyperlapse snow commute Chicago:

https://twitter.com/purdy_claine/status/961968895547584513

Hyperlapse UIC softball travel:

https://twitter.com/craneyxo_/status/961811169446051842

Hyperlapse snowblower:

<https://twitter.com/janelobrien48/status/962015451856474113>

Adobe Spark/Union Station:

<https://spark.adobe.com/page/AcsrInpPcofrS/>

Daniel's T-Rex Fyuse 3D: <https://fyu.se/v/tf70c42bkh>

Fyuse Alex: <https://fyu.se/v/7vmuvswbiu>

China Coronavirus Hospital Timelapse

<https://twitter.com/vicenews/status/1223345832478609408?s=12>

Timelapse of tractor square dance (not hyperlapse):

<https://www.youtube.com/watch?v=yzkElb8gTxo>

Lee Enterprises (Sioux City Journal) Map: Show your colors: Support Iowa or Nebraska

Used Google forms and Google Maps to plot points on map to indicate which team – Hawkeyes or Huskers - our readers support
http://siouxcityjournal.com/coffee_break/show-your-colors-support-iowa-or-nebraska/article_c9e55150-7812-5874-b832-897146e34eb9.html

Lee Enterprises (Sioux City Journal): Potholes in your neighborhood / Report a pothole
We asked readers to submit locations of potholes which populated pins on the map. Used Google forms, and Google Maps to create.
http://siouxcityjournal.com/news/local/map-report-a-pothole/article_e9125c61-849b-5d6c-a105-fbd4ae17b19a.html

Lee Enterprises (Sioux City Journal): Map: Colorectal Cancer Rates for Iowa by County
Showed incidence of cancer rates from 2009 to 2013 for each county in Iowa. The counties were color-coded to show areas of higher incidence. Clicking on county shows stats for that region.
Used Google Maps
http://siouxcityjournal.com/news/data/map-colorectal-cancer-rates-for-iowa-by-county-copy/html_8bd6939b-f05a-5943-9d15-db2911cd9937.html

KC Star: Trail murders Google Earth Pro video
<http://www.kansascity.com/latest-news/article203206119.html>

KC Star: Police shooting of Overland Park student
<http://www.kansascity.com/latest-news/article195991794.html>
Google Earth Pro tour, Broadcastify video and images to illustrate dispatch radio traffic as police respond to a students suicide attempt.

KC Star (Google Trends): [What Americans want to know about Thanksgiving?](#)

KC Star: [Chef relocating Crossroads restaurant](#)

AMP Story template examples (very cool)

AMP template, SF Chronicle Camp Fire coverage:

<https://projects.sfchronicle.com/2018/visuals/camp-fire-devastation/>

AMP template, SF Chronicle Santa Rosa fire coverage:

<https://projects.sfchronicle.com/2018/visuals/out-of-the-fire/>

AMP template: Transbay Transit Center Beam Crack:

<https://projects.sfchronicle.com/2018/transbay-cracks/>

* SF Chronicle: Google Earth Pro Image from How the Las Vegas Shootings unfolded:

<https://www.sfchronicle.com/news/article/Timeline-How-the-Las-Vegas-mas-sacre-unfolded-12247445.php>

Google Misspelled Words: WBIR

Bananas or banannas? These are the top misspelled words in each state

<https://www.wbir.com/article/news/nation-now/bananas-or-banannas-these-are-the-top-misspelled-words-in-each-state/507-443939131>

GANNETT EXAMPLES

Arizona Republic: Avocados: U.S. import Volume (line chart)

https://public.flourish.studio/visualisation/175911/?utm_source=showcase&utm_campaign=visualisation/17591

Pensacola Lake Charlene Development Over the Years (Google Earth Pro):

<https://www.pnj.com/videos/news/2019/01/11/lake-charlene-development-over-years/2547766002/>

Pensacola Boys Prep Soccer Stat Leaders (Google Flourish line chart):

<https://www.pnj.com/story/sports/high-school/2019/01/13/pnj-boys-soccer-leaderboard-catholic-duo-surge-area-scoring-lead/2566398002/>

Pensacola Santa Rosa County Road Repair MyMap:

<https://www.pnj.com/story/news/2019/01/14/santa-rosa-county-track-resurface-repair-76-roads-year/2546881002/>

Tallahassee Democrat 202 Florida State recruiting offer list MyMap:

<https://www.tallahassee.com/story/sports/college/fsu/football/2019/01/10/mapping-florida-states-2020-football-recruiting-offer-list/2537587002/>

TC Palm 2018 Traffic Crashes:

<https://www.tcpalm.com/story/news/local/2019/01/17/traffic-fatalities-increased-treasure-coast-roads-2018/1741809002/>

Map only:

<https://www.google.com/maps/d/u/1/edit?hl=en&mid=1E2nQrMo2mahMc9WhaTdvoHK7TYXrHvh7&ll=27.6238052868946%2C-80.24914630165915&z=10>

Google Earth Pro: A Google Earth view of the Barton 1792 distillery warehouse collapse

<https://www.courier-journal.com/videos/news/2018/06/23/google-earth-view-barton-1792-distillery-warehouse-collapse/728096002/>

Louisville Courier Journal experiments with Google Earth Pro on a recent breaking news story

Google Earth Pro: Nasty 9 Louisville Golf Holes

<https://www.courier-journal.com/story/sports/golf/2018/06/19/hardest-golf-holes-we-love-hate-louisville/703597002/>

Louisville Courier experiments with Google Earth Pro on a fun feature story on the area's worst golf holes (and they are bad!)

Video only:

<https://www.courier-journal.com/videos/sports/golf/2018/06/18/take-tour-nastiest-golf-holes-around-louisville/707239002/>

[Knoxville: Underground Railroad bike tour](#)

<https://www.knoxnews.com/story/money/business/2018/06/12/conservative-liberal-bike-underground-railroad-route-inspire-unity/684846002/>

From the Knoxville News Sentinel. Great MyMaps example.

[Nashville Pothole Repairs](#)

<https://www.tennessean.com/story/news/2018/03/12/nashville-potholes-intestate-traffic-tennessee-department-transportation/408620002/>

Basic MyMaps map with data produced off the city's data portal. Great overall multimedia package on a quick-turn story.

Photo Fact-Checking

Right-click and download the images below if you want to use any of them in the images.google.com reverse image search look-up.

Google Fact-Check Explorer

<https://toolbox.google.com/factcheck/explorer>

Look up recent fact checks or search for keywords to find specific ones.

Some great tips from Kim Bui on fact-checking here:

https://docs.google.com/presentation/d/1SyuYW1YPmSibj6-I7I1sNorM0iAKHn6iPF5DWnVcuMM/edit#slide=id.g6f79a06252_2_14







Example of bad photoshop:



Photo of Ariana Grande from TV show Scream Queens was circulated on social channels after bombing at her concert. She was not hurt.



Example of how Time mag got fooled by a photo from 1976 (Brooklyn tornado). Shared on social as being from 2010:

TIME NewsFeed
WHAT'S VITAL AND VIRAL ON THE WEB, IN REAL TIME

TRENDING **Poverty Rate** **Hopkins Shooting** **Fish Kill** **Reality TV** **Nike**

SEVERE WEATHER
Gotham Tornado: Amazing Photo of Twister Passing Statue of Liberty

By: STEVEN JAMES SNYDER
Topics: TORNADO, NEW YORK CITY, PHOTO, BROOKLYN, SEVERE WEATHER, PARK SLOPE, STATUE OF LIBERTY, TWISTER, TORNADO WARNING, TORNADO PARK SLOPE, TORNADO NYC



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TIME.com

Gannett interns: July 21, 1 p.m. to 3 p.m., ET

Building charts with Google Flourish, maps in Google MyMaps, Carto.com basics, Datawrapper (if time)

- Google Flourish (set up free account): <https://flourish.studio/>
- Google Flourish exercises: <http://bit.ly/googleflourish>

- **Google MyMaps:** <https://www.google.com/maps/> (log-in with gmail)
- **Carto.com:** <https://carto.com/>
- **Datawrapper:** <https://www.datawrapper.de/>

Bonus Fact-Check

FotoForensics: <http://fotoforensics.com/>

YouTube Data Viewer: <https://citizenevidence.amnestyusa.org/>

WatchFramebyFrame.com

<http://www.watchframebyframe.com/watch/yt/Xb0P5t5NQWM>

Great for fact-checking videos. Paste URL into player and hit the arrow keys to look at each shot frame by frame. Watch for shadows out of place, etc. (You can watch frame by frame in YouTube by using the comma and period keys after pausing the video. Comma moves backward and period forward.) Test both out with this famous fake (watch shadows of bird/kid):

<https://www.youtube.com/watch?v=Xb0P5t5NQWM>

How to tell it's fake: <https://www.youtube.com/watch?v=WVr43I16B3Q>

InVid: <https://www.invid-project.eu/>