

Web Literacy for Student Fact-Checkers

by Michael A. Caulfield





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books are made.*

PART I

FOUR MOVES AND A HABIT

1. Why This Book?

The web is a unique terrain, substantially different from print materials. Too often, attempts at teaching information literacy for the web do not take into account both the web's unique challenges and its unique affordances.

Much web literacy I've seen either asks students to look at web pages and think about them, or teaches them to publish and produce things on the web. While both of these activities are valuable, neither addresses a set of real problems students confront daily: evaluating the information that reaches them through their social media streams. For these daily tasks, students need concrete strategies and tactics for tracing claims to sources and for analyzing the nature and reliability of those sources.

The web gives us many such strategies, tactics, and tools, which, properly used, can get students closer to the truth of a statement or image within seconds. Unfortunately, we do not teach students these specific techniques. As many people have noted, the web is both the largest propaganda machine ever created and the most amazing fact-checking tool ever invented. But if we

haven't taught our students those fact-checking capabilities, is it any surprise that propaganda is winning?

This is an unabashedly practical guide for the student fact-checker. It supplements generic information literacy with the specific web-based techniques that can get you closer to the truth on the web more quickly.

This guide will show you how to use date filters to find the source of viral content, how to assess the reputation of a scientific journal in less than five seconds, and how to see if a tweet is really from the famous person you think it is or from an impostor. It'll show you how to find pages that have been deleted, figure out who paid for the website you're looking at, and whether the weather portrayed in that viral video actual matches the weather in that location on that day. It'll show you how to check a *Wikipedia* page for recent vandalism and how to search the text of almost any printed book to verify a quote. It'll teach you to parse URLs and scan search result blurbs so that you are more likely to get to the right result on the first click. And it'll show you how to avoid baking confirmation bias into your search terms.

In other words, this guide will help you become "web literate" by showing you the unique opportunities and pitfalls of searching for truth on the web. Crazy, right?

This is the instruction manual to reading on the modern internet. I hope you find it useful.

2. Four Moves

What people need most when confronted with a claim that may not be 100% true is *things they can do to get closer to the truth*. They need something I have decided to call “moves.”

Moves accomplish intermediate goals in the fact-checking process. They are associated with specific tactics. Here are the four moves this guide will hinge on:

- **Check for previous work:** Look around to see if someone else has already fact-checked the claim or provided a synthesis of research.
- **Go upstream to the source:** Go “upstream” to the source of the claim. Most web content is not original. Get to the original source to understand the trustworthiness of the information.
- **Read laterally:** Read laterally.¹ Once you get to the source of a claim, read what other people say about the source (publication, author, etc.). The truth is in the network.
- **Circle back:** If you get lost, hit dead ends, or find yourself going down an increasingly confusing

1. I am indebted to researcher Sam Wineburg for this language.

rabbit hole, back up and start over knowing what you know now. You're likely to take a more informed path with different search terms and better decisions.

In general, you can try these moves in sequence. If you find success at any stage, your work might be done.

When you encounter a claim you want to check, your first move might be to see if sites like *Politifact*, or *Snopes*, or even *Wikipedia* have researched the claim (Check for previous work).

If you can't find previous work on the claim, start by trying to trace the claim to the source. If the claim is about research, try to find the journal it appeared in. If the claim is about an event, try to find the news publication in which it was originally reported (Go upstream).

Maybe you get lucky and the source is something known to be reputable, such as the journal *Science* or the newspaper the *New York Times*. Again, if so, you can stop there. If not, you're going to need to *read laterally*, finding out more about this source you've ended up at and asking whether it is trustworthy (Read laterally).

And if at any point you fail—if the source you find is not trustworthy, complex questions emerge, or the claim turns out to have multiple sub-claims—then you circle back, and start a new process. Rewrite the claim. Try a new search of fact-checking sites, or find an alternate source (Circle back).

3.

Building a Fact-Checking Habit by Checking Your Emotions

In addition to the moves, I'll introduce one more word of advice: *Check your emotions.*

This isn't quite a strategy (like "go upstream") or a tactic (like using date filters to find the origin of a fact). For lack of a better word, I am calling this advice a habit.

The habit is simple. When you feel strong emotion—happiness, anger, pride, vindication—and that emotion pushes you to share a "fact" with others, STOP. Above all, these are the claims that you must fact-check.

Why? Because you're already likely to check things you know are important to get right, and you're predisposed to analyze things that put you in an intellectual frame of mind. But things that make you angry or overjoyed, well... our record as humans are not good with these things.

As an example, I'll cite this tweet that crossed my Twitter feed:



Ron Hogan
@RonHogan

[Follow](#)

The Nazis murdered Sen. Schumer's great-grandmother, and most of her children.

Trump's father was arrested at a Ku Klux Klan rally.



Bradd Jaffy @BraddJaffy

Trump: "I noticed Chuck Schumer yesterday with fake tears" over immigration ban/refugees; "I'm gonna ask him who is his acting coach"

RETWEETS 55,682 LIKES 61,985



Figure 1

You don't need to know much of the background of this tweet to see its emotionally charged nature. President Trump had insulted Chuck Schumer, a Democratic Senator from New York, and characterized the tears that Schumer shed during a statement about refugees as "fake tears." This tweet reminds us that Senator Schumer's great-grandmother died at the hands of the Nazis, which could explain Schumer's emotional connection to the issue of refugees.

Or does it? Do we actually know that Schumer's great-grandmother died at the hands of the Nazis? And if we are not sure this is true, should we really be retweeting it?

Our normal inclination is to ignore verification needs when we react strongly to content, and researchers have found that content that causes strong emotions (both positive and negative) spreads the fastest through our

social networks.¹ Savvy activists and advocates take advantage of this flaw of ours, getting past our filters by posting material that goes straight to our hearts.

Use your emotions as a reminder. Strong emotions should become a trigger for your new fact-checking habit. Every time content you want to share makes you feel rage, laughter, ridicule, or even a heartwarming buzz, spend 30 seconds fact-checking. It will do you well.

1. See "What Emotion Goes Viral the Fastest?" by Matthew Shaer.

PART II

LOOK FOR PREVIOUS WORK

4. How to Use Previous Work

When fact-checking a particular claim, quote, or article, the simplest thing you can do is to see if someone has already done the work for you.

This doesn't mean you have to accept their finding. Maybe they assign a claim "four Pinocchios," but you would rate it three. Maybe they find the truth "mixed," but honestly it looks "mostly false" to you.

Regardless of the finding, a reputable fact-checking site or subject wiki will have done much of the leg work for you: tracing claims to their source, identifying the owners of various sites, and linking to reputable sources for counterclaims. And that legwork, no matter what the finding, is probably worth ten times your intuition. If the claims and the evidence they present ring true to you, or if you have built up a high degree of trust in the site, then you can treat the question as closed. But even if you aren't satisfied, you can start your work from where they left off.

Constructing a Query to Find Previous Fact-Checking

You can find previous fact-checking by using the "site" option in search engines such as Google and DuckDuckGo

to search known and trusted fact-checking sites for a given phrase or keyword. For example, if you see this story,

Home About Archives Advertise Facebook Twitter YouTube

MORE HYPOCRISY: Obama Banned all Iraqi Refugees for 6 Months in 2011 – Liberals SAID NOTHING!

Jim Hoft Jan 28th, 2017 1:40 pm — 88 Comments

Protests erupted at JFK's terminal 4 on Saturday after incoming refugees were detained by customs and border patrol agents following Trump's executive order temporarily banning refugees from 7 Muslim countries.



Figure 2

then you might use this query, which checks a couple known fact-checking sites for the keywords: obama iraqi refugee ban 2011. Let's use the *DuckDuckGo* search engine to look for the keywords:

obama iraqi visa ban 2011 site:snopes.com site:politifact.com

Here are the results of our search:



obama iraqi visa ban 2011 site:snopes.com site:politifact.com

Web Images Videos

All Regions ▾ Anytime ▾

Showing results from: snopes.com × politifact.com × All Results

Did President Obama Ban Muslims from Entering the United ...
 ... back in 2011 when Barack Obama banned Iraqi refugees for six months the far ... [2011 Iraqi "ban"] ... Miriam. "U.S. Sued By Its Iraqi Helpers Over Visa ...
 snopes.com/president-obama-ban-muslims-2011/

Why comparing Trump's and Obama's immigration restrictions is ...
 ... My policy is similar to what President Obama did in 2011 when he banned ... blanket ban on visitors. Obama, ... by Obama, revising the United States' visa ...
 politifact.com/truth-o-meter/statements/2017/jan/30/dona...

Snopes Search: did obama ban muslims in 2011
 Did President Obama Ban Muslims from Entering the United ... Comparisons between a 2011 Obama administration slowdown on processing Iraqi ... Visa Declined ...
 snopes.com/search/?q=did+obama+ban+muslims+in+2011#!

Were the 7 nations identified in Donald Trump's travel ban ...
 ... were the seven nations that are identified in Trump's travel ban pegged by the Obama ... 2011. They must have a visa ... Iraq, Libya , Somalia and ...
 politifact.com/wisconsin/statements/2017/feb/07/reince-p...

Figure 3

You can see the search [here](#). The results show that work has already been done in this area. In fact, the first result from Snopes answers our question almost fully. Remember to follow best search engine practice: scan the results and focus on the URLs and the blurbs to find the best result to click in the returned result set.

There are similar syntaxes you can use in *Google*, but for various reasons this particular search is easier in *DuckDuckGo*.

Let's look at another claim, this time from the President. This claim is that police officer deaths increased 56 percent from 2015 to 2016. Here it is in context:

Mike Caulfield

can to help you meet those demands. That includes a zero tolerance policy for acts of violence against law enforcement. We all see what happens. We all see what happens and what's been happening to you. It's not fair.

We must protect those who protect us. The number of officers shot and killed in the line of duty last year increased by 56 percent from the year before. Last year, in Dallas, police officers were targeted for execution -- think of this. Who ever heard of this? They were targeted for execution.

Figure 4

Let's ramp it up with a query that checks four different fact-checking sites:

```
officer deaths 2016 increased 56 percent from 2015
site:factcheck.org    site:snopes.com    site:politifact.com
site:www.washingtonpost.com/news/fact-checker/
```

This gives us back a helpful array of results. The first, from the *Washington Post*, actually answers our question directly, but some of the others provide some helpful context as well.

WEB LITERACY FOR STUDENT FACT-CHECKERS



officer deaths in 2016 increased 56 percent from 2015 site:factcheck.org site



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All Regions ▾ Anytime ▾

Showing results from: factcheck.org x snopes.com x politifact.com x www.washingtonpost.com/news/fact-checker/ x [All Results](#)

Trump's claim that the number of officer deaths in 2016 ...

Trump's claim that the number of officer deaths in 2016 increased 56 percent from 2015. ... and the percentage of **officers** killed by gunfire in 2016 was the ...

 <https://washingtonpost.com/news/fact-checker/wp/2017/02/09/trumps-claims-about-police-deaths-in-2016-were-wrong/>

Are Black Police Officers More Likely to Kill Black People ...

... On 20 September 2016, ... **percent** of the **officers** were ... in encounters that ultimately resulted in the **death** of an unarmed person in 2015, ...

 snopes.com/black-police-officers-likely-kill-black-people/

Killed in the Line of Duty - factcheck.org

Donald Trump says there has been "a substantial rise in the number of **officers** killed in ... a 44 percent increase in **officers** shot and killed so ... 56.25 under ...

 factcheck.org/2016/07/killed-in-the-line-of-duty/

Are most job-related deaths of police caused by traffic ...

... using information on **officer deaths** reported by its field offices, ... (18.8 percent) and traffic pursuit ... Even when you take the 2016 police officer shootings ...

 <https://washingtonpost.com/news/fact-checker/wp/2016/07/12/are-most-police-deaths-caused-by-traffic-accidents/>

Figure 5

Going to the *Washington Post* lets us know that this claim is, for all intents and purposes, true. We don't need to go further, unless we want to.

5. Fact-checking Sites

Some Reputable Fact-Checking Organizations

The following organizations are generally regarded as reputable fact-checking organizations focused on U.S. national news:

- *Politifact*
- *Factcheck.org*
- *Washington Post Fact Checker*
- *Snopes*
- *Truth be Told*
- *NPR Fact-Check*
- *Lie Detector* (Univision, Spanish language)
- *Hoax Slayer*

Respected specialty sites cover niche areas such as climate or celebrities. Here are a few examples:

- *Climate Feedback*
- *SciCheck*
- *Quote Investigator*

There are many fact-checking sites outside the U.S. Here is a small sample:

- [*FactsCan*](#) (Canada)
- [*TrudeauMetre*](#) (Canada)
- [*El Poligrafo*](#) (Mexico)
- [*The Hound*](#) (Mexico)
- [*Guardian Reality Check*](#) (UK)
- [*BBC Reality Check*](#) (UK)
- [*Channel 4 Fact Check*](#) (UK)
- [*Full Fact*](#) (UK)

6. Wikipedia

Wikipedia is broadly misunderstood by faculty and students alike. While *Wikipedia* must be approached with caution, especially with articles that are covering contentious subjects or evolving events, it is often the best source to get a consensus viewpoint on a subject. Because the *Wikipedia* community has strict rules about sourcing facts to reliable sources, and because authors must adopt a neutral point of view, its articles are often the best available introduction to a subject on the web.

The focus on sourcing all claims has another beneficial effect. If you can find a claim expressed in a *Wikipedia* article, you can almost always follow the footnote on the claim to a reliable source. Scholars, reporters, and students can all benefit from using *Wikipedia* to quickly find authoritative sources for claims.

As an example, consider a situation where you need to source a claim that the Dallas 2016 police shooter was motivated by hatred of police officers. *Wikipedia* will summarize what is known about his motives and, more importantly, will source each claim, as follows:

Chief Brown said that Johnson, who was [black](#), was upset

about recent police shootings and the Black Lives Matter movement, and “stated he wanted to kill white people, especially white officers.”^{[4][5]} A friend and former coworker of Johnson’s described him as “always [being] distrustful of the police.”^[61] Another former coworker said he seemed “very affected” by recent police shootings of black men.^[64] A friend said that Johnson had [anger management](#) problems and would repeatedly watch video of the 1991 beating of [Rodney King](#) by police officers.^[85]

Investigators found no ties between Johnson and international terrorist or domestic extremist groups.^[66]

Each footnote leads to a source that the community has deemed reliable. The article as a whole contains over 160 footnotes. If you are researching a complex question, starting with the resources and summaries provided by [Wikipedia](#) can give you a substantial running start on an issue.

PART III

GO UPSTREAM

7. Go Upstream to Find the Source

Our second move, after finding previous fact-checking work, is to “go upstream.” We use this move if previous fact-checking work was insufficient for our needs.

What do we mean by “go upstream”?

Consider this claim on the conservative site the *Blaze*:

Report: US Government Ethics director approved controversial Trump tweets

Kaitlyn Schallhorn © December 30, 2016 4:02 pm



Getty Images/Drew Angerer

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Controversial tweets from the U.S. Office of Government Ethics that praised President-elect Donald Trump were approved by Director Walter M. Shaub personally, the Daily

Figure 6

Is this claim true?

Of course we can check the credibility of this article by considering the author, the site, and when it was last revised. We'll do some of that, eventually. But it would be ridiculous to do it on this page. Why? Because like most news pages on the web, this one provides no original information. It's just a rewrite of an upstream page. We see the indication of that here:

Controversial tweets from the U.S. Office of Government Ethics that praised President-elect Donald Trump were approved by Director Walter M. Shaub personally, [the Daily Dot reported Friday](#).

Through a Freedom of Information Act, [the Daily Dot](#) reported that Shaub sent an email ordering an OGE official to post the tweets. The series of tweets posted Nov. 30 applauded Trump for his supposed efforts to alleviate conflicts of interest with his businesses.

Figure 7

All the information here has been collected, fact-checked (we hope!), and written up by the *Daily Dot*. It's what we call "reporting on reporting." There's no point in evaluating the *Blaze*'s page.

So what do we do? Our first step is to go upstream. Go to the original story and evaluate it. When you get to the *Daily Dot*, then you can start asking questions about the site or the source. And it may be that for some of the information in the *Daily Dot* article you'd want to go a step further back and check their primary sources. But you have to start there, not here.

8. Identifying Sponsored Content

Our warning to “go upstream” before evaluating claims is particularly important with sponsored content. For instance, a lot of time on a site you’ll see “headlines” like these, which I pulled from a highly regarded technology magazine:

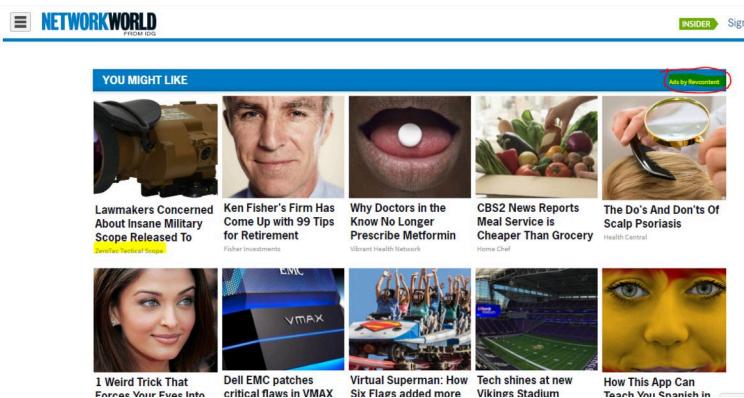


Figure 8

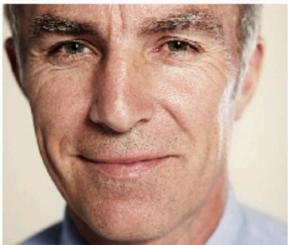
Look at the headline in the upper left corner. Are lawmakers really concerned about this insane military scope? Maybe. But note that *Network World* is not making this claim. Instead, the ZeroTac Tactical Scope company is making the claim:

YOU MIGHT LIKE



**Lawmakers
Concerned
About Insane**

ZeroTac Tactical Scope



**Ken Fisher's
Firm Has Come
Up with 99 Tips**

Fisher Investments



**Why Do
the Kn
Longer**

Vibrant Hea



Figure 9

It's an ad served from another site into this page in a way that makes it look like a story.

However, sponsored content isn't always purely an advertisement. Sometimes it provides helpful information. This piece below, for example, is an in-depth look at some current industry trends in information technology.

The screenshot shows a web page from InfoWorld. At the top, there's a dark header with the InfoWorld logo and a 'FROM IDG' subtext. A small 'INSIDER' badge is in the top right. Below the header, the URL 'Home > Datacenters' is visible. A 'BrandPost' section is labeled 'Sponsored by Hewlett Packard Enterprise' with a 'Learn More' link. The main headline reads 'TRANSFORM YOUR DATA CENTER TO A MODERN HYBRID INFRASTRUCTURE'. A sub-headline below it says 'HPE Advances Among "Leaders" in Gartner's Magic Quadrant for Integrated Systems'. The article is from 'The New York Times' and is marked as 'SPONSORED'. It features a photo of a man, Paul Miller, and a bio: 'By Paul Miller | Follow OCT 31, 2016'. The page includes social sharing icons for Twitter, Facebook, LinkedIn, Google+, and others, and a 'LEARN MORE' button. A 'DEVIALET' logo is in the bottom right corner.

Figure 10

The source of this article is not *InfoWorld*, but the technology company Hewlett Packard, and the piece is written by a Vice President of Hewlett Packard, with no *InfoWorld* oversight. (Keep an eye out on the web for articles that have a “sponsored” indicator above or below them—they are more numerous than you might think!)

You can see how this is not just an issue with political news, but will be an issue in your professional life as well. If you go to work in a technology field and portray this article to your boss as “something I read on *InfoWorld*”, you’re doing a grave disservice to your company. Portraying a vendor-biased perspective as a neutral *InfoWorld* perspective is a mistake you might come to regret.

9. Activity: Spot Sponsored Content

Rank the following news sources on how much sponsored content you believe their pages will feature: CNN, Buzzfeed, Washington Post, HuffPost, Breitbart, New York Times.

Individually, or in groups, visit the following pages and list all sponsored content you see, tallying up the total amount on each page. Then rank the sites from most sponsored content to least.

1. <http://www.cnn.com/2017/02/10/politics/russia-dossier-update/index.html>
2. <http://money.cnn.com/news/>
3. <http://www.vox.com/polyarchy/2017/2/10/14569306/congress-shut-off-phones>
4. <https://www.buzzfeed.com/tylerkingkade/laura-dunns-campus-rape-fight>
5. https://www.washingtonpost.com/powerpost/a-gift-and-a-challenge-for-democrats-a-restive-active-and-aggressive-base/2017/02/11/e265dd44-efef-11e6-b4ff-ac2cf509efef_story.html
6. <http://www.huffingtonpost.com/entry/yale->

calhoun-college-grace-
hopper.us.589f792ce4b094a129eb8a10?ti=all3di&

- 7. <http://www.breitbart.com/video/2017/02/11/japan-condemns-n-korea-missile-launch-trump-u-s-stands-behind-japan-100-percent/>
- 8. <https://www.nytimes.com/2017/02/11/us/state-republican-leaders-move-swiftly.html?>

After you've ranked the websites, answer these questions:

- 1. Did the ranking surprise you at all?
- 2. What do you think the quantity of sponsored content indicates about a website?
- 3. How does this change your perspective on these websites' reliability?
- 4. Why would some websites have more sponsored content than others?

10. Understanding Syndication

Syndication—the process by which material from one site is published automatically to another site—can create confusion for readers who don’t understand it. It’s a often case where something is coming from “upstream” but appears not to be.

Consider this *New York Times* web page:

EUROPE

Germany's Latest Best Seller? A Critical Version of 'Mein Kampf'
By JONATHAN BERNINGER 1:02 AM ET

Historians say their annotated edition of Hitler's manifesto has provoked a necessary discussion and sold 85,000 copies one year since publication

LECCIE JOURNAL

Italian Inmates Sip, Smell and Taste Their Way to Rehabilitation
By GAIA PLANTIGIANI

A program teaches prisoners new professional skills and helps them develop a bond with the region known for its Negroamaro grape varieties.

ISIS Claims Responsibility for Istanbul Nightclub Attack
By TIM ARANZO

The authorities are still searching for the gunman who killed at least 39 people at the upscale Reina nightclub.

NEWS FROM A.P. AND REUTERS

UK Stock Market Hits Record as Manufacturers Win Business
JANUARY 3, 2017 7:30 AM ET

The Latest: Lebanon Bids Farewell to Istanbul Victims
JANUARY 3, 2017 10:57 AM ET

Inmate Involved in Brazil Prison Massacre to Be Transferred
JANUARY 3, 2017 10:45 AM ET

Severe Bolivian Drought Hurts Crops, Threatens Capital
JANUARY 3, 2017 18 Minutes Ago

15 of the Best Journals by Our Reporters Around the World
Compiled by BRIANNA STEENKEY

TIMESVIDEO

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WORLD

Several German Victims in Istanbul Shooting
German officials confirmed Monday that one German and one Turkish citizen residing in Germany were killed at the shooting at an Istanbul nightclub on New Year's Day, while another three German nationals were ↗

Figure 11

We see a set of stories on the left (“Germany’s Latest Best Seller”, “Isis Claims Responsibility”) written by *New York Times* staff, but also a thin column of stories in the

middle of the page (“UK Stock Market Hits Record”) that are identified as being from the Associated Press.

You click through to a page that’s on the *New York Times* site, but not by the *New York Times*:

The screenshot shows the top navigation bar of The New York Times. It includes a 'SECTIONS' menu, a search bar, and the 'The New York Times' logo. To the right are 'SUBSCRIBE' and 'LOG IN' buttons. Below the main header are four news cards: 'Germany's Latest Best Seller? A Critical Version of 'Mein Kampf'', 'LEcce JOURNAL Italian Inmates Sip, Smell and Taste Their Way to Rehabilitation', 'ISIS Claims Responsibility for Istanbul Nightclub Attack', and a 'PAID' section with 'Do You Mora'. A 'EUROPE' category is visible on the left. The main article title 'UK Stock Market Hits Record as Manufacturers Win Business' is displayed in large, bold, italicized text. Below it, the byline 'By THE ASSOCIATED PRESS' and the date 'JAN. 3, 2017, 7:30 A.M. E.S.T.' are shown, along with social media sharing icons.

LONDON — Britain's main stock index hit a record closing high Tuesday as a survey showed manufacturers gaining business from the slide in the value of the pound since the country's decision in June to leave the European Union.

The FTSE 100 index ended the day 0.5 percent higher at 7,177.89, slightly down on its earlier all-time high of 7,205.21.

Figure 12

If you are going to evaluate the source of this article, your evaluation will have little to do with the *New York Times*. You’re going to focus on the reporting record of the *Associated Press*.

People get this wrong all the time. One thing that happens occasionally is that an article critical of a certain politician or policy suddenly disappears from the *New York Times* site, and people claim it’s a plot to rewrite the past. “Conspiracy!” they say. “They’re burying information!” they say. A ZOMG-level freakout follows.

It predominately turns out that the article that disappeared is a syndicated article. *Associated Press* articles, for example, are displayed on the site for a few weeks, then “roll off” and disappear from the site. Why? Because the

New York Times only pays the Associated Press to show them on the site for a few weeks.

You'll also occasionally see people complaining about a story from the *New York Times*, claiming it shows a New York "liberal bias" only to find the story was not even written by the *New York Times*, but by the Associated Press, Reuters, or some other syndicator.

Going upstream means following a piece of content to its true source, and beginning your analysis there. Your first question when looking at a claim on a page should be "Where did this come from, and who produced it?" The answer quite often has very little to do with the website you are looking at.

11.

Tracking the Source of Viral Content

In the examples we've seen so far, it's been straightforward to find the source of the content. The *Blaze* story, for example, clearly links to the *Daily Dot* piece so that anyone reading their summary is one click away from confirming it with the source. The *New York Times* makes apparent that the syndicated content is from the *Associated Press*, so checking the credibility of the source is readily available to you.

This is good internet citizenship. Articles on the web that repurpose other information or artifacts should state their sources, and, if appropriate, link to them. This matters to creators, because they deserve credit for their work. But it also matters to readers who need to check the credibility of the original sources.

Unfortunately, many people on the web are not good citizens. This is particularly true with material that spreads quickly as hundreds or thousands of people share it—so-called “viral” content.

When that information travels around a network, people often fail to link it to sources, or hide them

altogether. For example, here is an interesting claim that two million bikers are going to show up for President-elect Trump's inauguration. Whatever your political persuasion, that would be a pretty amazing thing to see.

But the source of the information, *Right Alerts Polls*, is not linked.

Breaking, Politics

DO YOU SUPPORT PATRIOTIC BIKERS DEFENDING TRUMP'S INAUGURATION?

8 Hours Ago No Comments

[f](#) [g+](#) [t](#) [p](#) [e](#)

[← PREV ARTICLE](#)

Approximately **two million bikers** are planning to arrive in Washington, D.C. by January 20, 2017. The patriotic bikers are volunteering to attend President-Elect Donald Trump's inauguration to enhance safety during the event.

The bikers have stated they want to thwart efforts by "libtards" to ruin the Donald Trump's inauguration. **Right Alerts Polls** reports, Do you support their efforts to prevent the ceremony from erupting into chaos?

Figure 13

Here's where we show our first trick. Using the Chrome web browser, select the text "Right Alerts Polls." Then right-click your mouse (control-click on a Mac), and choose the option to search Google for the highlighted phrase.



Figure 14

Your computer will execute a search for “Right Alerts Polls.” (Remember this right-click/control-click action—it’s going to be the foundation of a lot of stuff we do.)

To find the story, add “bikers” to the end of the search:

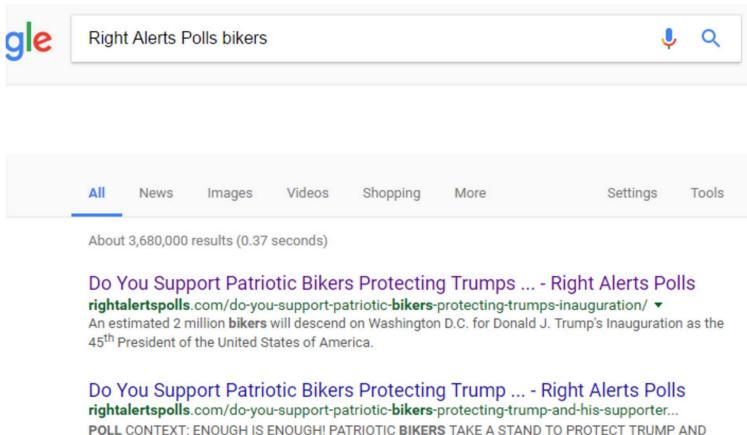


Figure 15

We find our upstream article right at the top. Note that if you do not use Chrome, there are analogues of this method in other browsers as well. Right-clicking in Internet Explorer will allow you to search *Bing*, for example. If you want, you can always do this the slightly longer way by going to *Google* and typing in the search terms.

So are we done here? Have we found the source?

Nope. When we click through to the supposed source article, we find that this article doesn’t tell us where the information is coming from either. However, it does have an extended quote from one of the “Two Million Bikers” organizers:

From the 2 Million Bikers to DC

“ “These libtards need to be shut the hell up. This is not only a biker event but it is a Trump Supporters event. We are many and varied but we unite as one. Christian, Veterans, Bikers, Truckers, Steelworkers, Coal worker’s, Preachers, Fast food workers, all Colors on the human race, if you are a working class American and you support Mr. President Donald Trump then we would love to see you there. Our main objective is to show our Love for our new President and unite as one in a collective effort in Solidarity Brotherhood and Unity. God Bless America.”

Figure 16

So we just repeat our technique here, and select a bit of text from the quote and right-click/control-click. Our goal is to figure out where this quote came from, and searching on this small but unique piece of it should bring it close to the top of the Google results.

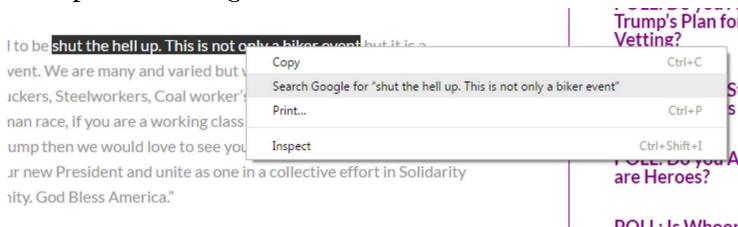


Figure 17

When we search this snippet of the quote, we see that there are dozens of articles covering this story, using the the same quote and sometimes even the same headline. But one of those results is the actual *Facebook* page for the event, and if we want a sense of how many people are committing, then this is a place to start.

shut the hell up. This is not only a biker event

All Images Videos Shopping News More Settings Tools

About 2,310,000 results (0.84 seconds)

QUESTION - Do You Support Patriotic Bikers DEFENDING Trump's ...
www.angrypatriotmovement.com/support-bikers-who-defend-trump/ ▾
 "These libtards need to be shut the hell up. This is not only a biker event, but it is a Trump supporters event. We are many and varied, but we unite as one." a ...

2 Million Trump Supporters To DC. Inauguration Day - Facebook
https://www.facebook.com/events/987730038021648/?active_tab=about ▾
 These libtards need to be shut the hell up. This is not only a biker event but it is a Trump Supporters event. We are many and varied but we unite as one.

Trump Supporting Bikers Rally in Solidarity To Show Support For ...
observatorial.com/2016/11/.../patriot-bikers-ride-shut-protesters-good-didnt-see-comi... ▾

Figure 18

This also introduces us to another helpful practice: when scanning search results, novices scan the titles. Pros scan the URLs beneath the titles, looking for clues as to which sources are best. (Be a pro!)

So we go to the “Two Million Biker” Facebook event page, and take a look. How close are they to getting two million bikers to commit to this?

DC. Inauguration Day

★ Interested + Going Share ...

GUESTS			
8K	interested	1.8K	going
		10K	
		shared with	

Show Map

Figure 19

Well...it looks like about 1,800. That's nothing to sneer at—organizing is hard, and people have lives to attend to. Getting people to give up time for political activity is tough. But it's pretty short of the “two million bikers” most of these articles were telling us were going to show up.

When we get into how to rate articles on the *DigiPo* site as true or false, likely or unlikely, we'll talk a bit about how to write up the evaluation of this claim. Our sense is the rating here is either “Mostly False” or “Unlikely”—there are people planning to go, that's true, but the importance of the story was based around the scale of attendance, and all indications seem to be that attendance is shaping up to be about a tenth of one percent (0.1%) of what the other articles promised.

Importantly, we would have learned none of this had we decided to evaluate the original page. We learned this by going upstream.

12. Tracking the Source of Viral Photos

Another type of viral content on the internet is photography. It is also some of the most difficult to track upstream to a source. Here's a picture that showed up in my stream the other day:



Figure 20

OK, so what's the story here? To get more information, I pull the textual information off the image and throw it in a *Google* search:

shopper upset over double-parked car abc action news

All News Images Videos Shopping More Settings Tools

About 2,830,000 results (0.57 seconds)

Shopper upset over double-parked car - YouTube
<https://www.youtube.com/watch?v=9QU7zqdr7IY> ▾
2 days ago - Someone didn't appreciate this bad parking job in Oregon, and decided to box it in with shopping carts. ... The ABC Action News app brings you the latest trusted news and information. ... ABC Action News, WFTS, covers local news in Tampa Bay and Florida.

Double-parked car blocked with shopping carts - FOX 13 News
www.fox13news.com/trending/224946987-story ▾
1 day ago - We've all been there. You're in the midst of holiday shopping and the parking lots are full. Missing: action
You visited this page on 12/22/16.

Figure 21

This brings me to a *YouTube* video that tells me this was taken “outside a Portland, Oregon Walmart” and has been shared “hundreds of times since yesterday.” So now we search with this new information. This next result shows you why you always want to look past the first result:

Google shopping carts double-parked portland or

All Shopping Images Maps News More Settings Tools

About 153,000 results (0.97 seconds)

Top stories

Double-parked car blocked with shopping carts | FOX 13 Tampa Bay
FOX 13 News, Tampa Bay · 1 day ago

→ More for shopping carts double-parked portland or

Double-parked car blocked with shopping carts | FOX 13 Tampa Bay
www.fox13news.com/trending/224946987-story · 1 day ago - We've all been there. You're in the midst of holiday shopping and the parking lots are full. You visited this page on 12/22/16.

Shopper upset over double-parked car - YouTube <https://www.youtube.com/watch?v=9QU7zqdr7IY>
2 days ago - Uploaded by ABC Action News
Someone didn't appreciate this bad parking job in Oregon, and decided to box it in with shopping carts ...
Missing: portland
You've visited this page 2 times. Last visit: 12/22/16

Driver Double Parks, Gets Instant Karma (Photo) - America Now
www.americanow.com/story/society/.../driver-double-parks-gets-instant-karma-photo · 10 hours ago - A Walmart shopper who double parked got a dose of karma when ... showing the car clearly parked in two spots outside of a Portland, Maine, Walmart. ... angry shopper - was a series of shopping carts completely blocking it.

Photo of car surrounded by shopping carts at Walmart goes viral | WGME
wgme.com/news/local/photo-of-car-surrounded-by-shopping-carts-goes-viral · BIDDEFORD (WGME) - A photo of a car taking up two parking spots surrounded by shopping carts at the ... Matthew Mills of Old Orchard Beach took the picture of the parking lot justice ... Eight arrested in South Portland prostitution sting.

Figure 22

Which one of these items should I click? Again, the idea here is to get “upstream” to something that is closer to the actual event. One way to do that is to find the earliest post, and we’ll use that in a future task. But another way to get upstream is to get closer to the event in space. Think about it: who is more likely to get the facts of a local story correct, the local newspaper or a random blog?

So as you scan the search results, look at the URLs. *Fox 13 News* has it in “trending.” *AmericaNow* has it in the “society” section.

But the *WGME* link has the story in a “news/local/” directory. This is interesting, because the other site said it happened in Oregon, and here the location is clearly

Maine. But this URL pattern is a strong point in the website's favor.

Further indications here that it might be a good source is that we see in the blurb it mentions the name of the photographer, "Matthew Mills." The URL plus the specificity of the information tell us this is the way to go.

This takes me to what looks like the news page where it went viral, which embeds the original post.

BIDDEFORD (WGME) -- A photo of a car taking up two parking spots surrounded by shopping carts at the Biddeford Walmart has been shared all over the country.

Matthew Mills of Old Orchard Beach took the picture of the parking lot justice Sunday afternoon.

CBS 13 posted it Monday morning, and it went viral.



OOPS! Someone wasn't happy about this double-parked car...Matthew Mills snapped this picture at the Biddeford Walmart.

19K 3.8K 120K

Figure 23

We see here that the downstream news report we found first had a bunch of things wrong. It wasn't in Portland, Oregon—it was in Biddeford, which is near Portland, Maine. It hasn't been shared "hundreds of times"—it's been shared hundreds of thousands of times. And it was made viral by a CBS affiliate, a fact that *ABC Action News* in Tampa doesn't mention at all.

OK, let's go one more step. Let's look at the Facebook page where Matthew Mills shared it. Part of what we want to see is whether or not this was viral before CBS picked it up. I'd also like to double check that Mills is really from the Biddeford area and see if he was responsible for the shopping carts or just happened upon this scene.

The news post does not link back to the original, so we search on Matthew Mills again. There, we find some news outlets mentioning the original caption by Mills: "This guy got a lesson in parking."

**Figure 24**

That's not the same as the caption that the news station put up—maybe it's what Mills originally used. We pump "got a lesson in parking" Matthew Mills" into *Facebook*, and bingo, we get the original post:

Facebook search results for "got a lesson in parking" by Matthew Mills. The search bar shows the query. The results include a link to a post by Matthew Mills from Biddeford, ME, dated December 18 at 11:22am, sharing a photo of a car parked in a shopping cart. The post has 247 shares. The sidebar on the left shows filters for "POSTED BY", "TAGGED LOCATION", and "DATE POSTED".

Figure 25

And here's where we see something unpleasant about news organizations. They cut other news organizations out of the story, every time. So they say this has been shared hundreds of times because in order to say it has been shared hundreds of thousands of times they'd have to mention it was popularized by a CBS affiliate. So they cut CBS out of the story.

This practice can make it easier to track something down to the source. News organizations work hard to find the original source if it means they can cut other news organizations out of the picture. But it also tends to distort how virality happens. The picture here did not magically

become viral—it became viral largely due to the reach of WGME.

Incidentally, we also find answers to other questions in the Matthew Mills version: he took the picture but didn't arrange the carts, and he really is from Old Orchard Beach.

Just because we're extra suspicious, we throw the image into *Google Images* to see if maybe this is a recycled image. Sometimes people take old images and pretend the images are theirs—changing only the the supposed date and location. A *Google* reverse image search (see below) shows that it does not appear to be the case here, although in doing that we find out this is a very common type of viral photo called a “parking revenge” photo. The specific technique of circling carts around a double-parked car dates back to at least 2012:

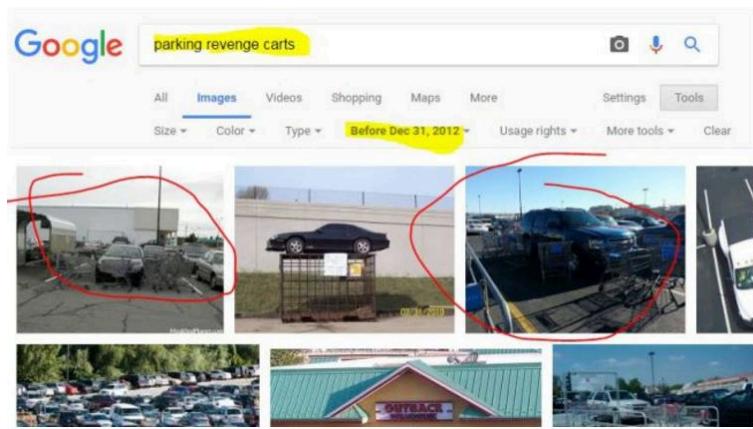


Figure 26

When we click through we can see that the practice was popularized, at least to some extent, by *Reddit* users. See, for instance, this post from December 2012:

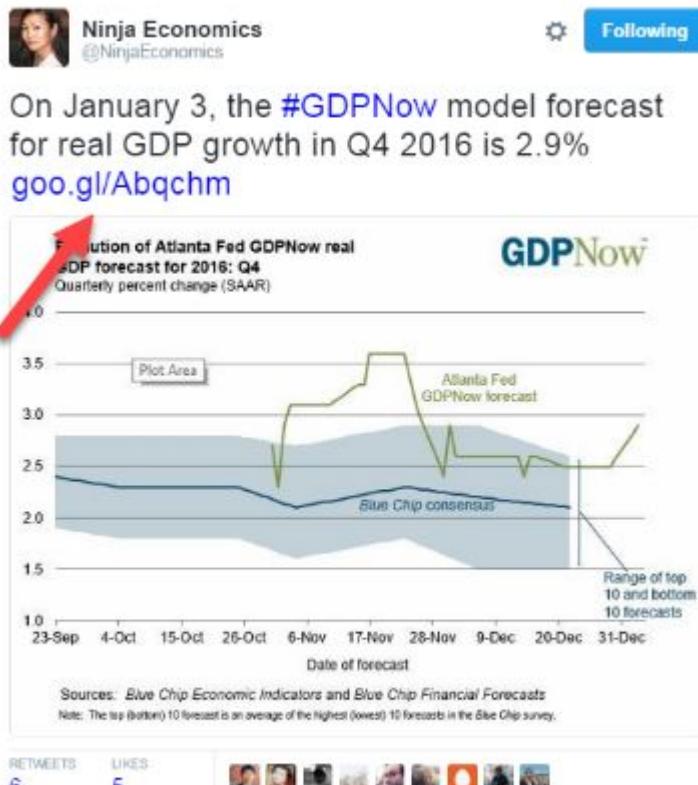


Figure 27

So that's it. It's part of a parking revenge meme that dates back at least four years, and was popularized by Reddit. This particular one was shot by Matthew Mills in Biddeford, Maine, who was not the one who circled the carts. And it became viral through the reshare provided by a local Maine news station.

13. Using Google Reverse Image Search

Most of the time finding the origin of an image on *Twitter* is easy. Just follow the links. For instance, take the chart in this tweet from *Twitter* user @NinjaEconomics. Should you evaluate it it by figuring out who @NinjaEconomics is?



RETWEETS
6

LIKES
5



3:00 PM - 3 Jan 2017

Reply Retweet 6 Like 5 More

Figure 28

Nope. Just follow that link to the source. Links are usually the last part of a tweet.

If you do follow that link, the chart is there, with a bunch more information about the data behind it and how it was produced. It's from the Atlanta Federal Reserve,

and it's the Fed—not @NinjaEconomics—that you want to evaluate.

But sometimes people will post a photo that has no source, as this person does here:



Figure 29

So we have questions.

First, is this actually a *National Geographic* photographer? More importantly, is this real? Is that lava so hot that it will literally set a metal tripod on fire? That seems weird, but we're not lava experts.

There's no link here, so we're going to use reverse image search. If you're using Google Chrome as a browser, put the cursor over the photo and right-click (control-click on a Mac). A "context menu" will pop up and one of the options will be "Search Google for image."



Figure 30

(For the sake of narrative simplicity we will show solutions in this text as they would be implemented in Chrome. Classes using this text are advised to use Chrome where possible. The appendix contains notes about translating these tactics to other browsers, and you can of course search the web for the Firefox and Safari corollaries.)

When we reverse search this image we find a bunch of

pages that contain the photo, from a variety of sites. One of the sites returned is *Reddit*. *Reddit* is a site that is famous for sharing these sorts of photos, but it also has a reputation for having a user base that is very good at spotting fake photos.

Visually similar images



Report images

Pages that include matching images

In the heat of the moment : pics - Reddit



https://www.reddit.com/r/pics/comments/.../in_the_heat_of_the_moment/ ▾
1600 x 1066 - Jan 28, 2014 - A place to share photographs and pictures. Feel free to post your own, but please read the rules first (see below), and note that we are not a ...

Mind Blowing Images of the Planet With Live On - Page 2 of 2 ...



<https://www.outdoorrevival.com/news/mind-blowing-images-of-the.../2>
640 x 426 - Aug 26, 2015 - IN THE HEAT OF THE MOMENT. kawika-singson-standing-on-lava-shoes-tripod-on-. Photograph of KAWIKA SINGSON | Taken by Chris Hirata.

similar image search for post: When you want the perfect shot. [PIC ...



karmadecay.com/r/woahdude/.../when_you_want_the_perfect_shot_pic/

Moment.. - YohYoh.com Showcase online and Promote



www.yohyoh.com/tags/moment.. ▾
481 x 320 - An Extremely Dedicated Photographer In The Heat Of The Moment.. Tag it. Add your own tag. Login, click on the image in inner page, fill the form and save.

Figure 31

When we go to the *Reddit* page we find there is an argument there over whether the photo is fake or not. But again, *Reddit* is not our source here—we need to go further upstream. So we click the link in the *Reddit* forum that says

it's real and get [taken to an article](#) where they actually talk to the photographer:

 This is an archived post. You won't be able to vote or comment.

 743   **In the heat of the moment** (i.imgur.com)
submitted 2 years ago by gabberc
54 comments share

[all 54 comments](#)

sorted by: [best](#) ▾

 [\[-\] WhiteRun](#) 107 points 2 years ago
 It's fake.
[permalink](#) [embed](#)
[load more comments](#) (10 replies)

 [\[-\] weezermc78](#) 36 points 2 years ago
 ...Hey man
[permalink](#) [embed](#)

 [\[-\] prickinthewall](#) 18 points 2 years ago
 Looks real to me
[permalink](#) [embed](#)
[load more comments](#) (3 replies)

Figure 32

That brings us to one of the original stories about this photo:

Hot Lava Sets Adventurous Photographer's Feet on Fire

By Katie Hosmer on July 15, 2013

LIKE MY MODERN MET ON FACEBOOK  Like 1.6M

GET OUR WEEKLY NEWSLETTER 



Figure 33

Now we could stop here and just read the headline. But all good fact-checkers know that headlines lie. So we read the article down to the bottom:

For this particular shot, Singson says, “Always trying to be creative, I thought it would be pretty cool (hot!) to take a lava pic with my shoes and tripod on fire while photographing lava.”

This may be a bit pedantic, but I still don’t know if this was staged. Contrary to the headline the photographer doesn’t say lava made his shoes catch on fire. He says he wanted to take a picture of himself with his shoes on fire while standing on lava.

So did his shoes catch on fire, or did he set them on fire? I do notice at the bottom of this page though that this is just a retelling of an article published elsewhere; it’s

not this publication who talked to the photographer! It's a similar situation to what we saw in an earlier chapter, where the *Blaze* was simply retelling a story that was investigated by the *Daily Dot*.



Kawika Singson's website
via [PetaPixel]

Figure 34

In webspeak, “via” means you learned of a story or photo from someone else. In other words, we still haven’t gotten to the source. So we lumber upstream once again, to the *PetaPixel* site from whence this came. When we go upstream to that site, we find an addendum on the original article:

Update on 7/17/13: [Hawaii News Now confirms](#) that this was done as a stunt:

!! The photo is real, but the flames are not the result of spontaneous combustion. “The flames on the tripod and my shoes did not start because of the lava” Singson freely admits. “It’s like if you put your shoe in a hot frying pan, it will not catch fire right away”.

Singson used an accelerant to start the flames then had his buddy snap the shot. The reason? “It’s just something I wanted for my Facebook cover photo”.

Figure 35

So a local news outfit has confirmed the photographer did use an accelerant. The photograph was staged. Are we done now?

Not quite. You know what the next step is, right?

Go upstream to *Hawaii News Now*!

So we do that. We click the link, and we find the quote is

good. I like *Hawaii News Now* for another reason—they are a local news service, so they know a bit about lava fields. That's probably why they asked the question no one else seemed to ask: "Is that really possible?"

Finally, let's find out about *Hawaii News Now*. We start by selecting *Hawaii News Now* and using our Google search option:



Figure 36

And what we get back is pretty promising: there's a Google knowledge panel that comes up that tells us it's bona fide local news program from a CBS affiliate in Hawaii.

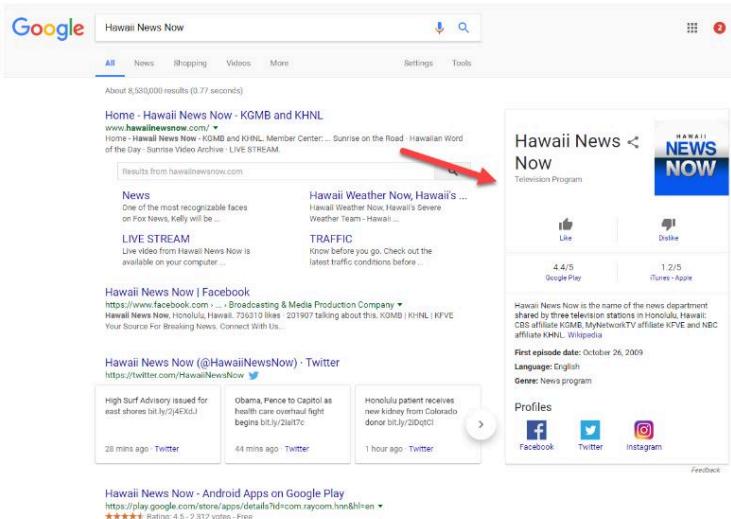


Figure 37

Honestly, you could stop there. We've solved this riddle. The photographer was really on hot lava, which is impressive in itself, but used some accelerant (such as lighter fluid) to set his shoes and tripod on fire. Additionally, the photo was a stunt, and not part of any naturally occurring *National Geographic* shoot. We've traced the story back to its source, found the answer, and got confirmation on the authoritative nature of the source.

We're sticklers for making absolutely sure of this, so we're going to go upstream one more time, and click on the *Wikipedia* link to the article on the Google knowledge panel to make sure we aren't missing anything. But I don't have to make you watch that. I'll tell you right now it will turn out fine.

In this case at least.

14.

Filtering by Time and Place to Find the Original

As I've mentioned above, going upstream is often a journey through time and space. The original story is also the *first* story, and as we saw with the Hawaiian news site, local sources often have special insights into stories.

There are specific tactics you can use with Google and other search engines to help you find original material more quickly.

The following photo is another photo that *Twitter* users have identified as another “*National Geographic* photographer” photo. Is it?



Figure 38

A Google reverse image search finds the photo, suggesting the best search term is “birds attacking people.”



Figure 39

This suggestion is based on the fact that the pages where this photo shows up often contain these words: “birds attacking people.”

Pages that include matching images

Dangerous Birds - Top 10 Birds That Could Kick Your Ass - Toptenz.net



www.toptenz.net/top-10-birds-that-could-kick-your-ass.php ▾

1920 x 1080 - Jan 3, 2009 - However, not all birds are cute, and not all of them are nice, so to speak. There are hundreds of dangerous birds that could attack a human, and ...

Bird attack, Birds and People on Pinterest



<https://www.pinterest.com/pin/146718900333659923/> ▾

236 x 213 - It doesn't surprise me that some animals attack people unless you are familiar with them and their behavior, it's normal, they are wild, but some of them, like ...

Bird attack, Birds and People on Pinterest



<https://www.pinterest.com/pin/146718900333658599/> ▾

236 x 213 - Isaiah 35 The wilderness and the parched land will exult, And the desert plain will be joyful and blossom as the saffron. 2 Without fail it will blossom; It will rejoice ...

Bird attack, Birds and People on Pinterest



<https://www.pinterest.com/pin/146718900333658634/> ▾

236 x 213 - See more about Bird attack, Birds and People. ... When Birds Attack People - jesad.com. Save Learn more at jesad.com · Animals AahSmile AnimalsAnimals ...

Top 7 Best Eagle Attacks (GRIZZLY,KANGAROO...& MAN) HD ...



<https://www.youtube.com/watch?v=EwTuI9-HGu8> ▾

1920 x 1080 - Jun 15, 2014 - More Eagle attacks and Animal Videos: Top 7 Best Eagle Attacks.... Etc) - Duration: 10:39. Bird Song 2 8,647,685 views. 10:39. Abnormally ...

Figure 4o

We can modify that search, however. Let's return only the older pictures.

We do that by clicking the “Tools” button and then using the “Time” dropdown to select “Custom range.” This should filter out some of the posts that merely include this in slideshows.

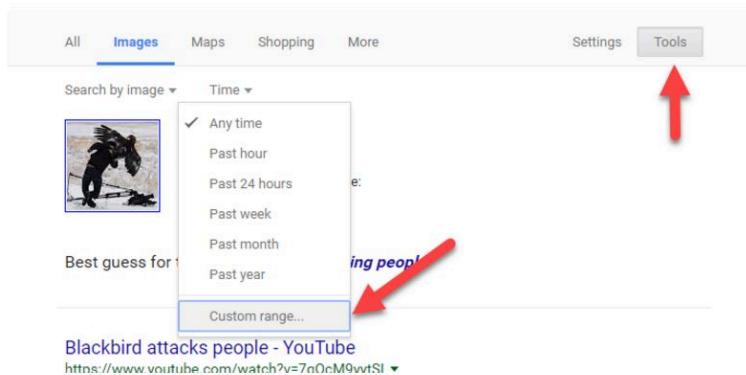


Figure 41

We pick a date in the past to see if we can filter out the newer photos. We remove the “birds attacking people” search and replace it with “bird,” since the other phrase sounds like a title for a slideshow with many of these sorts of photos in it. The original isn’t likely to be on a page like that; the slideshows come later in the viral cycle:

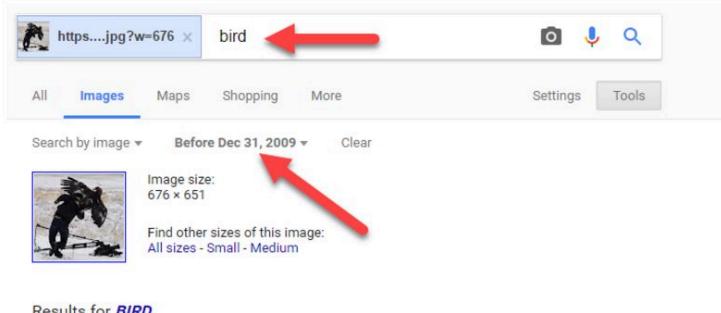


Figure 42

Why 2009? For viral photos I usually find 2009 or 2010 a good starting point. If you don’t find any results within that parameter, then go higher, to a year like 2012. If you

find too many results, then change the search to something like 2007.

Here we get a much better set of results. Instead of a list of “When Birds Attack” slideshows, we get a set of results talking about this *specific* photo. One of the results stands out to me.

Pages that include matching images

Fat Kid At Camp | Fuck you, cameraman...I'm a bird!



fatkidatcamp.com/2009/12/20/sunday.../fuck-you-cameraman-im-a-bird/ ▾

640 x 626 - Dec 18, 2009 - Fuck you, cameraman...I'm a bird! Posted On: December 18, 2009

By: Fat Kid Comments: (0). Fuck you, cameraman...I'm a bird! dead bug crime scene.

Good reasons why you shouldn't mess with nature - Sharenator



www.sharenator.com/Good_reasons_why_not_to_fk_with_nature/ ▾

500 x 489 - Jan 1, 2010 - bird attack11 - good reasons why you shouldn't mess with nature -

polar bear attack · polar bear chase · ulizv - good reasons why you shouldn't mess with nature.

Got too close to the hawk :(- PentaxForums.com



www.pentaxforums.com/.../Off-Topic_Forum.../General_Talk... ▾

Dec 22, 2009 - 15 posts - 8 authors

500 x 489 - And as the poster said, these are trained... so its more like the camera man pissed off the hunter rather than the bird itself. Rest of the photos. Kazakhstan Eagle ...



For all you falconers out there.... - LotusTalk - The Lotus Cars ...



www.lotustalk.com/.../Community.../Other... ▾

Dec 23, 2009 - 10 posts - 9 authors

500 x 489 - The speck got larger and larger, until you could see the bird in a full dive. It hit the ...

The bird didn't attack the photographer, he attacked the videographer.

Figure 43

This third result looks most promising for two reasons:

1. The poster of the “Got too close to the hawk” result seems to know a bit more about the situation, noting “these birds are trained.”
2. It mentions “Kazakhstan Eagle.” That’s a name of a type of bird, but it’s also a place, and if we could confirm this took place in Kazakhstan, there will be other ways to trace this back to the original. Remember—going upstream is about getting

closer in time to the original, but it can also mean getting closer in space.

Luckily when we go to that page it links us in the comments to a page that has the set of shots that the photographer was taking, as well as a shot of this cameraman being attacked from another angle.

THE PRESS
press.co.nz

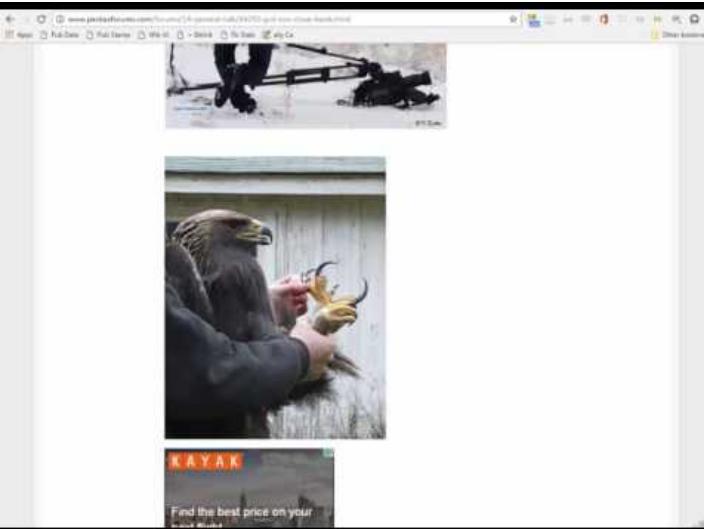


Figure 44

It's a series of photos from a hunting competition in Chengelsy Gorge, Kazakhstan. The eagle attacking him is tame and trained, but for some reason attacked him anyway. So this is real; it's not photoshopped or staged. At

the same time it's not a *National Geographic* photographer. We could pursue it further if we wanted, but we'll stop here.

While this process takes some time to explain, in practice it can be done in about 90 seconds. Here's a *YouTube* video that shows what this looks like in practice.



A YouTube element has been excluded from this version of the text. You can view it online here:

<https://webliteracy.pressbooks.com/?p=160>

(Note that as long as you are careful with confirmation bias, you can replace the search term “bird” with a term like “fake” to find pages claiming the image is fake and see what evidence they present.)

Going local is also useful for other sorts of events. Here is text from a story that ran in many right-wing blogs, under headlines such as “Teen Girls Savagely Beaten By Black Lives Matter Thugs”:

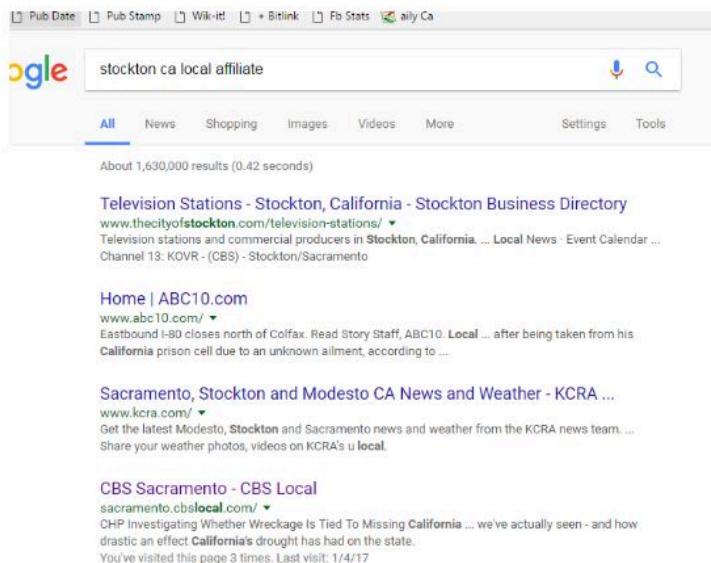
Two white teenage girls and their mother were attacked during the protests in Stockton last Friday. The young girls were transported to the hospital by police after being viciously beaten by Black Lives Matter supporters, but one of the attackers will soon face criminal charges for his role in the assault.

The two teenage girls said they were viciously attacked by more than a dozen male and female protesters as they were leaving a restaurant. As they were leaving the restaurant, they were approached by a group of protesters chanting “*Black Lives Matter*.”

The headlines and the language used in those posts were often inflammatory and racist, but is there really a story under this? Or is the story fake?

There are many ways we can investigate the story, but for a local event like this you would expect some local coverage. So to go upstream here, one option is to go local. In this case we look to see what news organizations cover the area, by typing in “stockton ca local affiliate”:

WEB LITERACY FOR STUDENT FACT-CHECKERS



stockton ca local affiliate

All News Shopping Images Videos More Settings Tools

About 1,630,000 results (0.42 seconds)

Television Stations - Stockton, California - Stockton Business Directory
www.thecityofstockton.com/television-stations/ ▾
Television stations and commercial producers in Stockton, California. ... Local News · Event Calendar ...
Channel 13: KOVR - (CBS) - Stockton/Sacramento

Home | ABC10.com
www.abc10.com/ ▾
Eastbound I-80 closes north of Colfax. Read Story Staff, ABC10. Local ... after being taken from his California prison cell due to an unknown ailment, according to ...

Sacramento, Stockton and Modesto CA News and Weather - KCRA ...
www.kcra.com/ ▾
Get the latest Modesto, Stockton and Sacramento news and weather from the KCRA news team. ...
Share your weather photos, videos on KCRA's u local.

CBS Sacramento - CBS Local
sacramento.cbslocal.com/ ▾
CHP Investigating Whether Wreckage Is Tied To Missing California ... we've actually seen - and how drastic an effect California's drought has had on the state.
You've visited this page 3 times. Last visit: 1/4/17

Figure 45

Then we go to one of those sites and look for the news, typing in “teenage girls black lives matter.”



Figure 46

And in doing that we find that the [event did happen](#). But the facts, if you follow that link, are more complex than most of the tertiary coverage will convey.

There's plenty to argue about concerning the event. But by going to the local source we can start with a cleaner version of the facts. This isn't to say that local news is

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always reliable, but in a sea of spin and fakery, it's not a bad place to start for coverage and confirmation of local events.

15.

Activity: Trace Viral Photos Upstream

These two photos have been attributed to *National Geographic* shoots by the same tweeter I mentioned above.

I put the photos below. If you are reading this on the web, go to it. If you are reading this book in PDF form, you'll have to go [find them at the Hapgood blog](#) to use your Google reverse image Search right-click/control-click action.

Bearing It

The first one is easy. Is this real, or fake? And are these *National Geographic* photographers or not? Is the bear real?



Figure 47

Swan Song

This second one is a lot harder. But is this real or fake? If real, can you find the name of the photographer in the swan and his nationality? If fake, can you show a debunking of it?



Figure 48

Truck Bomb

This next one is political. It was shared by a *Twitter* user who claimed it was a picture of an Irish Republican Army bombing. To paraphrase the poster: “This is London in 1993 after an IRA truck bomb. We didn’t ban Irish people or Catholics.” The poster making a comparison to recent moves to ban travel from Muslim countries in the U.S.

Is this a picture of a 1993 London truck bombing? If so, how many people died and/or were injured? What was the response?



Figure 49

Going Rambo



Figure 50

PART IV

READ LAT&RALLY

16. What “Reading Laterally” Means

Time for our third move: good fact-checkers read “laterally,” across many connected sites instead of digging deep into the site at hand.

When you start to read a book, a journal article, or a physical newspaper in the “real world,” you already know quite a bit about your source. You’ve subscribed to the newspaper, or picked it up from a newsstand because you’ve heard of it. You’ve ordered the book from Amazon or purchased it from a local bookstore because it was a book you were interested in reading. You’ve chosen a journal article either because of the quality of the journal article or because someone whose expertise and background you know cited it. In other words, when you get to the document you need to evaluate, the process of getting there has already given you some initial bearings.

Compared to these intellectual journeys, web reading is a bit more like teleportation. Even after following a source upstream, you arrive at a page, site, and author that are often all unknown to you. How do you analyze the author’s qualifications or the trustworthiness of the site?

Researchers have found that most people go about this the wrong way. When confronted with a new site, they

poke around the site and try to find out what the site says about itself by going to the “about page,” clicking around in onsite author biographies, or scrolling up and down the page. This is a faulty strategy for two reasons. First, if the site is untrustworthy, then what the site says about itself is most likely untrustworthy, as well. And, even if the site is generally trustworthy, it is inclined to paint the most favorable picture of its expertise and credibility possible.

The solution to this is, in the words of Sam Wineburg’s Stanford research team, to “read laterally.” Lateral readers don’t spend time on the page or site until they’ve first gotten their bearings by looking at what other sites and resources say about the source at which they are looking.

For example, when presented with a new site that needs to be evaluated, professional fact-checkers don’t spend much time on the site itself. Instead they get off the page and see what other authoritative sources have said about the site. They open up many tabs in their browser, piecing together different bits of information from across the web to get a better picture of the site they’re investigating. Many of the questions they ask are the same as the vertical readers scrolling up and down the pages of the source they are evaluating. But unlike those readers, they realize that the truth is more likely to be found in the network of links to (and commentaries about) the site than in the site itself.

Only when they’ve gotten their bearings from the rest of the network do they re-engage with the content. Lateral readers gain a better understanding as to whether to trust the facts and analysis presented to them.

You can tell lateral readers at work: they have multiple tabs open and they perform web searches on the author of the piece and the ownership of the site. They also look at pages linking to the site, not just pages coming from it.

Lateral reading helps the reader understand both the perspective from which the site's analyses come and if the site has an editorial process or expert reputation that would allow one to accept the truth of a site's facts.

We're going to deal with the latter issue of factual reliability, while noting that lateral reading is just as important for the first issue.

17.

Evaluating a Website or Publication's Authority

Authority and reliability are tricky to evaluate. Whether we admit it or not, most of us would like to ascribe authority to sites and authors who support our conclusions and deny authority to publications that disagree with our worldview. To us, this seems natural: the trustworthy publications are the ones saying things that are correct, and we define “correct” as what we believe to be true. A moment’s reflection will show the flaw in this way of thinking.

How do we get beyond our own myopia here? For the Digital Polarization Project for which this text was created, we ended up adopting [Wikipedia's guidelines](#) for determining the reliability of publications. These guidelines were developed to help people with diametrically opposed positions argue in rational ways about the reliability of sources using common criteria.

For Wikipedians, reliable sources are defined by *process*,

aim, and *expertise*. I think these criteria are worth thinking about as you fact-check.

Process

Above all, a reliable source for facts should have a process in place for encouraging accuracy, verifying facts, and correcting mistakes. Note that reputation and process might be apart from issues of bias: the *New York Times* is thought by many to have a center-left bias, the *Wall Street Journal* a center-right bias, and *USA Today* a centrist bias. Yet fact-checkers of all political stripes are happy to be able to track a fact down to one of these publications since they have reputations for a high degree of accuracy, and issue corrections when they get facts wrong.

The same thing applies to peer-reviewed publications. While there is much debate about the inherent flaws of peer review, peer review does get many eyes on data and results. Their process helps to keep many obviously flawed results out of publication. If a peer-reviewed journal has a large following of experts, that provides even more eyes on the article, and more chances to spot flaws. Since one's reputation for research is on the line in front of one's peers, it also provides incentives to be precise in claims and careful in analysis in a way that other forms of communication might not.

Expertise

According to Wikipedians, researchers and certain classes of professionals have expertise, and their usefulness is defined by that expertise. For example, we would expect a

marine biologist to have a more informed opinion about the impact of global warming on marine life than the average person, particularly if they have done research in that area. Professional knowledge matters too: we'd expect a health inspector to have a reasonably good knowledge of health code violations, even if they are not a scholar of the area. And while we often think researchers are more knowledgeable than professionals, this is not always the case. For a range of issues, professionals in a given area might have better insight than researchers, especially where questions deal with common practice.

Reporters, on the other hand, often have no domain expertise, but may write for papers that accurately summarize and convey the views of experts, professionals, and event participants. As reporters write in a niche area over many years (e.g. opioid drug policy) they may acquire expertise themselves.

Aim

Aim is defined by what the publication, author, or media source is attempting to accomplish. Aims are complex. Respected scientific journals, for example, aim for prestige within the scientific community, but must also have a business model. A site like the *New York Times* relies on ad revenue but is also dependent on maintaining a reputation for accuracy.

One way to think about aim is to ask what incentives an article or author has to get things right. An opinion column that gets a fact or two wrong won't cause its author much trouble, whereas an article in a newspaper that gets facts wrong may damage the reputation of the reporter. On the far ends of the spectrum, a single bad or retracted

article by a scientist can ruin a career, whereas an advocacy blog site can twist facts daily with no consequences.

Policy think tanks, such as the Cato Institute and the Center for American Progress, are interesting hybrid cases. To maintain their funding, they must continue to promote aims that have a particular bias. At the same time, their prestige (at least for the better known ones) depends on them promoting these aims while maintaining some level of honesty.

In general, you want to choose a publication that has strong incentives to get things right, as shown by both authorial intent and business model, reputational incentives, and history.

18.

Basic Techniques: Domain Searches, WHOIS

What are some quick techniques to identify an unfamiliar site's worldview, process, aims, and expertise?

Web Searching a Domain

The simplest and quickest way to get a sense of where a site sits in the network ecosystem is to Google search the site. Since we want to find out what other sites are saying about the site while excluding what the site says about itself, we use a special search syntax that excludes pages from the target site.

For example, say we are looking at an article in the *Baltimore Gazette*:

the BALTIMORE Gazette

WILLIA
SONOR

HOME LOCAL NATIONAL OBITUARIES HOROSCOPES CONTACT ABOUT

UNCATEGORIZED

CLINTON RECEIVED DEBATE QUESTIONS WEEK BEFORE DEBATE, ACCORDING TO SOURCES

 BG STAFF

SHARE ON:     



The first presidential debate was held and Hillary Clinton was proclaimed the winner by the media. Indeed Clinton was able to turn in a strong debate performance, but did she do so fairly? Multiple reports and leaked information from inside the Clinton camp claim that the Clinton campaign was given the entire set of debate questions an entire week before the actual debate.

Figure 51

Is this a reputable newspaper?

The site is down right now, but when it was up, a search for “baltimoregazette.com” would have returned many pages, mostly from the site itself. As noted earlier, if we

don't know whether to trust a site, it doesn't make much sense to trust the story the site tells us about itself.

So we use a search syntax that looks for all references to the site that are not on the site itself:

baltimoregazette.com -site:baltimoregazette.com

When we do that we get a set of results that we can scan, looking for sites we trust:

Google search results for "baltimoregazette.com -site:baltimoregazette.com".

Results:

- [Someone revived the Baltimore Gazette to spread fake news ...](http://www.citypaper.com.../bcnews-someone-revived-the-baltimore-gazette...)
www.citypaper.com.../bcnews-someone-revived-the-baltimore-gazette... ▾
Sep 23, 2016 - The Baltimore Gazette, a newspaper that existed very briefly just after the Civil War, has returned online as a site to spread fake news stories and other nonsense. One article in particular, "ATLANTA OFFICER KILLS BLACK WOMAN, INJURES CHILD, FOLLOWING BREASTFEEDING ARGUMENT ...
- [baltimore gazette Archives - Snopes.com](http://www.snopes.com/tag/baltimore-gazette/)
www.snopes.com/tag/baltimore-gazette/ ▾
Articles tagged: baltimore gazette 7 Total. Fact Check Fake News. Did a Former Army Sniper Shoot Three Intruders in an Adjacent Home? Jan 12th, 2017 The ...
- [Love Edwards - http://baltimoregazette.com/atlanta-officer-... | Facebook](http://www.facebook.com.../posts/10108153861533045)
https://www.facebook.com.../posts/10108153861533045 ▾
http://baltimoregazette.com/atlanta-officer-kills-black-woman-following-breastfeeding-argument/

Figure 52

These results, as we scan them, give us reason to suspect the site. Maybe we don't know "City Paper," which claims the site is fake. But we *do* know Snopes. When we take a look there, we find the following sentence about the *Gazette*:

On 21 September 2016, the *Baltimore Gazette* — a purveyor of fake news, not a real news outlet — published an article reporting that any “rioters” caught looting in Charlotte would permanently lose food stamps and all other government benefits...

From *Snopes*, that's pretty definitive. This is a fake news site.

Searches like this don't always turn up *Snopes* or *PolitiFact*. Here's the site of the *Pacific Justice Institute*:



Figure 53

Here, a search of Google turns up a *Wikipedia* article:



Figure 54

That article explains that this is a conservative legal defense fund that has been named a hate site by the Southern Poverty Law Center.

Maybe to you that means that nothing from this site is trustworthy; maybe to another person it simply means proceed with caution. But after a short search and two clicks, you can begin reading an article from this site with

a better idea of the purpose behind it, a key ingredient of intentional reading.

Finding Out Who Runs a Site with WHOIS and Other Tools

Some smaller sites don't have reliable commentary around them. For these sites, using WHOIS to find who owns them may be a useful move.

WHOIS gets you information about who is the administrator of the site domain. It can be done from your computer's command line in many cases, but here we'll show the ICANN interface, where we are searching to see [who owns Mother Jones](#), an online news site:

motherjones.com Lookup

Showing results for: MOTHERJONES.COM
Original Query: motherjones.com

Contact Information		
Registrant Contact Name: Foundation for National Progress Organization: Foundation for National Progress Mailing Address: 222 Sutter Street, San Francisco CA 94108 US Phone: +1.4153211700 Ext: Fax: +1.4153211701 Fax Ext: Email:rwise@motherjones.com	Admin Contact Name: Foundation for National Progress Organization: Foundation for National Progress Mailing Address: 222 Sutter Street, San Francisco CA 94108 US Phone: +1.4153211700 Ext: Fax: +1.4153211701 Fax Ext: Email:rwise@motherjones.com	Tech Contact Name: Wise, Robert Organization: Foundation for National Progress Mailing Address: 222 Sutter Street, San Francisco CA 94108 US Phone: +1.4153211700 Ext: Fax: +1.4153211701 Fax Ext: Email:rwise@motherjones.com

Figure 55

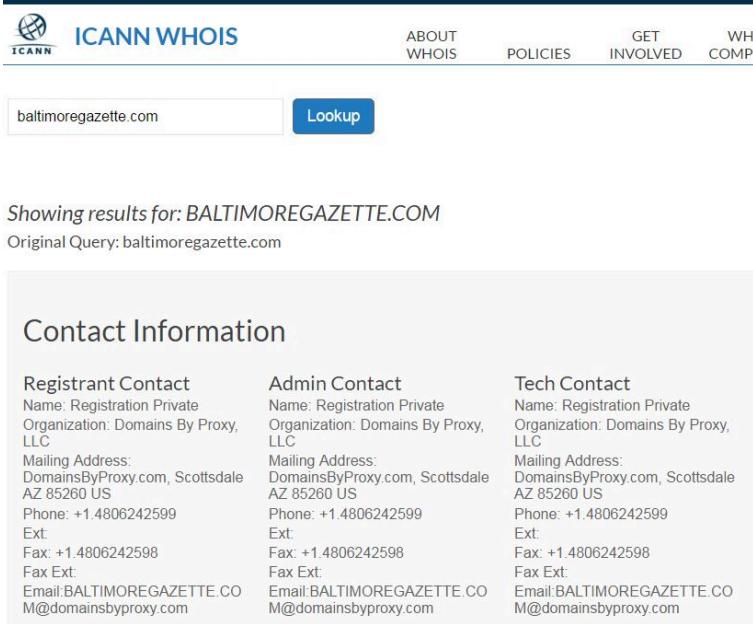
When we search on the owner, we find that:

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The Foundation for National Progress is a nonprofit organization created to educate the American public by publishing Mother Jones. Mother Jones is a multiplatform news organization that conducts in-depth investigative reporting and high quality, original, explanatory journalism on major social issues, including money in politics, gun violence, economic inequality and the future of work.

(We could have found this out by other means as well, of course).

Unfortunately, WHOIS blockers have dramatically reduced the value of WHOIS searches. The famous *Baltimore Gazette* fake news site from 2016, for example, uses a proxy service to hide revealing information.



The screenshot shows the ICANN WHOIS search interface. At the top, there is a navigation bar with the ICANN logo, the text "ICANN WHOIS", and links for "ABOUT WHOIS", "POLICIES", "GET INVOLVED", and "WHOIS COMPLI". Below the navigation bar is a search bar containing the text "baltimoregazette.com" and a blue "Lookup" button. The main content area displays the search results for the domain "BALTIMOREGAZETTE.COM". The results are presented in three columns: "Contact Information", "Registrant Contact", and "Admin Contact". The "Tech Contact" section is also visible. The Registrant Contact and Admin Contact sections are identical, showing a registration private organization named "Domains By Proxy, LLC" with a mailing address in Scottsdale, AZ 85260 US, and a phone number of +1.4806242598. The Tech Contact section shows a technical contact with the same details. The "Contact Information" section is collapsed, indicated by a "Read More" link.

Contact Information		
Registrant Contact	Admin Contact	Tech Contact
Name: Registration Private Organization: Domains By Proxy, LLC Mailing Address: DomainsByProxy.com, Scottsdale AZ 85260 US Phone: +1.4806242599 Ext: Fax: +1.4806242598 Fax Ext: Email: BALTIMOREGAZETTE.COM M@domainsbyproxy.com	Name: Registration Private Organization: Domains By Proxy, LLC Mailing Address: DomainsByProxy.com, Scottsdale AZ 85260 US Phone: +1.4806242599 Ext: Fax: +1.4806242598 Fax Ext: Email: BALTIMOREGAZETTE.COM M@domainsbyproxy.com	Name: Registration Private Organization: Domains By Proxy, LLC Mailing Address: DomainsByProxy.com, Scottsdale AZ 85260 US Phone: +1.4806242599 Ext: Fax: +1.4806242598 Fax Ext: Email: BALTIMOREGAZETTE.COM M@domainsbyproxy.com

Figure 56

The owner of the site here isn't Domains by Proxy, as the record indicates. Instead, Domains by Proxy is a service, often available for a couple dollars a year, that obscures the true ownership of the site. These masking services are starting to become the norm, dramatically reducing the usefulness of WHOIS searches.

That said, there is still useful information to be had here, particularly in the date the baltimoregazette.com domain was registered, which is listed here as being in mid-2015:



Figure 57

If this were an established local paper, it would be fairly odd for it to have first registered the site a year ago.

19. Activity: Evaluate a Site

Evaluate the reputations of the following sites by “reading laterally.” Answer the following questions to determine the reputability of each site: Who runs them? To what purpose? What is their history of accuracy, and how do they rate on process, aim, and expertise?

1. <http://cis.org/vaughan/...>
2. <http://www.al.com/news/montgomery/...>
3. <https://codoh.com/media/files/...>
4. <http://www.nature.com/nature/journal/...>
5. <http://www.dailykos.com/...>
6. <https://nsidc.org/>
7. <http://www.smh.com.au/environment/weather/...>
8. <http://occupydemocrats.com/2017/02/11/...>
9. <http://principia-scientific.org/...>
10. <http://www.europhysicsnews.org/articles/epn/abs/2016/05/...>
11. <https://www.rt.com/news/...>
12. <http://timesofindia.indiatimes.com/world/us/...>
13. <http://www.naturalnews.com/...>
14. <http://fauxcountrynews.com/...>

20. Stupid Journal Tricks

There's no more dreaded phrase to the fact-checker than "a recent study says." Recent studies say that chocolate cures cancer, prevents cancer, and may have no impact on cancer whatsoever. Recent studies say that holding a pencil in your teeth makes you happier. Recent studies say that the scientific process is failing, and others say it is just fine.

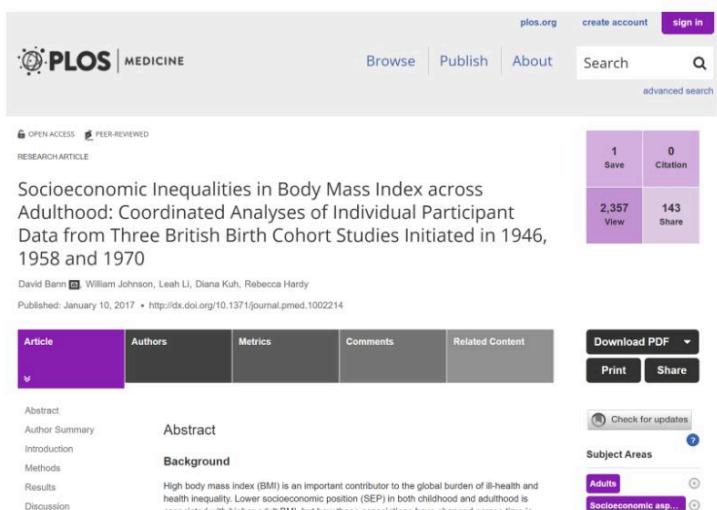
Most studies are data points—emerging evidence that lends weight to one conclusion or another but does not resolve questions definitively. What we want as a fact-checker is not data points, but the broad consensus of experts. And the broad consensus of experts is rare.

The following chapters are *not* meant to show you how to meticulously evaluate research claims. Instead, they are meant to give you, the reader, some quick and frugal ways to decide what sorts of research can be safely passed over when you are looking for a reliable source. We take as our premise that information is abundant and time is scarce. As such, it's better to err on the side of moving onto the next article than to invest time in an article that displays warning signs regarding either expertise or accuracy.

21. Finding a Journal's Impact Factor

I mentioned earlier that this process is one of elimination. In a world where information is plentiful, we can be a bit demanding about what counts as evidence. When it comes to research, one gating expectation can be that published academic research cited for a claim comes from respected peer-reviewed journals.

Consider this journal:



The screenshot shows a journal article page from PLOS Medicine. The top navigation bar includes links for 'plos.org', 'create account', 'sign in', 'Browse', 'Publish', 'About', 'Search', and 'advanced search'. Below the header, the article is identified as 'OPEN ACCESS' and 'PEER-REVIEWED'. The title of the article is 'Socioeconomic Inequalities in Body Mass Index across Adulthood: Coordinated Analyses of Individual Participant Data from Three British Birth Cohort Studies Initiated in 1946, 1958 and 1970'. The authors listed are David Bann, William Johnson, Leah Li, Diana Kuh, and Rebecca Hardy. The article was published on January 10, 2017, with the DOI <http://dx.doi.org/10.1371/journal.pmed.1002214>. The article summary includes sections for 'Abstract', 'Background', and 'Results'. To the right of the article summary, there are metrics: 1 Save, 0 Citation, 2,357 View, and 143 Share. Below the article summary, there are buttons for 'Download PDF', 'Print', and 'Share'. A 'Check for updates' button is also present. The 'Subject Areas' section lists 'Adults' and 'Socioeconomic asp...'. The bottom of the page shows a navigation bar with links for 'Article', 'Authors', 'Metrics', 'Comments', and 'Related Content'.

Figure 58

Is it a journal that gives any authority to this article? Or is it just another web-based paper mill?

Our first check is to see what the “impact factor” of the journal is. This is a measure of the journal’s influence in the academic community. While a flawed metric for assessing the relative importance of journals, it is a useful tool for quickly identifying journals that are not part of a known circle of academic discourse, or that are not peer-reviewed.

We search Google for *PLOS Medicine*, and it pulls up a knowledge panel for us with an impact factor.

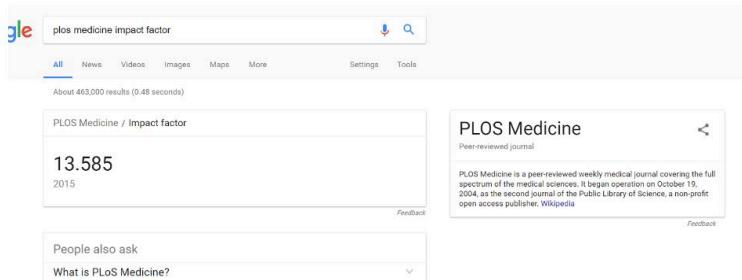


Figure 59

Impact factor can go into the 30s, but we’re using this as a quick elimination test, not a ranking, so we’re happy with anything over 1. We still have work to do on this article, but it’s worth keeping in the mix.

What about this one?



Figure 6o

In this case we get a result with a link to this journal at the top, but no panel, as there is no registered impact factor for this journal:

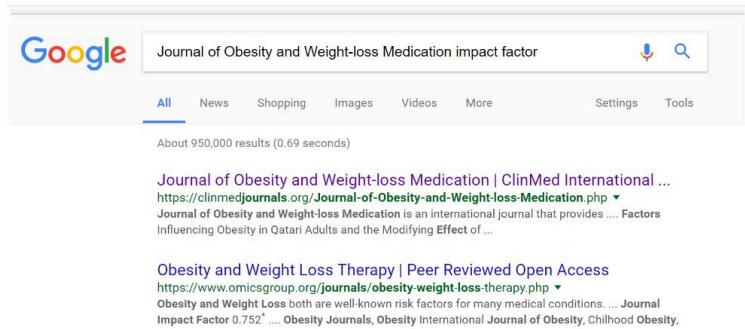


Figure 6i

Again, we stress that the article here may be excellent—we don't know. Likewise, there are occasionally articles published in the most prestigious journals that are pure junk. Be careful in your use of impact factor; a journal with an impact factor of 10 is not necessarily better

than a journal with an impact factor of 3, especially if you are dealing with a niche subject.

But in a quick and dirty analysis, we have to say that the *PLOS Medicine* article is more trustworthy than the *Journal of Obesity and Weight-loss Medication* article. In fact, if you were deciding whether to reshare a story in your feed and the evidence for the story came from this *Obesity* journal, I'd skip reposting it entirely.

22.

Using Google Scholar to Check Author Expertise

Not all, or even most, expertise is academic. But when the expertise cited is academic, scholarly publications by the researcher can go a long way to establishing their position in the academic community.

Let's look at David Bann, who wrote the *PLOS Medicine* article we looked at a chapter ago. To do that we go to *Google Scholar* (not the general page) and type in his name.

The screenshot shows a Google Scholar search results page for the query "David Bann". The search bar at the top contains "David Bann". Below the search bar, there are filters: "Web", "Images", "More...", "Google", and "David Bann". The results list includes the following entries:

- Gender and telomere length: systematic review and meta-analysis**
M Gardner, D Bann, L Wiley, R Cooper, R Hardy... - *Experimental ...*, 2014 - Elsevier
Background It is widely believed that females have longer telomeres than males, although results from studies have been contradictory. Methods We carried out a systematic review and meta-analyses to test the hypothesis that in humans, females have longer telomeres
Cited by 198 Related articles All 23 versions Cite Save [HTML] nih.gov
- Physical activity across adulthood in relation to fat and lean body mass in early old age: findings from the Medical Research Council National Survey of Health and Development**
D Bann, D Kuh, A Wills, J Adams... - *American journal of ...*, 2014 - Oxford Univ Press
Abstract Fat and lean body mass have important implications for health and physical functioning in older age, and physical activity is purported to be an important modifiable determinant. However, our evidence-based understanding of its role is limited. We
Cited by 20 Related articles All 13 versions Cite Save [HTML] oxfordjournals.org
- Timing of voice breaking in males associated with growth and weight gain across the life course**
KK Ong, D Bann, AK Willis, K Ward... - *The Journal of ...*, 2012 - press.endocrine.org
Background In contrast to the many studies in females, there are few data in males on the relationships between childhood growth and weight gain and the timing of pubertal maturation and its relevance to adult body mass index (BMI) and body composition.
Cited by 14 Related articles All 9 versions Cite Save [HTML] endocrine.org
- Light intensity physical activity and sedentary behavior in relation to body mass index and grip strength in older adults: cross-sectional findings from the ...**
D Bann, D Hirai, T Mekari, R Cooper, A Rotureau... - *PloS one*, 2015 - journals.plos.org
[HTML] plos.org

Figure 62

We see a couple things here. First, he has a history of publishing in this area of lifespan obesity patterns. At the bottom of each result we see how many times each article he is associated with is cited. These aren't amazing numbers, but for a niche area they are a healthy citation rate. Many articles published aren't cited at all, and here at least one work of his has over 100 citations.

Additionally if we scan down that right side column we see some names we might recognize—the National Institutes of Health (NIH) and another *PLOS* article.

Keep in mind that we are looking for expertise in the area of the claim. These are great credentials for talking about obesity. They are not great credentials for talking about opiate addiction. But right now we care about obesity, so that's OK.

By point of comparison, we can look at a publication in *Europhysics News* that attacks the standard view of the 9/11 World Trade Center collapse. We see this represented in

this story on popular alternative news and conspiracy site AnonHQ:

Home > Politics > Intelligence > It's Official: European Scientific Journal Concludes 9/11 was a Controlled Demolition

Politics Intelligence

It's Official: European Scientific Journal Concludes 9/11 was a Controlled Demolition

By EV - September 11, 2016

14330 277

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Figure 63

The journal cited is *Europhysics News*, and when we look it up in Google we find no impact factor at all. In fact, a short investigation of the journal reveals it is not a peer-reviewed journal, but a magazine associated with the European Physics Society. The author here is either lying, or does not understand the difference between a scientific journal and a scientific organization's magazine.

So much for the source. But what about the authors? Do they have a variety of papers on the mathematical modeling of building demolitions?

If you punch the names into Google Scholar, you'll find that at least one of the authors does have some modelling experience on architectural stresses, although most of his published work was from years ago.

The screenshot shows a Google search results page for the query "Robert Korol". The search bar at the top contains "Robert Korol". Below the search bar, the results are displayed. The first result is a link to a journal article titled "Cyclic behavior of extended end-plate joints" by A. Ghobarah, RM Korol, and A. Osman, published in the Journal of Structural Engineering in 1992. The article has 39 citations. The second result is a link to another journal article titled "Finite element analysis of RHS T-joints" by RM Korol and FA Mirza, published in the Journal of the Structural Division in 1982. This article has 48 citations. The third result is a link to a journal article titled "Strength predictions of plates in uniaxial compression" by RM Korol and AN Sherbourne, published in the Journal of the Structural Division in 1972. This article has 32 citations. There are also links for "Post-buckling of axially compressed plates" and "Create alert".

Figure 64

What do we make of this? It's fair to say that the article here was not peer-reviewed and shouldn't be treated as a substantial contribution to the body of research on the 9/11 collapse. The headline of the blog article that brought us here is wrong, as is their claim that a *European Scientific Journal* concluded 9/11 was a controlled demolition. That's flat out false.

But it's worthwhile to note that at least one of the people writing this paper does have some expertise in a related field. We're left with that question of "What does generally mean?" in the phrase "Experts generally agree on X."

What should we do with this article? Well, it's an article published in a non-peer-reviewed journal by an expert who published a number of other respected articles (though quite a long time ago, in one case). To an expert, that definitely could be interesting. To a novice looking for the majority and significant minority views of the field, it's probably not the best source.

23. How to Think about Research

This brings us to my third point, which is how to think about research articles. People tend to think that newer is better with everything. Sometimes this is true: new phones are better than old phones and new textbooks are often more up-to-date than old textbooks. But the understanding many students have about scholarly articles is that the newer studies “replace” the older studies. You see this assumption in the headline: “It’s Official: European Scientific Journal Concludes...”

In general, that’s not how science works. In science, multiple conflicting studies come in over long periods of time, each one a drop in the bucket of the claim it supports. Over time, the weight of the evidence ends up on one side or another. Depending on the quality of the new research, some drops are bigger than others (some much bigger), but overall it is an incremental process.

As such, studies that are consistent with previous research are often more trustworthy than those that have surprising or unexpected results. This runs counter to the narrative promoted by the press: “news,” after all, favors what is new and different. The unfortunate effect of the press’s presentation of science (and in particular science

around popular issues such as health) is that they would rather not give a sense of the slow accumulation of evidence for each side of an issue. Their narrative often presents a world where last month's findings are "overturned" by this month's findings, which are then, in turn, "overturned" back to the original finding a month from now. This whiplash presentation "Chocolate is good for you! Chocolate is bad for you!" undermines the public's faith in science. But the whiplash is not from science: it is a product of the inappropriate presentation from the press.

As a fact-checker, your job is not to resolve debates based on new evidence, but to accurately summarize the state of research and the consensus of experts in a given area, taking into account majority and significant minority views.

For this reason, fact-checking communities such as *Wikipedia* discourage authors from over-citing individual research, which tends to point in different directions. Instead, *Wikipedia* encourages users to find high quality secondary sources that reliably summarize the research base of a certain area, or research reviews of multiple works. This is good advice for fact-checkers as well. Without an expert's background, it can be challenging to place new research in the context of old, which is what you want to do.

Here's a claim (two claims, actually) that ran recently in the *Washington Post*:

The alcohol industry and some government agencies continue to promote the idea that moderate drinking provides some health benefits. But new research is

beginning to call even that long-standing claim into question.

Reading down further, we find a more specific claim: the medical consensus is that alcohol is a carcinogen even at low levels of consumption. Is this true?

The first thing we do is look at the authorship of the article. It's from the *Washington Post*, which is a generally reliable publication, and one of its authors has made a career of data analysis (and actually won a Pulitzer prize as part of a team that analyzed data and discovered election fraud in a Florida mayoral race). So one thing to think about is that these people may be better interpreters of the data than you. (Key thing for fact-checkers to keep in mind: You are often not a person in a position to know.)

But suppose we want to dig further and find out if they are really looking at a shift in the expert consensus, or just adding more drops to the evidence bucket. How would we do that?

First, we'd sanity check where the pieces they mention were published. The *Post* article mentions two articles by “Jennie Connor, a professor at the University of Otago Dunedin School of Medicine,” one published last year and the other published earlier. Let's find the more recent one, which seems to be a key input into this article. We go to *Google Scholar* and type in “Jennie Connor' 2016”:

Web Images More...

Google "Jennie Connor" 2016

Scholar About 58 results (0.07 sec)

Articles	Alcohol consumption as a cause of cancer J Connor - Addiction, 2017 - Wiley Online Library Methods Recent epidemiological and biological research on alcohol and cancer was reviewed and summarized, drawing upon published meta-analyses identified from the Medline database and the archives of the International Agency for Research on Cancer. Cited by 12 Cite Save
Case law	Suicidal ideation, antidepressive medication and car crash injury LT Lam, R Norton, J Connor, S Ameratunga - Accident Analysis & ..., 2005 - Elsevier OBJECTIVE:: This study aimed to investigate the association between suicidal ideation, antidepressive medication and the risk of a car crash resulting in serious injury. DESIGN:: This was a population-based case-control study. Cases were car drivers who were involved in a car crash resulting in serious injury. Controls were car drivers who were not involved in a car crash resulting in serious injury. SETTING:: New Zealand. POPULATION:: Cases were car drivers who were involved in a car crash resulting in serious injury. Controls were car drivers who were not involved in a car crash resulting in serious injury. METHODS:: Cases were car drivers who were involved in a car crash resulting in serious injury. Controls were car drivers who were not involved in a car crash resulting in serious injury. SETTING:: New Zealand. POPULATION:: Cases were car drivers who were involved in a car crash resulting in serious injury. Controls were car drivers who were not involved in a car crash resulting in serious injury. METHODS:: In 2003, random samples of students aged 17–20 years were invited to participate in a survey of health behaviours. In 2005, random samples of students aged 17–20 years were invited to participate in a survey of health behaviours. The survey included questions on suicidal ideation, antidepressive medication, and car crash history. Cited by 23 Related articles All 9 versions Cite Save
My library	[HTML] Non-response bias in a web-based health behaviour survey of New Zealand tertiary students K Kyri, A Samaranayake, J Connor, JD Langley... - Preventive ..., 2011 - Elsevier OBJECTIVE: There has been little investigation of non-response bias in web-based health surveys. We hypothesised that non-respondents have a higher prevalence of risk behaviours than respondents. METHODS: In 2005, random samples of students aged 17–20 years were invited to participate in a survey of health behaviours. The survey included questions on suicidal ideation, antidepressive medication, and car crash history. Cited by 36 Related articles All 10 versions Cite Save
Any time	Sort by relevance Sort by date
	<input checked="" type="checkbox"/> Include patents <input checked="" type="checkbox"/> Include citations

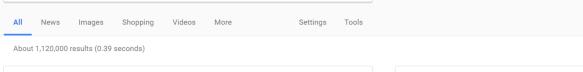
Figure 65

As usual, we're scanning quickly to get to the article we want, but also minding our peripheral vision here. So, we see that the top one is what we probably want, but we also notice that Connor has other well-cited articles in the field of health.

What about this article on “Alcohol consumption as a cause of cancer”? It was published in 2017 (which is probably the physical journal’s publication date, the article having been released in 2016). Nevertheless, it’s already been cited by twelve other papers.

What about this publication *Addiction*? Is it reputable?

Let's take a look with an impact factor search.



Google search results for "addiction impact factor". The top result is a link to the journal "Addiction" with a score of 4.145. Other results include links to "Addiction - Wiley Online Library" and "Addiction Biology - Wiley Online Library".

Search results for "addiction impact factor":

- 1,120,000 results (0.39 seconds)

Addiction / Impact factor

4.145

Peer-reviewed journal

Addiction is a monthly peer-reviewed scientific journal established in 1884 by the Society for the Study of Addiction to Alcohol and other Drugs. It covers original research relating to alcohol, illicit drugs, tobacco, and behavioural addictions. Wikipedia

Feedback

Figure 66

Yep, it looks legit. We also see in the knowledge panel to the right that the journal was founded in the 1880s. If we click through to that *Wikipedia* article, it will tell us that this journal ranks second in impact factor for journals on substance abuse.

Again, you should never use impact factor for fine-grained distinctions. What we're checking for here is that the *Washington Post* wasn't fooled into covering some research far out of the mainstream of substance abuse studies, or tricked into covering something published in a sketchy journal. It's clear from this quick check that this is a researcher well within the mainstream of her profession, publishing in prominent journals.

Next we want to see what kind of article this is. Sometimes journals publish short reactions to other works, or smaller opinion pieces. What we'd like to see here is that this was either new research or a substantial review of research. We find from the abstract that it is primarily a review of research, including some of the newer studies. We note that it is a six-page article, and therefore not likely to be a simple letter or response to another article. The abstract also goes into detail about the breadth of evidence reviewed.

Frustratingly, we can't get our hands on the article, but this probably tells us enough about it for our purposes.

24.

Finding High Quality Secondary Sources

Let's continue with the "alcohol is closely associated with cancer" claim from the last chapter. Let's see if we can get a decent summary from a respected organization that deals with these issues.

This takes a bit of domain knowledge, but for information on disease, the United States's National Institutes of Health (NIH) is considered one of the leading authorities. What do they say about this issue?

The screenshot shows a Google search results page. The search query is "nih alcohol and cancer". The results are as follows:

- Alcohol Consumption and the Risk of Cancer**
[https://pubs.niaaa.nih.gov/.../niaaa.../scientists-rethink-alcoholbreast-cancer-relations... ▾](https://pubs.niaaa.nih.gov/.../niaaa.../scientists-rethink-alcoholbreast-cancer-relations...)
by A Policy - Related articles
Alcohol consumption has been linked to an increased risk for various types of cancer. A combined analysis of more than 200 studies assessing the link between ...
- Scientists rethink alcohol/breast cancer relationship | National Institute ...**
[https://www.niaaa.nih.gov/.../niaaa.../scientists-rethink-alcoholbreast-cancer-relations... ▾](https://www.niaaa.nih.gov/.../niaaa.../scientists-rethink-alcoholbreast-cancer-relations...)
Oct 16, 2012 - Time course and metabolism are important factors. According to National Institute on Alcohol Abuse and Alcoholism (NIAAA) scientists, existing ...
- Alcohol Flush Signals Increased Cancer Risk among East Asians ...**
[https://www.nih.gov/.../alcohol-flush-signals-increased-cancer-risk-among-east-asians... ▾](https://www.nih.gov/.../alcohol-flush-signals-increased-cancer-risk-among-east-asians...)
Mar 23, 2009 - National Institutes of Health (NIH) - Turning Discovery into Health ... Alcohol Flush Signals Increased Cancer Risk among East Asians ...
- Alcohol Consumption and Cancer Risk - NCBI Bookshelf**
<https://www.ncbi.nlm.nih.gov/NCBI/Literature/Bookshelf>
by O Oyesanmi - 2010 - Cited by 27 - Related articles
The purpose of this report is to systematically examine the possible causal mechanism(s) that may explain the association between alcohol (ethanol) ...
- Alcohol and Cancer Risk Fact Sheet - National Cancer Institute**
[https://www.cancer.gov/about-cancer/causes-prevention/.../alcohol/alcohol-fact-sheet... ▾](https://www.cancer.gov/about-cancer/causes-prevention/.../alcohol/alcohol-fact-sheet...)
A fact sheet that summarizes the evidence linking alcohol consumption to the risk of various cancers. Includes information about factors that affect the risk of ...

Figure 67

What we don't want here is a random article. We're not an expert and we don't want to have to guess at the weights to give individual research. We want a summary.

And as we scan the results we see a "risk fact-sheet" from the National Cancer Institute. In general, domain suffixes (com/org/net/etc) don't mean anything, but ".gov" domains are strictly regulated, so we know this is from the (U.S.) federal government. A fact sheet is a summary, which is what we want, so we click through.

This page **doesn't mince words**:

Based on extensive reviews of **research studies**, there is a strong scientific consensus of an association between **alcohol** drinking and several types of cancer (1, 2). In its Report on Carcinogens, the National Toxicology Program of the US Department of Health and Human Services lists

consumption of alcoholic beverages as a known human [carcinogen](#). The research evidence indicates that the more alcohol a person drinks—particularly the more alcohol a person drinks regularly over time—the higher his or her risk of developing an alcohol-associated cancer. Based on data from 2009, an estimated 3.5 percent of all cancer deaths in the United States (about 19,500 deaths) were alcohol related (3).

With the “.gov” extension, this page is pretty likely to be linked to the NIH. But just in case, we Google search the site to see who runs it and what their reputation is.

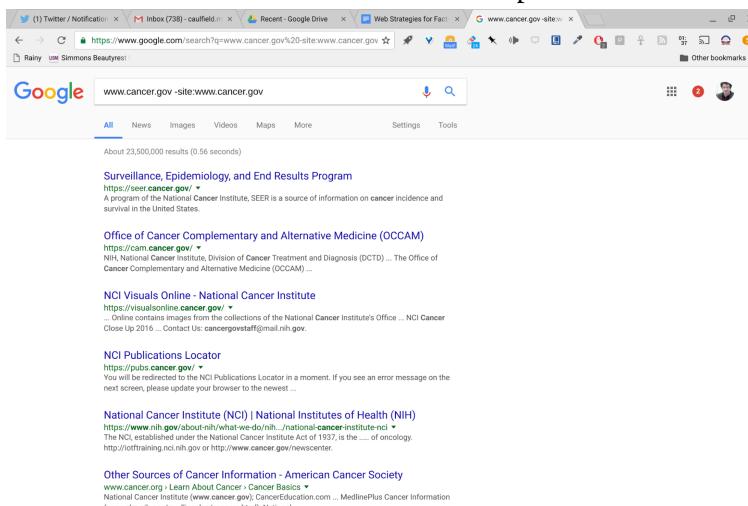


Figure 68

Since we’re reading laterally, let’s click on the link five results down to see what the NIH says about the National Cancer Institute. Again, we’re just sanity checking our impression that this is an authoritative body of the NIH. Here’s its blurb from the [fifth result down](#):

The National Cancer Institute (NCI) is part of the National

Institutes of Health (NIH), which is one of 11 agencies that compose the Department of Health and Human Services (HHS). The NCI, established under the National Cancer Institute Act of 1937, is the Federal Government's principal agency for cancer research and training.

As always, we glance up to the web address and make sure we are really getting this information from the NIH. We are.

If we were a researcher, we would sort through more of this. We might review individual articles or make sure that some more out-of-the-mainstream views are not being ignored. Such an effort would take a deep background and understanding of the underlying issues. But we're not researchers. We're just people looking to find out if our rationalization for those two after-work drinks is maybe a bit bogus. And on that level, it's not looking particularly good for us. We have a major review of the evidence in a major journal stating there's really no safe level of drinking when it comes to cancer, and we have the NIH—one of the most trusted sources of health information in the U.S. (and not exactly a fad-chaser) telling us in an FAQ that there is a strong consensus that alcohol consumption predicts cancer.

25. Choosing Your Experts First

One other thing to note here is that in the past chapter or two we followed a different pattern than a lot of web searching. Here we decided who would be the most trustworthy source of medical consensus (the NIH) and looked up what they said.

This is an important technique to have in your research mix. Too often, we execute web search after web search without first asking who would constitute an expert. Unsurprisingly, when we do things in this order, we end up valuing the expertise of people who agree with us and devaluing the expertise of those who don't. If you find yourself going down a rabbit hole of conflicting information in your searches, back up a second and ask yourself: whose expertise would you respect? Maybe it's not the NIH. Maybe it's the Mayo Clinic, or Medline, or the World Health Organization. But deciding who has expertise before you search will mediate some of your worst tendencies toward confirmation bias.

So, given the evidence we've seen in previous chapters about alcohol and cancer—am I going to give up my after-work porter? I don't know. I really like porter. The evidence is still emerging, and maybe the risk increase is

worth it. But I'm also convinced the *Washington Post* article isn't the newest version of "eating grapefruit will make you thinner." It's not even "Nutrasweet may make you fat," which is an interesting finding, but a point around which there is no consensus. Instead "small amounts of daily alcohol increase cancer risk" represents a real emerging consensus in the research, and from our review we find it's not even a particularly new trend. The consensus emerged some time ago (the NIH FAQ dates back to 2010); it's just been poorly communicated to the public.

26. Evaluating News Sources

Cvaluating news sources is one of the more contentious issues out there. People have their favorite news sources and don't like to be told that their news source is untrustworthy.

For fact-checking, it's helpful to draw a distinction between two activities:

- News gathering, where news organizations do investigative work—calling sources, researching public documents, and checking and publishing facts (e.g. getting the facts of Bernie Sanders involvement in the passage of several bills)
- News analysis, which takes those facts and strings them into a larger narrative, such as “Senator Sanders an effective legislator behind the scenes” or “Senator Sanders largely ineffective Senator behind the scenes.”

Most newspaper articles are not lists of facts, which means that outfits like the *Wall Street Journal* and the *New York Times* do both news gathering and news analysis in stories. What has been lost in the dismissal of the *New York Times*

as liberal and the *Wall Street Journal* as conservative is that these are primarily biases of the news analysis portion of what they do. To the extent the bias exists, it's in what they choose to cover, to whom they choose to talk, and what they imply in the way they arrange those facts they collect.

The news gathering piece is affected by this, but in many ways largely separate, and the reputation for fact checking is largely separate as well. MSNBC, for example, has a liberal slant to its news, but a smart liberal would be more likely to trust a fact in the *Wall Street Journal* than a fact uttered on MSNBC because the *Wall Street Journal* has a reputation for fact-checking and accuracy that MSNBC does not. The same holds true for someone looking at the *New York Observer* vs. the *New York Times*. Even if you like the perspective of the *Observer*, if you were asked to bet on the accuracy of two pieces—one from the *Observer* and one from the *Times*—you could make a lot of money betting on the *Times*.

Narratives are a different matter. You may like the narrative of MSNBC or the *Observer*—or even find it more in line with reality. You might rely on them for insight. But if you are looking to validate a *fact*, the question you want to ask is not always “What is the bias of this publication?” but rather, “What is this publication’s record with concern to accuracy?”

What Makes a Trustworthy News Source?

Experts have looked extensively at what sorts of qualities in a news source tend to result in fair and accurate coverage. At the Trust Project, a team of experts were able to whittle down the markers of trustworthiness in a source [down to eight categories](#):

- **Best Practices:** What are your standards? Who funds the news outlet? What is the outlet's mission? Plus commitments to ethics, diverse voices, accuracy, making corrections and other standards.
- **Author/Reporter Expertise:** Who made this? Details about the journalist, including their expertise and other stories they have worked on.
- **Type of Work:** What is this? Labels to distinguish opinion, analysis and advertiser (or sponsored) content from news reports.
- **Citations and References:** For investigative or in-

depth stories, access to the sources behind the facts and assertions.

- **Methods:** Also for in-depth stories, information about why reporters chose to pursue a story and how they went about the process.
- **Locally Sourced?** Lets you know when the story has local origin or expertise. Was the reporting done on the scene, with deep knowledge about the local situation or community?
- **Diverse Voices:** A newsroom's efforts and commitment to bringing in diverse perspectives. Readers notice when certain voices, ethnicities, or political persuasions were missing.
- **Actionable Feedback:** A newsroom's efforts to engage the public's help in setting coverage priorities, contributing to the reporting process, ensuring accuracy and other areas. Readers want to participate and provide feedback that might alter or expand a story.

This is a great set of indicators, but a bit hard to remember. So we can look at a smaller, related set:

- **Machinery of care:** Good news sources have significant processes and resources dedicated to promoting accuracy, and correcting error.
- **Transparency:** Good news sources clearly mark opinion columns as opinion, disclose conflicts of interest, indicate in stories where information was obtained and how it was verified, and provide links to sources.
- **Expertise:** Good news sources hire reporters with reporting or area expertise who have been

educated in the processes of ethical journalism. Where new writers with other expertise are brought in, they are educated by the organization.

- **Agenda:** The primary mission of a good news source is to inform its readers, not elect Democrats, promote tax cuts, or reform schools. You should absolutely read writers with activist missions like these, but do not treat them as “pure” news sources.

Here's an important tip: *approach agenda last*. It's easy to see bias in people you disagree with, and hard to see bias in people you agree with. But bias isn't agenda. Bias is about how people see things; agenda is about what the news source is set up to *do*. A site that clearly marks opinion columns as opinion, employs dozens of fact-checkers, hires professional reporters, and takes care to be transparent about sources, methods, and conflicts of interest is less likely to be driven by political agenda than a site that does not do these things. And this holds even if the reporters themselves may have personal bias. Good process and news culture goes a long way to mitigating personal bias.

Yet, you may see some level of these things and still have doubt. If the first three indicators don't settle the question for you, you should consider agenda. Is the source connected to political party leadership? Funded by oil companies? Have the owners made comments about what they are trying to achieve with their publication, and are those ends about specific social or political change or about creating a more informed public?

Again, we cannot stress enough: you should read things by people with political agendas. It's an important part of

your news diet. But when sourcing a fact or a statistic, agenda can get in the way and you'd want to find a less agenda-driven source if possible.

28. National Newspapers of Record

When it comes down to accuracy, there are a number of national newspapers in most countries that are well-staffed with reporters and have an editorial process that places a premium on accuracy. These papers are sometimes referred to as “newspapers of record.”¹ “National newspapers of record” are distinguished in two ways:

1. They are rigorous, showing attention to detail and having accountability in their editorial processes.
2. They have a truly national view and attempt to be the best possible record of what happened in the nation (not just a region) on a given day.

1. We’re aware that the origin of the term was originally a marketing plan to distinguish the *New York Times* from its rivals. At the same time, it captures an aspiration that is not common across many publications in a country. When I wrote code for *Newsbank’s Historical Paper Archive*, we took the idea of Newspapers of Record seriously even on a local level. With the mess of paper startups and failures in the 1800s, understanding what was reliable was key. Which of that multitude of papers was likely to make the best go at covering all matters of local importance?

The United States is considered by some to have at least four national newspapers of record:

- *The New York Times*
- *The Wall Street Journal*
- *The Los Angeles Times*
- *The Washington Post*

You could add in the *Boston Globe*, *Miami Herald*, or *Chicago Tribune*. Or subtract the *LA Times* or *Washington Post*. These lists are meant to be starting points, indicating that a given publication has a greater reputation and reach than, say, the *Clinton Daily Item*.

Some other English-language newspapers of record:

- *The Times* (UK)
- *The Daily Telegraph* (UK)
- *The Irish Times* (Ireland)
- *The Times of India* (India)
- *New Zealand Herald* (New Zealand)
- *Sydney Morning Herald* (Australia)
- *The Age* (Australia)
- *The Globe and Mail* (Canada)

Does that mean these papers are the arbiters of truth? Nope. Where there are disagreements between these papers and other reputable sources, it could be worth investigating.

As an example, in the run up to the Iraq War, the Knight Ridder news agency was in general a far more reliable news source on issues of faulty intelligence than the *New York Times*. In fact, reporting from the *New York Times* back then was particularly bad, and many have

pointed to one reporter in particular, Judith Miller, who was [far too credulous](#) in repeating information fed to her by war hawks. Had you relied on just the *New York Times* for your information on these issues, you would have been misinformed.

There is much to be said about failings such as this, and it is certainly the case that high profile failings such as these have eroded faith in the press more generally, and, for some, created the impression that there really is no difference between the *New York Times*, the *Springfield Herald*, and your neighbor's political *Facebook* page. This is, to say the least, overcompensation. We rely on major papers to tell us the truth, and rely on them to allocate resources to investigate and present that truth with an accuracy hard to match on a smaller budget. When they fail, as we saw with Iraq, horrible things can happen. But that is as much a testament to how much we rely on these publications to inform our discourse as it is a statement on their reliability.

A literate fact-checker does not take what is said in newspapers of record as truth. But, likewise, any person who doesn't recognize the *New York Times* or *Sydney Morning Herald* as more than your average newspaper is going to be less than efficient at evaluating information. Learn to recognize the major newspapers in countries whose news you follow to assess information more quickly.

29. Activity: Expert or Crank?

Twitter Expertise?

This guy has a pretty negative reaction to something published in a highly reputable journal. Is he an expert, or just a guy with opinions about things?

Bullshit! Aztec society collapsed in 1519 fr. Cortes & smallpox. Salmonella in 1540 was far too late. And the painting is European fantasy. <https://t.co/FZUbbyPiOo>

— Michael E. Smith (@MichaelESmith) February 17, 2017

Figure 69

Woodward and Bernstein

Are these the reporters who brought down Nixon? Is this a trustworthy reporter sharing this photo?

This is Woodward and Bernstein. Nixon called them the enemy. They proved that no president is above the law.
[#NotTheEnemy](https://pic.twitter.com/mU5Cx3jCuH) pic.twitter.com/mU5Cx3jCuH

Mike Caulfield

— pixelated no longer too early for a christmas name
(@pixelatedboat) [February 19, 2017](#)

Figure 70

30.

Activity: Find Top Authorities for a Subject

Get together in small groups, and by both pooling group knowledge and doing research, develop a list of three authoritative books/websites for information on one of the following subjects:

- Lead Poisoning in Homes
- American Hate Groups
- Weight Loss
- Nuclear Policy
- Philosophy of Stoicism
- Civil War and Race
- The Deficit and Deficit Spending

Your sources should be:

- Written, edited, or curated by people with a high-level of subject expertise

- Have a process in place that ensures accuracy and verification

Or, the sources should be:

- Written and published by someone with a reputation for accuracy
- Informed by a broad array of expert interviews and perspectives

When each group has finished their selection, trade your list of expert books/sites with another group and have that group critique the list.

Some questions for reflection:

- Do the best sources show up at the top of *Google* search results?
- If not, what does show up? Why do you think that result shows up instead?

PART V

FIELD GUIDE

31. Verifying Twitter Identity

One relatively common form of misinformation is the fake celebrity retweet. Sometimes this happens by accident—a person mistakenly retweets a parody account as real. Sometimes this happens by design, with an account faking a retweet. Here are some tips to make sure that the tweet you are looking at on *Twitter* is from the person you are attributing it to.

Twitter Identity Basics

With *Twitter*, accounts are generally (although not always) run by a single person. However, unlike *Facebook*, *Twitter* does not enforce a “real name” policy, which makes it easy for one person to run multiple accounts, and to run accounts under different names. In fact, an important part of *Twitter* culture is the constellation of parody accounts, bots, and single issue accounts that amuse and inform *Twitter* subscribers.

At the same time, it’s easy to get confused. As an example, consider the account of Representative Jack Kimble. Here’s a typical tweet:



Jack Kimble
@RepJackKimble

[Follow](#)

Why have the wars cost so much under Obama? Check the budgets, Bush fought 2 wars without costing taxpayers a dime

Figure 71

If you're a liberal, looking at this tweet may get your blood boiling. How can anyone possibly believe this? Especially a Representative?

Scanning the Twitter bio doesn't help.



Jack Kimble

@RepJackKimble

Congressman from CA's 54th District.

JackKimble.com. Author of Profiles in Courageousness amzn.to/1ER7SeU E pluribus unum (1 Nation under God)

📍 California's Proud 54th Dist.

🔗 jackkimble.org

📅 Joined June 2009

Figure 72

Here we see that he's from the 54th District of California and he's got a book out. Now if we're reading carefully we might notice some fishy things here: his book, *Profiles in Courageousness*, seems like a parodic re-titling of Jack Kennedy's *Profiles in Courage*. "E pluribus unum," which means "From the many, one," is translated to "i nation under God".

Oh, also: California [only has 53 districts](#).

Unfortunately, you'll likely be in such a huff about the comments that you won't notice any of these things. So

what is a general purpose indicator that you need to slow down? In most cases, it's going to be the absence of a "verified account" marker.

Checking Verified Accounts

As a counter-example to "Representative Kimble," here's a real representative, Jason Chaffetz, from Utah's 3rd District.



Jason Chaffetz 

@jasoninthehouse

United States Congressman (UT-3).
Chairman, Oversight & Government
Reform. Tweets come from me, not my
staff.

📍 Utah/Washington D.C.
🔗 chaffetz.house.gov
📅 Joined December 2008

 Tweet to Jason Chaffetz

Figure 73

That little blue seal with the check mark (the “verified badge”) indicates that this is a “verified identity” by Twitter—Twitter asserts that this person has proved they are who they say they are.

Who gets to get verified? It's a bit unclear. [Twitter puts it this way](#):

An account may be verified if it is determined to be an account of public interest. Typically this includes accounts maintained by users in music, acting, fashion, government, politics, religion, journalism, media, sports, business, and other key interest areas.

However, all members of Congress and senior administration officials qualify for such status. So do most major public figures and prominent writers. If you don't see the blue badge, either disregard the tweet as suspicious, or do further research.

One additional note: sometimes people try to fake these indicators; an example is faking a verification symbol in a header.

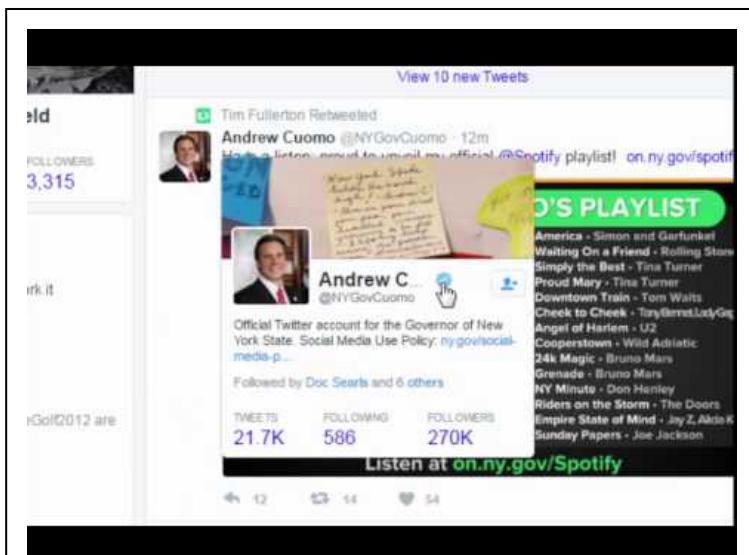


Figure 74

This user has used their background image to place a verification badge next to their name. To steer clear of

these sort of hacks, always view the badge in the sidebar or small “hover” card, not the header. To be extra sure it’s legit, hover your cursor over it— the words “verified account” should pop up.

This sounds complicated, but once you learn it, it takes maybe two seconds. Here I am, for example, checking to see if this is really New York Governor Andrew Cuomo’s Spotify playlist, or a fake account, using a quick hover technique:



A YouTube element has been excluded from this version of the text. You can view it online here: <https://webliteracy.pressbooks.com/?p=245>

Figure 75

In this case it’s verified. The governor should probably lay off Billy Joel a bit, but this is a legitimate tweet.

Other Methods

Not all celebrities have verified accounts. If you don't find the verification badge, you may have to dig a little deeper.

There are a couple things to look for in an unverified account:

- **Start date:** Did the user fire up this account six weeks ago? In general, older accounts are more trustworthy.
- **Followers:** Not always a perfect metric, but do the number of followers seem about right for the personality's popularity? Do they have any followers you know?
- **Previous Tweets:** Are there many previous tweets, and are they what you'd expect from the account? Do they have conversations with people in ways that you'd expect?

As an example, here is the Minerva Schools Twitter account. Minerva is a small, but high-profile school in California. The account is not verified. Is the account legitimate? Is it really Minerva?



Minerva Schools
@MinervaSchools

Minerva offers a unique undergraduate education for the brightest, most motivated students in the world.

minerva.kgi.edu

Joined August 2013

Tweet to Minerva Schools

6 Followers you know



Figure 76

A number of things suggest it is. It was created in August 2013, right around when I know Minerva was created. It has followers I know (from educational

technology, which is what the school is known for). One of the followers is a person that I know that works there.

TWEETS 2,911 FOLLOWING 125 FOLLOWERS 2,660 LIKES 1,218

Minerva Schools @MinervaSchools · Feb 6
Do you wonder what it's like to study at Minerva? Join a conversation with current students tomorrow at 2 pm PST: bit.ly/2kBySGp

Minerva Schools @MinervaSchools · Feb 6
Students recently shared insights from their data visualization project they worked on for [@500Startups](#). More to come. #MinervaSF



Minerva Schools @MinervaSchools · Feb 6
"To be an effective CEO, I will benefit from skills that help me be a strong leader and effective decision maker." on.fb.me/1YUGnVF

Figure 77

We could stop there, or we could also note that the tweetstream is entirely consistent with what we'd expect for an organization like this, and the number of followers, while not huge, is in line with what we might expect for an account like this.

No one single factor here clinches it (although the employee showing up in the follow list comes close), but all these factors together give us a fair amount of confidence that this is a legitimate account.

If we wanted to go one step further (and we really don't have to here) we could web search the handle and see if it is referenced from any official pages.

Fake Screenshots

Sometimes people fake screenshots of tweets that never happened.

Not all tweet screenshots are fake. Many times *Twitter* users will screenshot a tweet rather than retweet it because they fear the original will be deleted. Here's Michael Li screenshotting an embarrassing tweet which was later deleted.



Michael Li
@mcpli

Follow

When Dan Patrick has a twitter typo, he has one heck of a twitter typo.

Dan Patrick
@DanPatrick

MARRIAGE= ONE MAN & ONE MAN. Enough of these activist judges. FAVORITE if you agree. I know the silent majority out there is with us!

RETWEETS 1,037 LIKES 718

12:13 PM - 26 Feb 2014

91 1.0K 718

Figure 78

Other times, people may screenshot a tweet because they wish to discuss a tweet without attracting the ire of a particular group of followers. As an example, during the #Gamergate controversy many people critical of Gamergate took screenshots of bad behavior on Twitter (harassment and the like) because they were afraid that if they commented via re-tweeting they might become a target themselves.

Sometimes people retweet screenshots as a way of breaking a chain of credit, so that people will be forced to

retweet them, and not the original tweeter. (This practice is rightfully frowned on).

Sometimes, however, the screenshot may be fabricated. In fact, many “tweet generators” exist online that allow you to create fake pictures of tweets. I made this one a couple minutes ago:

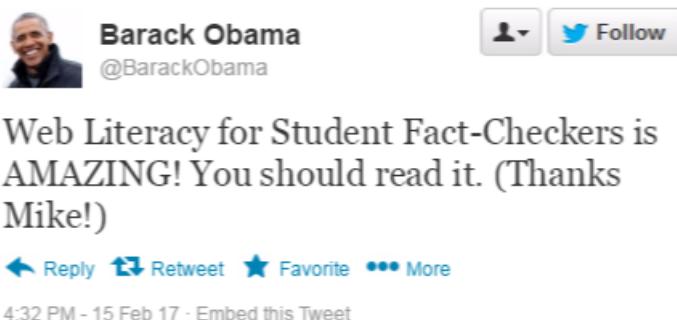


Figure 79

If you come across a person re-tweeting a screenshot, check to see if the tweet really exists on Twitter first. In the above case, for example, you could check Obama’s timeline.

Deleted Tweets

What if they deleted the tweet, as in the “ONE MAN + ONE MAN” example above? How do you verify it then? Or what if the tweet someone was referencing has since been deleted.

Don’t worry—in many cases there’s still ways to dig up the tweet.

If it’s a tweet from a politician (and it usually is) you can try [Politiwhoops](#), which logs all tweets deleted by significant

public officials. Here are some tweets recently deleted by President Trump:

[Politwoops](#) » Deleted Tweets From Donald J. Trump, R-D.C.

Deleted Tweets From Donald J. Trump, R-D.C.

Donald J. Trump's accounts: [POTUS](#), [TrumpInaugural](#), [WhiteHouse](#), [realDonaldTrump](#)
Tracking Since: May 18, 2015



Donald J. Trump (R)

@realDonaldTrump

Played golf today with Prime Minister Abe of Japan and [@TheBig_Easy](#), Ernie Els, and had a great time. Japan is very well represented!

Deleted after 34 minutes at 8:33 PM on 11 Feb. [Twitter](#) [Link](#)



Donald J. Trump (R)

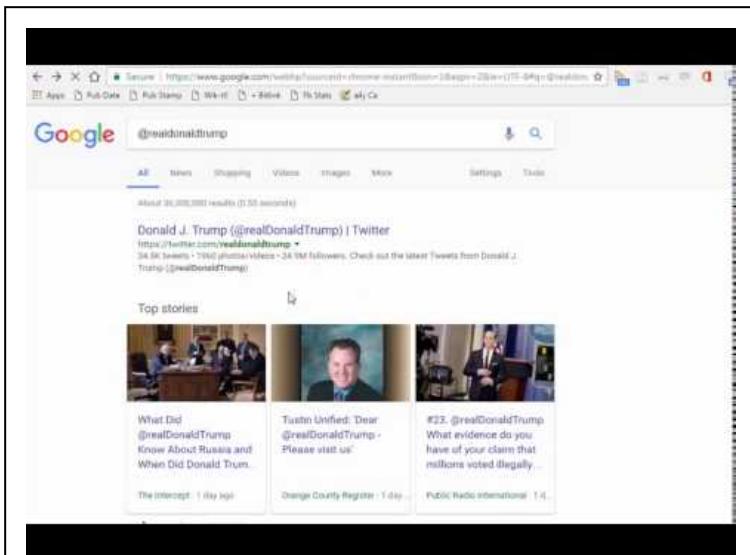
@realDonaldTrump

I don't know Putin, have no deals in Russia, and the haters are going crazy - yet Obama can make a deal with Iran, #in terror, no problem!

Deleted after 49 minutes at 7:53 AM on 07 Feb. [Twitter](#) [Link](#)

Figure 8o

Another technique is searching for the *Twitter* account on *Google* and looking for the cached version of the page. In the video below we search for [@RealDonaldTrump](#) in *Google* and then look at the *cached* version of his *Twitter* page. This works well with things recent enough to be on the first page of a *Twitter* stream, but old enough that *Google* has indexed them.



A YouTube element has been excluded from this version of the text.

You can view it online here:

<https://webliteracy.pressbooks.com/?p=245>

Figure 81

The *Twitter* bar sometimes obscures the cache information, but if you can see it, it will tell you when it was last indexed. The time is in Greenwich Mean Time (the same time as London, England). So for instance, this cache of Trumps tweets was taken at 2 o'clock London time (which would be early this morning in my Pacific Coast time).

This is Google's cache of <https://twitter.com/realdonaldtrump>. It is a snapshot of the page as it appeared on Feb 15, 2017 14:46:56 GMT. The current page could have changed in the meantime. Learn more

[Full version](#) [Text-only version](#) [View source](#)

Tip: To quickly find your search term on this page, press **Ctrl+F** or **⌘F**

Figure 82

Mike Caulfield

32. Activity: Verify a Twitter Account

Kellogg's Rant

General Kellogg was promoted by President Trump as acting head of the National Security Council on February 13, 2017. Is this Twitter account his?

<https://twitter.com/GenKeithKellogg/status/832825494009638912>

Explain your reasons.

33.

Using the Wayback Machine to Check for Page Changes

Sometimes we want to see how a page has changed over time, or know when a page disappeared. Using the Wayback Machine can help you do that.

Here's how that works. Go to the [Wayback Machine](#) and search for a page or site. Here we'll search for the front page of the White House site:



Figure 83

The Wayback Machine doesn't archive every page, but they do archive an awful lot of them. Whether a page is archived will often depend on if a page was heavily linked to in the past, or if it was published by a site that the Wayback Machine tracks. In the case of the White House, of course, both these things are true and we have a near perfect history of the site.



Figure 84

Let's go back in time all the way to 1999. When we select 1999, we see a calendar. Each circle indicates a snapshot made of the site. The green and blue indicate whether the page was a "redirect"—an issue beyond the scope of this article.

Click on a date to see a "snapshot" of the page on that date. Here we see a snapshot of the site from January 1999, at the tail end of the Clinton administration.

[\[Text version\]](#)

 *White House Virtual Library*

You can search the White House web site for:

- [All White House web features combined](#): Press releases, Radio Addresses, photographs and Web Pages.
 - [White House documents](#): Publicly-released documents since the start of the Clinton Administration.
 - [The contents of this web site](#): Just the pages of this service.
 - [Radio Addresses of the President](#): Search and listen to the President's Saturday Radio Addresses.
 - [Executive Orders](#): Official actions, procedural changes, and organizational changes.
 - [White House photographs](#): Search a public collection of photographs.
- You can also search the GovBot database [all government sites](#)

You can also browse some historic national documents:

- [The Declaration of Independence](#)
- [The Constitution of the United States of America](#)

If you wish to receive White House publications on a daily basis, you can [subscribe to the publications mailing list](#)
Presidential addresses and the White House press releases may be found in the [Briefing Room](#).



Figure 85

Sites will be browsable, to some extent, so go ahead and click on the links. Advanced functionality, such as search interfaces and interactive content, will usually not work.

34.

Finding Out When a Page Was Published Using Google

Many pages will tell you the date they were published. But some pages don't give publication dates, and some can't be trusted.

Take, for example, this story from fake site ABCNews.co (a hoax site that attempts to look like an ABC news site).



A screenshot of a web page from a fake ABC News site. The top navigation bar includes 'NEWS', 'FASHION', 'TECH', 'VIDEO', and 'WORLD'. Below the navigation is a breadcrumb trail: 'Home > News > Donald Trump Protester Speaks Out: "I Was Paid \$3,500 To Protest Trump's...'. A 'NEWS' button is highlighted. The main headline is 'Donald Trump Protester Speaks Out: "I Was Paid \$3,500 To Protest Trump's Rally"'. Below the headline is the byline 'By Jimmy Rustling, ABC News - November 11, 2016' and a view count of '70136'. There are social sharing buttons for Facebook, Twitter, Google+, and Pinterest. At the bottom is a small image of several flags.

Figure 86

You'll note that the publication date was November 11.

That's what the site looks like today. But we can see what it looked like previously, courtesy of *archive.org*'s [Wayback Machine](#).

Here's what it looked like in March, sporting a publish date of March 24:

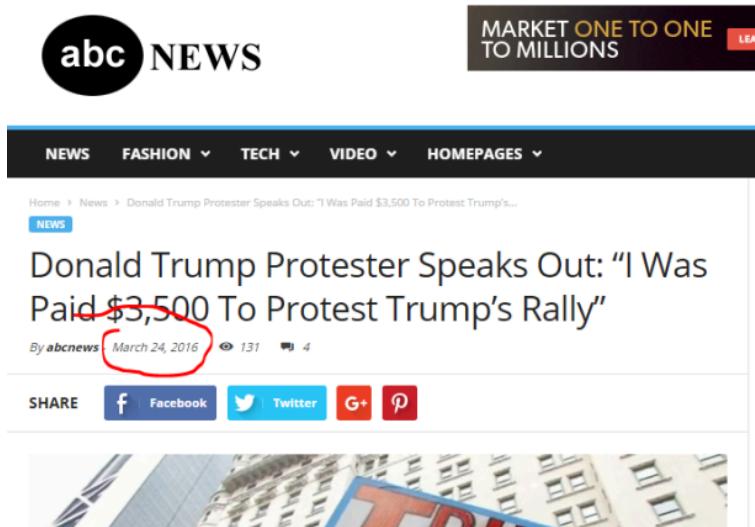


Figure 87

Here it is in June, sporting a date of June 16:

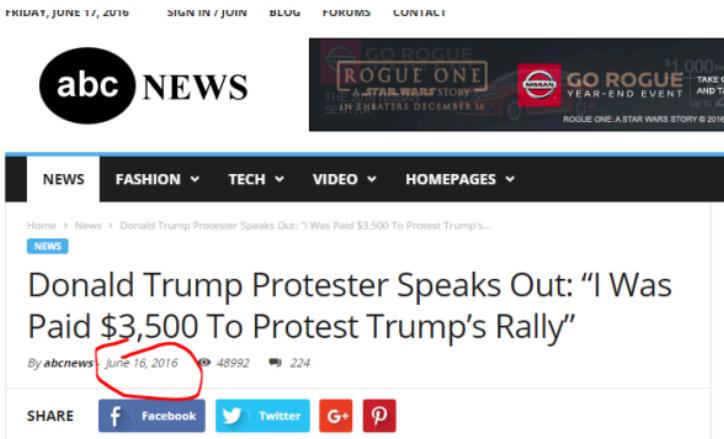


Figure 88

And in September, it sported a date of September 11:

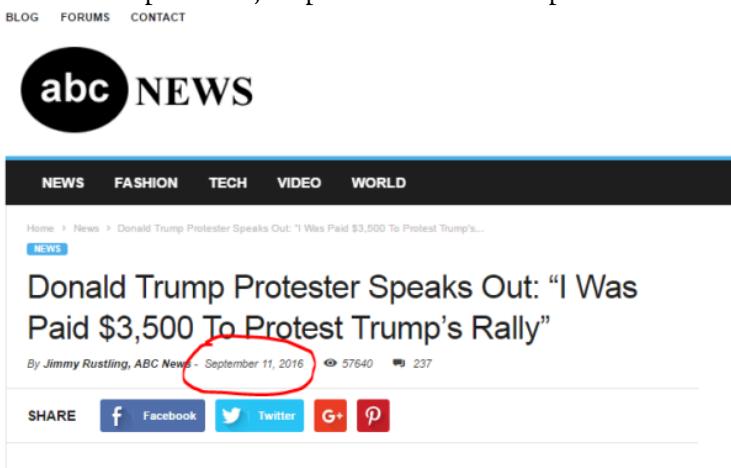


Figure 89

Hoax sites often do this date incrementation to increase the share rate on older stories. People are more likely to share things if they believe they are breaking news and not yesterday's story.

So how do we get some sense of when this story was first published?

We can't get there *exactly* but we can often use Google to get close. Google stores the date of the first time it indexed a page—on popular sites this date is usually within a couple days of the true publish date (on unknown sites it is much less reliable).

To get Google to show the indexed date of a page, you'll need to do two things:

- Set up a search that will only return that particular page by using the “site:” search term
- Trigger display date but setting a date range that ends with the current day.

Here's what that looks like in this case:



Figure 90

As you can see, we've taken the URL of the page and entered the following as the search term:

site:abcnews.com.co/donald-trump-protester-speaks-out-i-was-paid-to-protest/

Then we've used date filtering to create a filter that doesn't exclude anything (its date range is all possible dates), but triggers this sort of date display in *Google*.

Again, this is not a rock-solid publication date, but we can say that there was *some* content at this URL at this date, and in most cases, with a URL like this, that means the story was up by then.

35. Citation Rates

Students often overestimate how much the average paper gets cited. I've seen students look at a paper with 40 citations say, "Eh, can we really trust it with only 40 citations?"

In truth, most papers that get cited even a few times are legitimate papers (vs. junk), and in all fields 40 citations indicates a paper that has has a lot of expert eyes on it. That's the point of citations in source verification work. It's not necessarily about the quality of the paper—you need expertise to assess that, and a paper with 100 citations is not necessarily better than one that has 10. What citations show you, for a quick and dirty process, is that experts have read a certain work or author and found their work worthy of discussion. More citations don't mean more quality, but they do mean more expert eyes have probably looked at it and found it worth either agreeing or disagreeing with in public.

If you still want to know averages, here's a [list of citation averages from 2011](#), but note that citations follow a power law, and any average here is far above the median.

36.

Using Google Books to Track Down Quotes

Did Carl Sagan say this?



Charles Bergquist

@cbquist

Follow

Suspecting Carl Sagan had either a time machine or a crystal ball.

Ok, probably the time machine.

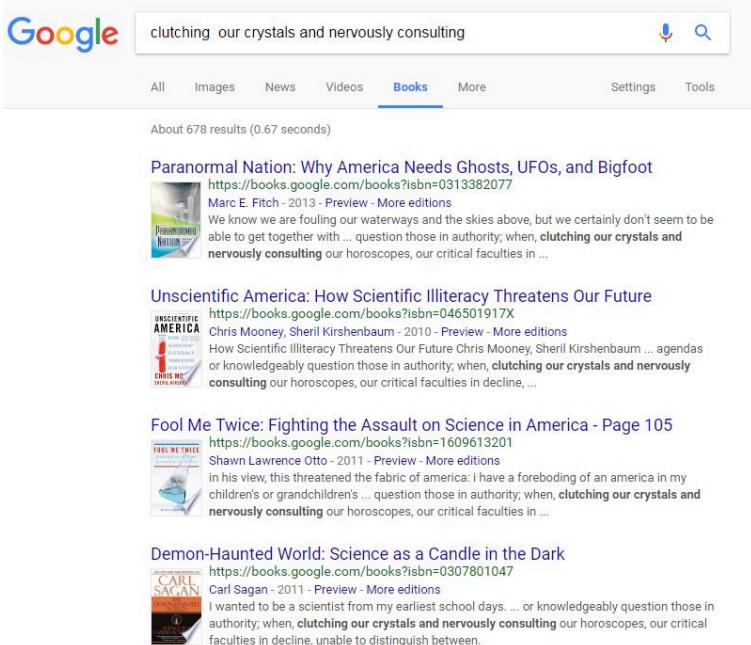
I have a foreboding of an America in my children's or grandchildren's time — when the United States is a service and information economy; when nearly all the manufacturing industries have slipped away to other countries; when awesome technological powers are in the hands of a very few, and no one representing the public interest can even grasp the issues; when the people have lost the ability to set their own agendas or knowledgeably question those in authority; when, clutching our crystals and nervously consulting our horoscopes, our critical faculties in decline, unable to distinguish between what feels good and what's true, we slide, almost without noticing, back into superstition and darkness.

Figure 91

Quotes on the internet are some of the most commonly faked content. People misattribute quotes to give them significance, or fabricate tendentious quotes to create controversy. (For some examples of fact-checking historical quotes, check out [Quote Investigator](#)).

In our case, if we know that Carl Sagan is an author of many books, rather than start in Google or DuckDuckGo's general search we might start in Google Books, which will likely get us to the source of the quote faster. Additionally, even if we cannot find the source, we might find a someone quoting this in a book from a major publisher, which is likely to have a more developed fact-checking process than some guy on Twitter.

So we go to *Google Books* and we pick out just a short snippet of unique phrasing. I'm going to choose "clutching our crystals and nervously consulting."



Google Books search results for "clutching our crystals and nervously consulting".

Search term: clutching our crystals and nervously consulting

Results: About 678 results (0.67 seconds)

1. Paranormal Nation: Why America Needs Ghosts, UFOs, and Bigfoot

<https://books.google.com/books?isbn=0313382077>
 Marc E. Fitch - 2013 - Preview - More editions
 We know we are fouling our waterways and the skies above, but we certainly don't seem to be able to get together with ... question those in authority; when, **clutching our crystals and nervously consulting** our horoscopes, our critical faculties in ...

2. Unscientific America: How Scientific Illiteracy Threatens Our Future

<https://books.google.com/books?isbn=046501917X>
 Chris Mooney, Sheril Kirshenbaum - 2010 - Preview - More editions
 How Scientific Illiteracy Threatens Our Future Chris Mooney, Sheril Kirshenbaum ... agendas or knowledgeably question those in authority; when, **clutching our crystals and nervously consulting** our horoscopes, our critical faculties in decline, ...

3. Fool Me Twice: Fighting the Assault on Science in America - Page 105

<https://books.google.com/books?isbn=1609613201>
 Shawn Lawrence Otto - 2011 - Preview - More editions
 in his view, this threatened the fabric of america: i have a foreboding of an america in my children's or grandchildren's ... question those in authority; when, **clutching our crystals and nervously consulting** our horoscopes, our critical faculties in ...

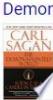
4. Demon-Haunted World: Science as a Candle in the Dark

<https://books.google.com/books?isbn=0307801047>
 Carl Sagan - 2011 - Preview - More editions
 I wanted to be a scientist from my earliest school days. ... or knowledgeably question those in authority; when, **clutching our crystals and nervously consulting** our horoscopes, our critical faculties in decline, unable to distinguish between.

Figure 92

Down there at the bottom, the fourth result, is a book by Carl Sagan. It says it's from 2011, but don't be fooled by this date; this is just the date of the edition indexed here. Let's click through to the book to check the quote and sort out the date later.

Clicking through the book we find the quote is accurate. More importantly, we find the surrounding context and find that this quote is not being taken out of context. Sagan was truly worried about this issue. His prediction was very much that a sound bite obsessed media, combined with a sort of celebration of ignorance, would

drag us backwards. He understood that the world was becoming more difficult while the communication of ideas was simultaneously becoming more shallow.

United States is a service and information economy; when nearly all the key manufacturing industries have slipped away to other countries; when awesome technological powers are in the hands of a very few, and no one representing the public interest can even grasp the issues; when the people have lost the ability to set their own agendas or knowledgeably question those in authority; when, clutching our crystals and nervously consulting our

Copy

horoscopes, our critical faculties in decline, unable to distinguish between what feels good and what's true, we slide, almost without noticing, back into superstition and darkness.

The dumbing down of America is most evident in the slow decay of substantive content in the enormously influential media, the 30-second sound bites (now down to 10 seconds or less), lowest common denominator programming, credulous presentations on pseudoscience and superstition, but especially a kind of celebration of ignorance. As I write,

Figure 93

You can find out the original publication date of this work a number of ways. There's a "more versions" option on the *Google Books* interface. You could go look for the book's article on *Wikipedia*, as they will usually give you the publication date. But the easiest way is usually to turn to the front pages of the book and find the date, just as you would with a physical book.

WEB LITERACY FOR STUDENT FACT-CHECKERS

A Ballantine Book

Published by The Random House Publishing Group

Copyright © 1996 by Carl Sagan

All rights reserved.

Published in the United States by Ballantine Books, an imprint of The Random House Publishing Group, a division of Random House, Inc., New

Figure 94

37. Understanding Astroturf

“**G**rassroots” political efforts emerge from the “bottom-up,” with small local groups banding together to put pressure on city, county, state, or federal government to take (or oppose) specific action. They are “people-powered,” usually relying on volunteer labor and small donations from local people and organizations. In the age of social media, the phrase “grassroots” has also been applied to national movements that start by a small group of citizens organizing online.

Being “grassroots” is not a technique limited to Republicans or Democrats. The Tea Party revolts against President Obama’s health care plan, for example, had [many grassroots elements](#), being organized on the local level by loosely connected people and local organizations. [Moms Demand Action](#), a gun control advocacy group, was started when a stay-at-home mother was shocked by her son’s response to the Sandy Hook school shooting. She put up a *Facebook* page to organize action, and slowly built a movement.

Citizens tend to look more favorably upon people-powered, local politics than corporate funded initiatives funded by people from somewhere else. The desire to

portray corporate and non-local efforts as local has led to a practice called **astroturfing**, where large corporations or rich individuals use “front groups” that look like local groups of activists, but are funded and organized primarily by national corporations or rich individuals from elsewhere.

When deciding whether an organization is astroturfing, consider the following:

- Who funded it (Was it a corporation, national foundation, or local money?)
- Who founded it (Was it founded locally, and by whom?)
- What interest that group might have in the action or initiative proposed (Is it financial, for instance, or related to larger social concerns?)

There is a bit of a sliding scale here for what qualifies as astroturfing. A locally founded initiative that receives primarily national money is (a bit) less astro-turfy than an organization founded directly by a corporation. An initiative that receives money from a foundation dedicated to a larger social goal (such as elimination of poverty) is less astro-turfy than a corporation spending money to boost its stock price or get rid of regulations that constrain it. In general, what is most important is whether the organization’s reality matches the story that they are publicly telling.

38. Verifying Weather Information

Here's a list of some resources to check various aspects of weather.

Air Pollution

The EPA runs [AirNow](#).

The [Fire Incident System](#). Here's a [sample](#) incident.

Video of Weather

Facebook's [Live Map](#) shows live video from different locations which can be used to verify local conditions.

Searching TV Transcripts with the Internet Archive

The *Internet Archive* allows you to search the captions of major news programs that aired after 2009, making it possible to find statements that may have aired on TV but not in print.

As an example, consider this video that seems to show Donald Trump speaking about a picture of the annual pilgrimage to Mecca (a Muslim tradition) as a “sea of love.”

<https://www.youtube.com/watch?v=xNiK26RGcF8>

There are plenty of reasons to doubt this is an authentic video. It has a low view count given its content; it’s on a YouTube channel that generally features jokes, not political content; the lighting on that picture is weird; and if you have heard Trump speak about his inauguration, you probably heard him use these same terms. The likelihood is that someone has doctored a video of him talking about the inauguration and made it look like a commentary on Mecca.

But if we want to prove that definitively, we should probably find the original video.

Here we're going to go over to the [Internet Archive's TV News Archive](#) and search for "tremendous sea of love," and right there, the second result, is the video that has been altered, along with the ABC chyron:

Figure 95

If you play this video, you'll see President Trump talking about the crowds at his own inauguration: someone clearly altered the picture the president was pointing to in the other video.

There's also a specialized Trump collection on the site if you just want to search the clips in which Donald Trump plays a part.

We can use this for other things as well. For example, we might want to fact-check whether Mike Pence agreed with the “Muslim Ban” during the later part of the campaign.

So you can check that by going into the Trump archive and typing “[pence muslim ban](#).”

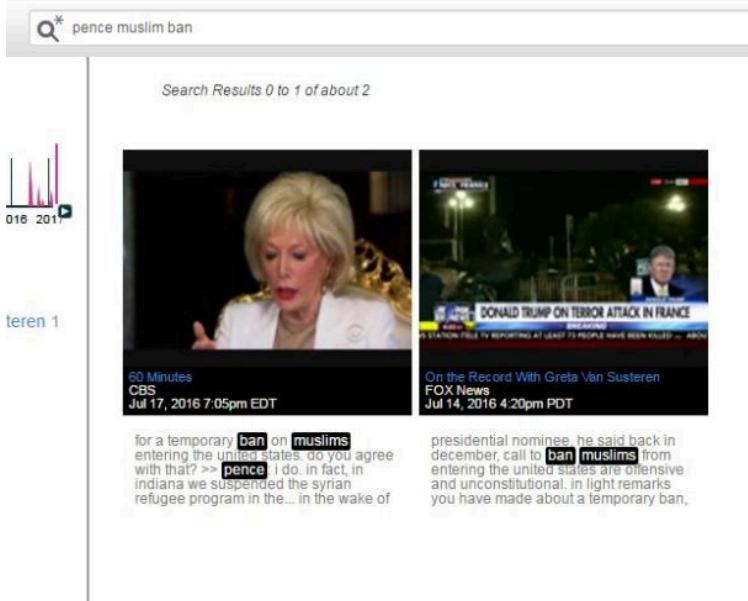


Figure 96

When you click on that, you'll see Mike Pence agreeing directly with that particular language.

Why is this important? So much of what our leaders communicate is now over the air with very little written record. Resources on sites like these are not indexed by Google, but are freely accessible and provide irreplaceable functionality for fact-checking civic discourse. Keep them in mind, especially if you are specifically looking for video content or if general news searches have failed.

Treating Google's "Snippets" with Suspicion

Occasionally when you search for an answer to a question on Google, you will not only find websites, but you may also find a “knowledge panel” that appears to have what search expert Danny Sullivan calls the “[One True Answer](#),” an answer that appears on a knowledge panel on top of the results.

Sometimes Google pulls an answer from a source algorithmically. For example, in response to “How many men landed on the moon?,” this panel answers “12 men,” citing a *Quora* article.

how many men landed on the moon

All News Images Videos Shopping More Settings Tools

About 5,360,000 results (0.84 seconds)

12 men

From publicly acknowledged information (and barring the hoax conspiracy theorists), **12 men** (and 0 women) have walked on The Moon (astronomy), all US astronauts from the Apollo Program missions: Apollo 11: Neil Armstrong (NASA Civilian) and Buzz Aldrin (USAF) Apollo **12**: Pete Conrad (US Navy) and Alan Bean (US Navy)

[How many men have walked on the moon? - Quora](https://www.quora.com/How-many-men-have-walked-on-the-moon)
<https://www.quora.com/How-many-men-have-walked-on-the-moon>

About this result • Feedback

Figure 97

Sometimes Google does not pull out the answer but makes the answer apparent in the blurb or headline of the card, as in this answer to the query, “last person to walk on the moon”:

last person to walk on the moon

All News Videos Images Shopping More Settings Tools

About 44,100,000 results (0.75 seconds)

Godspeed the crew of Apollo 17. — **Cernan**, Cernan's being the last person to walk on the Moon means that Purdue University holds the distinction of being the alma mater of both the first person to walk on the Moon (Neil Armstrong), and the most recent.

[Eugene Cernan - Wikipedia](https://en.wikipedia.org/wiki/Eugene_Cernan)
https://en.wikipedia.org/wiki/Eugene_Cernan

About this result • Feedback

Figure 98

This function of Google can be useful, but it malfunctions frequently enough that it should not be

trusted without verifying the source and context of the answer. There are two major problems: false simplicity and false (or non-standard) information.

False Simplicity

Here's a question: how many apostles are there in the Christian tradition? Google tells you, via a panel, even pulling out the number, thereby making it look decidedly objective: there are twelve!

how many apostles were there

All News Images Shopping Videos More Settings Tools

About 14,600,000 results (0.63 seconds)

twelve apostles

The original **twelve** disciples/apostles are listed in Matthew 10:2-4, "These are the names of the **twelve apostles**: first, Simon (who is called Peter) and his brother Andrew; James son of Zebedee, and his brother John; Philip and Bartholomew; Thomas and Matthew the tax collector; James son of Alphaeus, and Thaddaeus; ...

How many original disciples did Jesus have? What are their names ...

<https://www.quora.com/How-many-original-disciples-did-Jesus-have-What-are-their-na...>

[About this result](#) • [Feedback](#)

Figure 99

If you click through to that Quora question, though, you'll find that it answers a much more specific and simpler question: how many *original* apostles did Christ have (according to tradition). And for that answer they are correct. Including Judas, there are twelve.

But according to tradition, when Judas dies Matthias becomes an apostle, so that's thirteen. Then, Paul is an apostle, so fourteen. And Barnabas, Timothy, and James. The truth is that this answer is pretty debatable: it's

certainly not twelve, and some versions of the Bible refer to up to 25 different people as “apostles.”

It gets worse. These numbers, which are already various, come from various Christian traditions. Many historians, on the other hand, see the twelve apostles as a [creation of the early Church](#), that had no reality or significance during the lifetime of the historical Jesus and was later “retrojected” into the Gospels.

The fact is the whole question of how many apostles there were and who they were is inextricably bound up with complex questions of religion, history, and 1st century power struggles about who counted in the early church and who didn’t.

This may seem petty, but the truth is any extended discussion of this issue from any source, religious or historical, will surface these issues to the person who investigates. Google’s panels, however, are oblivious to this kind of complexity and present a simple numerical answer where no simple answer actually exists.

Misleading Highlights

Google uses some programming to try and highlight relevant answers in the blurb, but the highlighting is confused or confusing. Here, Google, when asked how old Lee Harvey Oswald was when he shot Kennedy, highlights 18, 24, and 22.

A screenshot of a Google search results page. The search query is "how old was lee harvey oswald at the time of the assassination". The results panel shows a snippet from Wikipedia: "Signature. Lee Harvey Oswald (October 18, 1939 – November 24, 1963) was an American former U.S. Marine who assassinated President John F. Kennedy on November 22, 1963." Below the snippet is a link to "Lee Harvey Oswald - Wikipedia" and the URL "https://en.wikipedia.org/wiki/Lee_Harvey_Oswald". At the bottom of the results panel, there is a link to "About this result • Feedback".

Figure 100

In reality, the answer is 24 years old, though a quick glance at this might have you thinking 18 or 22.

Blatant Misinformation

Sometimes the panel presents blatant misinformation. Often this material is the product of highly politicized areas or of conspiracy-believing communities, which tend to rank highly on *Google* search results more generally.

Take for instance this search, where we ask *Google* which presidents were in the Ku Klux Klan. The *Google* panel provides what seems to be a definitive answer: there were five!

A screenshot of a Google search results page. The search bar at the top contains the query "Presidents in the kkk". To the right of the search bar are a microphone icon and a magnifying glass icon. Below the search bar is a navigation bar with the following options: All (which is underlined in blue), News, Images, Shopping, Videos, More, Settings, and Tools. A status message "About 401,000 results (0.47 seconds)" is displayed. The main content area shows a list of search results. The first result is a bullet list: "• President William McKinley.", "• President Woodrow Wilson.", "• President Warren G. Harding.", "• President Harry S. Truman.". Below this list is a news article snippet with the title "REVEALED: 5 US Presidents Members Of Racist Cult Ku Klux Klan ..." and the URL "www.thetrentonline.com/revealed-5-us-presidents-members-racists-cult-ku-klux-klan-ph...". At the bottom right of the main content area is a link "About this result • Feedback".

Figure 101

As Case University Western history professor Peter Schulman points out, this **isn't even remotely true**. None of these presidents were members of the Ku Klux Klan (as far as we know), and if you click through to the article, you'll find the source here is a Nigerian newspaper of uncertain stature that references a book by David Barton, a nationalist known for self-publishing dubious works of historical revisionism.

There are numerous examples of similar behavior. Adrienne Jefferies at *The Outline* **details some more bad snippets**, including this one claiming Obama is planning for martial law (complete fiction):

is obama planning martial law

All News Images Videos Shopping More Settings Tools

About 911,000 results (0.69 seconds)

Barack Hussein **Obama** is implementing Alinsky's rules on a much wider scale. He is using these rules to divide America so that he can cause widespread chaos and panic so he can declare **martial** war. This is his **plan**. May 27, 2016



Obama's 6-part plan to declare martial law in America - Newstarget
www.newstarget.com/2016-05-27-obamas-6-part-plan-to-declare-martial-law-in-america...

About this result • Feedback

Figure 102

Google will also tell you that Lee Harvey Oswald didn't assassinate John F. Kennedy, despite the overwhelming evidence to the contrary:

why did lee harvey oswald assassinate president kennedy

All Videos News Images Shopping More Settings Tools

About 48,500 results (0.63 seconds)

The absence of a credible motive suggests that the question, 'Why did Lee Harvey Oswald kill President Kennedy?', is the wrong one to ask. A look at the evidence makes it clear that **Oswald** cannot have had any motive for killing **JFK**, because he almost certainly played no active role in the **assassination**.

Why Did Lee Harvey Oswald Kill President ... - JFK Assassination
22november1963.org.uk/why-did-lee-harvey-oswald-kill-president-kennedy

About this result • Feedback

Figure 103

Confirmation Bias and Bad Snippets

A lot of times Google is just bad. But sometimes bad answers are often the result of asking questions in ways

that tap into the language or concerns of pseudoscience, conspiracy theory, or fringe beliefs. For example, there is a very real problem some people have with monosodium glutamate, a food additive that triggers an allergic reaction in a small portion of the population. If you search on a phrase likely to be found in the medical literature like “msg sensitivity,” you get a fairly reliable result.

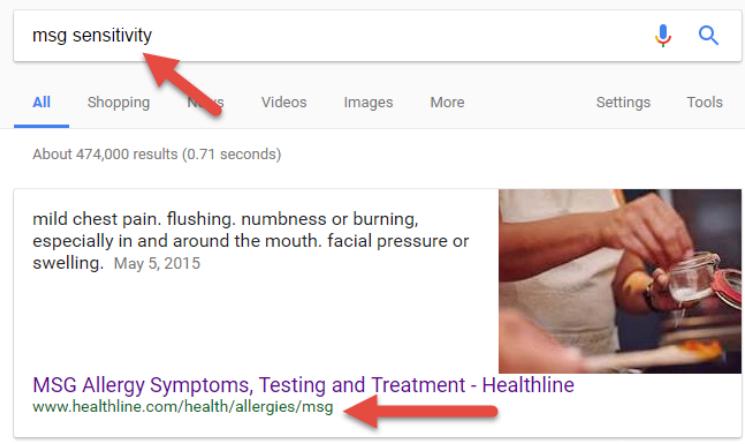
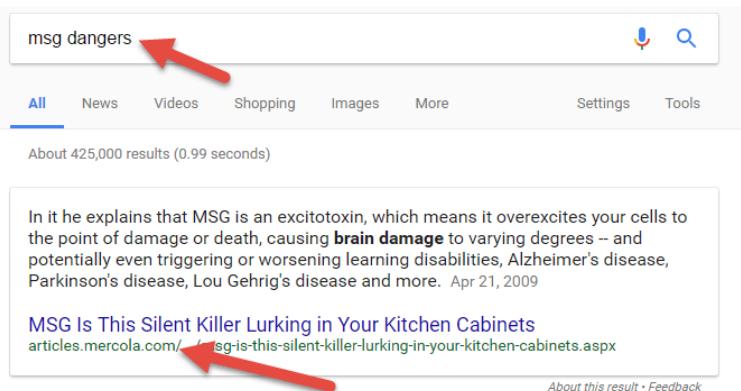


Figure 104

Healthline, in this case, is a recognized provider of reliable health information.

All this changes if you use the language of fringe groups that believe the medical community is suppressing a link between MSG and a variety of neurological disorders. Here's what you get when you type in 'msg dangers':



msg dangers

All News Videos Shopping Images More Settings Tools

About 425,000 results (0.99 seconds)

In it he explains that MSG is an excitotoxin, which means it overexcites your cells to the point of damage or death, causing **brain damage** to varying degrees -- and potentially even triggering or worsening learning disabilities, Alzheimer's disease, Parkinson's disease, Lou Gehrig's disease and more. Apr 21, 2009

MSG Is This Silent Killer Lurking in Your Kitchen Cabinets
articles.mercola.com/.../msg-is-this-silent-killer-lurking-in-your-kitchen-cabinets.aspx

About this result • Feedback

Figure 105

The blurb says it all (brain damage! alzheimer's! learning disabilities!), but if you look up the site (mercola.com) you'll find it is run by a physician who has been warned by the FDA repeatedly [to stop making false claims](#).

Our Advice

In general, simply treat the Google panel ("one true answer") as you would any other top search result. Despite Google's claims to the contrary, it is not significantly more or less reliable than an average source. Click through, trace the claims on the page to a source, and investigate the source. Never trust its result without validating the source of the claim.

Using Buzzsumo to Find Highly Viral Stories

If you are looking to hone your fact-checking skills, you may want to find highly viral stories. Your own *Facebook* and *Twitter* feeds are one good source for such stories, but sometimes you'll want to get outside your filter bubble and see the stories that other folks are sharing.

There are a number of tools you can use to find highly viral stories. *Buzzsumo* is one simple to use option. Here's how to find stories to investigate using it.

First, go to [Buzzsumo.com](https://www.buzzsumo.com).

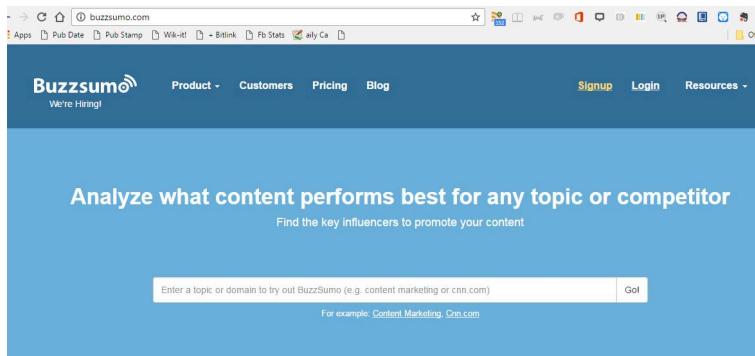


Figure 106

Put in a search term, like “cancer.” Buzzsumo will return the most shared stories on the topic of cancer. You can filter them by recency. Here, we look at just stories in the past week.

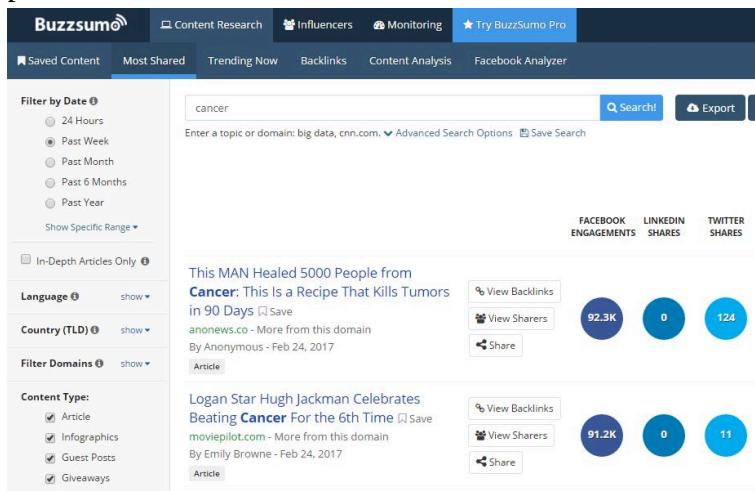


Figure 107

Facebook engagements is not purely about shares—it encompasses other actions as well—but it is a good metric of how viral the story is.

The free version of Buzzsumo only lets you view the top results and limits the number of searches you can perform per day, but it's often enough access to enable you to find an interesting story to fact-check. I like this “Cancer Cure Genius Silenced by Medical Mafia” one—its inflammatory language is a good indicator that the claims in it are likely to be overstated.



Figure 108

If you are writing your claim analysis up for the Digital Polarization Initiative, make a note of the engagements, as they are often a good proxy for the influence of the story on the general public. Thirty thousand engagements on this story makes it one of the top cancer stories of the week and one well worth looking into.

42. Finding Out Who Owns a Domain

Many times you'll want to know who is behind a domain. This used to be relatively easy to find out in the past: when a person bought a domain, their name was put into a "registry," which is sort of like the "phonebook of domains." (Yes, I know: many of you are probably now asking what a "phonebook" is...)

Back then, to find out who owned a domain, you'd just go and look it up, using a service called WHOIS.

Unfortunately, things got more complicated. People who had their email addresses and names in the "domain phonebook" would get spam email, or the information displayed on the registry would be used to try to hack their site. And many people—for example, political dissidents—had good reason to not reveal their names. So, a lot of the "registrars" (the people who you buy your domain name from) started offering masking services, which hide the owner of the domain.

Nowadays, if you want to find out who owns a domain, WHOIS-type services are a good first stop, even though they will usually fail for smaller sites.

To look up domain ownership, we recommend a tool

called *Domain Dossier*. Go to the site and type in your root URL and check all the checkboxes:

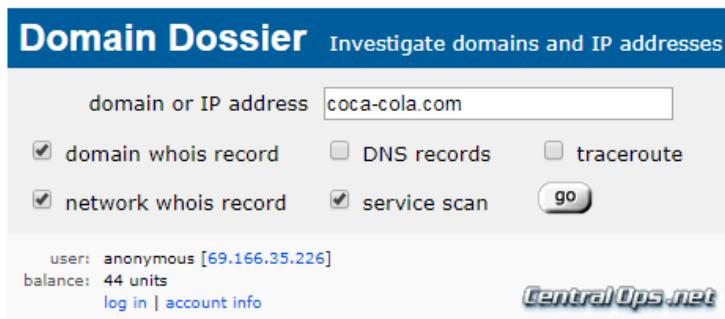


Figure 109

When the identity is not masked, you'll be able to see the owner of the domain. The first place to look is "Registrant Name" and "Registrant Organization":

Registrant Name: Domain Administrator
Registrant Organization: The Coca-Cola Company
Registrant Street: One Coca-Cola Plaza
Registrant City: Atlanta
Registrant State/Province: GA
Registrant Postal Code: 30313
Registrant Country: US
Registrant Phone: +1.4046768774
Registrant Phone Ext:
Registrant Fax: +1 4046088774

Figure 110

Occasionally, you may not get a useful name from the record, but the address might be telling.

If the name is masked in *Domain Dossier*, you'll get a record that looks like this:

Domain Whois recordQueried whois.internic.net with "dom protrump45.com"...

```

Domain Name: PROTRUMP45.COM
Registry Domain ID: 2093662524_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.networksolutions.com
Registrar URL: http://networksolutions.com
Updated Date: 2017-01-28T00:10:12Z
Creation Date: 2017-01-28T00:10:12Z
Registry Expiry Date: 2018-01-28T00:10:11Z
Registrar: Network Solutions, LLC.
Registrar IANA ID:
Registrar Abuse Contact Email: abuse@web.com
Registrar Abuse Contact Phone: +1.8003337680
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server: NS0.WIXDNS.NET
Name Server: NS1.WIXDNS.NET
DNSSEC Unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2017-08-08T05:00:04Z <<<
Queried whois.networksolutions.com with "protrump45.com"...
No match for "PROTRUMP45.COM".

```

Figure III

You may also see the name of a masking service, such as “Domains by Proxy”:

```

Registry Registrant ID: Not Available From Registry
Registrant Name: Registration Private
Registrant Organization: Domains By Proxy, LLC
Registrant Street: DomainsByProxy.com
Registrant Street: 14455 N. Hayden Road
Registrant City: Scottsdale
Registrant State/Province: Arizona
Registrant Postal Code: 85260
Registrant Country: US
Registrant Phone: +1.4806242599
Registrant Phone Ext:
Registrant Fax: +1.4806242598
Registrant Fax Ext:

```

Figure III2

In this case, the registrant is not from Arizona and not named “Domains by Proxy”—that is just the masking service.

Again, it’s important to note that masking is common enough these days that it shouldn’t cause suspicion.

While domain owners can hide their names, they cannot hide the date the domain was registered. As we’ll discuss in another chapter, this is often useful

information. By looking at the domain registration date, you can often get a sense of whether a site has a long history behind it or if it has been spun up for a specific purpose.

Avoiding Confirmation Bias in Searches

Was 9/11 a hoax? Let's find out. We type in 'was 9/11 a hoax' and we get:

The screenshot shows a Google search results page. The search bar at the top contains the query "was 9/11 a hoax". Below the search bar are navigation links for "All", "News", "Images", "Videos", "Shopping", "More", "Settings", and "Tools". The search results section displays the following items:

- 9/11 was a Hoax: The American government killed its own people**
www.serendipity.li/wot/911_a_hoax.htm ▾
9/11 was a **hoax**. This is no longer a wild conspiracy assertion; it is a fact, supported by thousands of other verifiable facts, foremost of which are: The attacks of ...
- 9/11 conspiracy theories - Wikipedia**
https://en.wikipedia.org/wiki/9/11_conspiracy_theories ▾
9/11 conspiracy theories are conspiracy theories that attribute the planning and execution of another, and claim that such "hoax theories ... appear calculated to alienate victims' survivors and the larger public from the 9/11 truth movement".
- THE TOP 40 Reasons to Doubt the Official Story - 911Truth.Org**
www.911truth.org/the-top-40-reasons-to-doubt-the-offical-story/ ▾
May 16, 2006 - 2001), in which he supposedly confesses to masterminding 9/11, appears to be a **fake**. In any event, the State Department's translation of it is ...
- the proof that no real planes were used on 9/11 - 9/11 PLANES HOAX**
<https://911planeshoax.com/2014/01/11/proof-that-no-real-planes-were-used-on-911/> ▾
Jan 11, 2014 - In the 9/11 story, Flight 175 strikes the South Tower at 450 m.p.h. Now top and bottom of the fuselage indicates we are viewing a **fake** plane.
- 9/11 PLANES HOAX | A plane does not pass through steel & concrete ...**
<https://911planeshoax.com/> ▾ [Translate this page](#)
A plane does not pass through steel & concrete like a ghost!

Figure 113

Well, look at that. Not only the top result says that the attack on 9/11 was faked—the top five results do. To the untrained eye it looks like the press has been hiding something from you.

But of course the 9/11 attacks were not faked. So why does Google return these results?

The main reason here is the term. The term “hoax” is applied to the 9/11 attacks primarily on conspiracy sites. So when Google looks for clusters on that term (and links to documents containing that term), it finds that conspiracy sites rank highly.

Think about it: reputable physics journals, policy

magazines, and national newspapers are not likely to run headlines asking if the attacks were a hoax. But conspiracy sites are.

The same holds true even for more benign searches. The question, “Are we eating too much protein” has Google return a panel from the *Huffington Post* (now *HuffPost*) and a website from a vegan advocacy group.

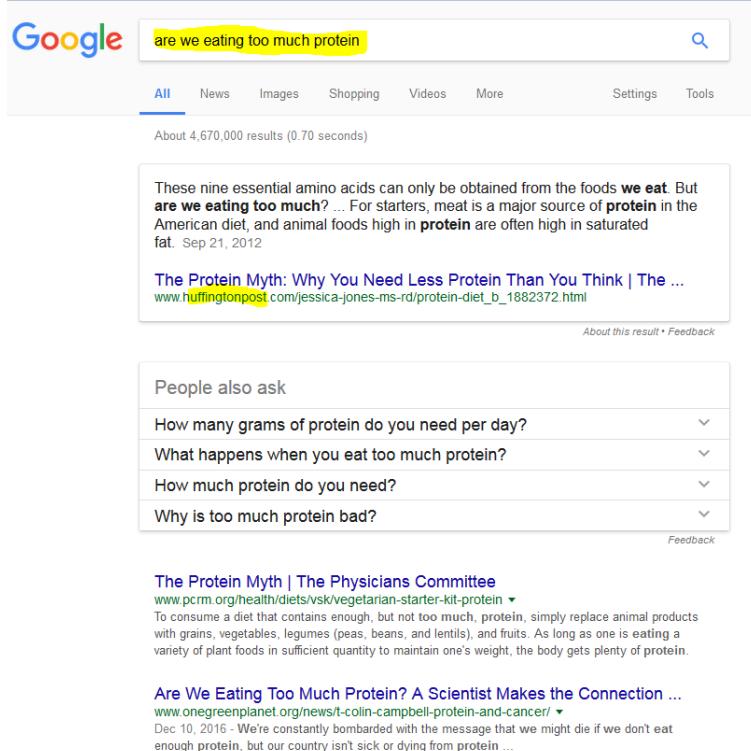


Figure 11.4

To avoid confirmation bias in searches:

- Avoid asking questions that imply a certain answer. If I ask “Did the Holocaust happen?,” for example, I am implying that it is likely that the

Holocaust was faked. If you want information on the Holocaust, sometimes it's better just to start with a simple noun search, e.g. "Holocaust," and read summaries that show how we know what happened.

- Avoid using terms that imply a certain answer. As an example, if you query "Women 72 cents on the dollar" you'll likely get articles that tell you [women make 72 cents on the dollar](#). But if you search for "Women 80 cents on the dollar" you'll get [articles that say women make 80 cents on the dollar](#). Searching for general articles on the "wage gap" might be a better choice.
- Avoid culturally loaded terms. As an example, the term "black-on-white crime" is a term used by white supremacist groups, but is not a term generally used by sociologists. As such, if you put that term into the *Google* search bar, you are going to get some sites that will carry the perspective of white supremacist sites, and be lousy sources of serious sociological analysis.
- Plan to reformulate. Think carefully about what constitutes an authoritative source before you search. Once you search you'll find you have an irrepressible urge to click into the top results. If you can, think of what sorts of sources and information you would like to see in the results before you search. If you don't see those in the results, fight the impulse to click on forward, and reformulate your search.
- Scan results for better terms. Maybe your first question about whether the holocaust happened turned up a lousy result set in general but did pop

up a *Wikipedia* article on Holocaust denialism. Use that term to make a better search for what you actually want to know.

44. Promoted Tweets

Promoted tweets are real tweets, but they do not reach you because they were shared by the people you follow. They reach you because the author of the tweet paid Twitter money to put it in your feed.

Here's an example of a promoted tweet, asking you to "Tweet your Senators" about the dangers of drug importation:



Figure 115

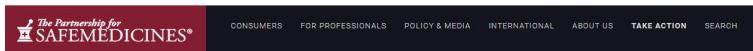
Promoted tweets aren't necessarily untrue, but they

should be treated the way one would treat a commercial. In this case, we look to see what organization has posted the tweet.



Figure 116

That leads us to their webpage and organization name: The Partnership for Safe Medicines.



Latest news

NABP Warns Congress About Canadian Online Pharmacies, February 10, 2017
02/13/17
Betty Hunter's Death Illustrates Danger of Fake Drugs
02/02/17

Fake Online Pharmacy Owner Sentenced to 8 Years US Agencies Find Counterfeit Drugs a Growing Danger in 2017
02/07/17
Mexican Hospitals Treated Children With Counterfeit Chemotherapy Drugs
01/26/17

Two Louisiana Men Sentenced for Filling Orders for a Fake Online Pharmacy Scam
01/24/17

Figure 117

And a little bit of investigation takes us to a page on the NPR site that shows this organization has ties to Big Pharma:

POLICY-ISH

Nonprofit Working To Block Drug Imports Has Ties To Pharma Lobby

April 18, 2017 · 5:00 AM ET

8+

EMILY KOPP RACHEL BLUTH

FROM **KHN** Kaiser Health News

Figure 118

While none of these means the claims of the organization claims are wrong or false, it is a worthwhile

perspective to have before you decide to retweet the tweet or not. Treat promoted tweets with suspicion. Someone is paying money to influence you, and it's best to know who before retweeting.

45. Finding Old Newspaper Articles

While more recent news articles are available from both Google's and Bing's news search tabs, older news can be more difficult to retrieve. Many options for retrieving old news entail paying a subscription fee or per article cost, which is a bit expensive for a person just checking up on a story. In this section, we'll show you how to use news archives to check on the existence of articles at no cost.

A Sample Problem

President Trump claimed the investigation to see if his campaign had colluded with Russia was a “witch hunt.” No sooner had he said that than this snapshot of an article appeared in my feed:

Part I-A—Sun., July 22, 1973

Nixon Sees 'Witch-Hunt,' Insiders Say

**BY BOB WOODWARD
and CARL BERNSTEIN**

The Washington Post

Figure 119

By now you should know it's trivially easy to fake something that looks like a snapshot of an old headline. So how do we find out if this article actually ran?

Our first instinct might be to go to the *Washington Post* to see if they have this article. That's not a bad instinct, but in this case the headline clearly ran somewhere else other than the *Post*—the *Washington Post* doesn't tag its own articles as coming from the "Washington Post." This particular headline was run in another paper.

So we want to do a broad search across many historical

American papers. When reporters do this, they most often use tools such as *LexisNexis* and *ProQuest*, which are usually unavailable to average people.

We'll have to make do with sources that are searchable from the web. There are three major web searchable archives in the U.S.:

- *Google's Historical Newspapers*: news.google.com/newspapers
- *Newspapers.com*: newspapers.com
- *Newsbank's Newspaper Archive*: newspaperarchive.com

Google offers complete articles. The other two offer snippets unless you pay them money, but snippets are enough for this sort of task.

So we construct our search. It's just a variation on the "site:" syntax we've used elsewhere.

Nixon Sees Witch Hunt (site:newspapers.com OR
site:news.google.com/newspapers OR
site:newspaperarchive.com)

And we get back a time-stamped result from the *LA Times*, with a date (in 1973) that looks promising:

Google search results for "Nixon Sees Witch Hunt" (site:newspapers.com OR site:news.google.com). The search found about 638 results in 0.45 seconds. The results are as follows:

- The Los Angeles Times from Los Angeles, California on July 22, 1973 ...**
<https://www.newspapers.com/newspage/166226886/> ▾
Jul 22, 1973 · Part I-A-Sun., July 22, 1973 | Nixon Sees 'Witch Hunt'; Sears Insiders Say Prices Effective through Tuesday, July 24 BY BOB WOODWARD and ...
- The Los Angeles Times from Los Angeles, California on June 29 ...**
<https://www.newspapers.com/newspage/165988917/> ▾
French denied the charges, labeled the consultant's study a "witch hunt" and said he ... Laird Sees Nixon Victory as Virtually Certain BY RICHARD BERGHOLZ ...
- The Bridgeport Post from Bridgeport, Connecticut ... - Newspapers.com**
<https://www.newspapers.com/newspage/60791839/> ▾
Oct 22, 1970 · The fact that an injunction Opposes 'Witch Hunt' has been issued by a is implemented as Mr. Nixon sees it, the situation would look like this: ...
- The Akron Beacon Journal from Akron, Ohio on ... - Newspapers.com**
<https://www.newspapers.com/newspage/152219381/> ▾
Feb 1, 1974 · ... as being the victim of "one of the most vicious witch hunts in American history. Exclusive snap-lock mount. m i eW Nixon Sees 6 Pet. Rate Of ...

Figure 120

Note that "Nixon sees witch-hunt Sears insiders say." What's that "Sears" bit about?

It becomes evident when we click through and look at the page:



Figure 121

You can see above we've circled the headline. The free version only offers this blurry "thumbnail" image of the page, but it's enough to spot the headline. It also makes obvious where the "Sears" came from—the text here was

automatically generated by computer and must have included the Sears ad next to as part of the headline.

If we scroll down the page, we can see enough to confirm that this article as I saw it in my feed was correct, even though the automatic character recognition has messed up a lot of the words:

Part I-A-Sun., July 22, 1973 I Nixon Sees 'Witch-Hunt; Sears Insiders Say Prices Effective through Tuesday, July 24 BY BOB WOODWARD and CARL BERNSTEIN Thft Washington Post WASHINGTON President Nixon and his top aides believe that the Senate 'Watergate hearings are unfair and constitute a "political witch-hunt," according to White House sources. The sources, said, that the President .in recent weeks had expressed bitterness and deep hostility toward the two-.morith-old proceedings.

We have enough here to say that this ran in the *LA Times* in July 1973. And if we really wanted to see a clean version of the article, we could subscribe to the service and grab a better image, which may be what the original tweeter did.

Checking Cited Headlines

Here's another paragraph, this time from the *New York Times*, that claims the *LA Times* ran a derogatory headline when the first female commercial pilot at a major airline got her wings.

There were no female pilots at the biggest airlines until 1973, when [American Airlines hired the first, Bonnie Tiburzi Caputo](#). In a reminder of how times have changed, that

news was reported in The Los Angeles Times under the headline, “Airline Pilot to Fly by Seat of Panties.”

The *New York Times* is a very reliable paper, and in this case we probably don’t need to check the article title. But let’s try anyway with the same sort of search as above:

Airline Pilot to Fly by Seat of Panties (site:newspapers.com
 OR site:news.google.com/newspapers OR
 site:newspaperarchive.com)

Note that because the optical character recognition sometimes transcribes things wrong, we don’t put quotes around the search phrase, at least at first. When we put it in, we’re in luck—we can see the headline in the blurb:

Airline Pilot to Fly by Seat of Panties (site:newspapers.com OR site:news.google.com/newspapers OR site:newspaperarchive.com)

All Images News Videos Shopping More Settings Tools

About 143 results (0.56 seconds)

[The Los Angeles Times from Los Angeles, California on June 5, 1973 ...](https://www.newspapers.com/newspage/165825699/)

<https://www.newspapers.com/newspage/165825699/>

Jun 5, 1973 - U.S. aircraft engineers said the crash of the Soviet SST may have of free- Newsmakers

[Airline Pilot to Fly by Seat of Panties Pilot kissed pilot, ...](https://www.newspapers.com/newspage/17578883/)

[Tucson Daily Citizen from Tucson, Arizona · Page 1 - Newspapers.com](https://www.newspapers.com/newspage/17578883/)

<https://www.newspapers.com/newspage/17578883/>

A torn, pair of panties, positively identified as hers, were found yesterday on a mesquite ...

A light Plane Pilot Hurt SAIGON (UPI)- U. S. Marines today F T. Gibbins in the Republican landslide

Figure 122

We might also search for a type of headline. For instance, a key point of the critics of global warming is the statement that scientists in the 1970s feared “global cooling” instead of global warming; the point being that the global warming scare is one in a long series of bad guesses to be later thrown away. Can we compare the

number of global cooling and global warming stories in the 1970s?

We execute a search for:

global cooling (site:newspapers.com) 1975

and we get an article from 1975, which talks of some sensationalist claims of a coming ice age. But when the reporter talks to a climatologist, the tone is different:

But Lawson prefers to speak in terms of the following probabilities: —In the long run, over thousands of years, there is probability of an ice age. —In the next few decades, there is a probability of a warming trend. —In the next few years, the probability is that global cooling will continue downward to 19th century levels.

(*Note: For some reason newspaper archive searches react badly to date filters, which is why we just put 1975 in plain text.*)

If we search for “global warming” in 1975, we get this quote in the January 29, 1975 edition of the *Orlando Sentinel* from a government scientist:

“After the next decade or so will come a warming trend, both because of increased CO₂ in the atmosphere and thermal pollution by power plants and so on. In the 21st century, man’s activities will predominate over nature.” J. Murray Mitchell, senior research climatologist, Environmental Data Service, National Oceanic and Atmospheric Administration.

While one would need much more evidence to settle the question of whether scientists on the whole feared global cooling or global warming in the 1970s, it’s clear enough

that many scientists expected warming due to man's activities even then. If you're looking at sharing an article that says that "cooling" was the big 1970s worry, you might want to sit on it before reposting.

PART VI

ACCESSIBILITY

46. Image Descriptions

Navigation tip: If you arrive here in a new window, click control-w or command-w to close this tab and return to the text.

While we try to list all figures in order, edits to the book may result in figure descriptions going out of order. For best results, always access the description from the caption link.

Figure headings are linked to themselves. Clicking on a link will merely scroll it to the top of the page.

FIGURE 1

A tweet from *Twitter* user @RonHogan that reads “The Nazis murdered Senator Schumer’s grandmother and most of her children. Trump’s father was arrested at a Ku Klux Klan rally.” It is in response to a Donald Trump tweet.

It has been retweeted over 55,000 times.

End.

FIGURE 2

A story with the headline “MORE HYPOCRISY: Obama banned all Iraqi Refugees for 6 Months in 2011— Liberals said nothing!” over a picture of protests against President Trump’s ban.

End.

FIGURE 3

A set of *DuckDuckGo* search results. The top results are from fact-checking sites *Snopes* and *Politifact*.

End.

FIGURE 4

A segment of a President Trump speech that reads “We must protect those who protect us. The number of officers shot and killed in the line of duty last year increased by 56 percent from the year before.”

End.

FIGURE 5

DuckDuckGo search results. The top search result is an article from the *Washington Post* fact-checker and highlighted text matches our query.

End.

FIGURE 6

A story with the headline “Report: US Government Ethics director approved controversial tweets” over a picture of President Trump.

End.

FIGURE 7

Text from the article with sentences mentioning the *Daily Dot* highlighted. If you read carefully, the *Daily Dot* (another publication) is the source of each fact (e.g. “the *Daily Dot* reported that Shaub sent an email” etc.).

End.

FIGURE 8

A screenshot of a page from the publication *Network World*. There are ten stories at the bottom of the page, but in small print under each one is an indication that they were paid for by an advertiser. The one in the upper left corner reads “Lawmakers Concerned About Insane Military Scope Released to Public” and is sponsored by “ZeroTac Tactical Scopes.”

End.

FIGURE 9

An enlargement of the ZeroTac technical scope “article”

link, showing the space below it where it indicates the sponsor.

End.

FIGURE 10

An article from *InfoWorld* on the topic of “Integrated Systems” by a man named Paul Miller. But above the article is small text that reads “Sponsored,” and near the top of the page is tiny text that indicates the sponsor is Hewlett Packard, a company that sells integrated systems.

End.

FIGURE 11

A screenshot of a *New York Times* webpage with many items on it. In the middle column of items, small text reading “News from AP and Reuters” tops the column.

End.

FIGURE 12

New York Times article with headline “UK Stock Market Hits Record as Manufacturers Win Business.” Where a reporter’s name might usually appear under the headline reads in small print, “by the Associated Press.”

End.

FIGURE 13

An article titled “Do You Support Patriotic Bikers Defending Trump’s Inauguration?” The article says that a source named *Right Alerts Polls* broke the story, but does not provide a link.

End.

FIGURE 14

Screenshot of the result of selecting and right-clicking. The term “Rights Alerts Polls” is highlighted and a context menu shows. The context menu offers an option to “Search Google for ‘Rights Alerts Polls’”. Note that you could do this without using the context menu; just copy and paste the phrase into to a Google search box.

End.

FIGURE 15

A Google search for “Right Alerts Polls bikers” reveals the article the other page cited as a source. It is the top result.

End.

FIGURE 16

The extended quote from the page reads, “These libtards need to shut the hell up. This is not only a biker event, but it is a Trump Supporters event. We are many and varied

but we unite as one.” It is said to be a quote on a *Facebook* page organizing the event.

End.

FIGURE 17

Screenshot of selecting “shut the hell up. This is not only a biker event.” The context menu offers an option to “Search Google for ‘shut the hell up. This is not only a biker event’”. Note that you could do this without using the context menu; just copy and paste the phrase into to a *Google* search box.

End.

FIGURE 18

The *Google* search results for “shut the hell up. This is not only a biker event.” The second result (which the screenshot calls attention to) has a web address on *Facebook* and is in the subdirectory of “events.”

End.

FIGURE 19

Facebook page showing only 1,800 have indicated that they are going to the biker event. In addition, only 8,000 are interested, and the page has only been shared with 10,000 people total.

End.

FIGURE 20

A photo shared through ABC News showing a parked car boxed in by shopping carts with the headline, “Shopper Upset over Double-Parked Car.”

End.

FIGURE 21

The top two Google search results for “shopper upset over double-parked car abc action news.”

End.

FIGURE 22

The Google search results for “shopping carts double-parked portland or.”

End.

FIGURE 23

A WGME article explaining the story behind a picture of a double-parked car surrounded by shopping carts.

End.

FIGURE 24

Google search results for “Matthew Mills” with one result featuring the caption, “this guy got a lesson in parking.”

End.

FIGURE 25

Facebook search result for “got a lesson in parking” Matthew Mills” showing a public post by Matthew Mills.

End.

FIGURE 26

Google Image search results for “parking revenge carts.”

End.

FIGURE 27

A *Reddit* post titled “Great Parking Job” showing a picture of a double-parked car surrounded by shopping carts.

End.

FIGURE 28

A tweet by user @NinjaEconomics that reads “On January 3, the #GDPNow model forecast for real GDP growth in

Q4 2016 is 2.9%” and shows a chart about the GDP forecast.

End.

FIGURE 29

A tweet by @unsmokable that reads “the life of a national geographic photographer” and shows a photo of a man standing on volcanic terrain and looking through a camera situated on a tripod. The photographer’s shoes and tripod have flames around them.

End.

FIGURE 30

A closer crop of the tweet by user @unsmokable showing the results when a viewer right-clicks/control-clicks on the image.

End.

FIGURE 31

Results from a *Google* reverse image search on the photo from *Twitter* user @unsmokable’s tweet.

End.

FIGURE 32

A Reddit post titled, “In the heat of the moment” with comments debating over the photo of the photographer with flaming shoes and a tripod.

End.

FIGURE 33

An article by Katie Hosmer titled “Hot Lava Sets Adventurous Photographer’s Feet on Fire.”

End.

FIGURE 34

A close up of the article by Katie Hosmer showing the text “via [PetaPixel].”

End.

FIGURE 35

Text from the *PetaPixel* site quoting the photographer of the lava photo, reading, “The photo is real, but the flames are not the result of spontaneous combustion” going on to explain that the photographer used an accelerant to start the flames.

End.

FIGURE 36

Close up of the *PetaPixel* site showing the results when a reader right-clicks/control-clicks on the *Hawaii News Now* link.

End.

FIGURE 37

The Google results from searching “Hawaii News Now.”

End.

FIGURE 38

A photo *Twitter* users attributed to *National Geographic*, which depicts what appears to be a photographer being attacked by a bird.

End.

FIGURE 39

A Google reverse image search result that suggests the best search term to find our original source is “birds attacking people.”

End.

FIGURE 40

A list of pages including images that match the reverse searched image. The first webpage is titled, “Dangerous Birds – Top 10 Birds That Could Kick Your Ass.” All of the pages appear to discuss bird attacks.

End.

FIGURE 41

An expanded settings list for Google reverse image search that can be accessed by clicking “Tools” and “Custom range...” These settings can be altered to filter out newer photos by modifying the dates that will be included in the results list.

End.

FIGURE 42

A new reverse image search, with a custom date of Dec 31, 2009 to exclude newer photos, such as those which may have been virally propagated under false pretenses. Now, our suggested search term is “bird.”

End.

FIGURE 43

The result page of our reverse image search, in which the title of the third website, *PentaxForums*, reads, “Got too

close the the hawk :(,“ and the description reads: “And as the poster said, these are trained...so its more like the camera man pissed off the hunter rather than the bird itself. Rest of the photos. Kazakhstan Eagle...”

End.

FIGURE 44

An article from the *Press* titled, “Kazakhstan Eagle Hunt,” which features our image.

End.

FIGURE 45

A list of Google search results of the search term, “stockton ca local affiliate.” We will select the fourth listing, CBS Sacramento.

End.

FIGURE 46

CBS Sacramento search with “teenage girls black lives matter” in the search bar.

End.

FIGURE 47

A photograph depicting a group of photographers running from a bear.

End.

FIGURE 48

A photograph in which a man in a body of water is hiding with a camera in a swan hunting tent.

End.

FIGURE 49

A photograph showing a section of a city empty and in shambles with what appears to be debris cluttering the buildings and streets.

End.

FIGURE 50

A photograph depicting a large stone ram on top of a semi-truck with the “OVER-SIZE” label on its front bumper. The ram appears to be more than three times the height of the semi-truck.

End.

FIGURE 51

A screenshot of the *Baltimore Gazette*, a site created to spread misinformation. The headline reads, “Clinton Received Debate Questions Week Before Debate, According to Sources.”

End.

FIGURE 52

A Google search tip demonstrating how to exclude a specific site from search results. The string used in the example is “baltimoregazette.com -site:baltimoregazette.com”. This would search all sites except for “baltimoregazette.com.”

End.

FIGURE 53

The homepage of the *Pacific Justice Institute*.

End.

FIGURE 54

Google search results for “www.pacificjustice.org -site:www.pacificjustice.org.” The search omits the site www.pacificjustice.org and brings up a *Wikipedia* article as the first result.

End.

FIGURE 55

WHOIS search result on the ICANN interface for “motherjones.com.” It displays the website’s owner, Foundation for National Progress, and its contact information.

End.

FIGURE 56

WHOIS search result on the ICANN interface for “baltimoregazette.com”. The website’s owner is listed as Domains by Proxy.

End.

FIGURE 57

A close up of baltimoregazette.com’s date of creation from WHOIS on the ICANN interface, which is listed as July of 2015.

End.

FIGURE 58

An article published in the peer-reviewed journal PLOS Medicine.

End.

FIGURE 59

A Google search for “plos medicine impact factor,” which indicates in the knowledge panel its impact factor is 13.585 as of 2015.

End.

FIGURE 60

An article published in the *Journal of Obesity and Weight-loss Medication* whose impact factor we want to investigate.

End.

FIGURE 61

A Google search for “Journal of Obesity and Weight-loss Medication impact factor” whose impact factor does not appear in a knowledge panel.

End.

FIGURE 62

The Google Scholar search results for “David Bann,” which features his many publications in lifespan obesity patterns. Most of the publications we find are from the last ten years.

End.

FIGURE 63

The *AnonHQ* article titled, “It’s Official: European Scientific Journal Concludes 9/11 was a Controlled Demolition.” The article has over 14,000 views and was published on September 11, 2016.

End.

FIGURE 64

The *Google Scholar* search results for “Robert Korol,” who appears to have published architectural research in the 1970s, 80s, and 90s.

End.

FIGURE 65

The *Google Scholar* search results for “Jennie Connor 2016,” which shows her well-cited publications. Her 2017 article received 12 citations, and two articles were cited by 23 and 36 others.

End.

FIGURE 66

The *Google* search results for “addiction impact factor,” which we find in the knowledge panel to be 4.145 as of 2010.

End.

FIGURE 67

The *Google* search result for “nih alcohol and cancer.” The fifth result from the NIH is described as “A fact sheet that summarizes the evidence linking alcohol consumption to the risk of various cancers...”

End.

FIGURE 68

The *Google* search result for “www.cancer.gov -site:www.cancer.gov.” This search includes all sites other than www.cancer.gov. We see that five results down, the National Health Institute, an organization we trust, is talking about the National Cancer Institute.

End.

FIGURE 69

A tweet by *Twitter* user @MichaelESmith that reads, “Bullshit! Aztec society collapsed in 1519 fr. Cortes & smallpox. Salmonella in 1540 was far too late. And the painting is European fantasy.” Smith is responding to a

tweet claiming that salmonella poisoning may have contributed to the fall of the Aztec civilization.

End.

FIGURE 70

A tweet by @pixelatedboat featuring a photo of two men that reads, “This is Woodward and Bernstein. Nixon called them the enemy. They proved that no president is above the law. #NotTheEnemy.”

End.

FIGURE 71

A tweet by user @RepJackKimble that reads, “Why have the wars cost so much under Obama? Check the budgets, Bush fought 2 wars without costing taxpayers a dime.”

End.

FIGURE 72

The Twitter bio of user @RepJackKimble reading, “Congressman from CA’s 54th District. JackKimble.com Author of Profiles in Courageousness amzn.to/1ER7SeUE pluribus unum (1 Nation under God).”

End.

FIGURE 73

The *Twitter* bio of user @jasoninthehouse reading, “United States Congressman (UT-3). Chairman, Oversight & Government Reform. Tweets come from me, not my staff.” The user’s name has a small blue seal next to his name, indicating that his identity is verified by *Twitter*.

End.

FIGURE 74

The header of Twitter user @PerseusJackson, strategically using the background image to give the impression that it is a verified account by *Twitter*.

End.

FIGURE 75

A video showing how to hover over a *Twitter* user’s verification seal to check if it is legitimate.

End.

FIGURE 76

The *Twitter* bio of user @MinervaSchools reading, “Minerva offers a unique undergraduate education for the brightest, most motivated students in the world.”

End.

FIGURE 77

Twitter user @MinervaSchool's tweetstream from February showing two tweets, the number of followers the account has, and the number of tweets the account has made.

End.

FIGURE 78

A tweet by user @mcpli mocking the screenshot of a supposed tweet by user @DanPatrick which reads, "MARRIAGE= ONE MAN & ONE MAN. Enough of these activist judges. FAVORITE if you agree. I know the silent majority out there is with us!"

End.

FIGURE 79

A fake tweet generated by the author of this text that shows user @BarackObama tweeting, "Web Literacy for Student Fact-Checkers is AMAZING! You should read it. (Thanks Mike!)"

End.

FIGURE 80

The *Politiwhoops* archive of deleted tweets by user

@realDonaldTrump showing two tweets made and deleted by the account in February of 2017.

End.

FIGURE 81

A video showing how to view the cached version of @realDonaldTrump's Twitter page by searching the account through Google, hovering over the drop down arrow next to the first result's URL, and selecting "Cached."

End.

FIGURE 82

Google's cache information of @realDonaldTrump's Twitter page, reading "This is Google's cache of <https://twitter.com/realdonaldtrump>. It is a snapshot of the page as it appeared on Feb 15, 2017 14:46:56 GMT."

End.

FIGURE 83

The search bar of the Wayback Machine with the search term "whitehouse.gov" typed in.

End.

FIGURE 84

The Wayback Machine’s search results for “whitehouse.gov” displaying a calendar of the months of January, February, March, and April of 1999 with blue and green dots encasing some of the calendar’s dates.

End.

FIGURE 85

The page of whitehouse.gov from January 1999 showing links to White House documents, the contents of the website, Radio Addresses of the President, Executive Orders, Photographs, a database to all government sites, The Declaration of Independence, The Constitution of the United States, a subscription list, and press releases.

End.

FIGURE 86

An ABCNews.co article entitled, “Donald Trump Protester Speaks Out: ‘I Was Paid \$3,500 To Protest Trump’s Rally’” and showing a publication date of November 11, 2016.

End.

FIGURE 87

An ABCNews.co article entitled, “Donald Trump Protester

Speaks Out: 'I Was Paid \$3,500 To Protest Trump's Rally" and showing a publication date of March 24, 2016.

End.

FIGURE 88

An ABCNews.co article entitled, "Donald Trump Protester Speaks Out: 'I Was Paid \$3,500 To Protest Trump's Rally" and showing a publication date of June 16, 2016.

End.

FIGURE 89

An ABCNews.co article entitled, "Donald Trump Protester Speaks Out: 'I Was Paid \$3,500 To Protest Trump's Rally" and showing a publication date of September 11, 2016.

End.

FIGURE 90

The first *Google* result for "site:abcnews.com.co/donald-trump-protester-speaks-out-i-was-paid-to-protest/" showing the abcnews.co article with a publication date of March 26, 2016.

End.

FIGURE 91

A tweet by user @cbquist posting a quote supposedly said by Carl Sagan, which states, “I have a foreboding of an America in my children’s or grandchildren’s time—when the United States is a service and information economy; when nearly all the manufacturing industries have slipped away to other countries; when awesome technological powers are in the hands of a very few, and no one representing the public interest can even grasp the issues; when the people have lost the ability to set their own agendas or knowledgeably question those in authority; when, clutching our crystals and nervously consulting our horoscopes, our critical faculties in decline, unable to distinguish between what feels good and what’s true, we slide, almost without noticing, back into superstition and darkness.”

End.

FIGURE 92

The top *Google Books* search results for “clutching our crystals and nervously consulting.”

End.

FIGURE 93

An excerpt of Carl Sagan’s *Demon-Haunted World*, found through *Google Books*, where Sagan provides the quote that was attributed to him by Twitter user @cbquist.

End.

FIGURE 94

The publication information of Carl Sagan's *Demon-Haunted World* showing a publication date of 1996.

End.

FIGURE 95

Internet Archive's TV News Archive search for "tremendous sea of love." The second result is our video, and I have circled the video, which is from ABC.

End.

FIGURE 96

A search for "pence muslim ban" in the Trump archive, which shows the text of a video in which Mike Pence, when asked if he agrees with the Muslim ban, responded, "I do."

End.

FIGURE 97

Google search result for "how many men landed on the moon" in which a knowledge panel answers the query via Quora with "12 men."

End.

FIGURE 98

Google search result for “last man to land on the moon” in which a knowledge panel pulls text from a *Wikipedia* article and puts the name “Cernan” in bold as the answer to the question.

End.

FIGURE 99

Google search result for “how many apostles were there” in which a knowledge panel replies “12 apostles” via *Quora*.

End.

FIGURE 100

Google search result for “how old was lee harvey oswold at the time of the assassination” in which a knowledge panel puts in bold 18, 22, and 24, which are numbers from Oswald’s date of birth, date of death, and the date of the assassination via a *Wikipedia* article. None are an answer to the Googled question.

End.

FIGURE 101

*Google search result for “Presidents in the kkk” in which a knowledge panel pulls the names of several presidents from *The Trent Online*.*

End.

FIGURE 102

Google search result for “is obama planning martial law” in which a knowledge panel pulls a quote from newstarget.com claiming that Obama is in fact planning martial law.

End.

FIGURE 103

Google search result for “why did lee harvey oswold assassinate president kennedy” in which a knowledge panel pulls text from a site claiming that Oswald did not assassinate President Kennedy.

End.

FIGURE 104

*Google search result for “msg sensitvity” in which a knowledge panel pulls a list of symptoms from *Healthline*.*

End.

FIGURE 105

Google search result for “msg dangers” in which a knowledge panel brings up *Mercola*, which claims that msg causes brain damage, such as Alzheimer’s disease and learning disabilities.

End.

FIGURE 106

Homepage of *Buzzsumo*, which features a search bar on its main page.

End.

FIGURE 107

Buzzsumo results for “cancer,” showing two articles and their *Facebook* engagements, which is meant to measure the virality of the articles on *Facebook*.

End.

FIGURE 108

Buzzsumo results for “cancer” scrolled down a few articles. One article, “Royal Rife: Cancer Cure Genius Silenced by Medical Mafia” uses particularly inflammatory language.

End.

FIGURE 109

Domain Dossier search bar with “coca-cola.com” typed in and a list of databases it searches with boxes next to them you click to include results from.

End.

FIGURE 110

Domain Dossier results for the search on “coca-cola.com” in which the registrant’s name, organization, street, and city are all available for public access.

End.

FIGURE 111

Domain Dossier search results for “protrump45.com,” showing that the site’s owner is masked.

End.

FIGURE 112

Domain Dossier search results showing the registrant of a site’s name as Domains by Proxy, LLC, a service that masks the real owners of sites.

End.

FIGURE 113

Google search results for “was 9/11 a hoax” in which the top five sites confirm the conspiracy that 9/11 was faked.

End.

FIGURE 114

Google search results for “are we eating too much protein” in which *Google* pulls a knowledge panel from *Huffington Post*, and the top site promotes veganism.

End.

FIGURE 115

Promoted tweet from user @SafeMedicine urging us to tweet our senators against our exposure to unsafe medicine. We can tell it’s promoted by the gray text that reads “Promoted” below the “reply,” “retweet,” and “like” functions.

End.

FIGURE 116

Twitter page for user @SafeMedicine, which features its website name, *safemedicine.org*.

End.

FIGURE 117

The homepage of *safemedicine.org*, which reveals the name of the organization, The Partnership for Safe Medicines.

End.

FIGURE 118

An article about The Partnership for Safe Medicines on the *Northwest Public Radio* site titled, “Nonprofit Working to Block Drug Imports Has Ties to Pharma Lobby.”

End.

FIGURE 119

The headline of a newspaper article from 1973 titled “Nixon Sees ‘Witch-Hunt’ Insiders Say” with the *Washington Post*’s name below the headline.

End.

FIGURE 120

Google search results for “Nixon Sees Witch Hunt (site: newspapers.com OR site: google.news.com/newspapers OR site: newspaperarchive.com)” to only search on these three sites. The first result, from the *LA Times*, mentions our headline in the description and is from 1973.

End.

FIGURE 121

The newspaper article from the first result of our last Google search, which features our headline “Nixon Sees ‘Witch-Hunt’ Insiders Say.”

End.

FIGURE 122

Google search results for “Airline Pilot to Fly by Seat of Panties (site:newspapers.com OR site:news.google.com/newspapers OR site:newspaperarchive.com),” in which the article appears in the first result.

End.

"Fact-Checking Sites" Image Descriptions

Navigation tip: If you arrive here in a new window, click control-w or command-w to close this tab and return to the text.

There are no images or figures in Chapter Five.

48.

"How to Use Previous Work" Image Descriptions

Navigation tip: If you arrive here in a new window, click control-w or command-w to close this tab and return to the text.

[Figure 4.1](#)

[Figure 4.2](#)

[Figure 4.3](#)

[Figure 4.4](#)

FIGURE 4.1

A story with the headline “MORE HYPOCRISY: Obama banned all Iraqi Refugees for 6 Months in 2011– Liberals said nothing!” over a picture of protests against President Trump’s ban.

End.

FIGURE 4.2

A set of *DuckDuckGo* search results. The top results are from fact-checking sites *Snopes* and *Politifact*.

End.

FIGURE 4.3

A segment of a President Trump speech that reads, “We must protect those who protect us. The number of officers shot and killed in the line of duty last year increased by 56 percent from the year before.”

End.

FIGURE 4.4

DuckDuckGo search results. The top search result is an article from the *Washington Post* fact-checker and we can see the highlighted text that matches our query.

End.

“Go Upstream to Find the Source” Image Descriptions

Navigation tip: If you arrive here in a new window, click control-w or command-w to close this tab and return to the text.

[Figure 7.1](#)

[Figure 7.2](#)

FIGURE 7.1

A story with the headline, “Report: US Government Ethics director approved controversial tweets” over a picture of President Trump.

End.

FIGURE 7.2

Text from the article with sentences mentioning *Daily Dot* highlighted. If you read carefully, the *Daily Dot* (another

publication) is the source of each fact, e.g. “the *Daily Dot* reported that Shaub sent an email”, etc.

End.