

# Out-of-context photos are a powerful low-tech form of misinformation

February 17 2020, by Lisa Fazio



The meme applies misleading text to a photo. Credit: Turning Point USA

When you think of visual misinformation, maybe you think of deepfakes—videos that appear real but have actually been created using [powerful video editing algorithms](#). The creators [edit celebrities into pornographic movies](#), and they can [put words into the mouths](#) of people who never said them.

But the majority of visual misinformation that people are exposed to involves much simpler forms of deception. One common technique involves recycling legitimate old photographs and videos and presenting them as evidence of recent events.

For example, Turning Point U.S., a conservative group with over 1.5 million followers on Facebook, posted a photo of a ransacked grocery store with the caption "YUP! #SocialismSucks." In reality, the empty supermarket shelves have nothing to do with socialism; the photo was taken in [Japan after a major earthquake in 2011](#).

In another instance, after a global warming protest in London's Hyde Park in 2019, photos began circulating as proof that the protesters had left the area covered in trash. In reality, some of the photos were from Mumbai, India, and others came from a completely [different event in the park](#).

I'm a [cognitive psychologist](#) who studies how people learn correct and incorrect information from the world around them. Psychological research demonstrates that these out-of-context photographs can be a particularly potent form of misinformation. And unlike deepfakes, they are incredibly simple to create.

## **Out of context and incorrect**

Out-of-context photos are very common source of misinformation.



**SAYEH KELLY** @SHADOWAEMEH

Hyde park this morning, the eco worriers #ExtinctionRebellion have left their plastic rubbish scattered across the park, so much care and concern for the earth is quite touching really!!



11:50 AM - 21 Apr 2019



The caption tells a different story than the picture actually does. Twitter screen grab

In the day after the January Iranian attack on U.S. [military bases](#) in Iraq, reporter [Jane Lytvynenko at BuzzFeed documented](#) numerous instances of old photos or videos being presented as evidence of the attack on social media. These included photos from a 2017 military strike by Iran in Syria, video of Russian training exercises from 2014 and even footage from a video game. In fact, out of the 22 [false rumors](#) documented in the article, 12 involve this kind of out-of-context photos or video.

This form of misinformation can be particularly dangerous because images are a powerful tool for swaying popular opinion and promoting false beliefs. *Psychological research* has shown that people are more likely to believe true and false trivia statements, such as "turtles are deaf," [when they're presented alongside an image](#). In addition, people are more likely to claim they've previously seen freshly made-up headlines when they're [accompanied by a photograph](#). Photos also increase the numbers of likes and shares that a post receives in a [simulated social media environment](#), along with people's beliefs that the post is true.

And pictures can alter what people remember from the news. In an experiment, one group of [people read a news article](#) about a hurricane accompanied by a photograph of a village after the storm. They were more likely to falsely remember that there were deaths and serious injuries compared to people who instead saw a photo of the village before the hurricane strike. This suggests that the false pictures of the Jan. 2020 Iranian attack may have affected people's memory for details of the event.

## Why they're effective

There are a number of reasons photographs likely increase your belief in statements.

First, you're used to photographs being used for photojournalism and serving as proof that an event happened.

Second, seeing a photograph can help you more quickly retrieve related information from memory. People tend to use this ease of retrieval as a [signal that information is true](#).

<b>GOOGLE CHROME</b>	Right click on any image, hit 'Search Google for image' and see if a picture has appeared online before.
<b>YANDEX</b>	Russia's biggest web firm has a huge image database and a powerful search function. Just enter an image address or upload a file.
<b>TINEYE</b>	Although it has a smaller number of indexed pics, you can sort results by date, making it very useful for finding the original.
<b>REVEYE BROWSER EXTENSION</b>	Right click on a pic and immediately perform a search on any or all of the above platforms and more.

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**FIRSTDRAFT**

FirstDraft, a nonprofit focused on fighting misinformation and improving

journalism, provides tips for conducting a reverse image search. Credit: [FirstDraft](#), [CC BY-NC-ND](#)

Photographs also make it more easy to imagine an event happening, which can make it [feel more true](#).

Finally, pictures simply capture your attention. A [2015 study by Adobe](#) found that posts that included images received more than three times the Facebook interactions than posts with just text.

## **Adding info so you know what you're seeing**

Journalists, researchers and technologists have begun working on this problem.

Recently, the [News Provenance Project](#), a collaboration between the *New York Times* and IBM, released a [proof-of-concept](#) strategy for how images could be labeled to include more information about their age, location where taken and original publisher. This simple check could help prevent old images from being used to support false information about recent events.

In addition, social media companies such as Facebook, Reddit and Twitter could begin to label photographs with information about when they were first published on the platform.

Until these kinds of solutions are implemented, though, readers are left on their own. One of the best techniques to protect yourself from misinformation, especially during a breaking news event, is to use a reverse image search. From the Google Chrome browser, it's as simple as right-clicking on a photograph and choosing "Search Google for

image." You'll then see a list of all the other places that [photograph](#) has appeared online.

As consumers and users of [social media](#), we have a responsibility for ensuring that information we share is accurate and informative. By keeping an eye out for out-of-context photographs, you can help keep misinformation in check.

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Provided by The Conversation

Citation: Out-of-context photos are a powerful low-tech form of misinformation (2020, February 17) retrieved 18 April 2024 from <https://medicalxpress.com/news/2020-02-out-of-context-photos-powerful-low-tech-misinformation.html>

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