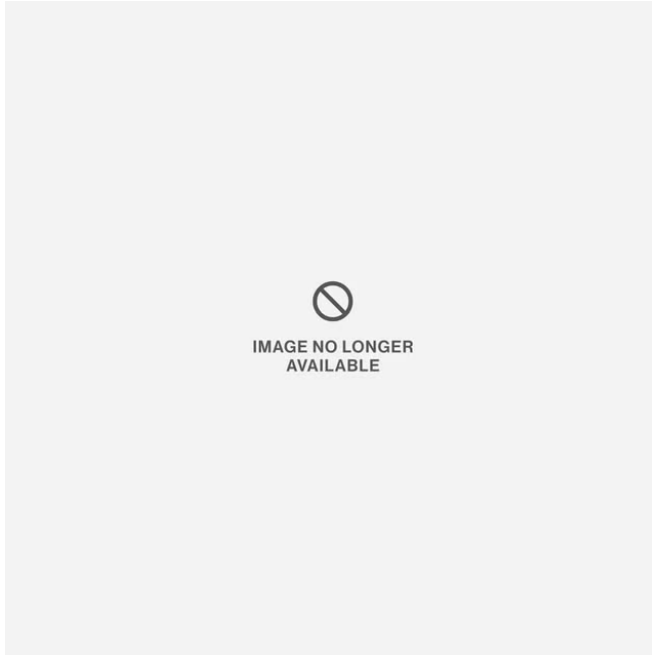


[New Technology](#) > [Security](#)

What Are Flash Cookies and How Can You Stop Them?

If you are concerned about your privacy online, it's worth learning about how Flash cookies work and what you can do to control them.

BY [JOHN HERRMAN](#) PUBLISHED: SEP 23, 2010 1:20 PM EDT



Media Platforms Design Team

A minor furor has been raised after yesterday's [New York Times report](#) about privacy issues regarding Flash cookies. These cookies are small pieces of information stored and accessed by Adobe Flash, the browser plug-in used by sites ranging from YouTube to Farmville. As the *Times* reported, some users are going so far as to sue companies that use these innocuously named tracking tools, which most people never even knew existed. If you are concerned about your privacy online, it's worth learning about how Flash cookies work and what you can do to control them.

Locally stored files are common currency for Internet browser software. Every time you surf the Internet, your browser collects bits and pieces of information from the sites you visit, either in the form of cache, which stores photos and site data on your hard drive

to help speed up page loading, or cookies, which are small files deposited on your computer so Websites can remember certain things about you. (Whether you've been to their site before, added something to your shopping cart, or logged in with a username and password, for example.)

But cookies aren't just deposited by site hosts. Advertising companies, whose ads are often present across multiple sites visited by a given user, can plant cookies of their own, giving them a window into browsers' surfing habits. This rightly makes some people uncomfortable, so browser makers have for years included tools to clear local storage and cookies, limit their use in the first place, or specifically block third-party cookies. Enter Flash cookies.

Like your browser, the Flash plug-in displays all kinds of content—animation, Web apps, text and images—and, accordingly, stands to benefit from local storage. Instead of using the browser's local storage system, though, it has its own. Adobe tells Popular Mechanics this capability is "a required capability [for Flash] to support rich Internet applications," and that it helps provide "a better user experience." The problem is, some sites are using Flash local storage for an entirely different purpose.

"Clearly enough consumers have said 'no' to cookie-based data mining that advertisers have had to invest in new technologies to track user data," says Ben Nell, Senior Security Engineer at Foreground Security. He's talking, of course, about Flash. "Flash cookies were designed to track user preferences in Flash applications, and their

adoption as a mechanism to keep tabs on our browsing behavior is recent enough that tools that many consumers rely on to clear their cache of advertisers' cookies aren't even looking for them."

In other words, the Flash plug-in is able to store data locally just like your browser does, but in a different location on your hard drive. "And since Flash is an add-on component," says Nell, "built-in browser controls over standard cookies don't apply to Flash cookies."

Such is the problem with Flash local storage: You're probably not aware of it, nor are you in control of it. But that doesn't mean you can't be. By right-clicking any Flash content, you can access local storage settings for a particular Website (i.e., YouTube.com), and reduce the local stored content to 0, deleting any data the site has previously planted on your computer and preventing future storage.

If you want more control over Flash cookies in general, you'll need to open up the Adobe Settings Manager, accessible either by right-clicking Flash content and clicking "Global Settings," or by navigating directly to your storage settings through the [Flash Website](#). Here you can clear some or all of your Flash cookies manually through the Website Storage panel, or even turn off Flash Storage completely, though the latter may prevent some sites from working properly.

The main problem here—that sites can store and maintain data and tracking cookies through your Flash plug-in, regardless of your browser's privacy settings—is something Adobe is aware of and says will soon be addressed. The latest version of Flash (10.1) already supports the private browsing features of browsers like Firefox and Internet Explorer, which prevent data from being stored locally when activated. Additionally, Adobe says, the company is working with "major browser vendors to develop effective approaches that allow users to control local storage in Flash Player directly from their browser privacy settings"—a fix that could eliminate this problem entirely.

For now, though, the only browser that includes Flash storage settings in its native preferences panel is Google Chrome, and even there it's just a link to the aforementioned online Flash Settings panel. The only way to be sure of what sites are storing on your computer, then, is to check for yourself.

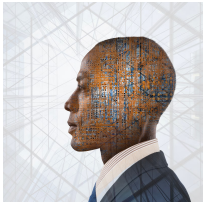
More from Popular Mechanics



Build it Yourself Better

Optimize your handy skills with expert-backed tips so you can build like a pro.

[READ MORE](#)



Know Things No One Else Knows

Understand the quantum theory of consciousness and other fascinating scientific discoveries.

[READ MORE](#)



Crack the Code on Survival

Would you want to live forever? Stay informed on the science (and business) of death, data, and immortality.

[READ MORE](#)

Unlock Popular Mechanic's premium experience: weekly exclusives, six digital issues, a print subscription, and instant digital access.

[LEARN MORE](#)

Daily

Stay in the know.

Get the latest stories sent right to your inbox.

Enter your email address.

[LET'S GO.](#)

By signing up, I agree to the [Terms of Use](#) (including the [dispute resolution procedures](#)) and have reviewed the [Privacy Notice](#).

Jon Freier | President, T-Mobile Consumer Group

Sponsored By **T-MOBILE**

[LEARN MORE](#)

