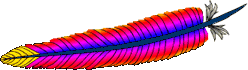
[Modules](http://httpd.apache.org/docs/2.2/mod/) | [Directives](http://httpd.apache.org/docs/2.2/mod/directives.html) | [FAQ](http://wiki.apache.org/httpd/FAQ) | [Glossary](http://httpd.apache.org/docs/2.2/glossary.html) | [Sitemap](http://httpd.apache.org/docs/2.2/sitemap.html)

**Apache HTTP Server Version 2.2**



[<-](http://httpd.apache.org/docs/2.2/misc/)

[Apache](http://www.apache.org/) > [HTTP Server](http://httpd.apache.org/) > [Documentation](http://httpd.apache.org/docs/) > [Version 2.2](http://httpd.apache.org/docs/2.2/) > [Miscellaneous Documentation](http://httpd.apache.org/docs/2.2/misc/)

**Security Tips**

Available Languages: [**en**](http://httpd.apache.org/docs/2.2/en/misc/security_tips.html) | [**ko**](http://httpd.apache.org/docs/2.2/ko/misc/security_tips.html) | [**tr**](http://httpd.apache.org/docs/2.2/tr/misc/security_tips.html)

Some hints and tips on security issues in setting up a web server. Some of the suggestions will be general, others specific to Apache.

* [Keep up to Date](http://httpd.apache.org/docs/2.2/misc/security_tips.html#uptodate)
* [Permissions on ServerRoot Directories](http://httpd.apache.org/docs/2.2/misc/security_tips.html#serverroot)
* [Server Side Includes](http://httpd.apache.org/docs/2.2/misc/security_tips.html#ssi)
* [CGI in General](http://httpd.apache.org/docs/2.2/misc/security_tips.html#cgi)
* [Non Script Aliased CGI](http://httpd.apache.org/docs/2.2/misc/security_tips.html#nsaliasedcgi)
* [Script Aliased CGI](http://httpd.apache.org/docs/2.2/misc/security_tips.html#saliasedcgi)
* [Other sources of dynamic content](http://httpd.apache.org/docs/2.2/misc/security_tips.html#dynamic)
* [Protecting System Settings](http://httpd.apache.org/docs/2.2/misc/security_tips.html#systemsettings)
* [Protect Server Files by Default](http://httpd.apache.org/docs/2.2/misc/security_tips.html#protectserverfiles)
* [Watching Your Logs](http://httpd.apache.org/docs/2.2/misc/security_tips.html#watchyourlogs)
* [Comments](http://httpd.apache.org/docs/2.2/misc/security_tips.html#comments_section)

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Keep up to Date**

The Apache HTTP Server has a good record for security and a developer community highly concerned about security issues. But it is inevitable that some problems -- small or large -- will be discovered in software after it is released. For this reason, it is crucial to keep aware of updates to the software. If you have obtained your version of the HTTP Server directly from Apache, we highly recommend you subscribe to the [Apache HTTP Server Announcements List](http://httpd.apache.org/lists.html#http-announce) where you can keep informed of new releases and security updates. Similar services are available from most third-party distributors of Apache software.

Of course, most times that a web server is compromised, it is not because of problems in the HTTP Server code. Rather, it comes from problems in add-on code, CGI scripts, or the underlying Operating System. You must therefore stay aware of problems and updates with all the software on your system.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Permissions on ServerRoot Directories**

In typical operation, Apache is started by the root user, and it switches to the user defined by the [User](http://httpd.apache.org/docs/2.2/mod/mpm_common.html#user) directive to serve hits. As is the case with any command that root executes, you must take care that it is protected from modification by non-root users. Not only must the files themselves be writeable only by root, but so must the directories, and parents of all directories. For example, if you choose to place ServerRoot in /usr/local/apache then it is suggested that you create that directory as root, with commands like these:

mkdir /usr/local/apache   
cd /usr/local/apache   
mkdir bin conf logs   
chown 0 . bin conf logs   
chgrp 0 . bin conf logs   
chmod 755 . bin conf logs

It is assumed that /, /usr, and /usr/local are only modifiable by root. When you install the [httpd](http://httpd.apache.org/docs/2.2/programs/httpd.html) executable, you should ensure that it is similarly protected:

cp httpd /usr/local/apache/bin   
chown 0 /usr/local/apache/bin/httpd   
chgrp 0 /usr/local/apache/bin/httpd   
chmod 511 /usr/local/apache/bin/httpd

You can create an htdocs subdirectory which is modifiable by other users -- since root never executes any files out of there, and shouldn't be creating files in there.

If you allow non-root users to modify any files that root either executes or writes on then you open your system to root compromises. For example, someone could replace the [httpd](http://httpd.apache.org/docs/2.2/programs/httpd.html) binary so that the next time you start it, it will execute some arbitrary code. If the logs directory is writeable (by a non-root user), someone could replace a log file with a symlink to some other system file, and then root might overwrite that file with arbitrary data. If the log files themselves are writeable (by a non-root user), then someone may be able to overwrite the log itself with bogus data.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Server Side Includes**

Server Side Includes (SSI) present a server administrator with several potential security risks.

The first risk is the increased load on the server. All SSI-enabled files have to be parsed by Apache, whether or not there are any SSI directives included within the files. While this load increase is minor, in a shared server environment it can become significant.

SSI files also pose the same risks that are associated with CGI scripts in general. Using the exec cmd element, SSI-enabled files can execute any CGI script or program under the permissions of the user and group Apache runs as, as configured in httpd.conf.

There are ways to enhance the security of SSI files while still taking advantage of the benefits they provide.

To isolate the damage a wayward SSI file can cause, a server administrator can enable [suexec](http://httpd.apache.org/docs/2.2/suexec.html) as described in the [CGI in General](http://httpd.apache.org/docs/2.2/misc/security_tips.html#cgi)section.

Enabling SSI for files with .html or .htm extensions can be dangerous. This is especially true in a shared, or high traffic, server environment. SSI-enabled files should have a separate extension, such as the conventional .shtml. This helps keep server load at a minimum and allows for easier management of risk.

Another solution is to disable the ability to run scripts and programs from SSI pages. To do this replace Includes with IncludesNOEXECin the [Options](http://httpd.apache.org/docs/2.2/mod/core.html#options) directive. Note that users may still use <--#include virtual="..." --> to execute CGI scripts if these scripts are in directories designated by a [ScriptAlias](http://httpd.apache.org/docs/2.2/mod/mod_alias.html" \l "scriptalias) directive.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**CGI in General**

First of all, you always have to remember that you must trust the writers of the CGI scripts/programs or your ability to spot potential security holes in CGI, whether they were deliberate or accidental. CGI scripts can run essentially arbitrary commands on your system with the permissions of the web server user and can therefore be extremely dangerous if they are not carefully checked.

All the CGI scripts will run as the same user, so they have potential to conflict (accidentally or deliberately) with other scripts e.g. User A hates User B, so he writes a script to trash User B's CGI database. One program which can be used to allow scripts to run as different users is [suEXEC](http://httpd.apache.org/docs/2.2/suexec.html) which is included with Apache as of 1.2 and is called from special hooks in the Apache server code. Another popular way of doing this is with [CGIWrap](http://cgiwrap.sourceforge.net/).

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Non Script Aliased CGI**

Allowing users to execute CGI scripts in any directory should only be considered if:

* You trust your users not to write scripts which will deliberately or accidentally expose your system to an attack.
* You consider security at your site to be so feeble in other areas, as to make one more potential hole irrelevant.
* You have no users, and nobody ever visits your server.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Script Aliased CGI**

Limiting CGI to special directories gives the admin control over what goes into those directories. This is inevitably more secure than non script aliased CGI, but only if users with write access to the directories are trusted or the admin is willing to test each new CGI script/program for potential security holes.

Most sites choose this option over the non script aliased CGI approach.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Other sources of dynamic content**

Embedded scripting options which run as part of the server itself, such as mod\_php, mod\_perl, mod\_tcl, and mod\_python, run under the identity of the server itself (see the [User](http://httpd.apache.org/docs/2.2/mod/mpm_common.html#user) directive), and therefore scripts executed by these engines potentially can access anything the server user can. Some scripting engines may provide restrictions, but it is better to be safe and assume not.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Protecting System Settings**

To run a really tight ship, you'll want to stop users from setting up .htaccess files which can override security features you've configured. Here's one way to do it.

In the server configuration file, put

<Directory />   
AllowOverride None   
</Directory>

This prevents the use of .htaccess files in all directories apart from those specifically enabled.

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Protect Server Files by Default**

One aspect of Apache which is occasionally misunderstood is the feature of default access. That is, unless you take steps to change it, if the server can find its way to a file through normal URL mapping rules, it can serve it to clients.

For instance, consider the following example:

# cd /; ln -s / public\_html   
Accessing http://localhost/~root/

This would allow clients to walk through the entire filesystem. To work around this, add the following block to your server's configuration:

<Directory />   
Order Deny,Allow   
Deny from all   
</Directory>

This will forbid default access to filesystem locations. Add appropriate [Directory](http://httpd.apache.org/docs/2.2/mod/core.html#directory) blocks to allow access only in those areas you wish. For example,

<Directory /usr/users/\*/public\_html>   
Order Deny,Allow   
Allow from all   
</Directory>   
<Directory /usr/local/httpd>   
Order Deny,Allow   
Allow from all   
</Directory>

Pay particular attention to the interactions of [Location](http://httpd.apache.org/docs/2.2/mod/core.html#location) and [Directory](http://httpd.apache.org/docs/2.2/mod/core.html#directory) directives; for instance, even if <Directory /> denies access, a <Location /> directive might overturn it.

Also be wary of playing games with the [UserDir](http://httpd.apache.org/docs/2.2/mod/mod_userdir.html" \l "userdir) directive; setting it to something like ./ would have the same effect, for root, as the first example above. If you are using Apache 1.3 or above, we strongly recommend that you include the following line in your server configuration files:

UserDir disabled root

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Watching Your Logs**

To keep up-to-date with what is actually going on against your server you have to check the [Log Files](http://httpd.apache.org/docs/2.2/logs.html). Even though the log files only reports what has already happened, they will give you some understanding of what attacks is thrown against the server and allow you to check if the necessary level of security is present.

A couple of examples:

grep -c "/jsp/source.jsp?/jsp/ /jsp/source.jsp??" access\_log   
grep "client denied" error\_log | tail -n 10

The first example will list the number of attacks trying to exploit the [Apache Tomcat Source.JSP Malformed Request Information Disclosure Vulnerability](http://online.securityfocus.com/bid/4876/info/), the second example will list the ten last denied clients, for example:

[Thu Jul 11 17:18:39 2002] [error] [client foo.example.com] client denied by server configuration: /usr/local/apache/htdocs/.htpasswd

As you can see, the log files only report what already has happened, so if the client had been able to access the .htpasswd file you would have seen something similar to:

foo.example.com - - [12/Jul/2002:01:59:13 +0200] "GET /.htpasswd HTTP/1.1"

in your [Access Log](http://httpd.apache.org/docs/2.2/logs.html#accesslog). This means you probably commented out the following in your server configuration file:

<Files ~ "^\.ht">   
Order allow,deny   
Deny from all   
</Files>

Available Languages: [**en**](http://httpd.apache.org/docs/2.2/en/misc/security_tips.html) | [**ko**](http://httpd.apache.org/docs/2.2/ko/misc/security_tips.html) | [**tr**](http://httpd.apache.org/docs/2.2/tr/misc/security_tips.html)

[top](http://httpd.apache.org/docs/2.2/misc/security_tips.html#page-header)

**Comments**

**Notice:**  
This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our [mailing lists](http://httpd.apache.org/lists.html).

**[[https://comments.apache.org/images/rss.png](https://comments.apache.org/rss.lua?site=httpd&page=http://httpd.apache.org/docs/2.2/misc/security_tips.html)RSS](https://comments.apache.org/rss.lua?site=httpd&page=http://httpd.apache.org/docs/2.2/misc/security_tips.html)**[**Log in / register**](https://comments.apache.org/portal.lua?site=httpd)

**Sam** *138 days ago* Rating: 0 (register an account in order to rate comments)

[https://comments.apache.org/images/reply.png](javascript:void(0);)

How exactly this: # cd /; ln -s / public\_html Accessing <http://localhost/~root/> Leads to full read access of a system is not obvious. Context needs to be provided here. For example if one had installed and missed configured mod\_userdir this would make sense. But this is stated without that context. So I'm wondering ... am I missing something, or is this just ambiguous documentation?

**Tom** *311 days ago* Rating: 0 (register an account in order to rate comments)

[https://comments.apache.org/images/reply.png](javascript:void(0);)

I have Apache 2 through GoDaddy. They made me pick a 14 character password for logging in to Apache as root. This seems short. I can log in to my user account with a keyfile, but to log in as root I still need to type that password in every time. That makes me nervous. There should be something in the documentation about making your password longer or making it so you can log in as root with a keyfile or making it so you can manage your user account(s) to make it/them more secure.

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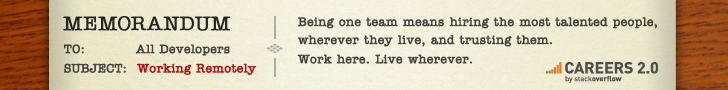
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| up vote5down vote[favorite](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site)  **5** | I have restricted the right click option in my web page, but in IE it shows icons to Save Image, Print, Mail etc . I want to remove all of these. Is this possible?  [html](http://stackoverflow.com/questions/tagged/html) [image](http://stackoverflow.com/questions/tagged/image) [[http://i.stack.imgur.com/BfCOt.png](http://stackoverflow.com/questions/tagged/internet-explorer)internet-explorer](http://stackoverflow.com/questions/tagged/internet-explorer)   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/q/2018802)|[improve this question](http://stackoverflow.com/posts/2018802/edit) | [edited Jun 3 '11 at 12:34](http://stackoverflow.com/posts/2018802/revisions)  [[https://www.gravatar.com/avatar/fc763c6ff6c160ddad05741e87e517b6?s=32&d=identicon&r=PG](http://stackoverflow.com/users/1288/bill-the-lizard)](http://stackoverflow.com/users/1288/bill-the-lizard)  [Bill the Lizard](http://stackoverflow.com/users/1288/bill-the-lizard)**♦** **151k**106374652 | asked Jan 7 '10 at 7:11  [[https://www.gravatar.com/avatar/47a079f8c597d3b4eda5f2de055792e4?s=32&d=identicon&r=PG](http://stackoverflow.com/users/148449/testadmin)](http://stackoverflow.com/users/148449/testadmin)  [Testadmin](http://stackoverflow.com/users/148449/testadmin) **624**32554 | |
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## 9 Answers

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|  |  |  |  |
| --- | --- | --- | --- |
| up vote15down voteaccepted | It seems like everyone else who answered here didn’t read the question.  I have restricted right clicking option in my web page , But IN IE it shows Icons to Save Image, print , mail etc . I want to remove all of these . IS it possible ??  **Yes, it is possible to remove these icons.** Just put the following in the <head> of your document.  <meta http-equiv="imagetoolbar" content="no" />  As mentioned in the other answers, users will still be able to get the images if they really want to, no matter how hard you try to prevent it. If you don’t want the images to be copied, you shouldn’t use them on a website.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/2018861)|[improve this answer](http://stackoverflow.com/posts/2018861/edit) | answered Jan 7 '10 at 7:27  [[https://www.gravatar.com/avatar/24e08a9ea84deb17ae121074d0f17125?s=32&d=identicon&r=PG](http://stackoverflow.com/users/96656/mathias-bynens)](http://stackoverflow.com/users/96656/mathias-bynens)  [Mathias Bynens](http://stackoverflow.com/users/96656/mathias-bynens) **42.2k**28112157 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | I think you hit the hammer on the nail! Shame on me for not reading the quetion carefully. :P –  [o.k.w](http://stackoverflow.com/users/139396/o-k-w" \o "15741 reputation) [Jan 7 '10 at 7:30](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment1940638_2018861) | | |  |  | | --- | --- | |  |  | | BTW:, it seems that this feature was only present in IE6. –  [lapo](http://stackoverflow.com/users/166524/lapo" \o "1521 reputation) [Sep 5 '13 at 12:22](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment27436560_2018861) |   add a comment |

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|  |  |  |  |
| --- | --- | --- | --- |
| up vote5down vote | It sounds like you're talking about the [Image Toolbar](http://www.microsoft.com/windows/ie/ie6/using/howto/customizing/phototoolbar.mspx) in Internet Explorer. You can disable it with this code:  <html>  <head>  <meta http-equiv="imagetoolbar" content="no" />  </head>  </html>  Or, directly applied to an image:  <img src="test.gif" galleryimg="no" />   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/2018862)|[improve this answer](http://stackoverflow.com/posts/2018862/edit) | answered Jan 7 '10 at 7:27  [[http://graph.facebook.com/1125605205/picture?type=large](http://stackoverflow.com/users/212700/leepowers)](http://stackoverflow.com/users/212700/leepowers)  [leepowers](http://stackoverflow.com/users/212700/leepowers) **16.5k**1254100 | |
|  | add a comment |
| up vote4down vote | No it's not possible. The user can see the image in the browser and thus the browser (and the user) has a copy. You can try and restrict that with nasty (and ill-advised) right-click JS hacks and the like but ultimately if you send something to someone to see or read, what they do with it is beyond your control when you don't control the device they're using.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/2018809)|[improve this answer](http://stackoverflow.com/posts/2018809/edit) | answered Jan 7 '10 at 7:13  [[https://www.gravatar.com/avatar/2f364c2e36b52bc80296cbf23da8b231?s=32&d=identicon&r=PG](http://stackoverflow.com/users/18393/cletus)](http://stackoverflow.com/users/18393/cletus)  [cletus](http://stackoverflow.com/users/18393/cletus) **280k**82633804 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | While true, this is not an answer to the question. Maybe an answer to the topic’s title, yes, but not to the actual question everything boils down to: “IN IE it shows Icons to Save Image, print , mail etc . I want to remove all of these . IS it possible ??” –  [Mathias Bynens](http://stackoverflow.com/users/96656/mathias-bynens) [Jan 7 '10 at 7:29](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment1940634_2018809) |   add a comment |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| up vote2down vote | You can only do so much to prevent some users. To be near 100% foolproof, it's probably impossible. Even if you packaged the images in say, flash, java applet, it doesn't stop users from doing screencapture too.  There are few passive alternatives, e.g. using watermarks, putting up discalimers/warnings.  Here are some related SO posts: [How to disable right-click save on one specific image only](http://stackoverflow.com/questions/1678579/) [Disable “Save Target As” option in the right click menu](http://stackoverflow.com/questions/1385390/) [Prevent Save As Functionality](http://stackoverflow.com/questions/300487/prevent-save-as-functionality)   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/2018823)|[improve this answer](http://stackoverflow.com/posts/2018823/edit) | [edited Jan 7 '10 at 7:22](http://stackoverflow.com/posts/2018823/revisions) | answered Jan 7 '10 at 7:15  [[https://www.gravatar.com/avatar/2e4c3759861337e9a0ead4ffc5387229?s=32&d=identicon&r=PG](http://stackoverflow.com/users/139396/o-k-w)](http://stackoverflow.com/users/139396/o-k-w)  [o.k.w](http://stackoverflow.com/users/139396/o-k-w) **15.7k**23149 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | Upvoted for the suggestion of watermark –  [paan](http://stackoverflow.com/users/2976/paan" \o "3115 reputation) [Jan 7 '10 at 7:30](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment1940640_2018823) |   add a comment |
| up vote1down vote | if you are using Apache server, you can disable accessing the image through absolute url the images can be access only with relative url with this htaccess code :  RewriteEngine on  RewriteCond %{HTTP\_REFERER} !^http(s)?://(www\.)?yourdomain.com [NC]  RewriteRule \.(jpg|jpeg|png|gif)$ - [NC,F,L]  in addition, disable the right click context using JavaScript, and add a watermark to protect the copy rights  this will reduce the chance of saving the images   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/14670508)|[improve this answer](http://stackoverflow.com/posts/14670508/edit) | answered Feb 3 '13 at 7:55  [[http://i.stack.imgur.com/9XJTO.png?s=32&g=1](http://stackoverflow.com/users/1010604/ayman-jitan)](http://stackoverflow.com/users/1010604/ayman-jitan)  [Ayman Jitan](http://stackoverflow.com/users/1010604/ayman-jitan) **734**2823 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | But now not all my images load an i get forbidden apache. has access to all folders and files –  [bonez](http://stackoverflow.com/users/1164789/bonez" \o "374 reputation) [Jul 10 '13 at 11:19](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment25561121_14670508) |   add a comment |

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| up vote0down vote | If the browser can get it, then the user can somehow get it.  You could investigate using an HTML5 canvas or even (gasp) pixelized tables to render client-side.   |  |  | | --- | --- | | [share](http://stackoverflow.com/a/2018811)|[improve this answer](http://stackoverflow.com/posts/2018811/edit) | answered Jan 7 '10 at 7:13  [[https://www.gravatar.com/avatar/bc93276762666dedf2fc976deb1d46a6?s=32&d=identicon&r=PG](http://stackoverflow.com/users/199305/xepoch)](http://stackoverflow.com/users/199305/xepoch)  [Xepoch](http://stackoverflow.com/users/199305/xepoch) **4,043**32645 | |
|  | |  |  |  |  | | --- | --- | --- | --- | | |  |  | | --- | --- | |  |  | | Screenshot! There's simply no way around it :) –  [Jonathan Sampson](http://stackoverflow.com/users/54680/jonathan-sampson) [Jan 7 '10 at 15:58](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment1943650_2018811) | | |  |  | | --- | --- | |  |  | | Yep, absolutely correct, if the data no matter how disseminated is pushed one can always pull it back. – [Xepoch](http://stackoverflow.com/users/199305/xepoch" \o "4043 reputation) [Jan 7 '10 at 22:33](http://stackoverflow.com/questions/2018802/is-it-possible-to-prevent-saving-images-from-my-site#comment1946815_2018811) |   add a comment |
| up vote0down vote | .show\_IMAGE  {  background-position : 0 -100px;  background-image : url('/images/flower.png');  background-repeat : no-repeat;width:50px;height:50px;  }  and add this class to DIV  < div class="show\_IMAGE"></ div>  you cannot copy the image alone. if you get image from CSS.   |  |  |  | | --- | --- | --- | | [share](http://stackoverflow.com/a/9311038)|[improve this answer](http://stackoverflow.com/posts/9311038/edit) | [edited Feb 16 '12 at 14:12](http://stackoverflow.com/posts/9311038/revisions)  [[http://i.stack.imgur.com/3tD67.jpg?s=32&g=1](http://stackoverflow.com/users/426671/bluefeet)](http://stackoverflow.com/users/426671/bluefeet)  [bluefeet](http://stackoverflow.com/users/426671/bluefeet)**♦** **107k**23108168 | answered Feb 16 '12 at 12:10  [[https://www.gravatar.com/avatar/1a5c185e90b76309d30f926e30ac7b92?s=32&d=identicon&r=PG](http://stackoverflow.com/users/1213774/saravanan)](http://stackoverflow.com/users/1213774/saravanan)  [saravanan](http://stackoverflow.com/users/1213774/saravanan) **1** | |
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