

Video Hacks

And Other Cool Things on the Internet

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Contents

Introduction	4
HomeSeer – Internet Controlled Devices	4
Find Office Web Cams With Google	4
Extract Information from an IP Address	5
Collecting Information from Web Cam Images.....	6
Poking Around a Forbidden Camera	7
Basic Web Page HTML	9
Basic Web Page HTML	9
Stream Music – SHOUTCast	9
Live Streams (.asx files).....	10
AVI Files (movies, videos, music).....	10
Finding ZIP Files.....	11
Find Images	11
Get Your IP Address.....	12
Find Country Given an IP Address.....	12
Find Location On Map Using IP Address.....	13
Live Video Cam Streams	14
Web Cam Links.....	14
TV Episodes and Movies – Unlimited Resources.....	14
Surfing Anonymously (Hiding your real IP address).....	14
Controllable Web Cams	15
HTML Behind the Controllable Cam.....	16
Live TV.....	17
Camstreams	17
Chatting	19
Locate MP3 Music Files	19
Pinging IP Addresses.....	19
Traceroute	20
IP Scanning.....	21
base64_decode	23
Proxy Servers.....	24

Archiving the Internet..... 24

Hacking Tudou Movie and Video Site in China 25

Improved Tudou Hack Using Multiple Links 28

Musicradio.com UK Audio Streaming (Radio Stations) Hack..... 28

Vodpod 29

Hulu 29

Youtube 30

Tesla Like Television 30

Introduction

In August 2008, I discovered a new method to refine Google searches. This topic, listed often as "Google Hacks", introduced me to video web cams located around the world. I've learned so much that I thought I would post what I have learned to share with others. The world, technology, and people make for an interesting hobby.

By nature I love to solve problems and connect various data points into a meaningful picture. The internet is a great laboratory for playing. I like to 'hack' about for two reasons:

- 1) I like to start with a web cam and end up with a post-it pin on Google Earth indicating the precise position of the camera. If an opportunity presents itself to call an unsuspecting person, I just might give them a call and say hello. =)
- 2) I own a couple of websites. I like to apply techniques that I learn about to see what I can glean or penetrate from my own sites. As I discover vulnerabilities, however slight, I make necessary changes.

I'm not interested in conducting illegal activities. The purpose of this document is to enable people to explore the internet and all that it has to offer. Ethical behavior on the internet does have some gray areas. For example, if you find a list of passwords, do you use them to access a site? I draw the line and simply notify the webmaster that he or she has exposed their site to unnecessary vulnerabilities.

Warning! These techniques may lead you to sites with adult themes. Parents should always supervise their children when they are on the internet.

HomeSeer – Internet Controlled Devices

This is truly fascinating. Many people allow users to access their homes via the internet. Visitors may control items such as lights. My first site to discover is located at <http://home.comcast.net/~pdconner/enter.htm>. The Office link allows the visitor to control a number of devices. The homeowner uses a system called HomeSeer. You may learn more about HomeSeer from this message board <http://board.homeseer.com/>. The owner exposed a page for visitors at <http://98.227.1.191:9997/remote.htm>.

Find Office Web Cams With Google

It does seem that many employers find it necessary to mount cameras in office spaces. This allows monitoring of employee behavior when the boss is not around.

In the UK: <http://84.93.217.139/axis-cgi/mjpg/video.cgi?1190022301230&resolution=640x480>

Try experimenting with the camera resolution. 640x480 is typically the largest with 320x240 being the most common resolution.

Argentina: <http://200.61.48.74/axis-cgi/mjpg/video.cgi?camera=1&resolution=640x480>

Try this experience with Google. Add this search string. The 'inurl:' is a Google keyword with directs a query to examine only web site URL(s).

`inurl:/axis-cgi/mjpg/video.cgi?`

The image below illustrates the results returned from the search. Click around and on the Google results returned by your search.

212.61.77.251/axis-cgi/mjpg/video.cgi?resolution=6...

[Similar pages](#)

195.243.185.195/axis-cgi/mjpg/video.cgi?resolution...

[Similar pages](#)

142.22.58.150/axis-cgi/mjpg/video.cgi?camera=&show...

[Similar pages](#)

155.31.20.200/axis-cgi/mjpg/video.cgi?resolution=3...

[Similar pages](#)

165.91.110.101:2010/axis-cgi/mjpg/video.cgi?showle...

[Similar pages](#)

Sample Google Search Results

Extract Information from an IP Address

One search displays an Aquarium with Whales at the following URL.

<http://142.22.58.150/axis-cgi/mjpg/video.cgi?camera=&showlength=1&resolution=704x480>



Whales in Aquarium

Where is this web cam located? Here’s a technique that is useful. There are many sites that allow an IP address to be investigated more thoroughly. I used this site. <http://tools.whois.net/whoisbyip/>

From the URL posted above, I typed in 142.22.58.150 at whois.net and clicked Search. A lot of information is displayed. I’ve posted the following information.

```
OrgName:    British Columbia Systems Corporation
OrgID:      BCSC
Address:    4000 Seymour Place
City:       Victoria
StateProv:  BC
PostalCode: V8X-4S8
Country:    CA
```

This IP address is associated with Victoria(city), British Columbia (BC), Canada (CA). This does not mean the web cam is located in Victory. Using Google, I type in the keywords “aquarium whale Victoria Canada” and several links show up on the first page of results. It doesn’t take long to find this link to the actual aquarium. <http://www.vanaqua.org/home/> Apparently several Beluga whales occupy the largest aquarium in Canada.

Collecting Information from Web Cam Images

In many web cam images, a location, date, and time may be displayed. Stuttgart is located in Germany. Following is a web cam located at the Stuttgart airport. It is 10:32 pm in my time zone. It is 4:32 in Stuttgart. They are six hours ahead of my location. A locations such as Japan is 13 hours ahead of my time. In addition, it is tomorrow in Japan.



Stuttgart Airport

Poking Around a Forbidden Camera

One particular Google result <http://66.91.147.106:8010/axis-cgi/mjpg/video.cgi?resolution=960x720> resulted in the following error message.

403 Forbidden

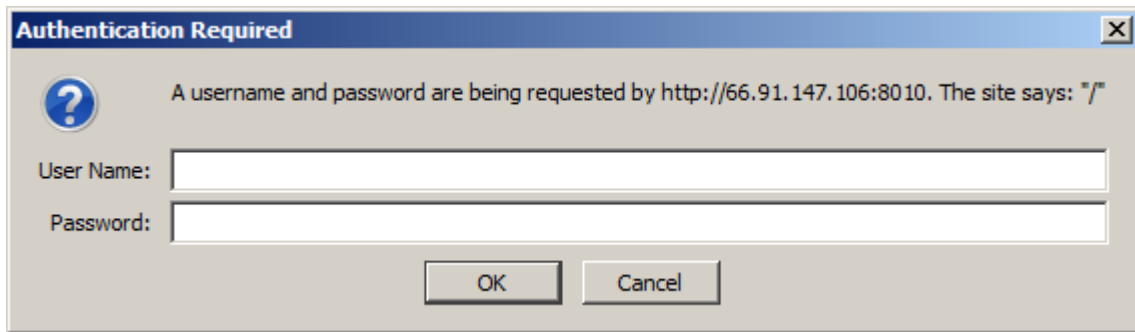
Your client does not have permission to get Images/Streams from this server.

Obviously the owner doesn't want us to access the link from this location. So, delete everything in the URL beginning with 'axis-cgi'. This yields a modified URL of <http://66.91.147.106:8010/>.

Interestingly, this URL appears. <http://66.91.147.106:8010/view/index.shtml>. Now this link is also off limits. However, some new information is displayed. See below.



Although this web cam is not viewable, it does display the camera type. It is an “Axis 211 Network Camera” manufactured by Axis Communications. More information is available by clicking on Help. Help provides a URL giving some more information on folder layout of the camera site. It also has a Setup link to allow the owner to setup the camera from the internet. Clicking on this link results in the following popup.



Unless you have a legal username and password it may be unethical to try guessing.

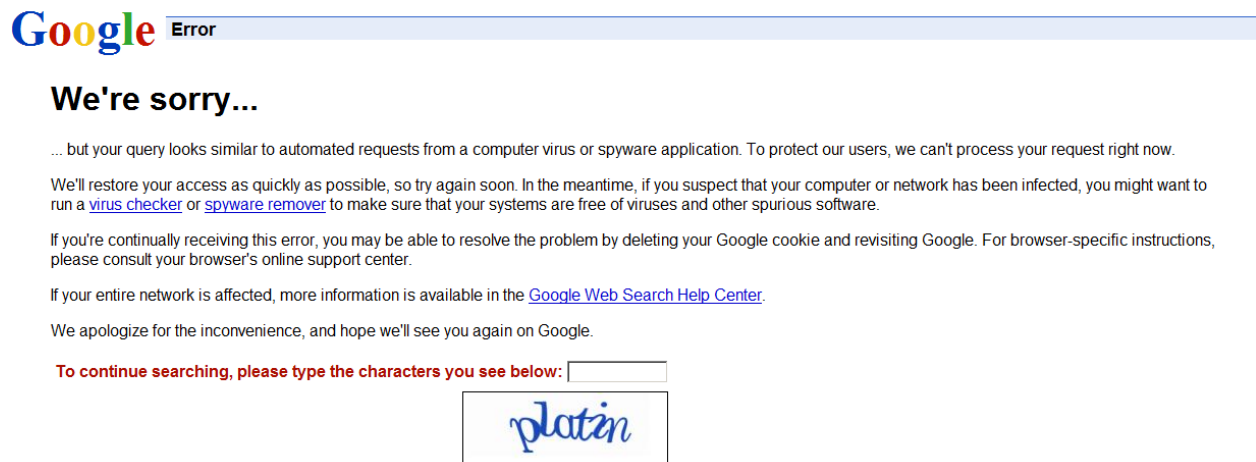
However, the most important clue is the name of the camera. Go to Google and try this search. Place quotes around the camera name.

intext:"AXIS 211 Network Camera"

This search produced over 23,000 returns. However, a quick look indicates that many of the links are sales related. Not a problem. We can narrow the search by including another clue '/view/' found above. Try this search.

intext:"AXIS 211 Network Camera" inurl:"/view/"

Oops! This may be the first time you see this message from Google. It freaked me out a bit the first few times. However, I got over my fear and persevered. Google monitors search queries and keeps an eye out from any search that looks automated. I typed the characters and continued on.



Basic Web Page HTML

A lot of our hacking will involve looking at the source code of web pages. This is where it gets very interesting. Following is a simple web page. You can use Notepad to type the program. I saved this one as "Testpage.htm".

```
<html>
<head><title>Test Page</test></head>
<body>

</body></html>
```

The short HTML page above will do nothing except display the title in the browser. To display you open the file from the browser.

Earlier in the document we noted a URL for a web cam in a phone center located in Argentina. Add the additional line below, save, and open in the browser.

```
<html>
<head><title>Test Page</test></head>
<body>

</body></html>
```

As you can see, the tag 'img src' means image source. This is all that is necessary to display the live video feed from the office web cam.

Modify the resolution to read '=320x240', save the file, and refresh the browser. The video feed will be smaller. You may experiment with resolution sizes. Generally, 640x480 is the largest size.

Stream Music – SHOUTCast

Try this Google search.

```
intitle:"shoutcast administrator"
```

Over 22,000 results are returned. Most of the links include an IP address or domain name followed by a port number. Here are a few examples. The port number follows the colon.

```
205.188.215.225:8022/
shoutcast.omroep.nl:8070/
195.222.33.217:8070/
```

The screenshot shows the SHOUTcast D.N.A.S. Status page. At the top, there are four navigation links: Status, Song History, Listen, and Stream URL. Below these is a section titled "Current Stream Information" with the following details:

- Server Status: Server is currently up and public.
- Stream Status: Stream is up at 128 kbps with 119 of 300 listeners (118 unique)
- Listener Peak: 301
- Average Listen Time: 4h 55m 29s
- Stream Title: ChroniX Metal - Loud & Clear - www.chronixradio.com
- Content Type: audio/mpeg
- Stream Genre: METAL
- Stream URL: <http://www.chronixradio.com/cxmetal>
- Stream AIM: N/A
- Stream IRC: N/A
- Current Song: Chimaira - Resurrection

At the bottom of the page, it says: "Written by Stephen Tag Loomis, Tom Pepper and Justin Frankel" and "Copyright Nullsoft Inc. 1998-2006".

Click on the Listen link. Real Player is launched on my machine and music begins to play.

I don't like that kind of music!!! No problem. Notice the "Stream Genre" above lists METAL. Refine the search to include your preference.

intitle:"shoutcast administrator" intext:"classic rock"

This reduces the number of results to 90.

Live Streams (.asx files)

Try this Google search. `inurl:.asx filetype:asx` This search looks for a file extension of (.asx) and a filetype of (.asx). This produces three live radio feeds.

<http://player.virginradio.co.uk/core/audio/wmp/live.asx?service=vrb>
http://www.9412.com/9412.asx?p=&_submit=Continue+%3E%3E
http://www.kcfr.org/cgi-bin/comatters/comatters_play.asx?play=3284&

AVI Files (movies, videos, music)

This Google search is a bit complex looking.

-inurl:(htm|html|php) intitle:"index of" +"last modified" +"parent directory" +(avi)

Let's examine this query.

-inurl:(htm|html|php) Do not look at URL(s) with file extensions of HTM, HTML, or PHP

intitle:"index of" Look at the title for “index of”

+"last modified" Must have the expression “last modified” as indicated by +

Following is a screenshot of one of the pages found on Google.

Index of /videos/avi

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-	
24-wankan.avi	30-Apr-2008 15:16	36M	
1-heian shodan.avi	30-Apr-2008 15:13	37M	
18-tekki sandan.avi	30-Apr-2008 15:15	37M	
2-heian nidan.avi	30-Apr-2008 15:15	39M	
3-heian sandan.avi	30-Apr-2008 15:17	42M	
13-tekki nidan.avi	30-Apr-2008 15:14	42M	
6-tekki shodan.avi	30-Apr-2008 15:17	42M	
5-heian godan.avi	30-Apr-2008 15:17	43M	

A more generalized method of search for videos is to use this query.

“Index of /videos/”

Finding ZIP Files

In the following search, I want to find a zipped file related to the game ‘Tetris’. Enter this string.

-inurl:(htm|html|php) intitle:"index of" +"last modified" +"parent directory" +description +size +(.zip) "tetris"






Find Images

Try this Google search.

"Index of /images/"

One link produced this screenshot.

Index of /images/back

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory	12-Aug-2008 18:42	-	
 0918-1.jpg	18-Sep-2007 16:23	9k	
 0918-2.jpg	18-Sep-2007 16:23	10k	
 0918-3.jpg	18-Sep-2007 16:23	8k	
 0918-4.jpg	18-Sep-2007 16:23	11k	
 0918-5.jpg	18-Sep-2007 16:23	9k	
 0918-6.jpg	18-Sep-2007 16:23	10k	
 0918-7.jpg	18-Sep-2007 16:23	11k	

Get Your IP Address

Go to this web site. <http://tools.whois.net/yourip/> A page similar to the following is displayed.




The screenshot shows the Whois.Net logo with the tagline "DOMAIN-BASED RESEARCH SERVICES". Below the logo is a grey bar with the text "Tool: Your IP Address". Underneath, it states "The computer you are using to browse the web has either a fixed or dynamically assigned IP Address. [Click here](#) to find out more information about IP Addresses." The IP address "129.250.211.13" is displayed in a large, bold font. At the bottom, there is a link: "[Whois on 129.250.211.13](#)".


My IP address is 129.250.211.13.

Find Country Given an IP Address

Go to this site. <http://www.ip2location.com/demo.aspx> Enter an IP address into the text box and click “Find Location”. Here are a couple of example screenshots.

IP Address	Country	Region	City	Latitude/ Longitude	ZIP Code	Time Zone	
216.239.41.98	 UNITED STATES	CALIFORNIA	MOUNTAIN VIEW	37.3956 -122.076	94043	-08:00	Map It
	Net Speed		ISP		Domain		
	-		GOOGLE INC		google.com		
	IDD Code	Area Code	Weather Station				
1	650	USCA0746 - MOUNTAIN VIEW					

Google in California

IP Address	Country	Region	City	Latitude/ Longitude	ZIP Code	Time Zone	
60.56.188.118	 JAPAN	TOKYO	TOKYO	35.7 139.767	-	+09:00	Map It
	Net Speed		ISP		Domain		
	-		K-OPTICOM CORPORATION		EONET.NE.JP		
	IDD Code	Area Code	Weather Station				
81	-	-					

K-Opticom in Japan

Here is a CSV (comma-separated values) file that may be imported into Excel.

<http://www.maxmind.com/download/geoip/database/GeoIPCountryCSV.zip>

The sample data below is displayed in a row within the CSV file. The first two IP addresses represent a range of IP addresses. The Country Code (CA) and Country (Canada) are also provided.

4.18.100.32 4.18.100.39 68314144 68314151 CA Canada

Find Location On Map Using IP Address

Try this link. <http://www.ipligence.com/geolocation/> This will use the IP address to identify a location on a map.

The following directory stores zip files contain CSV files. These files cross-reference city, state, latitude, longitude, area code, and zip code.

http://www.maxmind.com/download/geoip/database/GeoLiteCity_CSV/

Live Video Cam Streams

Try this site. <http://www.camstreams.com> Live video feeds are categorized by people, scenery, animals/pets, and commercial. Many of the streams have audio, linked web sites, and chats.

I'm absolutely amazed how willing people are to put a camera into their house.

Web Cam Links

There are two sites that could occupy all of your free time surfing. You can search by countries.

<http://www.globocam.de/service/intern/webcams/>

<http://www.opentopia.com/>

TV Episodes and Movies – Unlimited Resources

If you love TV and movies you will like these sites. Most web sites listed below link to servers storing the actual media. Many of these servers are located in China. NOTE: Many of these sites have popups with ads for adult sites. If you can ignore them you'll enjoy the shows and movies.

www.surfthechannel.com

www.fancast.com

www.fastpasstv.com

www.hulu.com

www.usanetwork.com

www.nbc.com

<http://tesla.liketelevision.com>

www.listentoamovie.com (audio only...this is cool)

www.imdb.com (internet movie data base)

<http://www.mogulus.com/> Many movies available within these channels.

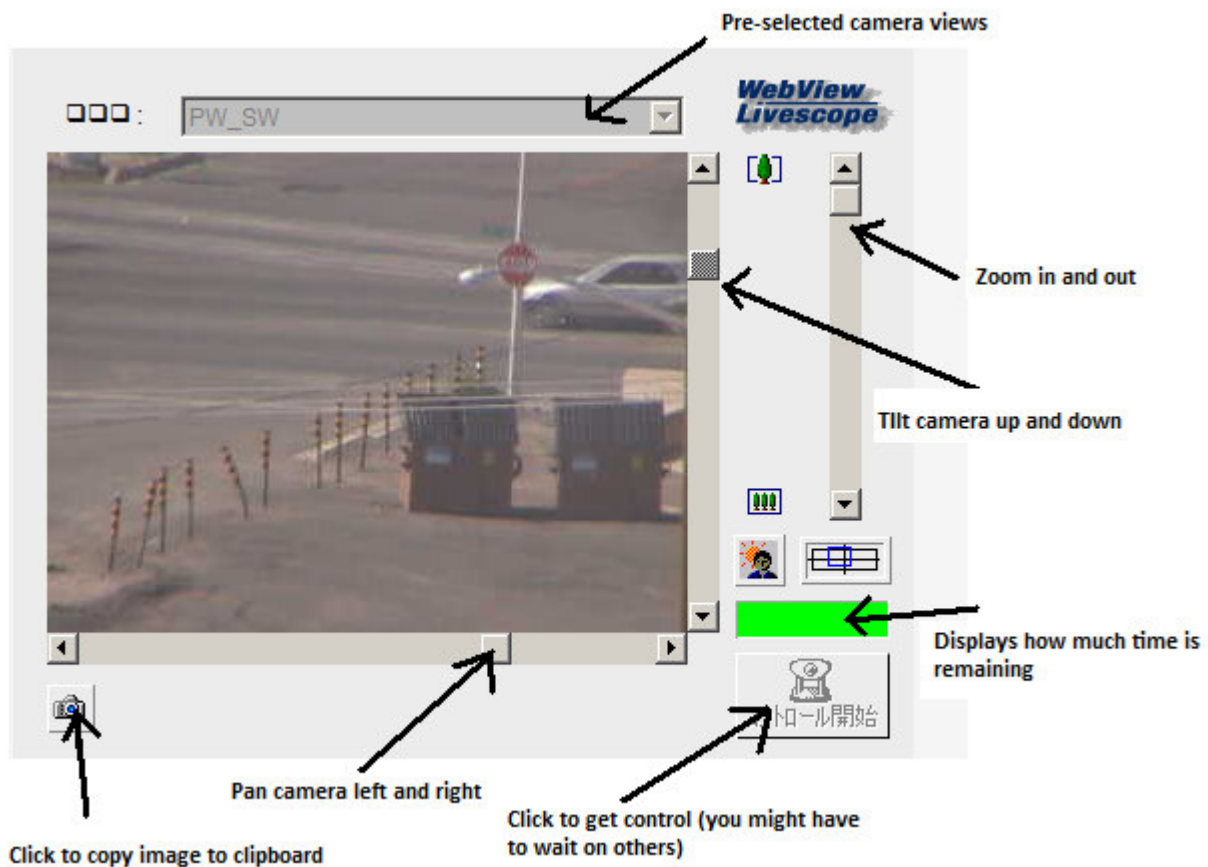
Surfing Anonymously (Hiding your real IP address)

Check your IP address by going to <http://tools.whois.net/yourip/>. I've done that and my IP address is 129.250.211.13.

Now go to <http://anonymouse.org/anonwww.html>. Type in <http://tools.whois.net/yourip/> and click "Surf Anonymously". My IP address is now 85.195.119.14.

Controllable Web Cams

These cameras are cool! There are hundreds of cameras on the internet that allow the user to control the pan (horizontal) and tilt (vertical) positioning. Many cameras allow zooming. Although some cams might not give the user this much control, they do provide dropdown boxes so the user may select predefined web shots. The following image illustrates camera controls.



Controllable Camera

NOTE: Clicking on a control may take a second or two for the camera to respond. There are a handful of camera types on the internet. Try this Google search.

Liveapplet

This query produced several thousand results. Here is a variation of the search.

inurl:/LvApp/lvappl.htm

<http://webcams.gajda.cz/> contains several links to the “WebView Livescope” cameras.

Check out these links. Make sure to select **Using Viewer for Java**.

Love motorcycles? <http://216.105.151.206:8080/top/liveapplet.html>

Love skateboarding? <http://69.229.56.161/top/liveapplet.html>

Love New Zealand? <http://202.49.165.67/top/liveapplet.html>

Love Arizona? <http://65.103.206.22/top/liveapplet.html>

HTML Behind the Controllable Cam

Browsers allow users to open up the source code for web sites. This is usually under the View menu. Often these pages of HTML are difficult to read. I've extracted the relevant code from the source on this page. <http://webcam02.surfcity-hb.org/top/liveapplet.html>

```
<html>
<head><title>Test Page</test></head>
<body>

<APPLET ARCHIVE="LiveApplet.zip"
  CODEBASE="http://webcam02.surfcity-hb.org:80/-wvdoc-01-/LiveApplet/"
  CODE="LiveApplet.class" WIDTH="450" HEIGHT="380">
  <PARAM NAME="url"          VALUE="http://webcam02.surfcity-hb.org:80/">
  <PARAM NAME="cabbage"      VALUE="LiveApplet.cab">
  <PARAM NAME="capture_size" VALUE="320x240">
  <PARAM NAME="video_width"  VALUE="320">
  <PARAM NAME="bg_color"     VALUE="#ecec">
</APPLET>

</body></html>
```

The first thing to note is that the code is placed between the keyword APPLET. This is an HTML tag that tells the browser a Java program is somewhere in between. WIDTH and HEIGHT define the size of the controls area around the camera view. The PARAM NAME = "video_width" defines the width of the camera image. Copy the above HTML code into Notepad and save as testpage.htm. Open the file with the browser and ensure the camera is displayed.

Modify the following values.

WIDTH - Replace "450" with "770"

HEIGHT - Replace "380" with 600"

"video_width" - Replace "320" with "640"

Save the file and refresh the browser. The camera should be twice as large

Live TV

This site has links to over 3300 live TV streams from all over the world. No need to go anywhere else.

<http://www.tvchannelsfree.com/>

Camstreams

This interesting web site may be accessed at <http://www.camstreams.com/>. Anyone wanting to connect their web cam to a live video stream with sound may do so at this site. The sites are organized into People, Scenery, Commercial, and Pet/Animal. Each camstream provides a live video stream from a web cam. The index keeps up with web cams that are online or offline. Many of the pages include chats.

People who own the web cams know when someone enters and is watching because the chat room automatically announces the arrival of the visitor. They receive audio cues and are free to engage you in chat are be content knowing you are watching.

Is it possible to watch someone's web cam without them know via chat? Yes. Here's how. It's possible to construct a simple web page and copy their video camera code. You can save this onto your computer and open up when you want to watch. You may be interested in adding multiple cameras to one page.

<http://incognito.camstreams.com/> is interesting because it is the home of a US truck driver. He has two cams. One is looking down the highway and the other places him in the top-right corner of the viewing screen. It's cool to log in to see where he is going. I've place different pieces of code below. The first one is all that is required to view the web cam in your browser.

```
<HTML>
```

```
<HEAD><TITLE>Video Only</TITLE><BASE HREF="http://www.camstreams.com/"><LINK
REL="stylesheet" type="text/css" href="style.css"></HEAD>
```

```
<BODY BGCOLOR=#DFD0F0 margintop=0 topmargin=0>
```

```
<object id="CSincognitoWMP" width=320 height=264 classid="CLSID:22D6F312-B0F6-11D0-94AB-
0080C74C7E95"
codebase="http://activex.microsoft.com/activex/controls/mplayer/en/nsmp2inf.cab#Version=6,4,7,1
112" standby="Loading..." type="application/x-oleobject">
<param name="FileName" value="http://www.camstreams.com/asx.asp?user=incognito">
<param name="ShowStatusBar" value="true">
<param name="ShowControls" value="false">
<param name="AutoStart" value="True">
```

```
<embed name="CSincognitoWMP" type="application/x-mplayer2"
pluginspage = "http://www.microsoft.com/Windows/MediaPlayer/"
src="http://www.camstreams.com/asx.asp?user=incognito" align="middle"
width=320 height=264 ShowControls="0" ShowStatusBar="1" ShowDisplay="0"
autostart="1"></embed></object>
```

```
</BODY></HTML>
```

You may change the screen width and height and a few other features. Notice that the code is essentially duplicated. The first contains information in 'param'. The other has a large 'embed' string. It is important to update both of these.

Following is the code to capture only the chat portion of this web site.

```
<HTML><HEAD><TITLE>Chat Title</TITLE><BASE HREF="http://www.camstreams.com/">
<LINK REL="stylesheet" type="text/css" href="style.css"></HEAD>
<BODY BGCOLOR=#DFD0F0 margintop=0 topmargin=0>
<script type="text/javascript" src="swfobject.js"></script><center>
<div id="cslargechat"><center><font color=#ffffff>You must have Macromedia Flash version 7
or higher installed to use Camstreams Chat. Please see
<a href="viewer-wmp.asp">this link</a> for more information.</font></div>
<script type="text/javascript">
  var so = new SWFObject("http://incognito.camstreams.com/chat.asp?2", "largechat", "748", "208",
"7", "#d8cbf9");
  so.addParam("allowScriptAccess", "sameDomain");
  so.addParam("FlashVars",
"&roomId=incognito&sessionId=null&host=chat.camstreams.com&port=9090
&_EnterSound=enter.mp3&_LivesSound=lives.mp3&_ReceiveSound=receive.mp3&_ReceivePMSound
=receivepm.mp3");
  so.addParam("quality", "high");
  so.addParam("menu", "false");
  so.write("cslargechat");
</script></center></BODY></HTML>
```

To compare all parameters, open up this link. <http://whereismike.camstreams.com/> Mike has his own trucking web cam. Examination of the source code reveals the following differences.

The video stream differences lies in the following parameter difference. Compare the user to the user listed in the above video stream code.

```
<param name="FileName"
value="http://www.camstreams.com/asx.asp?user=whereismike">
```

Chatting is entirely different. The chat is embedded from a different page.

```
<iframe id="camstream" width=1185 height=235  
src="http://whereismike.livetruckcam.net/chatpage.html"></iframe>
```

Copy the source (src) link above into the browser URL. See where it takes you.

<http://whereismike.livetruckcam.net/chatpage.html>

The web page 'chatpage.html' leads to our next topic.

Chatting

The URL listed above provides us a clue. We can now use Google to locate chat pages. Search this query.

inurl:chatpage.html

This produced 90 hits. Here's a tip. The file extension to the above page is 'html'. Try the search again without the 'l'.

inurl:chatpage.htm

Locate MP3 Music Files

Try this Google query.

- intitle:index.of + mp3 + -html -htm -php -asp apache mar

The Server "Apache" searched and the month 'mar' or March represents the month of the parent directory.

Pinging IP Addresses

You can check an IP address to see if it is accessible. A common test is to "PING" the IP address. There are many ways to do this. This link provides a ping test in addition to other tests.

<http://ping.eu/>

Pinging the IP address 200.61.48.74 results in the following display.

```
--- PING 200.61.48.74 (200.61.48.74) 56(84) bytes of data. ---  
64 bytes from 200.61.48.74: icmp_seq=1 ttl=55 time=256 ms  
64 bytes from 200.61.48.74: icmp_seq=2 ttl=55 time=260 ms  
64 bytes from 200.61.48.74: icmp_seq=3 ttl=55 time=259 ms  
64 bytes from 200.61.48.74: icmp_seq=4 ttl=55 time=255 ms
```

```

--- 200.61.48.74 ping statistics ---
packets transmitted 4
received          4
packet loss       0 %
time              3003 ms

--- Round Trip Time (rtt) ---
min  255.918 ms
avg  258.158 ms
max  260.616 ms
mdev 1.967 ms

```

Four pings (packets of data) are sent to the IP address. All four packets are returned. The time it took to return is displayed in milliseconds. The average time was 258.158ms or $\frac{1}{4}$ second.

Traceroute

Traceroute displays the path taken when a user connects his computer to another IP address somewhere in the world. The site used for pinging can also be used for this.

<http://ping.eu/>

Testing the IP address 200.61.48.74 results in the following display.

```

1  v53-853a.ps2.fra.routeserver.net85.25.86.10.581 ms0.516 ms0.642 ms
2  df-sx01.interngenia.de85.25.95.330.352 ms0.335 ms0.371 ms
3  tge-4-1-0-0a.cr1.fra.routeserver.net85.25.225.50.359 ms0.253 ms0.345 ms
4  ge-4-0.498.edge1.fra3.de.inetbone.net83.220.157.970.669 ms0.584 ms0.653 ms
5  tge-4-2.bbr1.dus1.de.inetbone.net213.203.213.704.391 ms4.308 ms4.359 ms
6  tge-3-2.car2.Duesseldorf1.Level3.net212.162.49.334.410 ms4.458 ms4.393 ms
7  ae-31-51.ebr1.Dusseldorf1.Level3.net4.68.119.304.719 ms16.916 ms16.318 ms
8  ae-1-100.ebr2.Dusseldorf1.Level3.net4.69.132.13016.781 ms15.639 ms15.078 ms
9  ae-2.ebr1.Amsterdam1.Level3.net4.69.133.8914.890 ms13.504 ms11.664 ms
10 ae-1-100.ebr2.Amsterdam1.Level3.net4.69.133.8616.981 ms15.018 ms13.047 ms
11 ae-2.ebr2.London1.Level3.net4.69.132.13315.790 ms27.540 ms27.481 ms
12 ae-41.ebr1.NewYork1.Level3.net4.69.137.6694.354 ms
    ae-42.ebr1.NewYork1.Level3.net 4.69.137.7094.290 ms
    ae-43.ebr1.NewYork1.Level3.net 4.69.137.7493.609 ms
13 ae-91-91.csw4.NewYork1.Level3.net4.69.134.7894.009 ms

```

```

ae-61-61.csw1.NewYork1.Level3.net 4.69.134.6691.321 ms
ae-71-71.csw2.NewYork1.Level3.net 4.69.134.7086.784 ms
14 ae-33-89.car3.NewYork1.Level3.net4.68.16.13386.511 ms
ae-43-99.car3.NewYork1.Level3.net 4.68.16.19786.926 ms
ae-13-69.car3.NewYork1.Level3.net 4.68.16.5 85.666 ms
15 192.205.33.9391.888 ms91.394 ms90.508 ms
16 tbr2.n54ny.ip.att.net12.123.0.94124.434 ms124.015 ms125.099 ms
17 cr2.n54ny.ip.att.net12.122.16.205124.109 ms124.045 ms123.777 ms
18 cr2.wswdc.ip.att.net12.122.3.38123.604 ms123.598 ms122.864 ms
19 cr1.attga.ip.att.net12.122.1.173121.908 ms122.302 ms122.095 ms
20 cr2.ormfl.ip.att.net12.122.5.141124.349 ms123.319 ms123.485 ms
21 tbr2.ormfl.ip.att.net12.122.21.94125.368 ms124.456 ms124.933 ms
22 gar3.miufl.ip.att.net12.122.106.105123.878 ms123.695 ms123.518 ms
23 12.88.228.6125.017 ms124.912 ms123.954 ms
24 ***
25 ***
26 nollrt19-lan2.telmx.net.ar200.80.245.39263.209 ms262.173 ms262.529 ms
27 ***
28 lan-54-6.ASSIST-CARD.COM200.61.54.6 262.358 ms261.966 ms261.220 ms
29 lan-48-74.ASSI-CARD.COM.AR200.61.48.74 271.175 ms 269.595 ms275.893 ms

```

As you can see the traceroute starts travels through Germany, Amsterdam, London, New Your, and ends up in Argentina (AR). The time at which each location received the signal to trace is listed.

IP Scanning

IP Scanning involves incrementing and decrementing IP addresses in a URL by 1 digit. After each change in IP address an attempt is made to test that URL for something related. For example, let’s work the following site.

<http://200.80.43.23/view/index.shtml>

If you delete ‘view/shtml’ from the URL and press enter the same camera will be displayed. This works to our advantage. Now decrement the number .23 by 1 to 22. Press enter on the URL in the browser. After several seconds a message is displayed that indicates nothing was found. No problem! Repeat the experiment by incrementing .23 by 1 to .24. This results in a second camera at the same location.

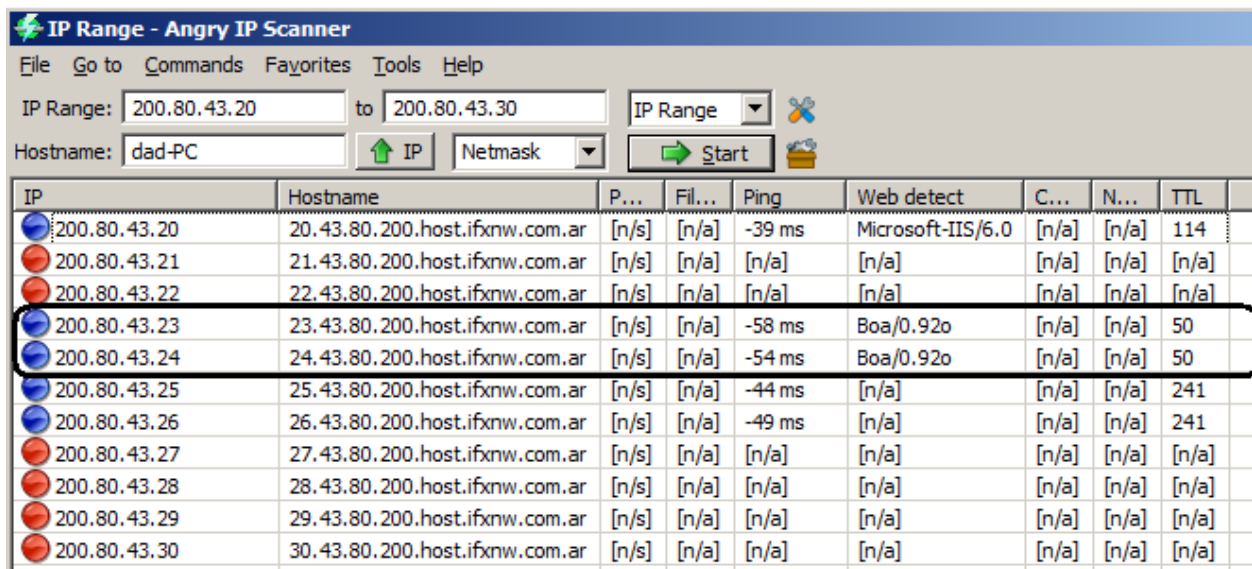
<http://200.80.43.24/view/index.shtml>

Incrementing the .24 by 1 to .25 results in an Authentication popup window. We’ll stop there. You are free to keep scanning.

It may occur to you that it is a slow process to scan too far. Fortunately there are many programs on the net that may be downloaded and used. Here’s a link to two IP Scanner I have expected.

http://www.eusing.com/ipscan/free_ip_scanner.htm

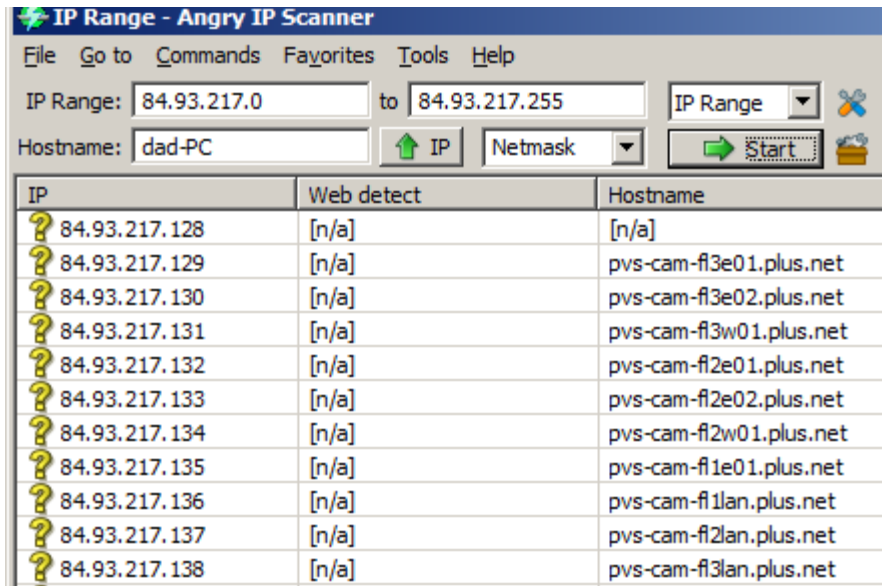
<http://www.angryziber.com/w/Home>



IP	Hostname	P...	Fil...	Ping	Web detect	C...	N...	TTL
200.80.43.20	20.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	-39 ms	Microsoft-IIS/6.0	[n/a]	[n/a]	114
200.80.43.21	21.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]
200.80.43.22	22.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]
200.80.43.23	23.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	-58 ms	Boa/0.92o	[n/a]	[n/a]	50
200.80.43.24	24.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	-54 ms	Boa/0.92o	[n/a]	[n/a]	50
200.80.43.25	25.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	-44 ms	[n/a]	[n/a]	[n/a]	241
200.80.43.26	26.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	-49 ms	[n/a]	[n/a]	[n/a]	241
200.80.43.27	27.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]
200.80.43.28	28.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]
200.80.43.29	29.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]
200.80.43.30	30.43.80.200.host.ifxnw.com.ar	[n/s]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]	[n/a]

Above is a screenshot. I scanned the IP addresses in the range indicated above. The two IP addresses are indicated in the black box. As you can see ‘Web Detect’ shows a “Boa/0.92o” reference which is different from the others. This is a clue that the two IP addresses are related. There is nothing indicating a webcam.

Incidentally, several video webcams have shown up on the “Boa/0.92o” Web Detect.



The above screenshot is interesting. Notice that the Hostname includes the word ‘cam’. Give these IP addresses a try.

base64_decode

Leeching is the process of opening up an Internet page and viewing its source code. This can be done in Mozilla Firefox by clicking **View, Page Source**. From the source it is possible to collect links, images, video streams, and much more. In order to hide basic information, it is possible to take something like an email address or link and to encode it. The encoded link would still display correctly. However, leeching would only reveal encoded information.

```
<html><head><title>MIME 64</title></head><body>
<?php
$str = 'VGhpcyBpcyBhbiBlbmNvZGVkIHNOcmIuZw==';
echo base64_decode($str);
?>
</body></html>
```

In the above code a bizarre looking string of characters is shown 'VGhpcyBpcyBhbiBlbmNvZGVkIHNOcmIuZw=='.

This string is embedded inside a PHP script. PHP is a programming language that runs on the server and generates the proper string from the encoded string. Following is how the browser will display the above page.

This is an encoded string

Awesome! PHP uses the function “base64_decode(…)” to displayed the encoded string into meaningful text.

Go to this site and type in a few words in the Input box. <http://tanawko.is-a-geek.com/tools/base64/>

Generate an Base 64 Encode from a string.

Input:

Output:

Decoding? In order to leech sites that have been encoded it may be necessary to convert the encoded string into an ASCII text or regular words. Go to this site. <http://www.hcidata.info/base64.htm>

Scroll down the page and type in “VGhpcyBpcyBhbiBlbmNvZGVkIHNOcmlyZW==”. Click the button that reads “Convert base 64 data...”. It should display “This is an encoded string”.

Following is a table that shows the relationship between ordinary letters and base64.

Text content	M	a	n
ASCII	77	97	110
Bit pattern	0 1 0 0 1 1 0 1	0 1 1 0 0 0 0 1	0 1 1 0 1 1 1 0
Index	19	22	46
Base64-Encoded	T	W	u

Courtesy of http://en.wikipedia.org/wiki/Base64#URL_applications

Proxy Servers

http://www.totse.com/en/hack/understanding_the_internet/governmentowne170262.html

Archiving the Internet

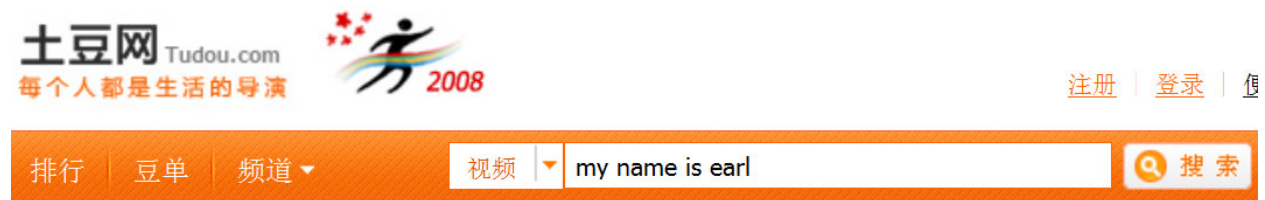
There is one internet project that has been busy since 1996 archiving the internet.

<http://www.archive.org/web/web.php> I typed in site names from 1998 and sure enough all of the pages were displayed, including photos. Wow! It’s possible to locate information about a particular site before they implemented stronger security measures.

Hacking Tudou Movie and Video Site in China

<http://www.tudou.com> is a large file server located in China. Many sites provide links to this file server to bring programming to internet viewers. I will demonstrate a simple way to display a video (movie, video, or TV show) without all of the advertisements and page clutter. Interestingly, each file that may be viewed has a unique code. I will demonstrate how to extract these unique codes using a simple macro in Excel and a simple HTML page to display the video feed.

1. Go to <http://www.tudou.com> and conduct a search for “My name is Earl”. Quotes are not necessary.



2. The results are displayed. A portion may look like the following. Don't be scared by the Chinese. Create a folder on your hard drive and save the web page to that folder as “file.htm”. The filename can be just about anything. It's important that the same name be used in step 3.



[愚人善事3-19](#)

时长: 20:47

播客: [baggio](#)

播放: 799

上传于: 2008-05-06

[>> 1 个相同视频](#)



[愚人善事My.N](#)

时长: 20:06

播客: [witchz](#)

播放: 1687

上传于: 2008-02-03

- Open up Excel. (I'm going to assume you know how to open up the VB Editor inside of Excel).

```

Public Sub ParseFile()

  Dim sLink As String
  sLink = http://www.tudou.com/programs/view/
  Dim sLine As String
  Dim nPos As Integer
  Dim nPos2 As Integer
  Dim code As String
  Dim lineCount As Integer

  lineCount = 2

  Open ThisWorkbook.Path & "\file.htm" For Input As #1
  Do
    Line Input #1, sLine
    nPos = InStr(1, sLine, sLink)
    If nPos > 0 Then
      nPos = InStr(nPos, sLine, "/view/")
      If nPos > 0 Then
        nPos2 = InStr(nPos + 6, sLine, "/")
        If nPos2 > nPos Then
          If Mid(sLine, nPos2, 3) = "/" & Chr(34) & ">" Then
            code = Mid(sLine, nPos + 6, nPos2 - nPos - 6)
            Worksheets(1).Cells(lineCount, 1) = code
            lineCount = lineCount + 1
          End If
        End If
      End If
    End If

    Loop Until EOF(1)
  Close #1
End Sub

```

Save this Excel spreadsheet into the same folder created to store "file.htm".

- Run the Macro called ParseFile(). This will create a list of codes on the first worksheet page. My list looked like this.

```

yUBef5-RpEM
7cz68v-tbbM
t_ABo1hBdJo

```

pRQffXJV3p8
InhafZpcPQE
4YUgDMTv5n8
kycsLDBkOdl
_uYphdquioU
C9gvpmDPI7A
pR_ec3U57J4
uf8MCPRuWIA
hNaJg4cn2E0
uMr1-XlloeY
nmNNeivu2So
SrzIn2lZYw0
R5crWsyZvfE

- Using Notepad or another text editor, add the following HTML code to the page. Save the file as "earl.htm".

```

<HTML>
<HEAD><TITLE>Todou Hack</TITLE><HEAD>
<BODY>
  <object width="400" height="340">
    <param name="movie" value="http://www.tudou.com/v/yUBef5-RpEM"></param>
    <param name="allowScriptAccess" value="always"></param>
    <param name="wmode" value="transparent"></param>

    <embed src="http://www.tudou.com/v/yUBef5-RpEM" type="application/x-shockwave-flash"
width="400" height="340" allowFullScreen="true" wmode="transparent"
allowScriptAccess="always"></embed>
  </object>

</BODY></HTML>

```

- To view a video, copy a code from the list in step 4 to two locations in the HTML above in Bold.

Improved Tudou Hack Using Multiple Links

The codes collected above are integrated into HTML links (a href=""') to allow for easy video selection and viewing...without ads and the clutter. These particular episodes may no longer exist.

```
<HTML><HEAD><TITLE>My Name is Earl</TITLE><HEAD><BODY>
<h1>My Name Is Earl (Tudou)</h1>

<script type="text/javascript">
function play(media){
document.getElementById('mediaplayer').innerHTML=
'<object classid="clsid:22d6f312-b0f6-11d0-94ab-0080c74c7e95"'
+'type="application/x-oleobject" width="320" height="285"'
+'<param name="showControls" value="false">'
+'<param name="fileName" value="'+media+'"'
+'<embed type="application/x-mplayer2" width="320" height="285"'
+'showcontrols="false" src="'+media+'"'></embed></object>'}
</script>

<div><ul>
<li><a onclick="play(this.href);return false"
href="http://www.tudou.com/v/uf8MCPRuWIA">Episode 1</a></li>
<li><a onclick="play(this.href);return false"
href="http://www.tudou.com/v/pR_ec3U57J4">Episode 2</a></li>
<li><a onclick="play(this.href);return false"
href="http://www.tudou.com/v/nmNNeivu2So">Episode 3</a></li>
<li><a onclick="play(this.href);return false" href="http://www.tudou.com/v/yUBef5-
RpEM">Episode 4</a></li>
<li><a onclick="play(this.href);return false" href="http://www.tudou.com/v/7cz68v-
tbbM">Episode 5</a></li>

</ul></div>

</BODY></HTML>
```

Musicradio.com UK Audio Streaming (Radio Stations) Hack

This isn't too difficult. Musicradio.com provides streaming and links to many stations inside the UK. Of course that comes with a lot of web page clutter. Here's a way to stream the audio directly to your browser.

<http://mediaweb.musicradio.com/show.aspx?StreamID=95&web=true>

This link is for Classic FM TV. It provides a high quality video stream in addition to audio. The hack involves pasting this link directly to your browser. Experiment with the number after 'StreamID='. Change this value inside your browser. Start with 1 and work your way up to 100. There are dozens of different styles of music for every taste.

Vodpod

Here's an interesting way to embed videos from various sites into a page without the clutter. Change the number following 'ExternalVideo' to change the video.

```
<html>
<head profile="http://gmpg.org/xfn/11">
<title>Vodpod</title>
</head><body>

<embed src='http://widgets.vodpod.com/w/video_embed/ExternalVideo.445644'
type='application/x-shockwave-flash' AllowScriptAccess='never'
pluginspage='http://www.macromedia.com/go/getflashplayer'
wmode='transparent' flashvars='st=0&#038;et=2879' width='425' height='350' />

</body></html>
```

Hulu

<http://www.hulu.com/embed/3u5SiWkVlhBGZYzZi-SB3w?>

OR

```
<embed allowscriptaccess="never" wmode="transparent"
type="application/x-shockwave-flash" src="http://www.hulu.com/embed/3u5SiWkVlhBGZYzZi-
SB3w"
flashvars="autoPlay=true&autoplay=true&autoStart=1&ap=1&autoplay=1&ip=true&autostart=t
rue" height="100%" width="100%"></embed>
```

Many videos on Hulu includes a line in the page source that looks like this.

```
<link rel="video_src" href="http://www.hulu.com/embed/s53zvbbFNkvobFVSOvNwzw"/>
```

This information may be used to type a link directly into the browser URL or into the embed code. Not all TV or movies on Hulu provide this embed code.

Another way is to use Flash.

<http://www.hulu.com/playerembed.swf?eid=3u5SiWkVlhBGZYzZi-SB3w>

```
<object width="512" height="296"><param name="movie"
value="http://www.hulu.com/embed/Q0hI6jSM6Mf461U7Velvog"></param><embed
src="http://www.hulu.com/embed/Q0hI6jSM6Mf461U7Velvog" type="application/x-shockwave-flash"
width="512" height="296"></embed></object>
```

Youtube

```
<embed src="http://www.youtube.com/v/b6hqP0c0_gw&autoplay=1&border=0&rel=0"
type="application/x-shockwave-flash" wmode="transparent" width="100%"
height="100%"></embed>
```

```
<object type="application/x-shockwave-flash" height="350" width="425"
data="http://www.youtube.com/v/moyalEeuMz4&rel=0" id="VideoPlayback" >
  <param name="movie" value="http://www.youtube.com/v/moyalEeuMz4&rel=0" />
  <param name="allowScriptAccess" value="sameDomain"/>
  <param name="quality" value="best"/>
  <param name="bgcolor" value="#FFFFFF"/>
  <param name="scale" value="noScale"/>
  <param name="salign" value="TL"/>
  <param name="FlashVars" value="playerMode=embedded" />
  <param name="wmode" value="transparent" />
</object>
```

Tesla Like Television

<http://tesla.liketelevision.com> provides lots of classic movies and commercials. Change the 'channel' number to get various programs. This sub-domain is the same as <http://www.tvbat.com/>.

```
<object type="application/x-shockwave-flash"
data="http://www.tvbat.com/liketelevision/mediaplayer.swf" height="340" width="352">
<param name="movie" value="http://www.tvbat.com/liketelevision/mediaplayer.swf" />
<param name="allowfullscreen" value="true" />
<param name="saveEmbedTags" value="true" />
<param name="bgcolor" value="#000000" />
<param name="flashvars"
value="file=http://www.tvbat.com/liketelevision/playlist22.php?channel=1110&parts=&display
height=240&callback=http://www.tvbat.com/liketelevision/stats_count.php&lightcolor=0xcccc
```

```
c&bgcolor=0x00000b&frontcolor=0xfbfbbf&logo=http://www.tvbat.com/liketelevision/logomark.png&link=http://tesla.liketelevision.com&linktarget=_blank&repeat=list&shuffle=false" />
</object>
```

Embed anywhere using this code.

```
<object type="application/x-shockwave-flash"
data="http://www.tvchest.com/liketelevision/mediaplayer.swf" height="340"
width="352"><param name="movie"
value="http://www.tvchest.com/liketelevision/mediaplayer.swf" /> <param
name="allowfullscreen" value="true" /> <param name="saveEmbedTags" value="true" />
<param name="bgcolor" value="#000000" /> <param name="flashvars"
value="file=http://www.tvchest.com/liketelevision/playlist22.php?channel=1095&parts=&displ
ayheight=240&callback=http://www.tvchest.com/liketelevision/stats_count.php&lightcolor=0xc
cccc&bgcolor=0x00000b&frontcolor=0xfbfbbf&logo=http://www.tvchest.com/liketelevision/
logomark.png&link=http://tesla.liketelevision.com&linktarget=_blank&repeat=list&shuffle=false
" /> </object> <BR> <A HREF="http://tesla.liketelevision.com">LikeTelevision Embed Movies
and TV Shows</A><BR><BR>
```

Perform a Google search to find channel numbers.

site:tesla.liketelevision.com inurl:"tuner.php?channel="

Use this link to display movies in a dropdown box.

<http://tesla.liketelevision.com/liketelevision/search/movies.php?q=Movies&theme=guide>

With some programming, it is possible to open the source code and to extract channel numbers and titles. Here's a snippet of the source page.

```
<OPTION
VALUE="/liketelevision/tuner.php?channel=1063&format=movie&theme=guide"
>
Escape from Sobibor</OPTION>
<OPTION
VALUE="/liketelevision/tuner.php?channel=1087&format=movie&theme=guide"
>
Evel Knievel</OPTION>
```

WWITV.COM (2700+ TV stations worldwide)

Here is a list of URL's that will pull up a video feed (TV programs from all over the world).

<http://www.dsource.org/projects/rulesplayer/browser/trunk/src/player/tv/channels.dat?rev=94>

Replaced the 'tt' with 'a1' such as <http://wwitv.com/a1/b2079.aspx>. The main site is located at <http://wwitv.com/portal.htm>

Soundboards

Soundboards are Flash programs that contain audio sound bites related to celebrities. It is possible to have an interesting and funny conversation between two persons who are operating a sound board.

Here is a link <http://www.ebaumsworld.com/soundboards/play/1873/> to a Dr. Phil soundboard. Click on the various graphical buttons to play the sound bites.

In order to play only the sound board and not the clutter, open up the page source and look for the following.

```
swfobject.embedSWF(' /2006/07/drphil2.swf '
```

The information after the apostrophe may be appended to <http://media.ebaumsworld.com> to produce this link. <http://media.ebaumsworld.com/2006/07/drphil2.swf>

If you want to add a link solely to the flash file (.swf) add this link to your HTML code.

```
<a href="http://media.ebaumsworld.com/2006/07/drphil.swf">Dr. Phil</a><br>
```

To embed a Flash file into your web page add this code. (Works for Mozilla).

```
<object type="application/x-shockwave-flash"  
data="http://media.ebaumsworld.com/2006/07/drphil.swf" width="1200" height="640">  
</object>
```

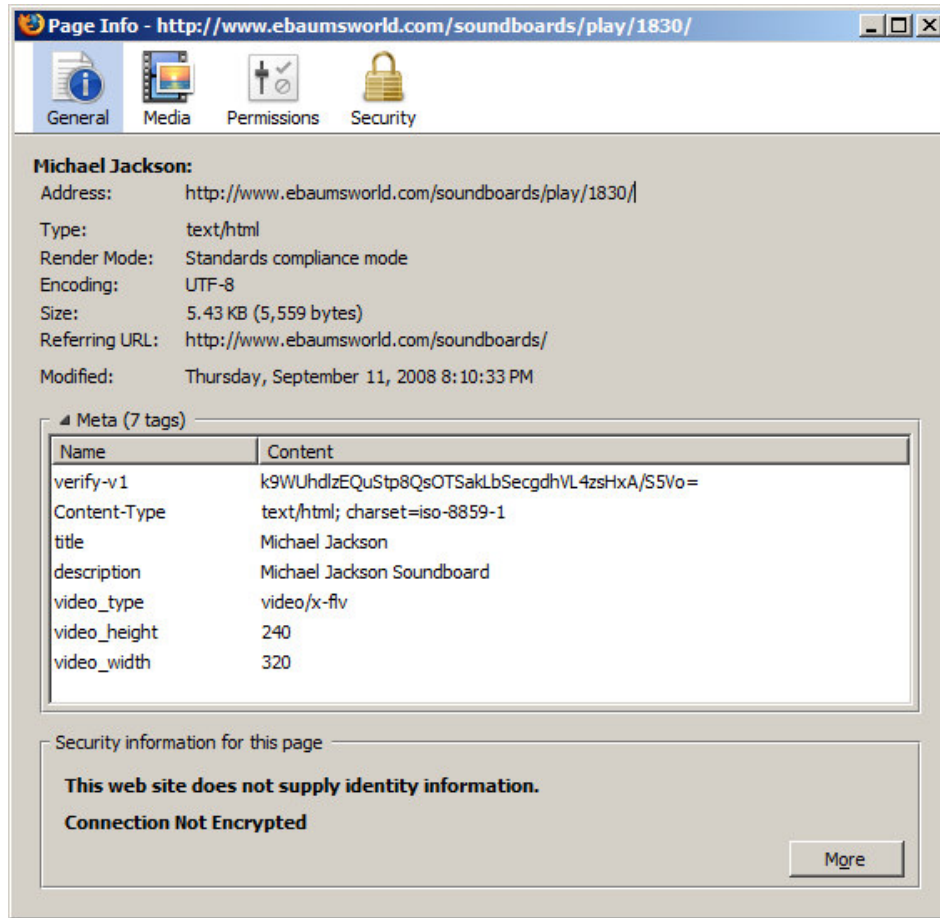
Here is a large index of soundboards. Enjoy! <http://www.ebaumsworld.com/tags/soundboard/>

Viewing Files in Disk Cache – Mozilla Firefox Browser

Type this in the web browser. `about:cache?device=disk` The results are the contents of the cache are listed in the browser. This provides information such as data size and links to the actual website. This may be of some use in hacking.

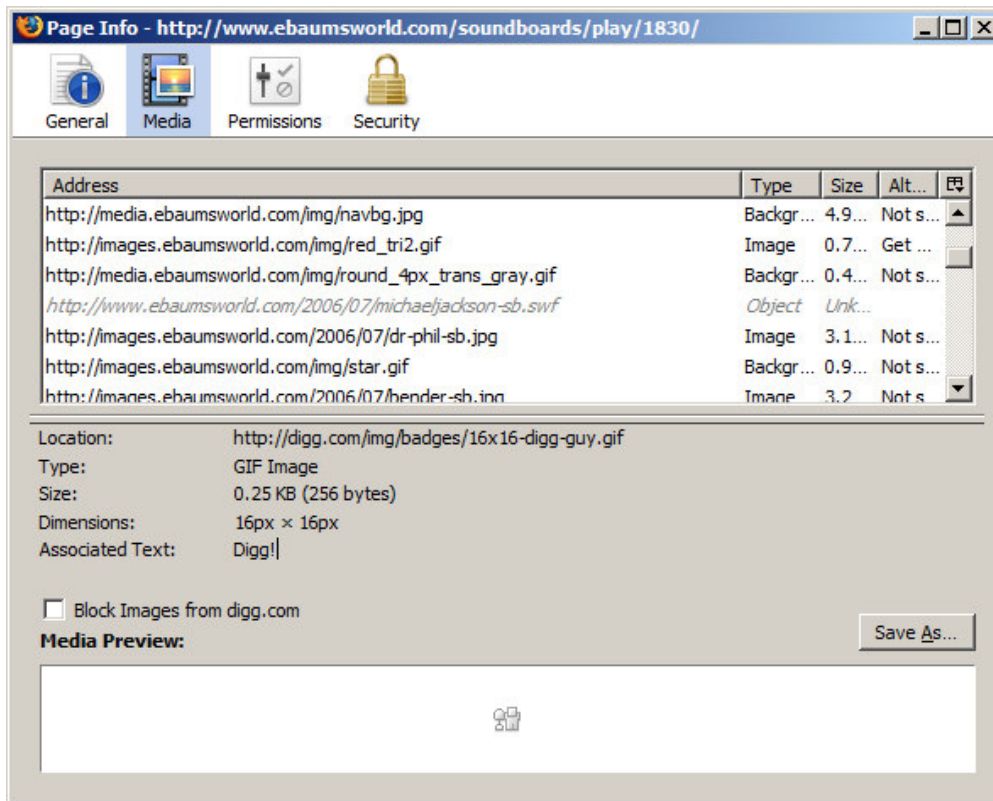
Mozilla – Tools Page Info

Access a web page somewhere on the Internet. Click on “Tools – Page Info”. The following window is displayed. I used the Michael Jackson soundboard at <http://www.ebaumsworld.com/soundboards/play/1830/>.



There are four tabs or options at the top: General, Media, Permissions, and Security. The General tab displays HTML meta commands, URL, type, size and other bits of information

Click on Media tab. All Media URLs are displayed.



Notice that <http://www.ebaumsworld.com/2006/07/michaeljackson-sb.swf> is displayed. This can be displayed in a HTML page as a link or embedded using the samples above.

To save the list of Media for this page right click inside list of media (graphics, Flash, videos, etc.) and click Select All. Right click and select copy. This can be pasted in Excel, Word, Notepad, etc.

To save any items, highlight the media and click SaveAs. In this example I saved the “michaeljackson-sb.swf” file to my harddrive. It can be loaded into the browser much faster.

Storm Pulse

A friend pointed this site out to me. It’s an interactive storm tracking program (hurricanes). It can be viewed at <http://www.stormpulse.com/>. In addition, it is possible to embed the program into your webpage. However you will need a key.

The API for the program can be reviewed here. <http://stormpulse.wordpress.com/stormpulse-api/>



Screenshot of StormPulse