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from IBM and COMMON



Browser tools that make web development easier

Alan Seiden

PHP on IBM i consultant
Strategic Business Systems, Inc.

<http://alanseiden.com>

@alanseiden

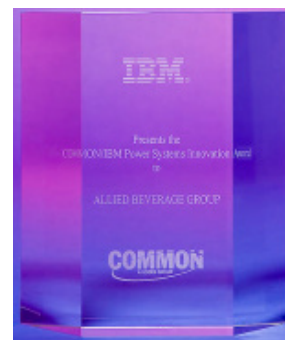


Browser tools that make web
development easier

About Alan

PHP on IBM i consultant

- Specialty: subsecond web performance on IBM i/iSeries
- Lead PHP developer for new toolkit from Zend/IBM
- Zend Framework contributor (DB2 for i enhancements)
- Developer, IBM/COMMON's "Best Web Solution," 2009



<http://alanseiden.com>

alan@alanseiden.com

• twitter: @alanseiden

• 201-327-9400

Strategic Business Systems, Inc.



- **Based in Ramsey, Bergen County, New Jersey**
- **IBM Business Partner**
 - Power Systems hardware, software, development, consulting

Where to download these slides

From my site

<http://alanseiden.com/presentations>

On SlideShare

<http://slideshare.net/aseiden>

The latest version will be available on both sites

What we'll discuss today

- **Not my usual PHP server-side topic**
- **Today we discuss the client side**
 - That means what ends up in the user's browser
 - Dynamic HTML, styles and classes, javascript, performance related to HTTP requests
- **Free tools that run in our web browser can teach us what we're doing right and wrong**

Format of today's talk

- **Mostly live demos of the tools**
- **These slides will not contain all the details of each tool—only basic reference info**
- **People reading these at home will miss the details**

Browser tools?

“View source” started it all

- **“View Source” was the original built-in browser tool**
- **CTRL+U is its shortcut on many browsers**
- **It still works but does not meet today’s challenges:**
 - Dynamic HTML (View Source doesn’t include it)
 - Performance and speed testing
 - Debugging of style sheets (CSS) and javascript
 - Sophisticated redirects and AJAX

Firefox add-ons

Why Firefox?

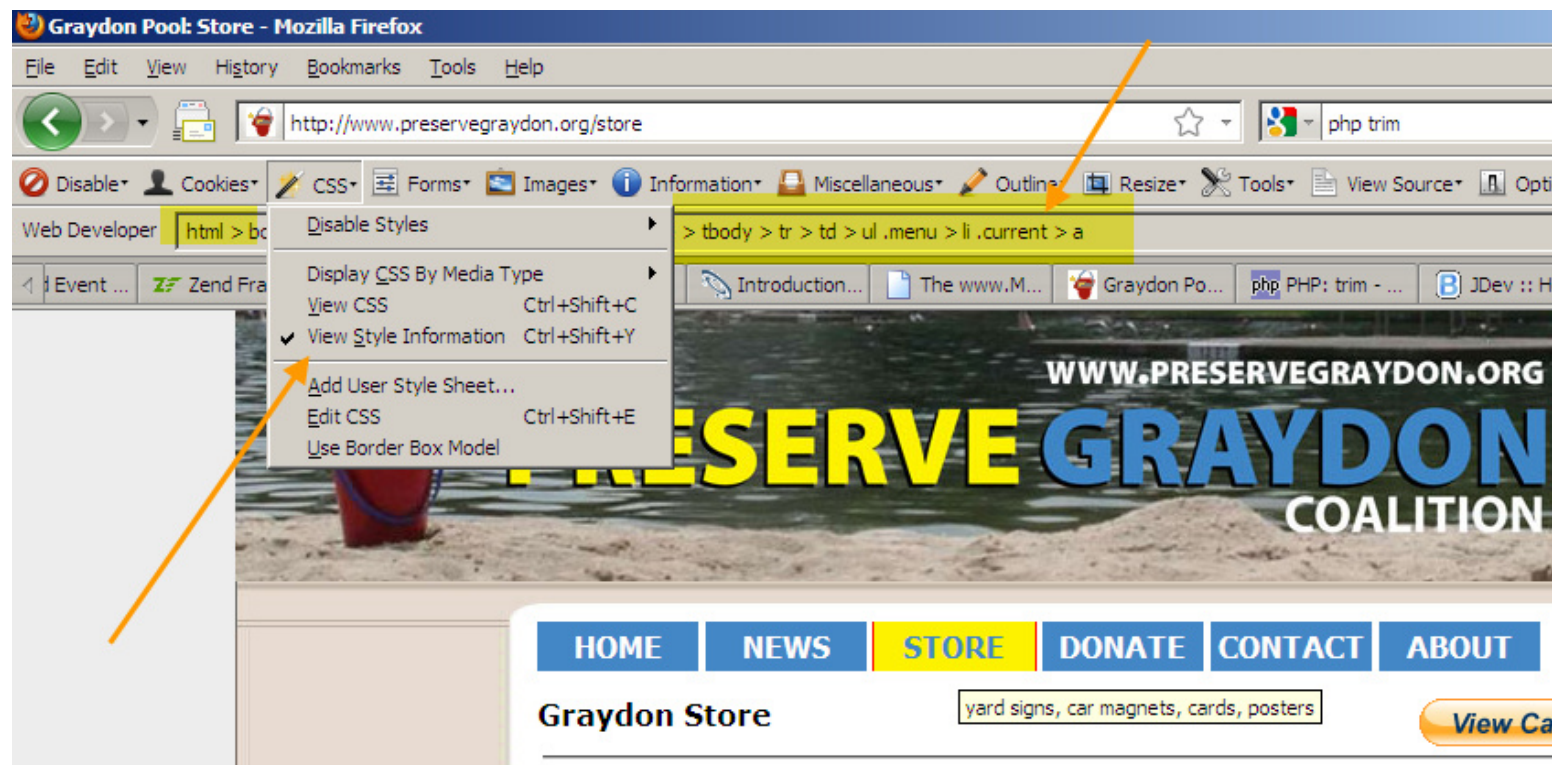
- **Favored by developers**
- **Highly extensible add-on system**
 - Anyone can create an add-on
- **To see all Firefox add-ons for web developers:**
 - <https://addons.mozilla.org/firefox/extensions/web-development/>

Web Developer Toolbar

- **URL:** <http://chrispederick.com/work/web-developer/>
- **Author:** Chris Pederick
- **Browser:** Firefox
- **Purpose**
 - Analyzes web pages in dozens of ways
 - Easy enough for non-programmers to use
 - Favorite features:
 - View **generated** source (such as generated by javascript)
 - View style information
 - Outline various types of objects, table cells, etc

Web Developer Toolbar in detail

- Quick way to figure out what's going on in a page
- Example below: check CSS style/class of menu item

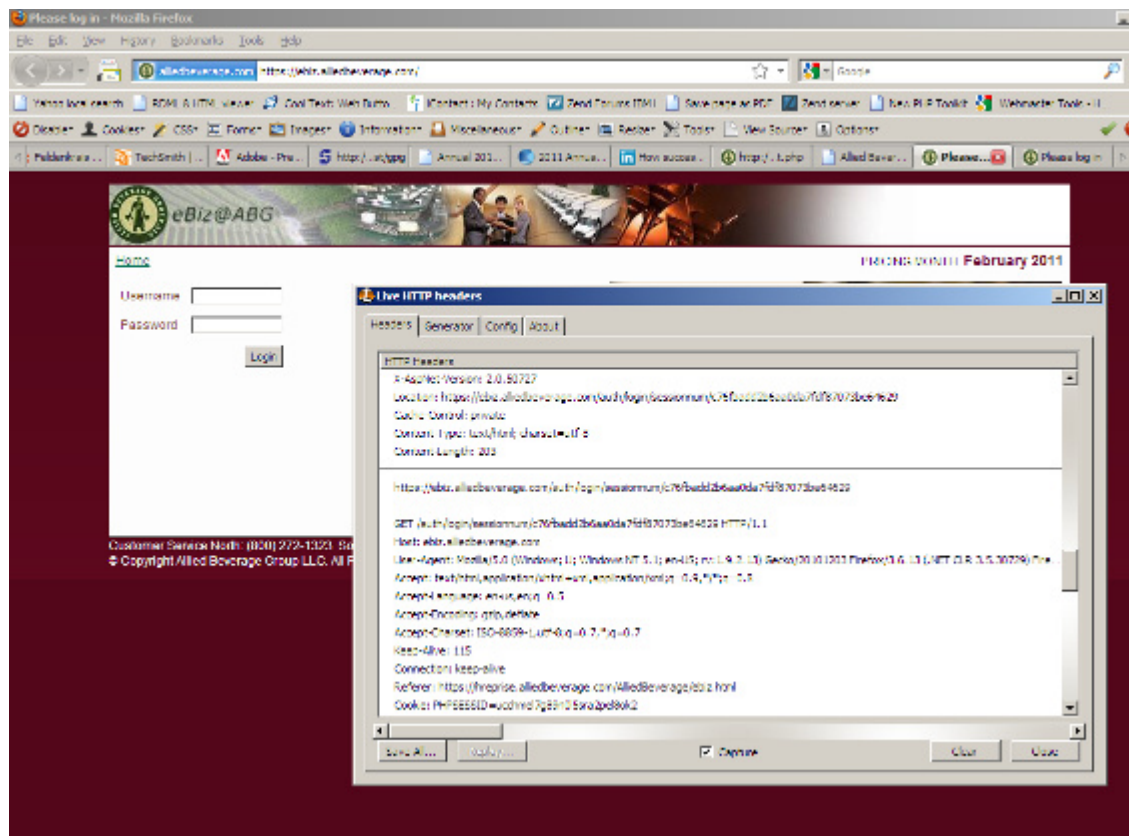


Live HTTP Headers

- **URL:** <http://livehttpheaders.mozdev.org/>
- **Authors:** Daniel Savard, Nikolas Coukouma
- **Browser:** Firefox
- **Purpose**
 - Shows the “flow” of HTTP request/response
 - Great tool to teach how the web works
 - See submitted form data
 - Determine what pages load before redirects occur

Live HTTP Headers in detail

- Example below: Capture what URL was launched before redirect occurred



Colorzilla

- **URL:** <https://addons.mozilla.org/firefox/addon/colorzilla/>
- **Author:** Alex Sirota
- **Browser: Firefox**
- **Purpose**
 - Find out what colors are used in web sites, including in images
 - Helpful for building a color palette
 - It's so good, you may find yourself loading images in a browser so you can use this tool

Colorzilla in detail

- Example: Which “blue” was used in NEMUG’s logo?

The screenshot shows the NEMUG website with several annotations from the Colorzilla tool:

- 1. Click "eye dropper"**: A red speech bubble pointing to the eye dropper icon in the Colorzilla toolbar at the bottom left.
- 2. Hover mouse/cross-hairs over color you want**: A red speech bubble pointing to the NEMUG logo, which is a circular emblem with "NEMUG" at the top, "Knowledge" in the center, and "POWER" at the bottom, surrounded by "NEW ENGLAND MIDRANGE USERS GROUP".
- 3. See color codes**: A red speech bubble pointing to the color code display at the bottom of the Colorzilla toolbar, which shows "R: 2, G: 65, B: 145 | #024191 | ΔX: 818, ΔY: 21 | img".

The website content includes a navigation menu with links like Home, Members, Speaker Info, Directions, Application, From the President, Speaker Handouts, and Contact an Officer. The main content area features a section for the "Next Regular Meeting - February 17, 2010" with details about the date, time, place, topic, speaker, and dinner.

Firebug

- **URL:** <https://addons.mozilla.org/firefox/addon/firebug/>
- **Author:** Joe Hewitt, johnjbarton, robcee, FirebugWorkingGroup, Jan Odvarko
- **Browser: Firefox**
- **Purpose**
 - Advanced tool for programmers
 - Debug javascript and CSS
 - Measures performance
 - A container for other tools
- **Has more features than we could possibly cover here**

Firebug in detail

- See relationships between page objects, HTML, scripts, styles

The screenshot shows a web browser displaying a page titled "Alan Seiden's Information Technology". The page content includes a navigation bar, a search bar, and a main article titled "Q&A: Upgrading from Zend Core to Zend Server". The Firebug extension is open, showing the DOM tree on the left, the HTML source code in the middle, and the CSS styles on the right. Callouts highlight specific features:

- Click to inspect an element:** A callout pointing to the "Inspect" button in the Firebug toolbar.
- HTML here:** A callout pointing to the HTML source code view in the Firebug interface.
- See all applicable styles here:** A callout pointing to the "View All Styles" button in the Firebug interface.

The DOM tree shows the following structure:

```
<html>
  <head>
    <body class="single single-post postid-742">
      <div id="wrapper" class="feed">
        <div id="header">
          <div id="container">
            <div id="content">
              <div id="nav-above" class="navigation">
                <div id="post-742" class="post-742 post-type-post history category-123 category-php category-system">
                  <div class="entry-title">
                    <h2>Q&A: Upgrading from Zend Core to Zend Server</h2>
                  <div class="entry-meta">
                    <div class="entry-content">
                      <div class="navybutton" style="float: right; margin-left: 10px;">
                        <p>Zend Core and Zend Platform will reach "end of life" on July 1, 2011. Some of my clients have asked me what this will mean to them. In this article I'll answer some common questions.</p>
                      <p>Q: What does "end of life" mean?</p>
                      <p>Q: What software replaces Zend Core and Zend Platform?</p>
                      <p>A: Zend Server replaces both Zend Core and Zend Platform.</p>
                      <p>Q: If I currently use Zend Core/Platform and take no action, will my PHP scripts
```

The CSS styles panel shows the following styles:

```
font-size: 14px;
line-height: 1.2em;
margin-bottom: 10px;
margin-top: 10px;
padding: 0;
vertical-align: baseline;
width: 100%;
```

Firebug in detail

- I recently used it to understand layout issues with my blog

← MySQL is still alive on IBM I

Q&A: Upgrading from Zend Core to Zend Server

Posted on February 8, 2011 by Alan Seiden

Zend Core and Zend Platform will reach "end of life" on July 1, 2011. Some of my clients have asked me what this will mean to them. In this article I'll answer some common questions.

[tweet](#)
[retweeted](#)

Q. What does "end of life" mean?

A. According to the [official announcement](#), effective immediately, Zend Core and Zend Platform will no longer be sold except in special circumstances. Support will continue to be offered by Zend, for those customers with a support contract, until July 1, 2011.

Q. What software replaces Zend Core and Zend Platform?

A. Zend Server replaces both Zend Core and Zend Platform.



Search Alan's site

 Search

Receive updates via email

Enter your email address:

<!DOCTYPE HTML>
 <html lang="en-US" dir="ltr">
 <head>
 <body class="single single-post postid-742">
 <div id="wrapper" class="hfeed">
 <div id="header">
 <div id="main">
 <div id="container">
 <div id="content" role="main">
 <div id="nav-above" class="navigation">
 <div id="post-742" class="post-742 post-type-post hentry category-ibm-i category-php category-system-i category-zend-server category-iseries-it tag-ibmi tag-php tag-zend">
 <h1 class="entry-title">Q[amp]A: Upgrading from Zend Core to Zend Server</h1>
 <div class="entry-meta">
 <div class="entry-content">
 <div class="tweetmeme button" style="float: right; margin-left: 10px;">
 <p>Zend Core and Zend Platform will reach "end of life" on July 1, 2011. Some of my
clients have asked me what this will mean to them. In this article I'll answer some common
questions.</p>
 <p>Q. What does "end of life" mean?</p>
 <p></p>
 <p>Q. What software replaces Zend Core and Zend Platform?</p>
 <p>A. Zend Server replaces both Zend Core and Zend Platform.</p>
 <p>Q. If I currently use Zend Core/Platform and take no action, will my PHP scripts

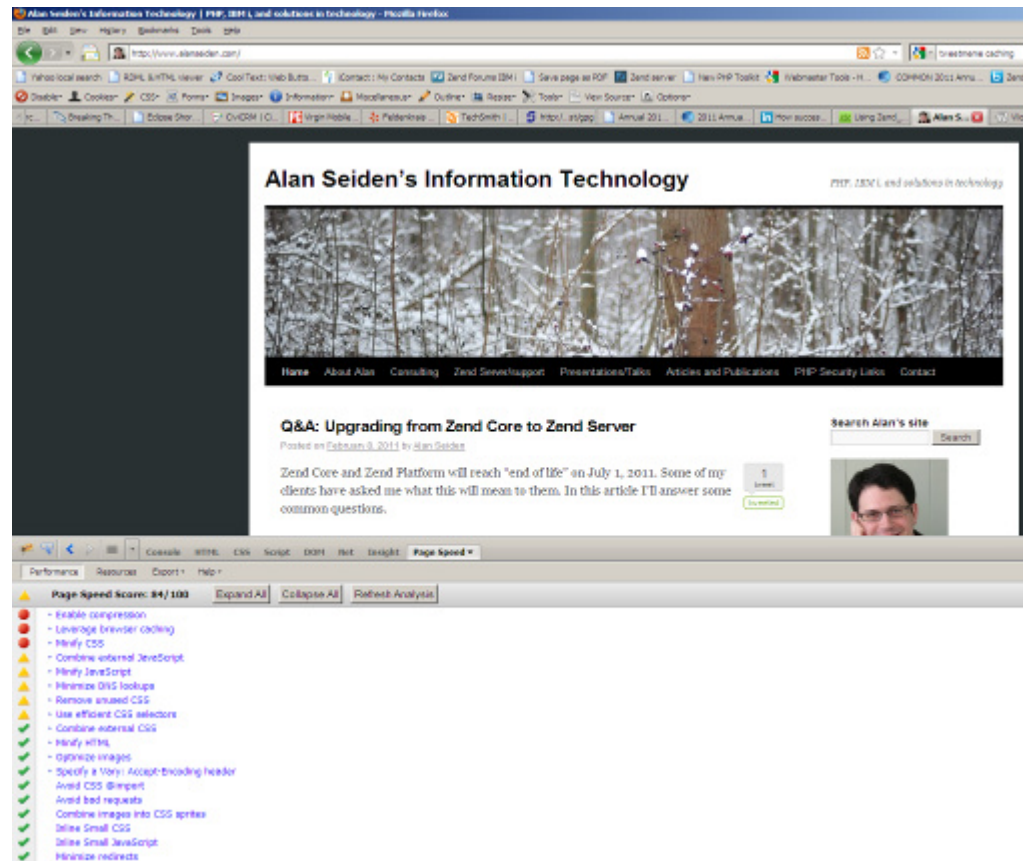
Style Computed Layout ▾ DOM

margin: 16 0 0 0
 border: 0 0 0 0
 padding: 0 0 0 0
 640 x 72
 0 0 0 0
 0 0 0 0
 0 0 0 0
 24 0 0 0

position: static z: auto

Firebug in detail (Pagespeed)

- Includes Google's PageSpeed diagnostic tool



FirePHP fits inside Firefox

- **URL:** <http://firephp.org/>
- **Author:** Christoph Dorn
- **Purpose:** displays server-side PHP data in Firebug

http://phptest/		
All DB Queries (21 @ 0.12728 sec)		
Time	Event	Parameters
0.00693	SELECT WBCFG.* FROM WBCFG	NULL
0.00269	SELECT WBERG.* FROM WBERG	NULL
0.02426	SELECT WENAV.* FROM WENAV WHERE (WENAVNAME = 'main_nav') AND (WENAVRCD = (SELECT MAX(WENAVRCD) FROM WENAV AS local WHERE WENAV.WENAVLFT=local.WENAVLFT AND (WENAVRCD='*' OR WENAVRCD= 'NA'))) ORDER BY WENAVLFT ASC, WENAVRCD DESC	NULL
0.01402	SELECT WENAV.* FROM WENAV WHERE (WENAVNAME = 'util_nav') AND (WENAVRCD = (SELECT MAX(WENAVRCD) FROM WENAV AS local WHERE WENAV.WENAVLFT=local.WENAVLFT AND (WENAVRCD='*' OR WENAVRCD= 'NA'))) ORDER BY WENAVLFT ASC, WENAVRCD DESC	NULL
0.00464	SELECT WBCN.* FROM WBCN WHERE (WBCNVW IN ('general')) AND (WBCNREG = '*' OR WBCNREG = 'NA') ORDER BY WBCNREG ASC	NULL
0.02459	SELECT DISTINCT WEPBS.WEPRSPPID, WEPBS.WEPRSRN FROM WEPBS LEFT JOIN WEPRP ON WEPBS.WEPRSPPID=WEPRP.WEPRPID AND WEPBS.WEPRSRCD=WEPRP.WEPRPCD LEFT JOIN WEPRP ON WEPRP.WEPRPID=WEPRP.WEPRPID LEFT JOIN WEPR ON WEPRP.WEPRPID=WEPR.WEPRPID LEFT JOIN WEPR ON WEPRP.WEPRPID=WEPR.WEPRPID LEFT JOIN WEPR ON WEPRP.WEPRPID=WEPR.WEPRPID WHERE (WEPRP.WEPRPPOS=(SELECT MAX(P.WEPRPPOS) FROM WEPRP AS P LEFT JOIN WEPBS AS S ON P.WEPRPID=S.WEPRSPPID WHERE S.WEPRSRN=WEPBS.WEPRSRN)) AND (WEPRP.WEPRPCD = (SELECT MAX(LOCAL.WEPRPCD) FROM WEPRP AS LOCAL WHERE LOCAL.WEPRPID=WEPRP.WEPRPID AND (LOCAL.WEPRPCD='*' OR LOCAL.WEPRPCD='NA'))) AND (WEPBS.WEPRSRCD = (SELECT MAX(LOCAL.WEPRSRCD) FROM WEPBS AS LOCAL WHERE LOCAL.WEPRSPPID=WEPRP.WEPRPID AND (LOCAL.WEPRSRCD='*' OR LOCAL.WEPRSRCD='NA'))) ORDER BY WEPBS.WEPRSRN ASC	NULL
0.00043	SELECT WENAV.* FROM WENAV WHERE (WENAVNAME = 'main_nav') AND (WENAVRCD = (SELECT MAX(WENAVRCD) FROM WENAV AS local WHERE WENAV.WENAVLFT=local.WENAVLFT AND (WENAVRCD='*' OR WENAVRCD= 'NA'))) ORDER BY WENAVLFT ASC, WENAVRCD DESC	NULL
0.00384	SELECT WEINR.* FROM WEINR WHERE (WEINRCD='NA' OR WEINRCD='*')	NULL
0.00364	SELECT WEIN.* FROM WEIN WHERE (WEINID = 1) FETCH FIRST 1 ROWS ONLY	NULL
0.026	SELECT WEINR.* FROM WEINR WHERE (WEINRIID = 1)	NULL
0.00325	SELECT WEIN.* FROM WEIN WHERE (WEINID = 2) FETCH FIRST 1 ROWS ONLY	NULL
0.00314	SELECT WEINR.* FROM WEINR WHERE (WEINRIID = 2)	NULL
0.00026	SELECT WEIN.* FROM WEIN WHERE (WEINID = 6) FETCH FIRST 1 ROWS ONLY	NULL
0.00028	SELECT WEINR.* FROM WEINR WHERE (WEINRIID = 6)	NULL
0.00023	SELECT WEIN.* FROM WEIN WHERE (WEINID = 7) FETCH FIRST 1 ROWS ONLY	NULL
0.0002	SELECT WEINR.* FROM WEINR WHERE (WEINRIID = 7)	NULL
0.00022	SELECT WEIN.* FROM WEIN WHERE (WEINID = 8) FETCH FIRST 1 ROWS ONLY	NULL
0.00022	SELECT WEINR.* FROM WEINR WHERE (WEINRIID = 8)	NULL
0.00037	SELECT WENAV.* FROM WENAV WHERE (WENAVNAME = 'res_list') AND (WENAVRCD = (SELECT MAX(WENAVRCD) FROM WENAV AS local WHERE WENAV.WENAVLFT=local.WENAVLFT AND (WENAVRCD='*' OR WENAVRCD= 'NA'))) ORDER BY WENAVLFT ASC, WENAVRCD DESC	NULL
0.00444	SELECT WBCN.* FROM WBCN WHERE (WBCNVW IN ('general')) AND (WBCNREG = '*' OR WBCNREG = 'NA') ORDER BY WBCNREG ASC	NULL
0.00362	SELECT WBERG.* FROM WBERG WHERE ((WBERG.WBERGCD = 'NA'))	NULL

For other browsers

Internet Explorer Developer Tools

- Included with IE. Launch via menu or F12 key



IE Developer Tools example

- See all “Alt Text” for page

The screenshot shows a web browser displaying the LISUG Home Page. The browser's address bar shows the URL. The page content includes the LISUG logo, contact information, a list of officers and directors, a registration link, and a section for the month's main session. The IE Developer Tools are open, showing the 'View Alt Text' menu. A green arrow points from the 'View Alt Text' menu item to the alt text of a photo of Jackie Jansen.

alt=The Long Island System Users Group

Long Island System Users Group

57 Ira Road - Suite 101; Syosset, NY 11791-3504

[Click here to Register and Pay using PayPal \(save \\$5\)](#)

2010-2011 Semester

Officers

President, Mike Devine,
CIOhelp Group Inc
EVP, Steven Kurzban,
Maximum Computer
Systems
VP, Charles Kaplan,
Maximum Computer
Systems
Secretary, Bob Hopp,
Enherent Corp
Treasurer, Gerry Matis,
Triangle Systems

Directors

Alan Baisch, VAI
Glenn Ericson, iTech
Solutions Group
Anne Galante, Data
Speed Systems

To Register only

This Month's Main Session
(6:00 PM)

Recent DB2 Web Query Enhancements

alt=Jackie Jansen

LISUG Home Page - Developer Tools

File Find Disable View Outline Images

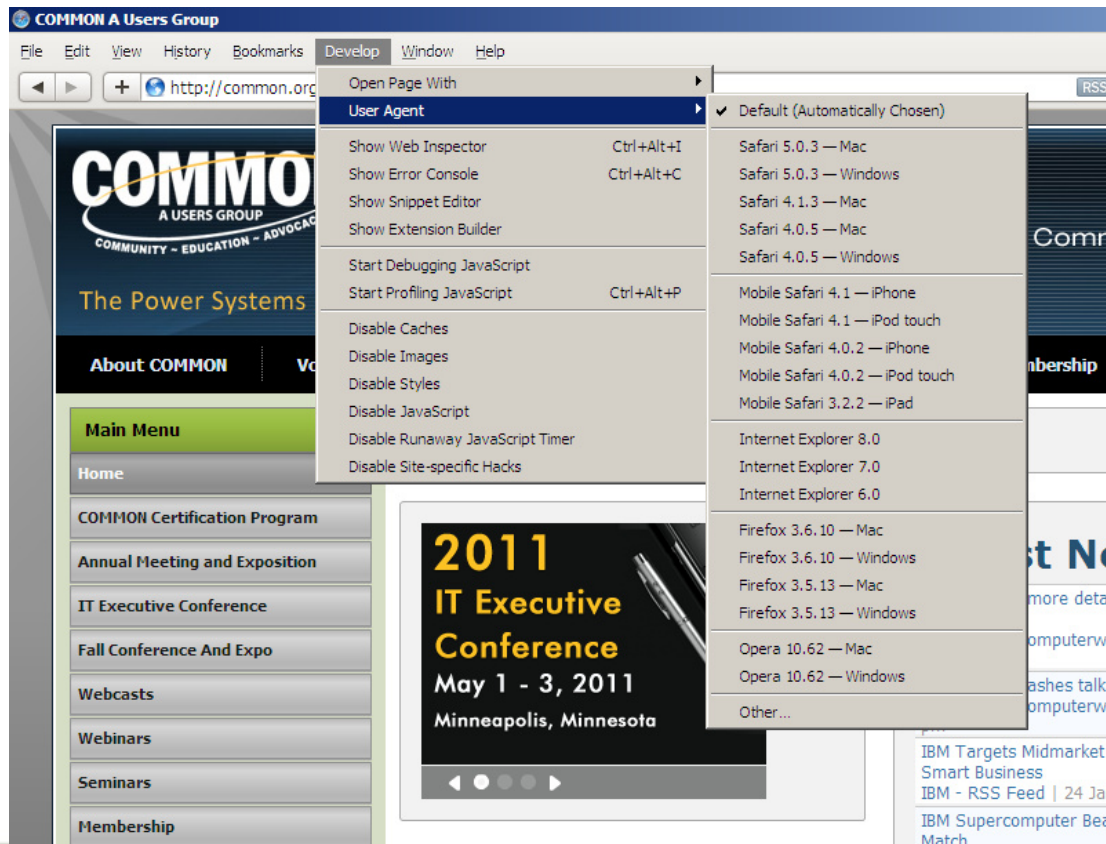
Bro HTI

Disable Images
Show Image Dimensions
Show Image File Sizes
Show Image Paths
✓ View Alt Text
View Image Report

```
<!-- DOCTYPE html F
```

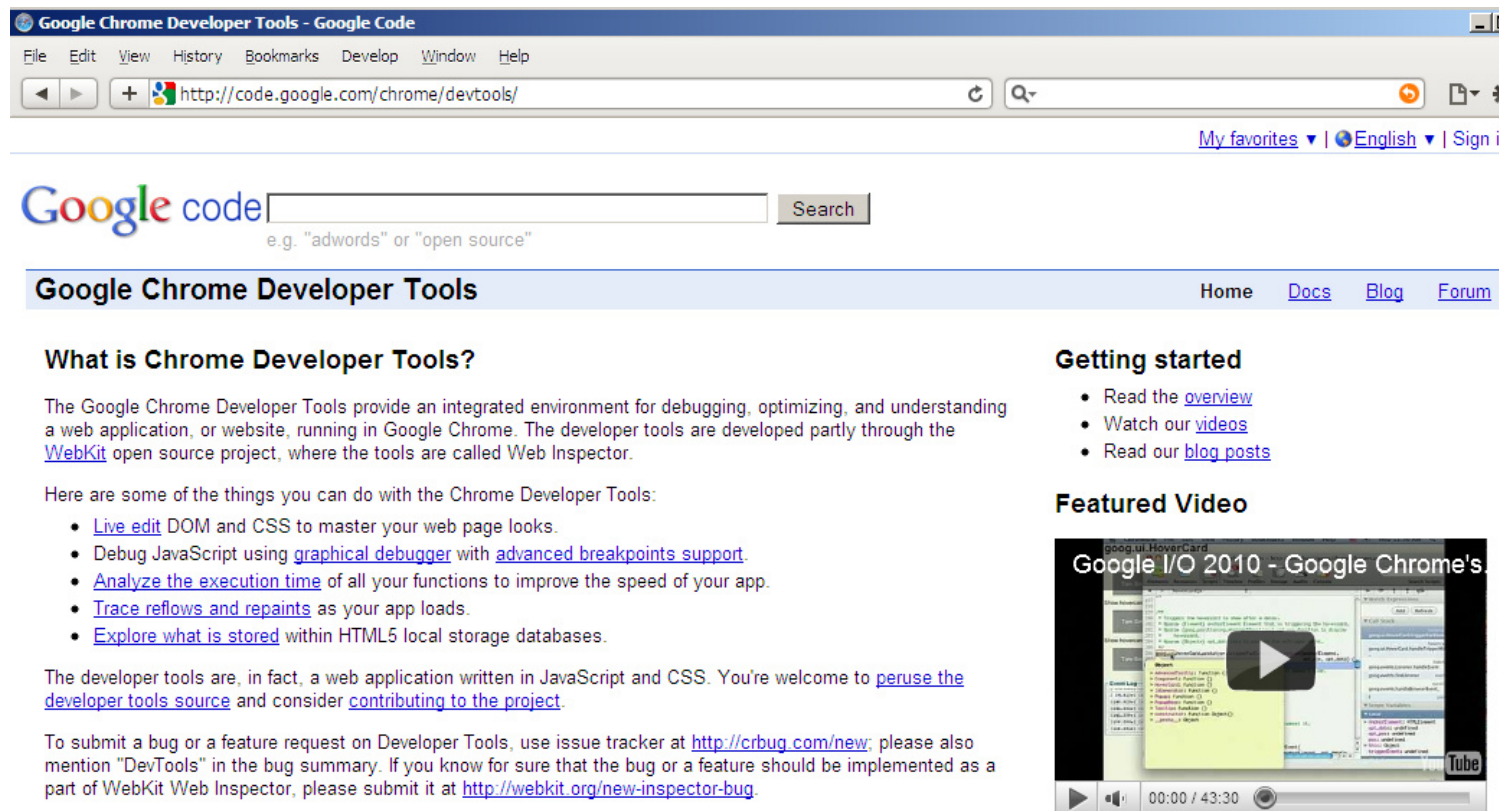
Safari Developer Tools

- <http://developer.apple.com/technologies/safari/developer-tools.html>



Google Chrome Developer Tools

- <http://code.google.com/chrome/devtools/>
- Anyone here have experience with this?



The screenshot shows the Google Code page for Google Chrome Developer Tools. The browser window at the top displays the URL <http://code.google.com/chrome/devtools/>. Below the browser window is a search bar with the text "Google code" and a "Search" button. The main content area has a header "Google Chrome Developer Tools" with links to "Home", "Docs", "Blog", and "Forum". The "What is Chrome Developer Tools?" section explains that the tools provide an integrated environment for debugging, optimizing, and understanding a web application, and that they are developed through the WebKit open source project. It lists several capabilities: live editing DOM and CSS, debugging JavaScript with graphical breakpoints, analyzing execution time, tracing reflows and repaints, and exploring HTML5 local storage. A "Getting started" section links to an overview, videos, and blog posts. A "Featured Video" section shows a video player for "Google I/O 2010 - Google Chrome's".

Google Chrome Developer Tools - Google Code

File Edit View History Bookmarks Develop Window Help

<http://code.google.com/chrome/devtools/>

My favorites | English | Sign in

Google code Search

e.g. "adwords" or "open source"

Google Chrome Developer Tools Home Docs Blog Forum

What is Chrome Developer Tools?

The Google Chrome Developer Tools provide an integrated environment for debugging, optimizing, and understanding a web application, or website, running in Google Chrome. The developer tools are developed partly through the [WebKit](#) open source project, where the tools are called Web Inspector.

Here are some of the things you can do with the Chrome Developer Tools:

- [Live edit](#) DOM and CSS to master your web page looks.
- Debug JavaScript using [graphical debugger](#) with [advanced breakpoints support](#).
- [Analyze the execution time](#) of all your functions to improve the speed of your app.
- [Trace reflows and repaints](#) as your app loads.
- [Explore what is stored](#) within HTML5 local storage databases.

The developer tools are, in fact, a web application written in JavaScript and CSS. You're welcome to [peruse the developer tools source](#) and consider [contributing to the project](#).

To submit a bug or a feature request on Developer Tools, use issue tracker at <http://crbug.com/new>; please also mention "DevTools" in the bug summary. If you know for sure that the bug or a feature should be implemented as a part of WebKit Web Inspector, please submit it at <http://webkit.org/new-inspector-bug>.

Getting started

- Read the [overview](#)
- Watch our [videos](#)
- Read our [blog posts](#)

Featured Video

Google I/O 2010 - Google Chrome's

00:00 / 43:30

Resources

Resources

- **Firefox**
 - **List of add-ons:** <https://addons.mozilla.org/firefox/extensions/web-development/>
 - **Web Developer Toolbar:** <http://chrispederick.com/work/web-developer/>
 - **Live HTTP Headers:** <http://livehttpheaders.mozdev.org/>
 - **Colorzilla:** <https://addons.mozilla.org/firefox/addon/colorzilla/>
 - **Firebug:** <https://addons.mozilla.org/firefox/addon/firebug/>
 - **FirePHP:** <http://firephp.org>
- **Safari**
 - **Safari Developer Tools:**
<http://developer.apple.com/technologies/safari/developer-tools.html>
- **Internet Explorer**
 - **Developer menu is built in**
- **Google Chrome**
 - **Developer Tools:** <http://code.google.com/chrome/devtools/>

Now it's your turn

Share your favorite browser dev tools

- **What tools do you use?**
- **How will you use what you learned today?**

Alan's upcoming appearances

MITEC, OCEAN....

Complete list here:

<http://alanseiden.com/presentations/upcoming>

In New York City? I host the NYC Zend Framework Meetup

<http://www.meetup.com/ZendFramework-NYCmetro/>

Contact | Get tips

Alan Seiden

201-327-9400

aseiden@sbsusa.com

<http://alanseiden.com>

Free tips newsletter:

<http://alanseiden.com/tips>

Strategic Business Systems, Inc,

17 S. Franklin Tpk

Ramsey, NJ, 07446

Twitter: @alanseiden

