
Browser tools that make web development easier



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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

Client-side development tools

- **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?

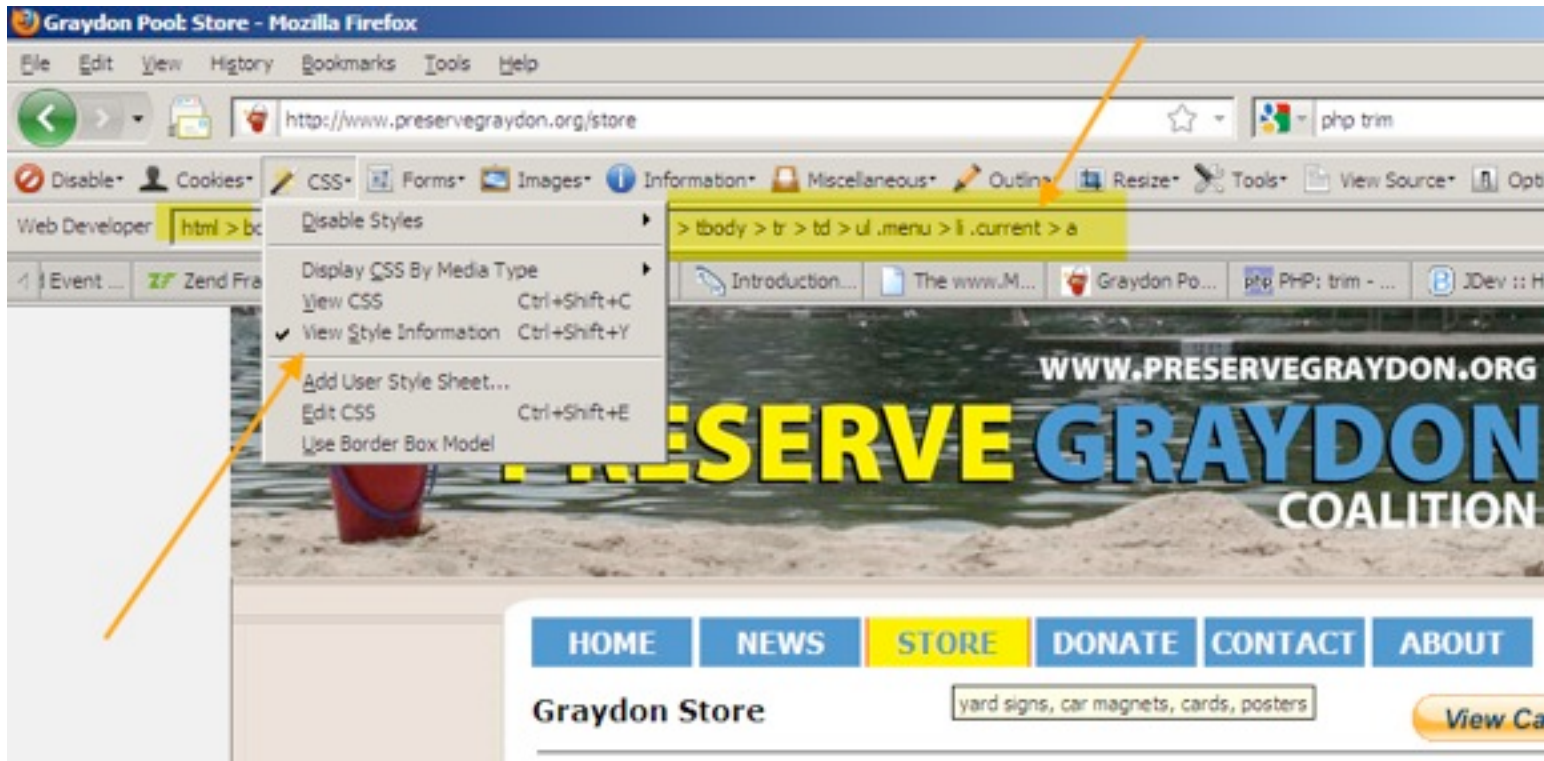
- **Favored by developers**
- **Highly extensible add-on system**
 - Anyone can create an add-on
- **To see all Firefox add-ons for web developers:**
 - <https://addons.mozilla.org/firefox/extensions/web-development/>

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

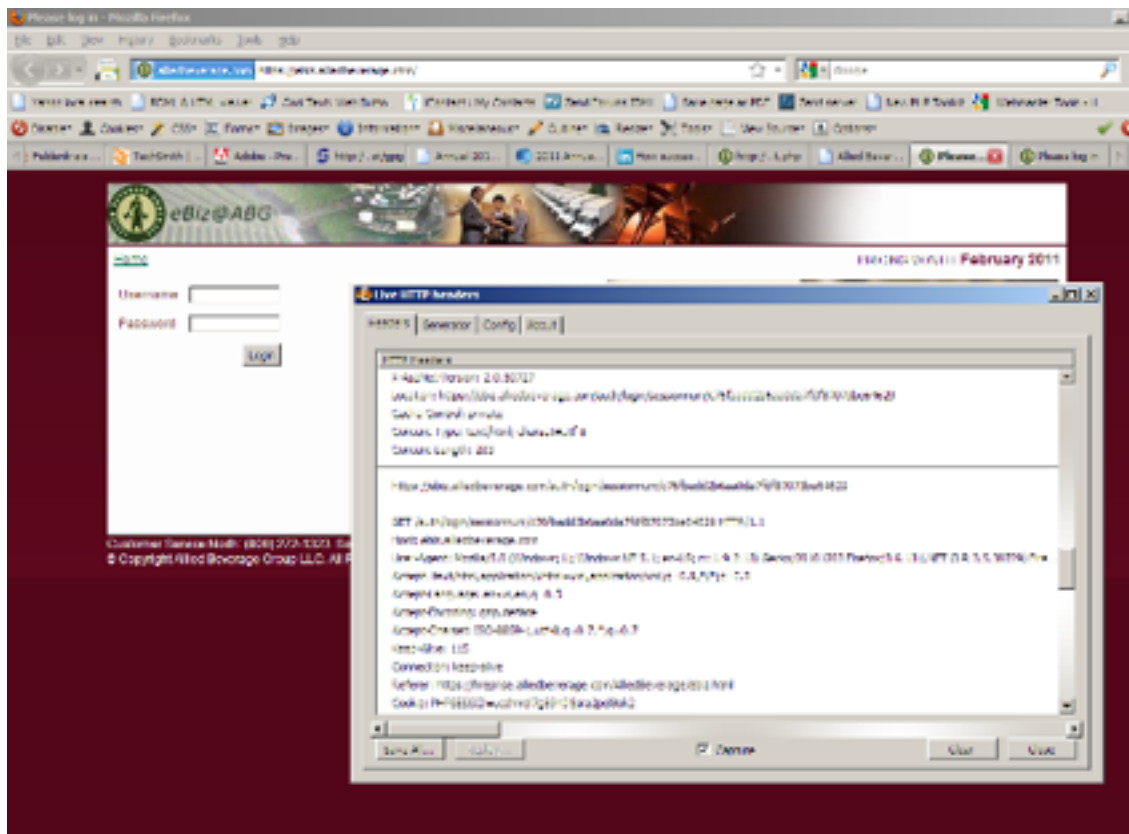


Live HTTP Headers

- **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 red callout boxes from the Colorzilla tool. Box 1 points to the 'eye dropper' icon in the browser's status bar. Box 2 points to the blue text 'NEMUG' in the header. Box 3 points to the color code 'R: 2, G: 65, B: 145' in the status bar, which corresponds to the blue in the NEMUG logo. The website content includes a navigation menu on the left, a header with the NEMUG logo and name, and a main section for the 'Next Regular Meeting - February 17, 2010' with details on date, time, place, topic, speaker, and dinner.

1. Click "eye dropper"

2. Hover mouse/cross-hairs over color you want

3. See color codes

NEMUG
The New England Midrange Users Group

Home | Members | Speaker Info | Directions | Application | From the President | Speaker Handouts | Contact an Officer

Next Regular Meeting - February 17, 2010

The New England Mid-Range Users Group is organized as a resource for users of IBM System i, i Series and AS/400 systems. If you were looking for the New England M-Users Group (NEMUGS) goto www.nemug.org

Date: Wednesday, February 17, 2010
Time: Sign In 5:15 p.m.; Speaker 6:00-7:00 p.m., Dinner to Follow
Place: Ramada Inn, 940 Fall River Avenue, Seekonk, MA
Topic: PHP Case Study on IBM i: Moving to the Web with PHP
Speaker: Alan Seiden, Strategic Business Systems
Dinner: Baked Ham with Raisin Sauce or Baked Stuffed Breast of Chicken, also included are soup, salad, potato

R.S.V.P. to Aurora Technologies, P.O. Box 100, Seekonk, MA 01969, phone (401) 765-3721. E-mail: alan@seiden.com

Include the information listed below. We must receive your reply no later than Friday, February 12, 2010

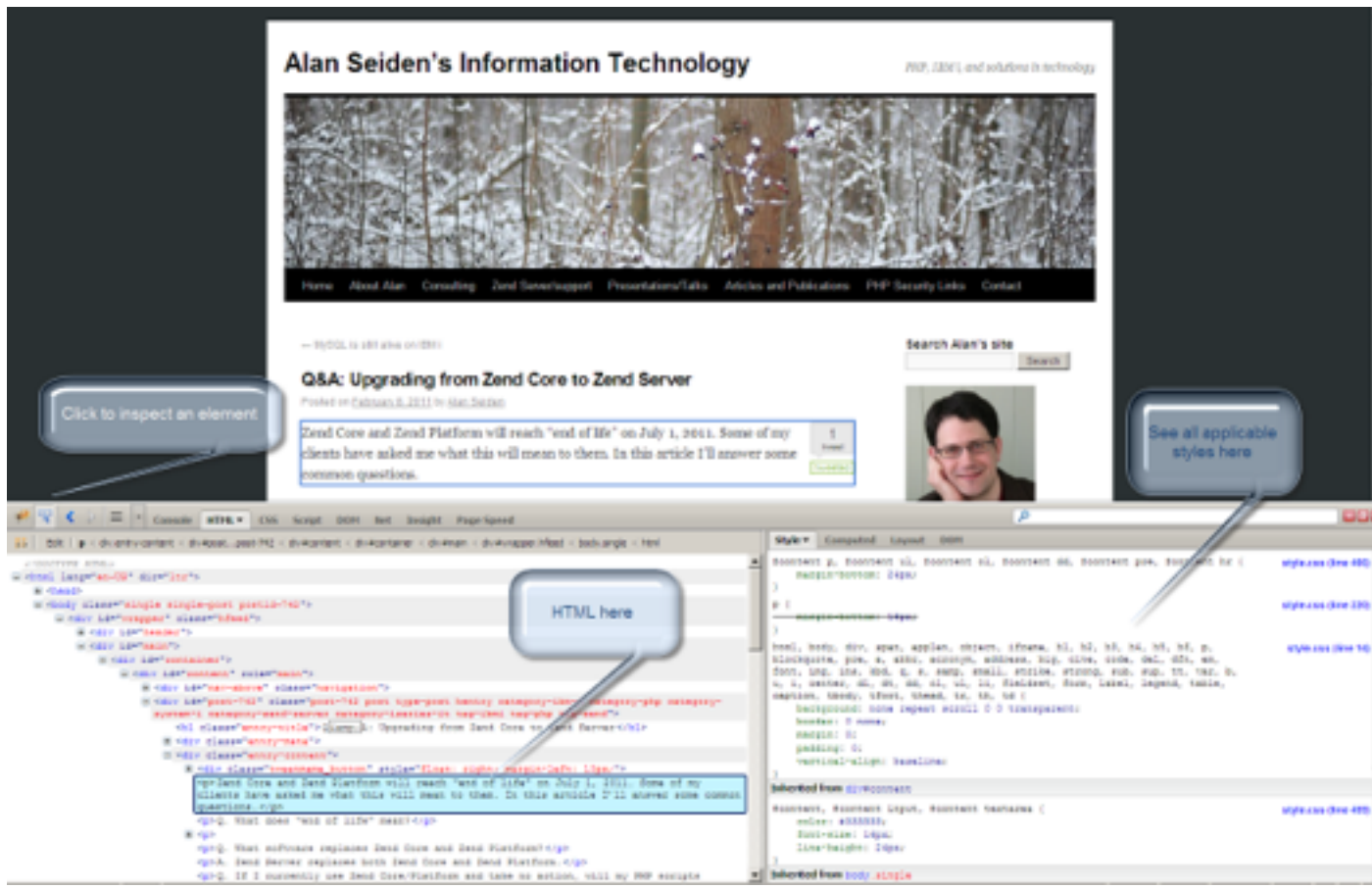
New York: Mon 00:36 | R: 2, G: 65, B: 145 | #024191 | ΔX: 818, ΔY: 21 | img

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



Firebug in detail

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

The screenshot shows a web browser displaying a blog post titled "Q&A: Upgrading from Zend Core to Zend Server". The post is dated February 8, 2011, by Alan Seiden. The content of the post is highlighted in yellow and blue. The right sidebar contains a search bar, a profile picture of Alan Seiden, and a "Receive updates via email" form. The bottom of the image shows the Firebug developer tool interface. The "DOM" panel on the left shows the HTML structure of the page, with the main content area selected. The "Style" panel on the right shows the CSS rules for the selected element, including a "margin" property set to "20px 20px 20px 20px". The "Layout" panel on the right shows a visual representation of the element's box model, with dimensions of 640 x 72 pixels.

... MySQL is still alive on RHEL

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.

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

Receive updates via email

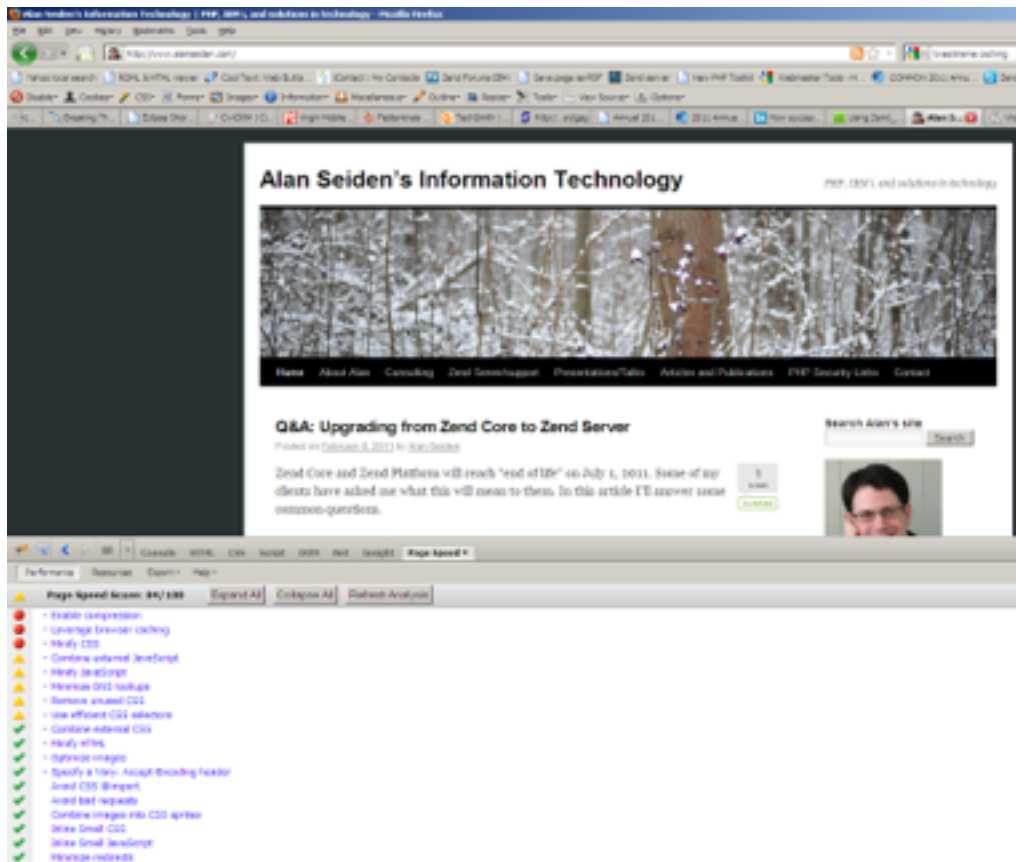
Enter your email address:

Subscribe

```
<!DOCTYPE HTML>
<html lang="en-US" dir="ltr">
<head>
<body class="single single-post postid=741">
<div id="wrapper" class="clearfix">
<div id="header">
<div id="main">
<div id="container">
<div id="content" class="main">
<div id="nav-above" class="navigation">
<div id="post-741" class="post-741 post-type-post hentry category-id=9 category-php category-system-1 category-zend-server category-zend-server-is-top-level top-pg top-zend">
<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="moremore-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>A.</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
```

Firebug in detail (Pagespeed)

- Includes Google's PageSpeed diagnostic tool



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 the LISUG Home Page in Internet Explorer. The page header includes the LISUG logo and contact information: "57 Ira Road - Suite 101; Syosset, NY 11791-3504". A green arrow points to the alt text "alt=The Long Island System Users Group" for the logo. The main content area features a blue banner for "This Month's Main Session (6:00 PM)" and a red banner for "Recent DB2 Web Query Enhancements". A green arrow points to the alt text "alt=Jackie Jansen" for a photo of Jackie Jansen. The right sidebar lists "Officers" and "Directors". The IE Developer Tools window is open, showing the "View Alt Text" menu option selected. The HTML code for the page is visible in the background.

alt=The Long Island System Users Group

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

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

[To Register only](#)

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

Recent DB2 Web Query Enhancements

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 Guard Systems

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

```
<html>  
<head>  
<frameset rows="85,*" border="1">  
<frame src="letterhead.htm">  
<frameset cols="19%,81%">  
<frame src="click.htm">  
<frame name="MAIN" src="main.htm">  
</frameset>  
</head>  
<!-- DOCTYPE html -->  
<html xmlns="http://www.w3.org/1999/xhtml">
```

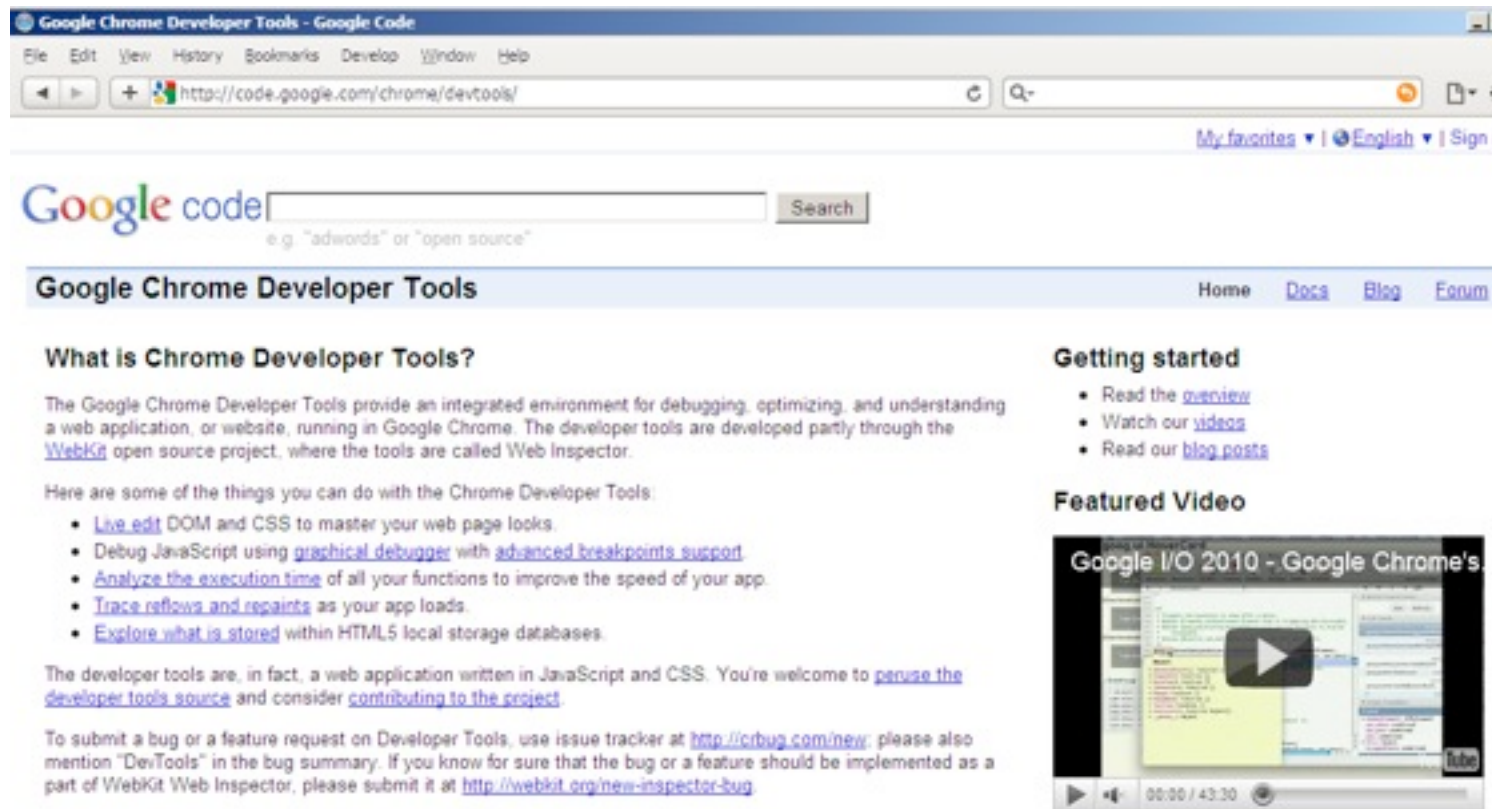
Safari Developer Tools

- <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 a web browser window with the address bar displaying <http://code.google.com/chrome/devtools/>. The page title is "Google Chrome Developer Tools - Google Code". The main content area features the "Google code" logo and a search bar. Below this, the heading "Google Chrome Developer Tools" is followed by navigation links: Home, Docs, Blog, and Forum. The page is divided into two columns. The left column, titled "What is Chrome Developer Tools?", contains a paragraph explaining the tools' purpose, a list of capabilities (Live edit DOM and CSS, Debug JavaScript, Analyze execution time, Trace reflows and repaints, Explore what is stored), and information on how to submit bugs or feature requests. The right column, titled "Getting started", lists links to the overview, videos, and blog posts. Below this is a "Featured Video" section showing 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?**

Contact

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