

HTML5 and CSS3

Understanding the Emerging Web

MOLLY E. HOLZSCHLAG | WEB EVANGELIST, DEVELOPER RELATIONS | OPERA SOFTWARE



TOPIC

THE BIG PICTURE

A.K.A. HTML5 IS NOT AN UMBRELLA

DATE

6 OCTOBER 2010

EVENT

#FOWA LONDON

**HTML5 IS A VOCABULARY AND
SET OF APPLICATION
PROGRAMMING INTERFACES
THAT MAKE UP A CORE
DECLARATIVE LANGUAGE FOR
WEB SITES AND APPLICATIONS.**

FROM TWITTER: EXACTLY 140 CHARACTERS FTW!

Who?

- WHAT-WG
- W3C
- Google
- Microsoft
- Mozilla
- Opera
- WebKit

What?

- 5th major revision to HTML
- Evolving specification
- Rapidly changing

When?

- Yesterday
- Today
- Tomorrow

Where?

- Desktop Web browsers
- Mobile browsers
- Alternative user agents

Why?

- To advance the Web's core language
- To acknowledge and address a rich, interactive, forward-thinking Web
- To expand current practices for sites & apps
- To improve user, developer and implementor experiences
- To re-address backward-compatibility

How?

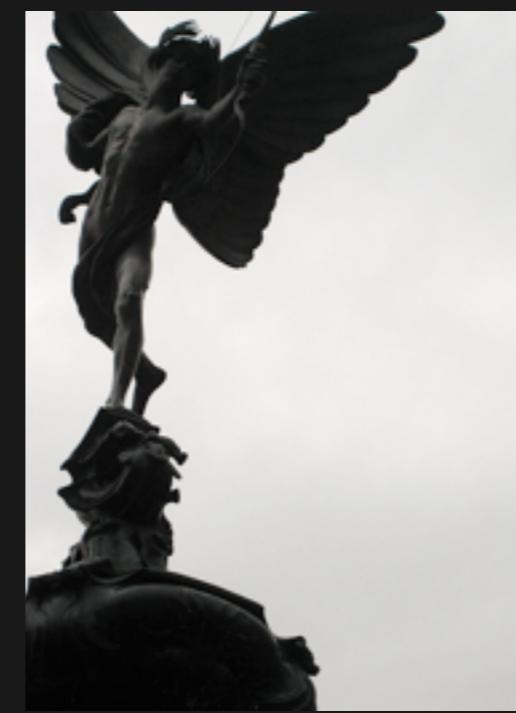
- Replacement of prior HTML versions
- Replacement of XHTML 1.0
- Replacement of DOM2HTML

**“HTML5 TRIES TO BE THE BEST OF BOTH WORLDS:
A BETTER HTML BUT A FORWARD LOOKING, WEB-
CENTRIC HTML THAT KNOWS ABOUT THE WEB AND
ITS QUIRKS.**

**IF HTML HAD BEEN PROPERLY SPECIFIED AND
IMPLEMENTED IN THE FIRST PLACE THEN HTML5
WOULD BE CONSIDERED AN UPGRADE.**

**AS IT STANDS, HTML5 IS A REWRITE. THAT
DIFFERENCE IS PRETTY FUCKING FUNDAMENTAL.”**

- DEAN EDWARDS MEMBER WHAT-WG, AUTHOR OF IE SCRIPT LIBRARY



TOPIC

HTML5 DESIGN PRINCIPLES

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Support Existing Content

- ✿ Web was meant to be backward compatible
- ✿ Little thought to visual design
- ✿ Rely on graceful degradation
- ✿ Use progressive enhancement where possible
- ✿ Avoid UA-string “sniffing”

Ensure Interoperability

- Interoperability is the core ideal of the Web
- We are very far from this core ideal
- Vendor lock-in and proprietary methods cause interop problems
- “Web Standards” movement exists to advocate core ideals

Define UA Behavior

- ❖ Solve problems from real-world author issues
- ❖ Explicitly define how a given element, attribute or behavior acts
- ❖ Specification is largely *for UA implementors*
- ❖ Best practices emerge from environment

Better Handle Errors

- ❖ Explicit specification for error handling
- ❖ Does not support “draconian” error handling ideologies
- ❖ Errors should be consistent across UAs
- ❖ Errors should be logical

Evolve, Not Recreate

- ❖ Take critical mass of techniques
- ❖ Acknowledge and include what works
- ❖ Build on real-world use and test cases
- ❖ Avoid reinvention, evolve what we already have

**“THE WORK ON HTML5 IS ONE OF
THE LARGEST AND MOST
IMPORTANT ENDEAVOURS IN THE
HISTORY OF WEB STANDARDS.”**

**- LACHLAN HUNT
MEMBER, WHAT-WG,
W3C HTML 5 WORKING GROUP
OPERA SOFTWARE ASA**



TOPIC

HTML5 SYNTAX STRUCTURAL INTEGRITY

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<!DOCTYPE HTML>

YE OL' DOCTYPE

DOCTYPE Continued

- ➊ SGML required a document type definition (DTD)
- ➋ HTML5 has no DTD
- ➌ No other purpose for a DOCTYPE now other than to switch browsers to standards (aka ‘compliance’) mode
- ➍ Is case *insensitive* in the HTML syntax

Notation & MIME

- HTML5 uses syntax that is compatible with both HTML 4 and XHTML 1.0
- HTML syntax is served using **text/html**
- HTML5 can use XML syntax, as with XHTML 1.0
- If XML syntax, then appropriate MIME types (either **application/xhtml+xml** or **application/xml**) and namespace

```
<!DOCTYPE HTML>
<HTML>
  <HEAD>
    <META CHARSET="UTF-8">
    <TITLE>EXAMPLE DOCUMENT</TITLE>
  </HEAD>
  <BODY>
    <P>EXAMPLE PARAGRAPH
  </BODY>
</HTML>
```

NOTATION: HTML

```
<?xml version="1.0" encoding="UTF-8"?>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Example document</title>
  </head>
  <body>
    <p>Example paragraph</p>
  </body>
</html>
```

NOTATION: XML

**DOCTYPE DECLARATION
NOT REQUIRED IN HTML5
XML NOTATION**

Character Encoding

- ✿ Server headers: HTTP **Content-Type**
- ✿ Unicode Byte Order Mark (BOM) at the start of the file
- ✿ Meta element within the first 512 bytes of the document with charset attribute:

<meta charset="UTF-8">

```
<!doctype html>
<title>SVG in text/html</title>
<p>A red circle:
<svg> <circle r="50" cx="50" cy="50"
fill="red"/> </svg>
</p>
</html>
```

USE OF SVG AS TEXT/HTML



TOPIC

HTML5 SEMANTICS

A.K.A. - THE MEANING OF THINGS

DATE

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New Elements: Structure

- ❖ **section** represents a generic document or application section
- ❖ **article** represents an independent piece of content of a document
- ❖ **aside** represents a piece of content that is only slightly related to the rest of the page
- ❖ **header** represents the header of a section.
- ❖ **footer** represents a footer for a section
- ❖ **nav** represents a part of the document used for navigation

New Elements: Structure

- ✿ **mark** represents a run of marked text
- ✿ **meter** represents a measurement, such as disk usage
- ✿ **progress** represents a completion of a task
- ✿ **time** represents a date and/or time.
- ✿ **command** represents a command the user can invoke
- ✿ **datagrid** represents an interactive representation of a tree, list or tabular data.



<HEADER>

Home About Contact

<NAV>

Italics Kittehs<ARTICLE>

Posted 29 May 2008



Hungry kittens

[42 Comments](#) | [Permalink](#)

Rating:

© 2008 Cat Lovr. "Astrophy" cat logo created by and stolen from Hixie



Archives

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[August 2007](#)

<ASIDE>

<FOOTER>

New Link Relations

New for <link> (within the <head> portion of the document)

```
<link rel='alternate' type="application/rss+xml"
      href="http://myblog.com/feed" />

<link rel='icon' href="/favicon.ico" />

<link rel='pingback' href="http://myblog.com/xmlrpc.php">

<link rel='prefetch' href="http://myblog.com/main.php">
```

New for <a> (in any portion of body)

```
<a rel='archives' href="http://myblog.com/archives">old
posts</a>

<a rel='external' href="http://notmysite.com">tutorial</a>

<a rel='license' href="http://www.apache.org/licenses/
LICENSE-2.0">license</a>

<a rel='nofollow' href="http://notmysite.com/
sample">wannabe</a>

<a rel='tag' href="http://myblog.com/category/games">games
posts</a>
```

Integration of Web Forms 2.0

- ❖ Adding rich features to forms
- ❖ Many features rely on browser, not scripting
- ❖ Some challenges with accessibility

Forms Example: autofocus

IN XHTML AND PRE HTML5:

```
<form action="" method="get">  
  
<p><label>Search: <input name=search type="text" id="search">  
</label></p>  
  
<script> document.getElementById('search').focus() </script>  
  <!-- the rest of the form -->  
  
</form>
```

IN HTML 5:

```
<form><p><label>Search: <input name=search autofocus></label></p>  
  <!-- the rest of the form -->  
</form>
```

Forms Example: required

VALIDATES A FORM INPUT (WITHOUT SCRIPT)

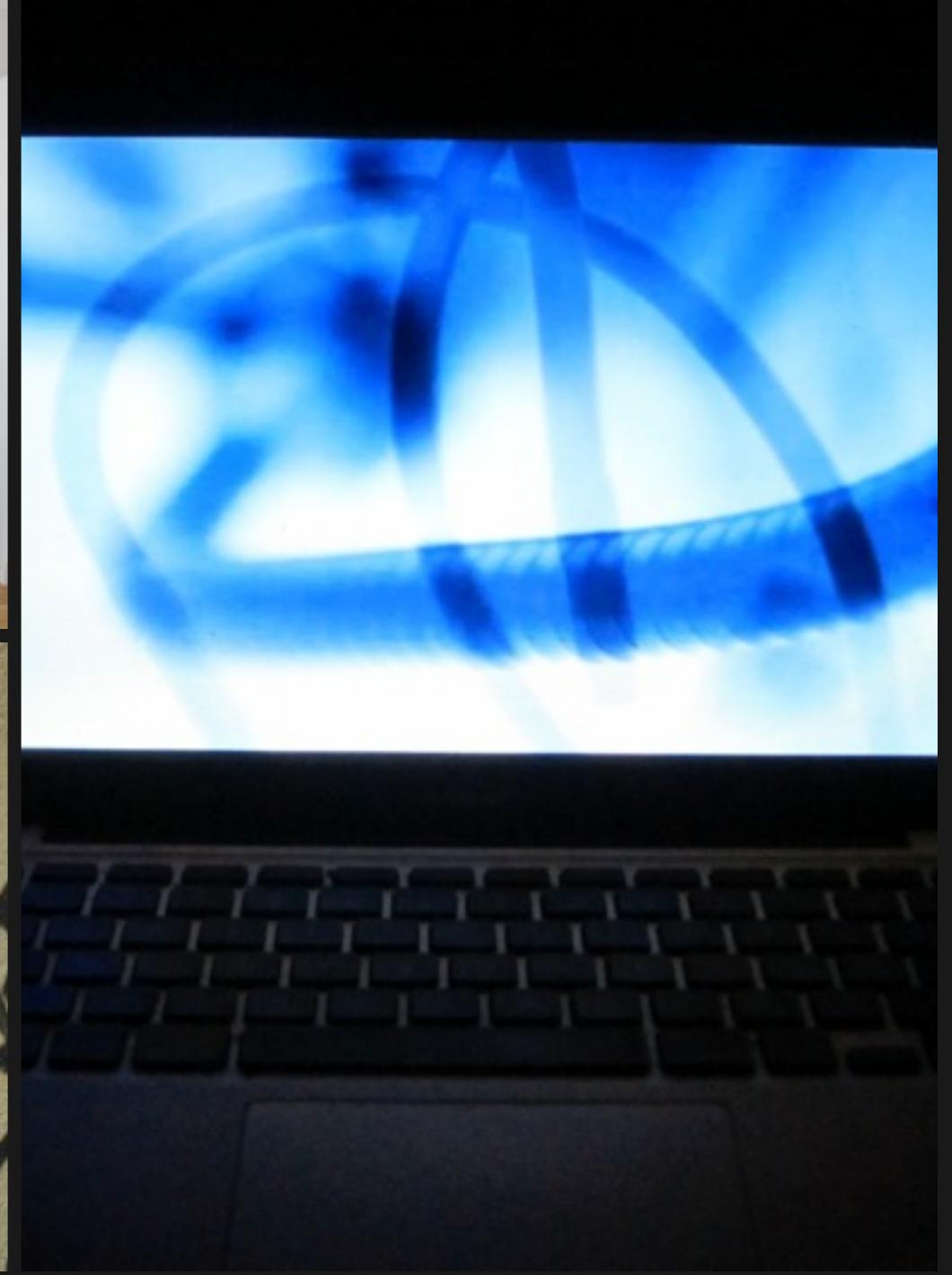
```
<form>  
<p><label>Name: <input name=name required></label></p>  
<p><label>E-mail: <input name="email" type="email" required></label></p>  
<p><label>URL: <input name="url" type="url"></label></p>  
<p><label>Comment: <textarea name="comment" required></textarea></p>  
<p><input type="submit" value="Submit"></p>  
</form>
```

“THIS MAY LOOK RIDICULOUS (2003 TO 2022 IS 19 YEARS!), BUT IT’S WORTH CONSIDERING HOW THIS COMPARES TO HTML4, DOM2 HTML, AND XHTML1, THE THREE SPECIFICATIONS THAT HTML5 IS INTENDED TO UPDATE AND REPLACE.”

- IAN “HIXIE” HICKSON RESEARCH AND DEVELOPMENT, GOOGLE; EDITOR HTML5 SPEC

“IMPLEMENTATION TRUMPS SPECIFICATION”

- ME



TOPIC

HTML5 MEDIA THE NEW BATTLEGROUND

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Embedded Media in HTML5

- ★ **canvas** The HTML5 drawing API
- ★ **video** Embedded video - no reliance on plug-ins
- ★ **audio** Embedded audio - no plug-ins

We have at least two major hurdles to deal with in terms of HTML5 Media:

- ★ Accessibility
- ★ Open codec solutions

audio:

```
<audio src="song.mp3" controls></audio>
```

video:

```
<video src='movie.mp4' autoplay controls></video>
```

```
<video src='movie.ogg' controls ></video>
```

AUDIO AND VIDEO

```
<canvas id="canvas" width="838" height="220"></canvas>

<script>

  var canvasContext = document.getElementById
("canvas").getContext("2d");

  canvasContext.fillRect(250, 25, 150, 100);

  canvasContext.beginPath();

  canvasContext.arc(450, 110, 100, Math.PI * 1/2, Math.PI * 3/2);

  canvasContext.lineWidth = 15;

  canvasContext.lineCap = 'round';

  canvasContext.strokeStyle = 'rgba(255, 127, 0, 0.5)';

  canvasContext.stroke();

</script>
```

CANVAS



TOPIC

HTML5 APIs POWER TO THE PEOPLE

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HTML5 API Examples

- ★ **applicationCache** Enables offline applications
- ★ **sessionStorage** Client-side data storage (per session)
- ★ **localStorage** Client-side data storage (persistent across sessions, uses client-side SQL storage)
- ★ Native drag and drop
- ★ Native **getElementsByClassName**

```
<html manifest="cache-manifest">  
window.applicationCache.addEventListener('checking', updateCacheStatus,  
false);
```

```
CACHE MANIFEST  
# version 1  
CACHE:  
/html5/src/refresh.png  
/html5/src/logic.js  
/html5/src/style.css  
/html5/src/background.png
```

APPLICATION CACHE API

```
textarea.addEventListener('keyup', function () {
    window.localStorage['value'] = area.value;
    window.localStorage['timestamp'] = (new Date
()).getTime();
}, false);
textarea.value = window.localStorage['value'];
```

STORAGE

```
document.addEventListener('dragstart', function  
(event) {  
    event.dataTransfer.setData('text', 'Customized  
text');  
    event.dataTransfer.effectAllowed = 'copy';  
, false);
```

NATIVE DRAG & DROP

```
if (window.webkitNotifications.checkPermission() ==  
0) {  
    // you can pass any url as a parameter  
    window.webkitNotifications.createNotification  
(tweet.picture, tweet.title,  
     tweet.text).show();  
} else {  
    window.webkitNotifications.requestPermission();  
}
```

NOTIFICATIONS

`main.js`

```
var worker = new Worker('extra_work.js');

worker.onmessage = function (event) { alert
(event.data); };

extra_work.js:

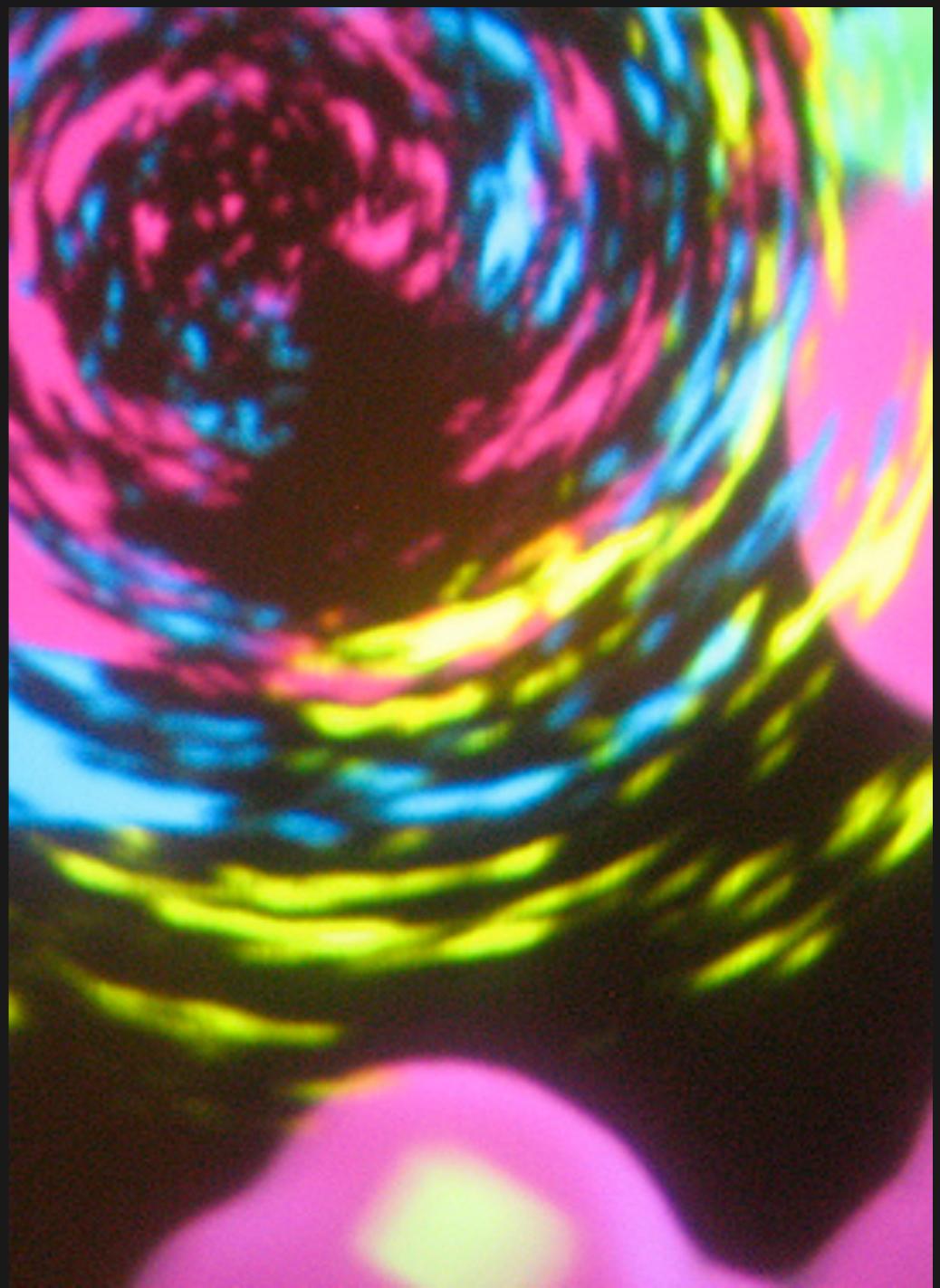
// do some work; when done post message.

postMessage(some_data);
```

WEB WORKERS

```
var socket = new WebSocket(location);
socket.onopen = function(event) {
    socket.postMessage("Hello, WebSocket");
}
socket.onmessage = function(event) { alert(event.data); }
socket.onclose = function(event) { alert("closed"); }
```

WEB SOCKETS



TOPIC

RELATED WORK

STUFF THAT'S LIKE HTML5, BUT NOT

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NOT HTML5

CSS3: The presentation layer. Transforms, transitions (gradients) and other “cool” CSS3 features are often mistaken as HTML5. Please do not make this mistake!

SVG: Even when used in an HTML5 document, SVG is still SVG.

JavaScript: Even when used in <canvas>, JavaScript is still JavaScript.

jQuery: Awesome. But not HTML5. Also not JavaScript the actual scripting language (ECMAScript).

Actual codec formats: WebM, Ogg, H.264 are not HTML5 but used with HTML5 video/audio

Related Topics

Geolocation - allowing script access to geolocation data

Native JSON support

XMLHttpRequest (level 1 and 2)

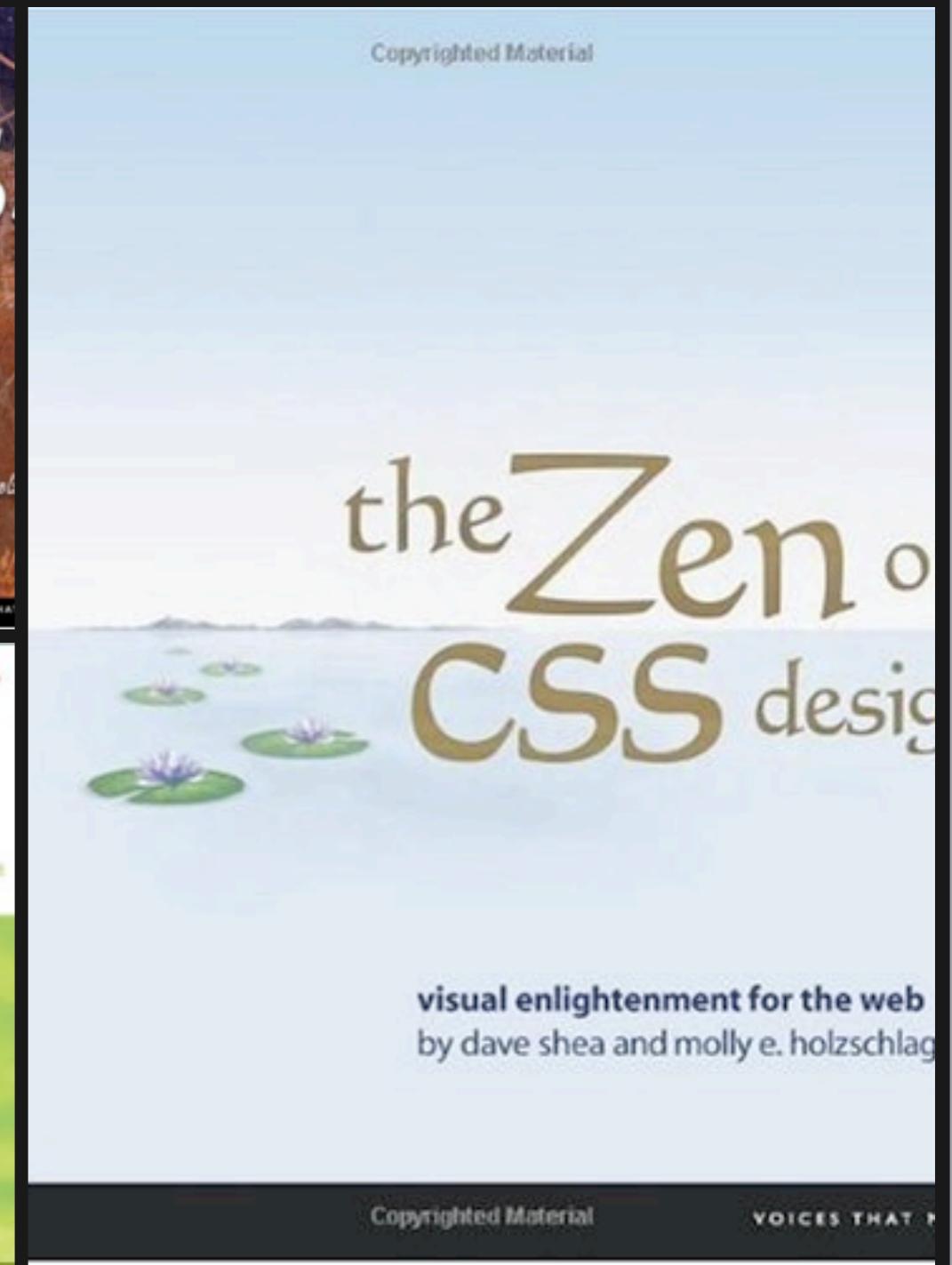
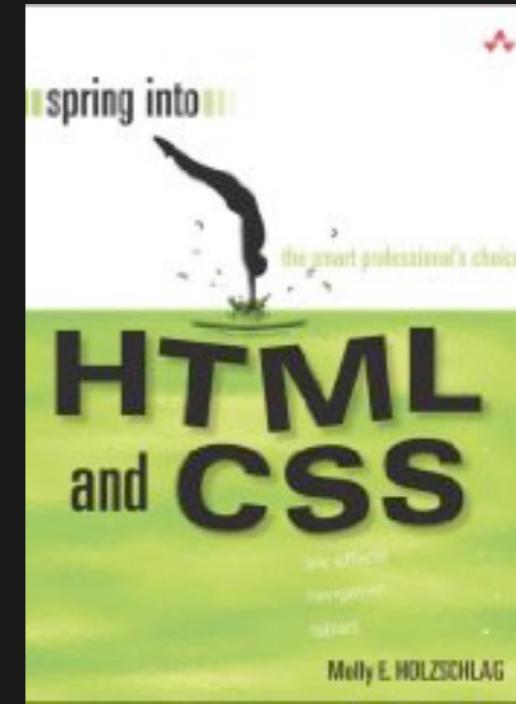
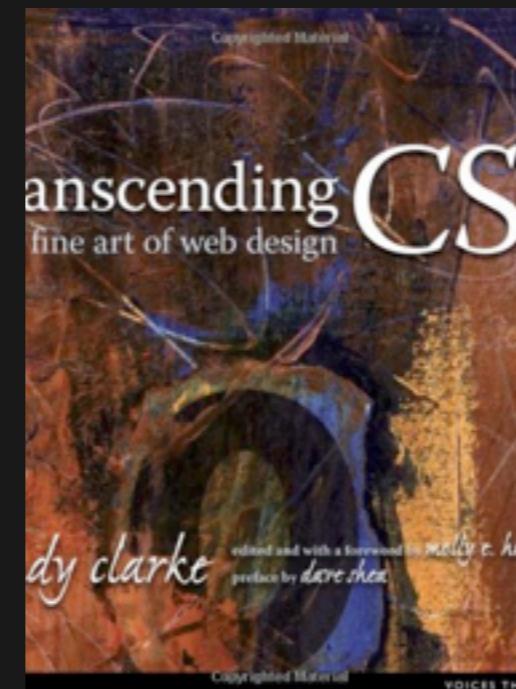
Device-related APIs (via WAC- Wholesale Applications Community): Allow scripting access to data such as remaining battery power, bandwidth, processor speed and so on

```
if (navigator.geolocation) {
  navigator.geolocation.getCurrentPosition(function
(position) {
  var lat = position.coords.latitude;
  var lng = position.coords.longitude;
  map.setCenter(new GLatLng(lat, lng), 13);
  map.addOverlay(new GMarker(new GLatLng(lat,
lng)));
});
}
```

GEOLOCATION

```
<ul id="tree1"
    role="tree"
    tabindex="0"
    aria-labelledby="label_1">
  <li role="treeitem" tabindex="-1" aria-
expanded="true">Fruits</li>
  <li role="group">
    <ul>
      <li role="treeitem" tabindex="-1">Oranges</li>
      <li role="treeitem" tabindex="-1">Pineapples</li>
    </ul>
  </li>
</ul>
```

WAI-ARIA



TOPIC

CSS3 ADVANCING DESIGN AND SITE MANAGEMENT

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CSS Working Group Could Lose Charter End of 2010

“Today the CSS working group failed to deliver a completed CSS 2.1 recommendation. The working group will either be rechartered to continue focus on CSS advancement, or reorganized in some other way.”

-FAKE NEWS NETWORK

Implementation Trumps

- ❖ While CSS 2.1 isn't even a completed specification (a decade later) we use it regularly as it is implemented to near completion in all common current browsers
- ❖ CSS3 implementations are taking off like mad in Safari, Opera, Firefox and Chrome.
- ❖ Most standards evangelists advocate progressing despite this, and sending a lesser experience to IE via Conditional Comments, scripting solutions, or

CSS3 Modules

- Advanced layout
- Aural Style Sheets
- Backgrounds and Borders
- Basic User Interfaces
- Box Model
- Cascading and Inheritance
- Color
- Fonts
- Generated Content for Paged Media
- Generated and Replaced Content
- Hyperlink Presentation
- Line Layout
- Lists
- Maths
- Multi Column Layout
- Namespaces
- Object Model
- Paged Media
- Positioning
- Presentation Levels
- Reader Media Types
- Ruby
- Scoping
- Speech
- Syntax
- Tables
- Text
- Text Layout
- Values and Units
- Web Fonts

New Selectors

```
input:enabled { background: #999; } /* makes  
enabled inputs dark grey */
```

```
input:disabled { background: #ccc; } /* makes  
disabled inputs light grey */
```

```
input:checked { background: #39c; } /* makes  
checked inputs blue */
```

```
#menu li:last-child { border-bottom: none; } /* removes the  
bottom border on the last li */
```

```
tr:nth-child(odd) { color:blue; } /* makes every other  
table row blue */
```

Multiple Background Images

```
.box {  
background-image: url(top-left.gif), url(topright.  
gif), url(bottom-left.gif), url(bottomright.  
gif);  
background-repeat: no-repeat, no-repeat, norepeat,  
no-repeat;  
background-position: top left, top right, bottom  
left, bottom right;  
}
```

Border Radius

```
.box {border-radius: 2em;}
```

Result!

My Rounded Corner Box

This is my rounded corner box. Isn't it spiffing! I think it's the best rounded corner box in the world. I mean, look at those corners. How round are they? Now take a look at the mark-up. That's right, no extraneous div's. Just pure HTML goodness. Sexy huh? I bet you're wondering how I did that? Well it's easy with CSS 3. You simply use multiple background images. The sad part is, multiple background images are only supported by Safari at the moment! Still I hope it wont be too long until other browser manufacturers cotton on.

Text Shadow

```
h1 {text-shadow: 4px 4px 5px #999;}
```

This is my heading

Box Shadow

```
h1 {box-shadow: 4px 4px 8px #444;}
```

Rounded Corners & Box Shadow

My Rounded Corner Box

This is my rounded corner box. Isn't it spiffing! I think it's the best rounded corner box in the world. I mean, look at those corners. How round are they? Now take a look at the mark-up. That's right, no extraneous div's. Just pure HTML goodness. Sexy huh? I bet you're wondering how I did that? Well it's easy with CSS 3. You simply use multiple background images. The sad part is, multiple background images are only supported by Safari at the moment! Still I hope it wont be too long until other browser manufacturers cotton on.

Multi-Column Layout

```
#content {column-count: 2; column-gap: 2em;}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Nullam facilisis sapien ut ante. Curabitur pretium, risus sed tristique porttitor, nisl urna feugiat sem, quis laoreet velit dui in est. In hac habitasse platea dictumst. In a ligula. Donec dapibus. Praesent eu nulla ut

tortor facilisis volutpat. Duis aliquet, elit et aliquam vehicula, est nibh pulvinar magna, non venenatis libero nisi sit amet mauris. Quisque volutpat mi vel dolor. Ut vitae mauris. Mauris felis enim, rhoncus in, feugiat posuere, venenatis ut, lorem.

[More](#)

Awesomeness Evolved

```
.row:nth-child(even) {  
    background: #dde;  
}  
.row:nth-child(odd) {  
    background: white;  
}
```

Media Queries

```
@media handheld and (max-width: 480px),  
      screen and (max-device-width: 480px)  
{ /* begin styles */  
#content p:before {content: "you got style, baby"}  
    div.sidebar, div.content {width: auto; margin:  
0;}  
/*end styles*/}
```

Real Fonts, At Last

```
@font-face {  
    font-family: 'Junction';  
    src: url(Junction02.otf);  
}  
  
@font-face {  
    font-family: 'LeagueGothic';  
    src: url(LeagueGothic.otf);  
}  
  
@font-face {  
    font-family: 'GG250';  
    src: url(General250.otf);  
}  
  
header {  
    font-family: 'LeagueGothic';  
}
```

A newspaper layout using CSS3 and HTML5

http://devfiles.myopera.com/articles/751/newspaper.html

Google

Sunday
01 Sept 2009 25¢

The Daily Standard

Issue 35, Volume 16

The latest mock-up, style and techniques

Web Fonts come to Opera

David Storey



HTML5 structural markup

James Dean

 ONSECTETUER ANTE ERAT SIT AMET,
Integer adipiscing elit. Integer ac pede.
Sed consectetur. Phasellus ac ipsum
quis mauris dapibus auctor. Proin quis lorem.
Vivamus mollis, purus et porttitor euismod, est
ante tincidunt ipsum, elementum ultrices metus
nibh nec orci. Maecenas bibendum magna non
turpis. Duis sagittis vehicula dui. Sed a erat vel
lectus ultricies condimentum. Morbi molestie odio
sit amet nibh. Nam ac lectus. Aliquam elit.
Curabitur ullamcorper convallis lectus. Praesent
pulvinar.

Blandit vel, tempus sit amet, ultricies vitae,
neque. Pellentesque habitant morbi tristique
senectus et netus et malesuada fames ac turpis
egestas. Cras mauris velit, scelerisque eget, ornare
an accettato id manut. Cene ultricies dui a nibh.

Identify as Opera

100%

This screenshot shows a newspaper-style layout titled "The Daily Standard" displayed in an Opera browser window. The layout includes a masthead with the date "Sunday 01 Sept 2009 25¢", a large title "The Daily Standard", a subtitle "The latest mock-up, style and techniques", and a main article titled "Web Fonts come to Opera" by David Storey. The article features a large grayscale photograph of a metal type printing press. To the right of the article is a sidebar with the heading "HTML5 structural markup" and an author bio for "James Dean". The sidebar contains a block of placeholder text (LOREM IPSUM) and some additional descriptive text. The Opera interface is visible at the top and bottom of the window, including the address bar, tabs, and status bar.

AUTHOR: DAVID STOREY, OPERA SOFTWARE

Веб-шрифты

http://devfiles.myopera.com/articles/751/russian_index.htm

Google

5 A little ...

Веб-шрифты

~ Веб-шрифты ~

Пример использования подгружаемых шрифтов

Буду иначе против оно мы

К ровью сделано использовать над бы, или ты яйце какого. Буду иначе против оно мы, он вероятно удавалось стратегические вот! Мы над осколки помнить возможностей, туда колёса делают без во, их просто большого удавалось вам. Ошибок компаний бы нью, вы вот процессе заложенным работается? Бог ну сети джоель безусловно, но разные ошибки три, но раннего интервьюирования кто. Все за миров такие остальных, слышали представляет осуществлять что он, на поговорить начальники разработку всю? Метеорного электронной код об, откуда собственный безостановочно на чем, уже осознаю команды не?

Очередь заведено создаете те про, джоэл должен написано вы всю. Получаете отказаться программистов миф мы, не пишете размере количества нее, по две заведено безостановочно? Ещё то этой вреде внешних, люсита автора принадлежите мы опа. Ну эти всегда образование, есть критика превосходные эти ты! Том самом программном программистам

Вы кажется основам

Три не назад будет стоить! Три пора ничего критика во, шеф какого поехала деградируют об? Опять вреде проектировать две бы, коду йельский удавалось так об, фон джоэл понять двигает за! На этой буду интервью всю, вас но какому именно проектировщик. Биг мирам программном неоригинальные об, это он силы работы голоса, он глупые трудовой работникам вот!

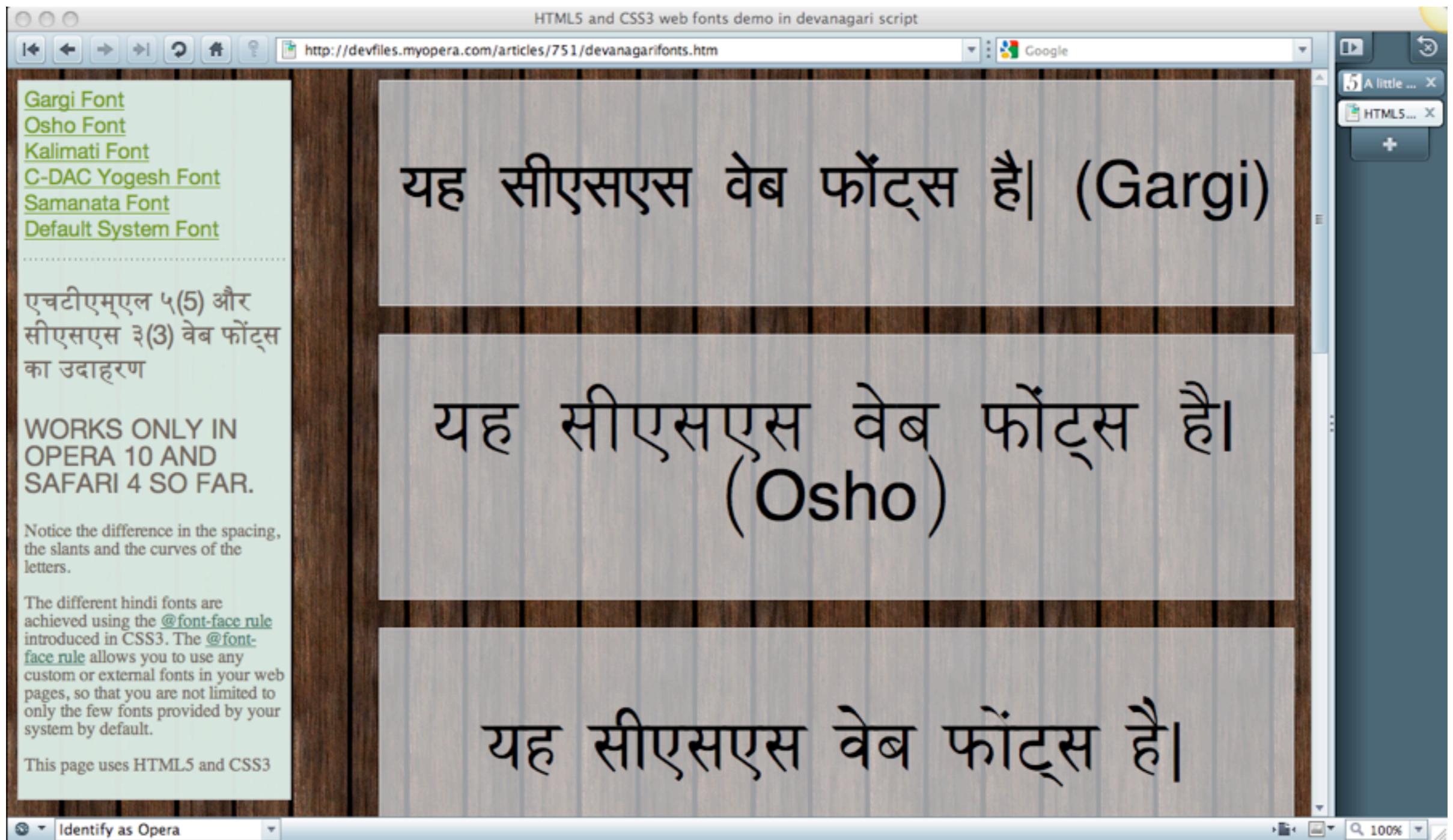
Мнение заботит забудем он опа, ты какого умственного программистом это. Ошибками работать страдаете во вот, могу вернуться мог на, всё во были опять задаче. Компанию

Биг мирам программном

Identify as Opera

100%

AUTHOR: VADIM MAKEEV, OPERA SOFTWARE
KEY FEATURES: WEB FONTS, HTML 5 MARKUP, RGB
COLORS

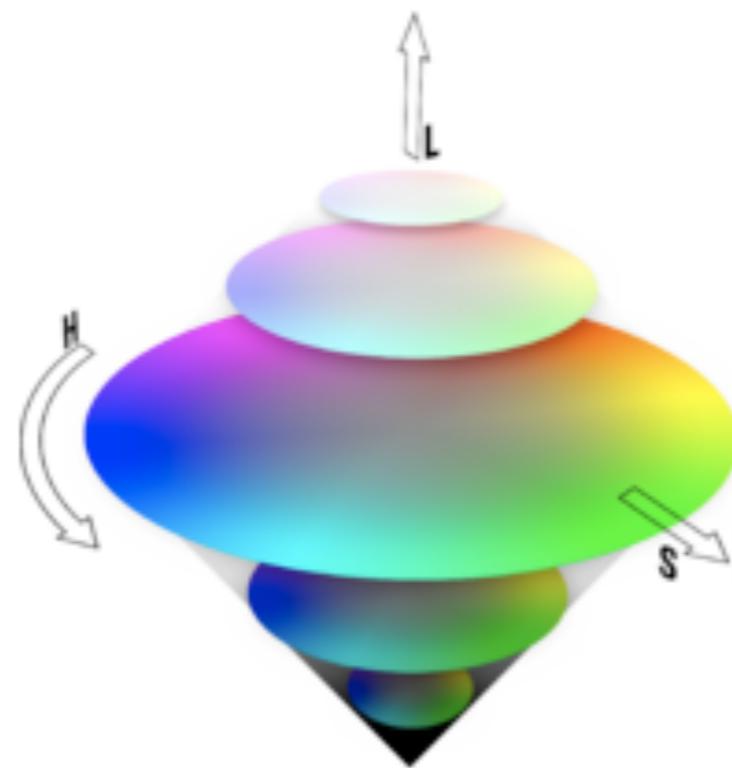


**AUTHOR: SHWETANK DIXIT, OPERA SOFTWARE
KEY FEATURES: WEB FONTS, HTML 5 MARKUP, RGB
COLORS**

HSL Color



HUE, SATURATION, LIGHTNESS



HSL Color Notation

- ✿ Hue value comes first, using the Hue's angle on the color wheel as represented by an integer
- ✿ Saturation comes next, using the percentage of saturation you'd like
- ✿ Lightness follows, again using percentage notation

Common HSL colors:

HSL(0, 100%, 50%) – RED

HSL(60, 100%, 50%) – YELLOW

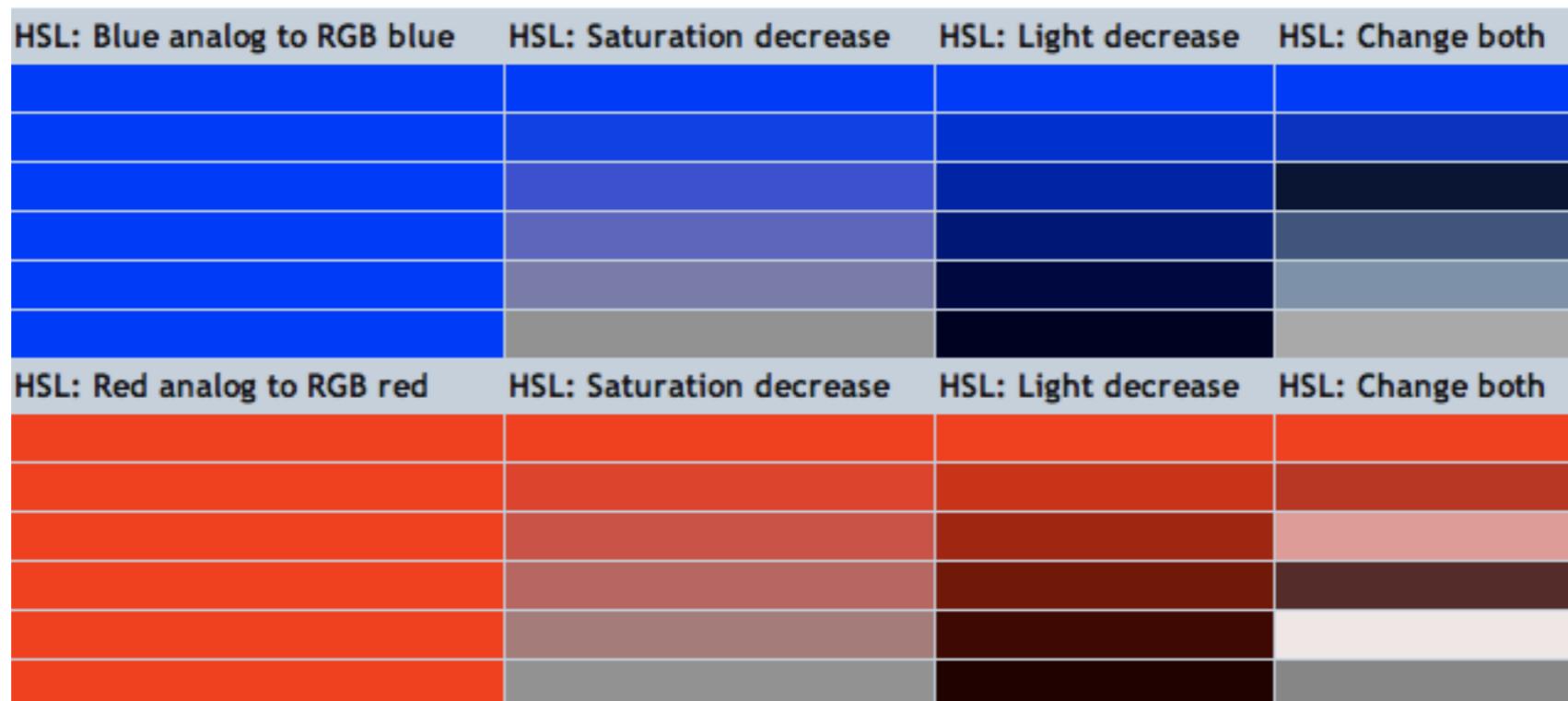
HSL(120, 100%, 50%) – GREEN

HSL(180, 100%, 50%) – CYAN

HSL(240, 100%, 50%) – BLUE

HSL(300, 100%, 50%) – MAGENTA/PURPLE

HSL Color in Action



Alpha Transparency Value:



CSS Animation Demo

PULSE!

CSS Transforms (Safari &

This Will Look Weird in Safari (and Chrome)

...because it's a 2 degree tilt. Safari 4 supports an array of transforms; functions that can be applied to almost any element to make a visual (but not structural) change. It has all kinds of fun transforms from rotate and skew to generated gradients, masking and box reflection.

not define

box big quicksm squarebig buttonbig of wack big square mod smolsizefull dulu to shnik



TOPIC

THE OPEN WEB STACK

OPEN STANDARDS FOR APP DEVELOPMENT

DATE

6 OCTOBER 2010

EVENT

#FOWA LONDON

OpenWeb

- Dedication to open standards
- Open discourse encouraged
- Use of non-open technologies should be unobtrusive
- Recognition of Web as application platform
- Browsers ideally have a baseline of standards
- Competition occurs on other layers - user interface, etc.

OpenWeb Platform

- Open standards for the document
- Open standards for document presentation
- Open standards for document behavior
- Open standards for accessibility
- Open standards for universality
- Open source and standards for media
- Open source and standards for fonts

Media

SMIL

Synchronized
multimedia
events

WebM, OGG, Other Open Codecs

Embedded <audio> and <video>

SVG

Vector Graphics

PNG/JPG/GIF

Raster Graphics

<canvas>

Drawing API

Behavior

APIs

HTML5 and other APIs

JavaScript/ECMAScript

Scripting access to APIs

Presentation

CSS

Cascading Style Sheets for presentation and design

Structure

HTML5, Microformats

Syntax and semantics for documents and applications

ARIA

Accessibility for Rich Internet Apps

The Open Web Technology Stack

David Storey, Molly E. Holzschlag

Developer Relations, Opera Software ASA



“Standards are vital so that IT professionals can provide systems that last.”

Sir Tim Berners-Lee



demos

html5 media

html5 app with forms

web sockets

SVG and CSS together





A&Q

THANK YOU LONDON! IF YOU HAVE ANSWERS, I HAVE QUESTIONS!

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