


# Web Trend

Course 6

1998

access-board.gov



**UNITED STATES ACCESS BOARD**  
*Advancing Full Access and Inclusion for All*

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☐ Search entire site

The Board

Guidelines & Standards




Training

Enforcement

Research

[Home](#) > [Guidelines and Standards](#) > [Communications & IT](#) > [About the Section 508 Standards](#) > Section 508 Standards

## Section 508 Standards for Electronic and Information Technology



Published in the Federal Register on December 21, 2000.

- [Subpart A — General](#)
- [Subpart B — Technical Standards](#)
- [Subpart C — Functional Performance Criteria](#)
- [Subpart D — Information, Documentation, and Support](#)

Related Document: [Preamble](#) (published discussion of the standards).

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- 1194.2 Application.
- 1194.3 General exceptions.
- 1194.4 Definitions.
- 1194.5 Equivalent facilitation.

**Subpart B — Technical Standards**

- 1194.21 Software applications and operating systems.
- 1194.22 Web-based intranet and internet information and applications.
- 1194.23 Telecommunications products.
- 1194.24 Video and multimedia products.
- 1194.25 Self contained, closed products.
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**Subpart C — Functional Performance Criteria**

### SECTION 508 STANDARDS

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next contents properties index

W3C

REC-CSS2-20080411

# Cascading Style Sheets, level 2 CSS2 Specification

W3C Recommendation 12-May-1998 (revised 11 April 2008)

This version:  
<http://www.w3.org/TR/2008/REC-CSS2-20080411>

Latest version:  
<http://www.w3.org/TR/CSS2>

Previous version:  
<http://www.w3.org/TR/1998/REC-CSS2-19980512>

Editors:  
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[Håkon Wium Lie <howcome@w3.org>](mailto:howcome@w3.org)  
[Chris Lilley <chris@w3.org>](mailto:chris@w3.org)  
[Ian Jacobs <ij@w3.org>](mailto:ij@w3.org)

**Note: This paragraph is informative.** This document is currently not maintained. The CSS Working Group is developing [CSS Level 2 Revision 1](#), which corrects many errors and omissions in this document as well as making a few other changes as documented in the [changes section](#). The CSS Working Group encourages authors and implementors to reference CSS 2.1 (or its [successor](#)) instead of this document and when features common to CSS2 and CSS 2.1 are defined differently to follow the definitions in CSS 2.1.



1999



# HTML 4.01 Specification

W3C Recommendation 24 December 1999

**This version:**

<http://www.w3.org/TR/1999/REC-html401-19991224>  
([plain text](#) [794Kb], [gzip'd tar archive of HTML files](#) [371Kb], [a .zip archive of HTML files](#) [405Kb], [gzip'd Postscript file](#) [746Kb, 389 pages], [gzip'd PDF file](#) [963Kb])

**Latest version of HTML 4.01:**

<http://www.w3.org/TR/html401>

**Latest version of HTML 4:**

<http://www.w3.org/TR/html4>

**Latest version of HTML:**

<http://www.w3.org/TR/html>

**Previous version of HTML 4.01:**

<http://www.w3.org/TR/1999/PR-html40-19990824>

**Previous HTML 4 Recommendation:**

<http://www.w3.org/TR/1998/REC-html40-19980424>

**Editors:**

[Dave Raggett](#) <[dsr@w3.org](mailto:dsr@w3.org)>

Arnaud Le Hors, W3C

Ian Jacobs, W3C

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[Abstract](#)



[\[contents\]](#) [\[checklist\]](#)

# Web Content Accessibility Guidelines 1.0

W3C Recommendation 5-May-1999

**This version:**

<http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990505>  
([plain text](#), [PostScript](#), [PDF](#), [gzip tar file of HTML](#), [zip archive of HTML](#))

**Latest version:**

<http://www.w3.org/TR/WAI-WEBCONTENT>

**Previous version:**

<http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990324>

**Editors:**

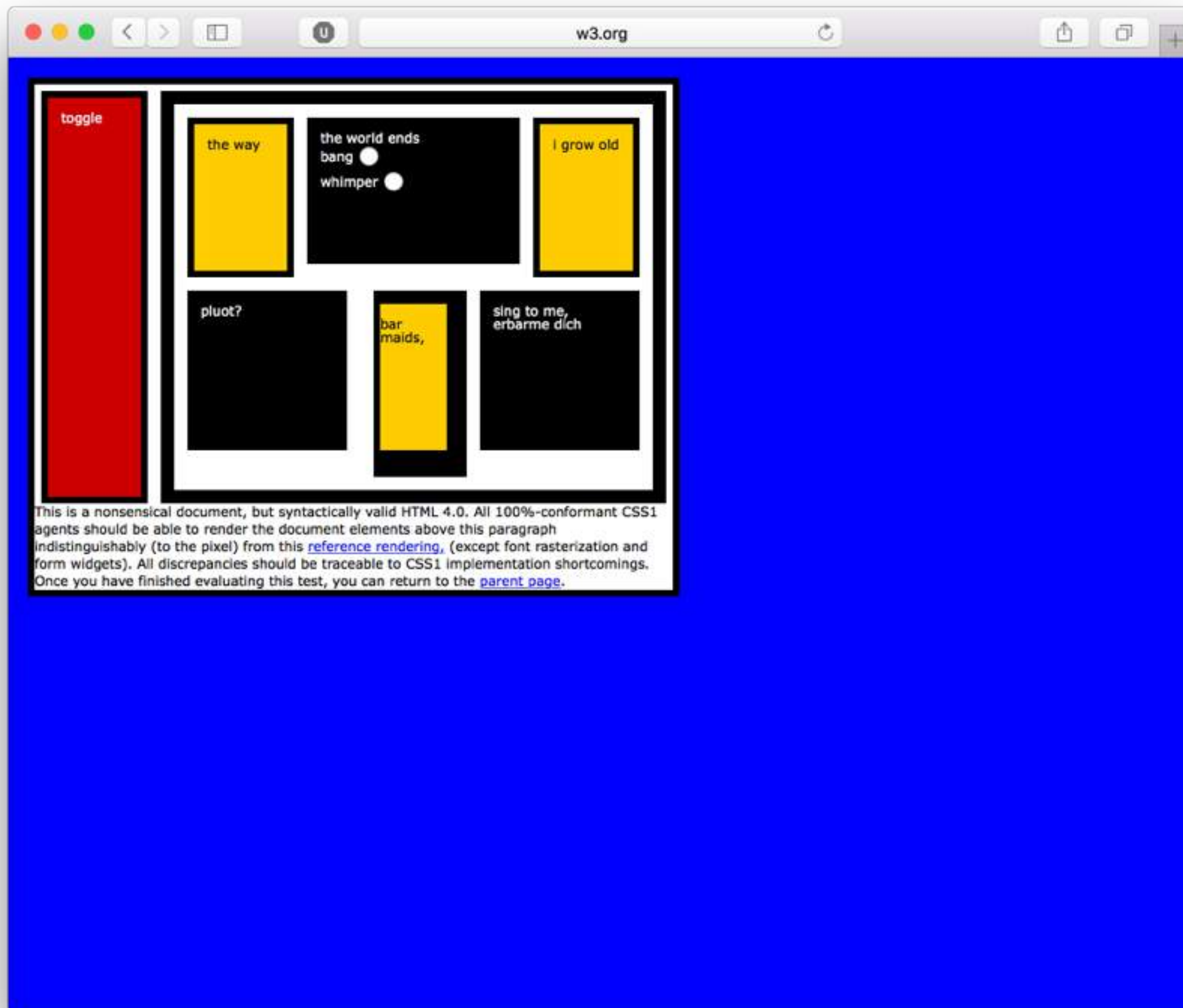
Wendy Chisholm, [Trace R & D Center](#), University of Wisconsin -- Madison  
Gregg Vanderheiden, [Trace R & D Center](#), University of Wisconsin -- Madison  
Ian Jacobs, [W3C](#)

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## Abstract

These guidelines explain how to make *Web content* accessible to people with disabilities. The guidelines are intended for all *Web content developers* (page authors and site designers) and for developers of *authoring tools*. The primary goal of these guidelines is to promote accessibility. However, following them will also make Web content more available to *all* users, whatever *user agent* they are using (e.g., desktop browser, voice browser, mobile phone, automobile-based personal computer, etc.) or constraints they may be operating under (e.g., noisy





2001



Microsoft®

**Internet  
Explorer® 6**

2002





# Cascading Style Sheets, level 2 revision 1 CSS 2.1 Specification

W3C Working Draft 2 August 2002

**This version:**

<http://www.w3.org/TR/2002/WD-CSS21-20020802>

**Latest version:**

<http://www.w3.org/TR/CSS21>

**Previous version:**

<http://www.w3.org/TR/1998/REC-CSS2-19980512>

**Editors:**

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This document is also available in these non-normative formats: [plain text](#), [gzip'ed tar file](#), [zip file](#), [gzip'ed PostScript](#), [PDF](#). See also [translations](#).

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---

## Abstract

This specification defines Cascading Style Sheets, level 2 revision 1 (CSS 2.1). CSS 2.1 is a style sheet language that allows authors and users to attach style (e.g., fonts, spacing, and aural cues) to structured documents (e.g., HTML documents and XML applications). By separating the presentation style of documents from the content of documents, CSS 2.1 simplifies Web authoring and site maintenance.



2003

# designing with web standards

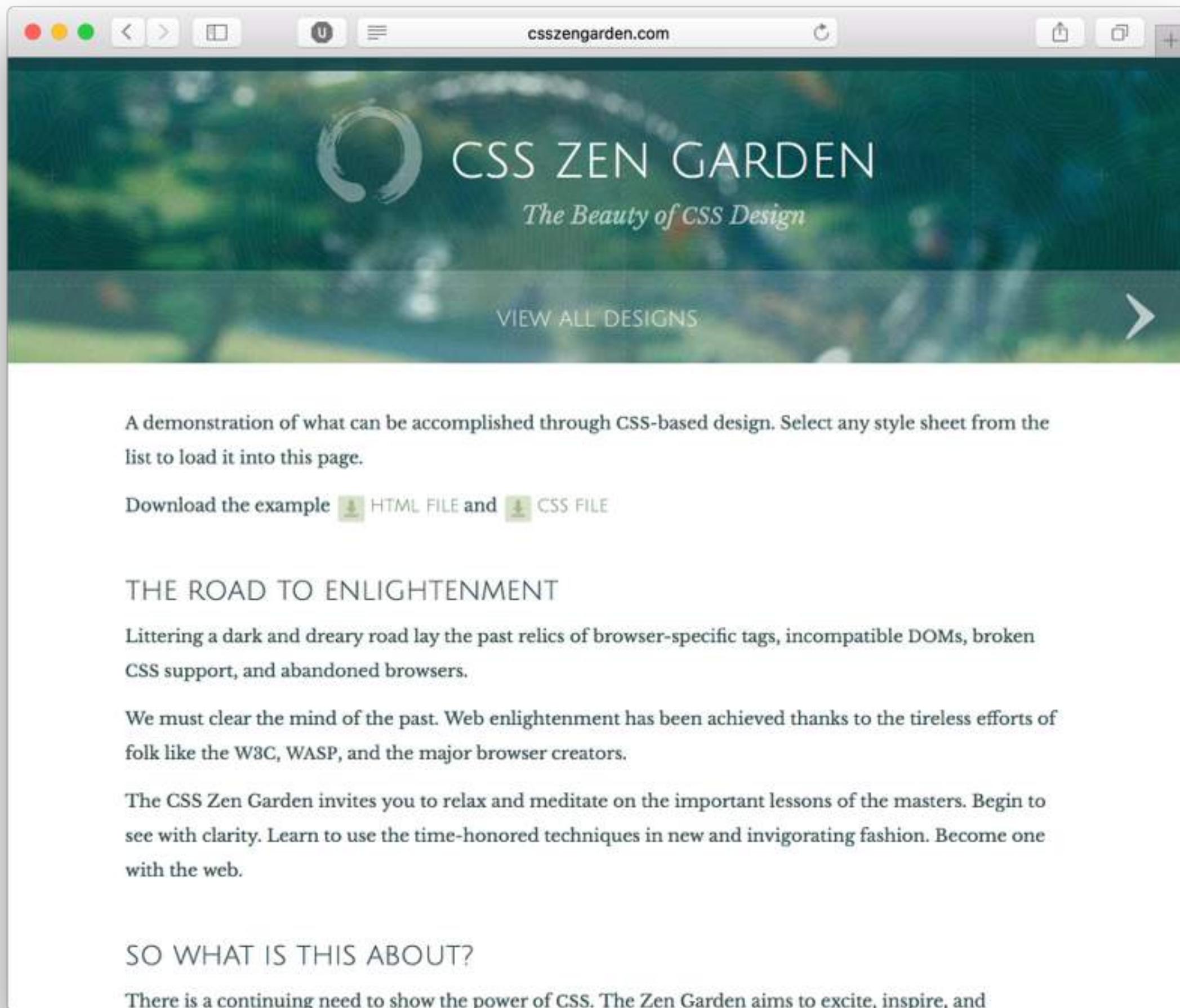
jeffrey zeldman



New  
Riders

VOICES THAT MATTER™





A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example  HTML FILE and  CSS FILE

## THE ROAD TO ENLIGHTENMENT

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, broken CSS support, and abandoned browsers.

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WASP, and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the time-honored techniques in new and invigorating fashion. Become one with the web.

## SO WHAT IS THIS ABOUT?

There is a continuing need to show the power of CSS. The Zen Garden aims to excite, inspire, and

元  
完  
全  
な  
技

# Zen Garden

*Una demostración de lo  
que se puede lograr*

*visualmente usando diseño  
basado en CSS-. Seleccione  
cualquier estilo de la lista  
para cargarlo en esta  
página.*

*Baje el archivo de ejemplo  
[html](#) y [css](#)*

## *El camino hacia La Luz*

Ensuciando un camino oscuro y aburrido reposan las reliquias  
soporte incierto para CSS .

Hoy, tenemos que limpiar la mente de prácticas pasadas. La cla  
como W3C, WaSP y los grandes creadores de los navegadores.


El Jardin Zen css invita a usted a relajarse y meditar acerca  
Aprenda a usar (aun por ser) técnicas honradas por el tiempo en

## *Y De que se Trata Esto?*

Hay claramente una necesidad de que CSS sea tomada seriame  
participacion. Para empezar, vea algunos de los excitantes diseñ  
misma pagina. El codigo se mantiene intacto, lo unico que camb




mezzoblue.com



Mid Century Modern

ANDREW LOHMAN, United States


221



Garments

DAN MALL, United States


220



Steel

STEFFEN KNOELLER, Germany


219



Apothecary

TRENT WALTON, United States


218



Handcrafted

ELLIOT JAY STOCKS, United Kingdom


217



Fountain Kiss

JEREMY CARLSON, United States


216



A Robot Named Jimmy

MELTMEDIA, United States


215



Verde Moderna

DAVE SHEA, Canada


214





Under the Seal

ERIC STOLTZ, United States

213







Submit

RSS Feeds

For automatic notification when the Garden updates, there are two RSS feeds available:

Official Designs

News Updates

The Zen of CSS Design

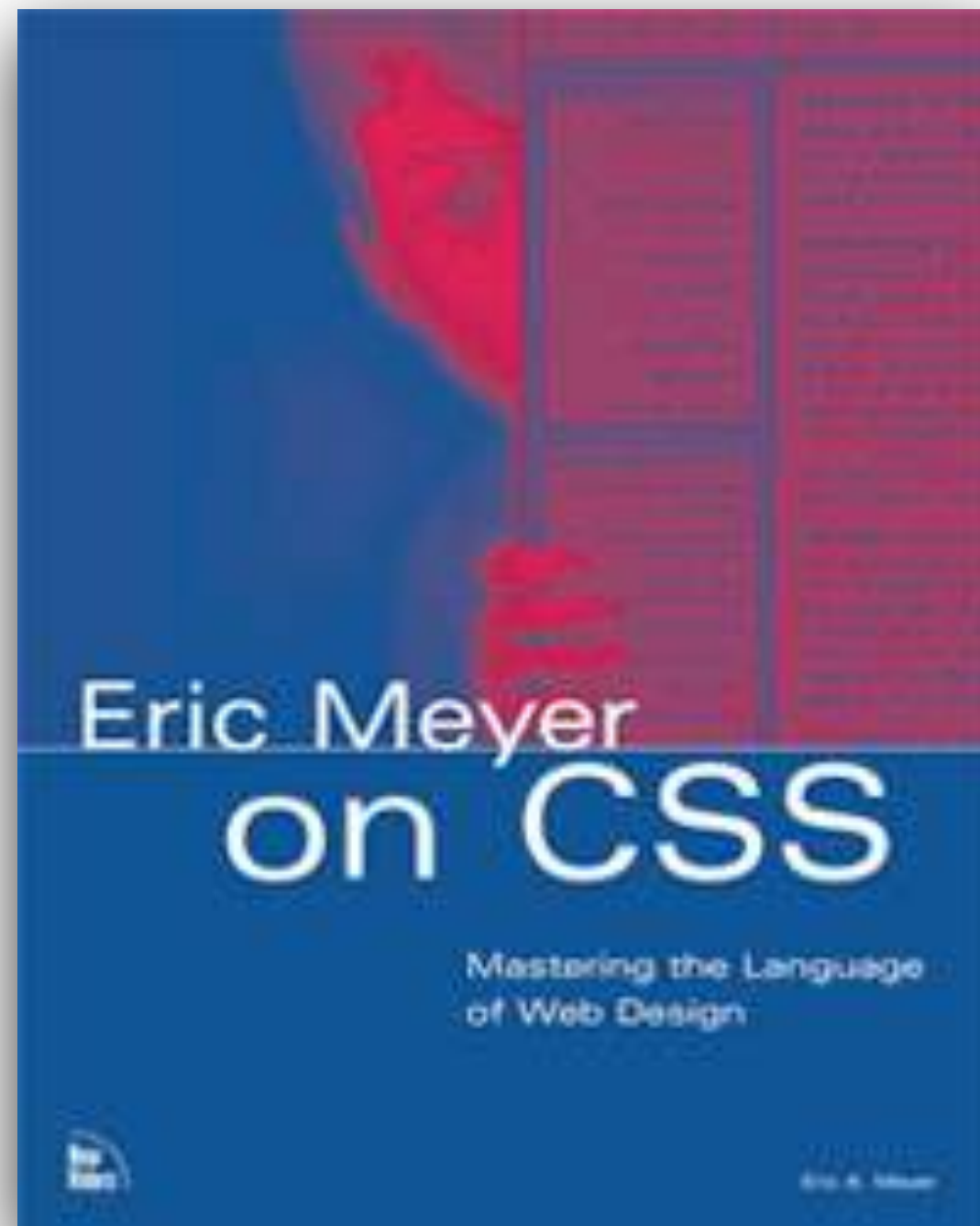
Dave Shea & Molly Holzschlag

New Riders, 2005

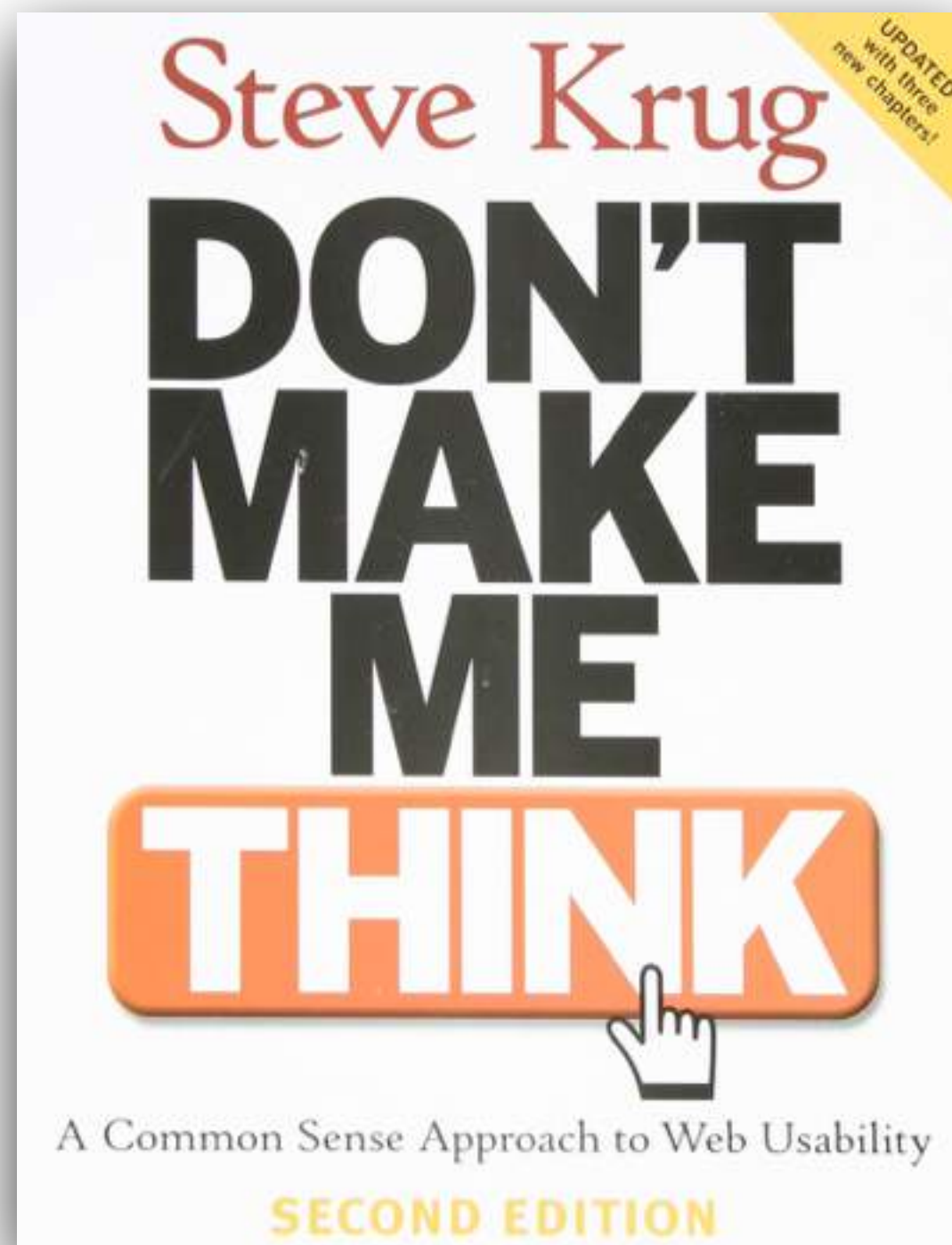
Book Link List

Tired of typing in all the links we refer to in the book? Check out the [book link list](#).

Get it: [CA](#) | [DE](#) | [FR](#) | [PL](#) | [RU](#) | [UK](#)















2004





2004-05



2005-09



2009-13



2013+



**Firefox**  
take back the web



# CODE\_RUSH







# **Web Hypertext Application Technology Working Group**

2005

dōjō  
toolkit









# RESTful API

**ORM**

# CSRF token

```
<meta content="authenticity_token"  
      name="csrf-param" />
```

```
<meta content="gv1xdpH2w4MYcMtoT52pRPV+tPoWFDSJhxNiB0C5idQ:  
      name="csrf-token" />
```



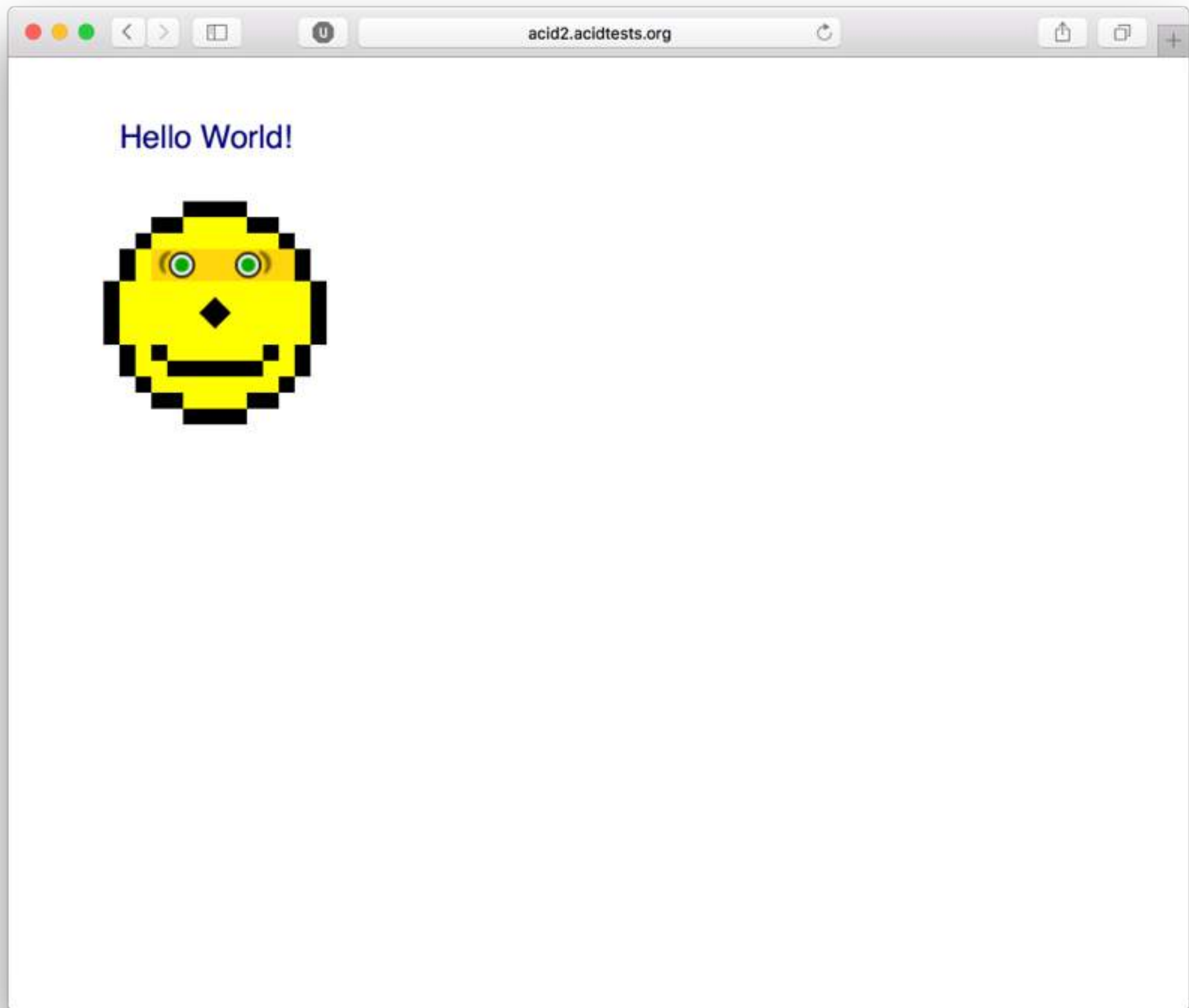
# Unobtrusive JavaScript

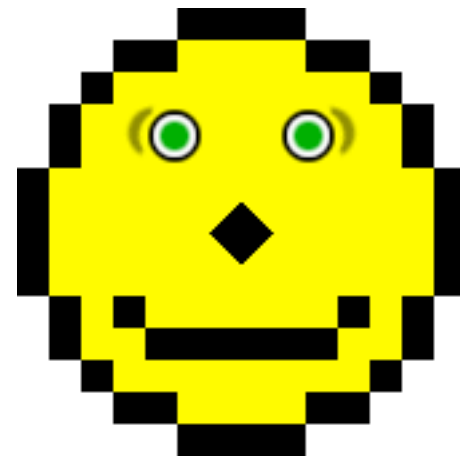
- Separation of functionality (the "behavior layer") from a Web page's structure/content and presentation

# Asset Pipeline

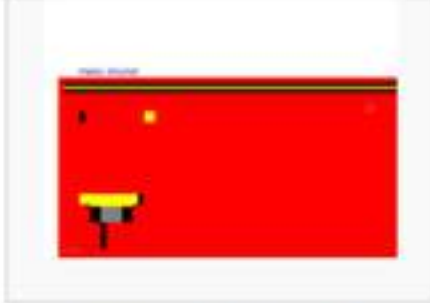
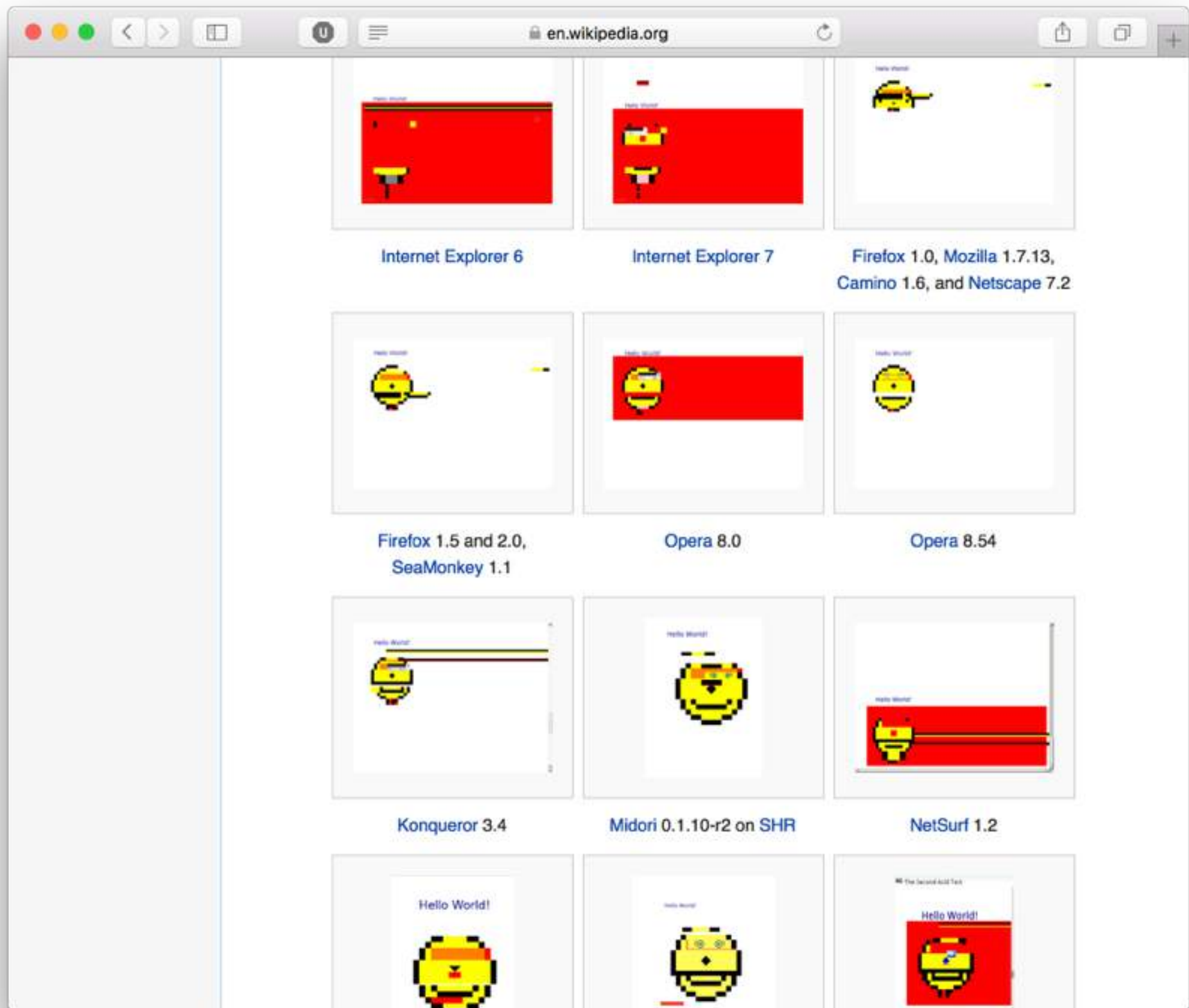
- All together assets pack system
- JS, CSS, images, html
- Concat, minimize, hashize, update file name











Internet Explorer 6



Internet Explorer 7



Firefox 1.0, Mozilla 1.7.13,  
Camino 1.6, and Netscape 7.2



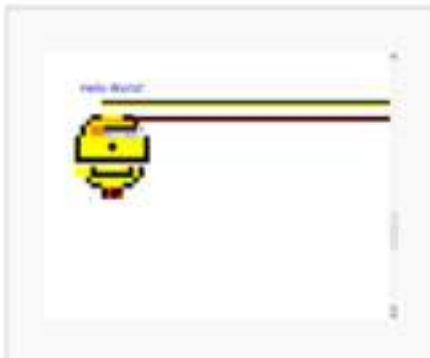
Firefox 1.5 and 2.0,  
SeaMonkey 1.1



Opera 8.0



Opera 8.54



Konqueror 3.4



Midori 0.1.10-r2 on SHR



NetSurf 1.2



**First pass by Safari**

2006



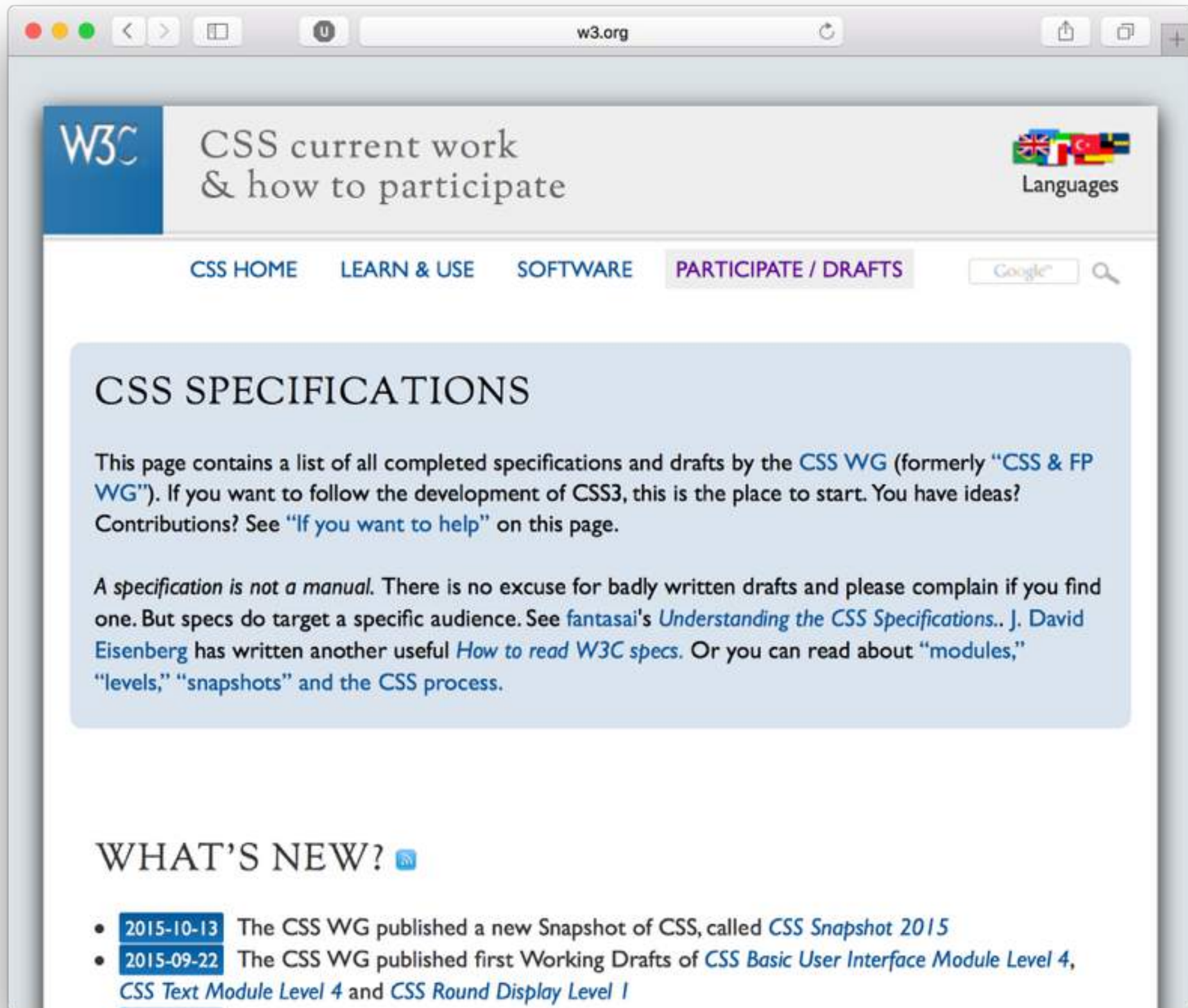
{JSON}

The logo for mootools, featuring the word "mootools" in a stylized, rounded font. The "moo" is in black, "tools" is in a light blue-grey, and the "s" is replaced by a black wrench icon. The letters have a slight drop shadow.

a compact javascript framework







## CSS current work & how to participate



Languages

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### CSS SPECIFICATIONS

This page contains a list of all completed specifications and drafts by the [CSS WG](#) (formerly "[CSS & FP WG](#)"). If you want to follow the development of CSS3, this is the place to start. You have ideas? Contributions? See "[If you want to help](#)" on this page.

*A specification is not a manual.* There is no excuse for badly written drafts and please complain if you find one. But specs do target a specific audience. See [fantasai's Understanding the CSS Specifications..](#) [J. David Eisenberg](#) has written another useful [How to read W3C specs.](#) Or you can read about "modules," "levels," "snapshots" and the CSS process.

### WHAT'S NEW?

- **2015-10-13** The CSS WG published a new Snapshot of CSS, called [CSS Snapshot 2015](#)
- **2015-09-22** The CSS WG published first Working Drafts of [CSS Basic User Interface Module Level 4](#), [CSS Text Module Level 4](#) and [CSS Round Display Level 1](#)

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Refining	Cur- rent	Upcom- ing	Notes
CSS Animations	WD	WD	
Web Animations 1.0	WD	WD	
CSS Text Level 3	LC	CR	
CSS Fragmentation Level 3	WD	WD	
CSS Transforms	WD	WD	
CSS Transitions	WD	LC	
Cascading Variables	WD	LC	
CSS Will Change	FPWD	WD	
CSS Cascading and Inheritance Level 4	WD	WD	
Revising	Cur- rent	Upcom- ing	Notes
CSS Box Alignment Module Level 3	WD	WD	
CSS Grid Layout	WD	WD	
CSS Paged Media Level 3	WD	LC	
CSSOM View	WD	WD	
Selectors Level 4	WD	WD	
CSS Display	WD	WD	
Exploring	Cur- rent	Upcom- ing	Notes
CSS Backgrounds and Borders Level 4		WD	
CSS Device Adaptation	FPWD	WD	
CSS Exclusions	WD	WD	
Filter Effects	WD	WD	
CSS Generated Content for Paged Media	WD	WD	
CSS Page Floats	FPWD	WD	





Sass.

{style with attitude}

# Nesting

```
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  
  li { display: inline-block; }  
}
```

# Mixin

```
@mixin border-radius($radius) {  
    -webkit-border-radius: $radius;  
    -moz-border-radius: $radius;  
    -ms-border-radius: $radius;  
    border-radius: $radius;  
}  
  
.box { @include border-radius(10px); }
```



# Variable

```
$font-stack:    Helvetica, sans-serif;  
$primary-color: #333;
```

```
body {  
    font: 100% $font-stack;  
    color: $primary-color;  
}
```

# JSmin

2007



# Firebug

web development evolved







**iPhone**  
**first smart phone**



2008



# HTC G1

first android phone









# V8 JavaScript Engine

- by Google
- Starts the browser speed race

**yuicompressor**

[\[contents\]](#)

# Web Content Accessibility Guidelines (WCAG) 2.0

W3C Recommendation 11 December 2008

**This version:**

<http://www.w3.org/TR/2008/REC-WCAG20-20081211/>

**Latest version:**

<http://www.w3.org/TR/WCAG20/>

**Previous version:**

<http://www.w3.org/TR/2008/PR-WCAG20-20081103/>

**Editors:**

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Michael Cooper, W3C  
Loretta Guarino Reid, Google, Inc.  
Gregg Vanderheiden, Trace R&D Center, University of Wisconsin-Madison

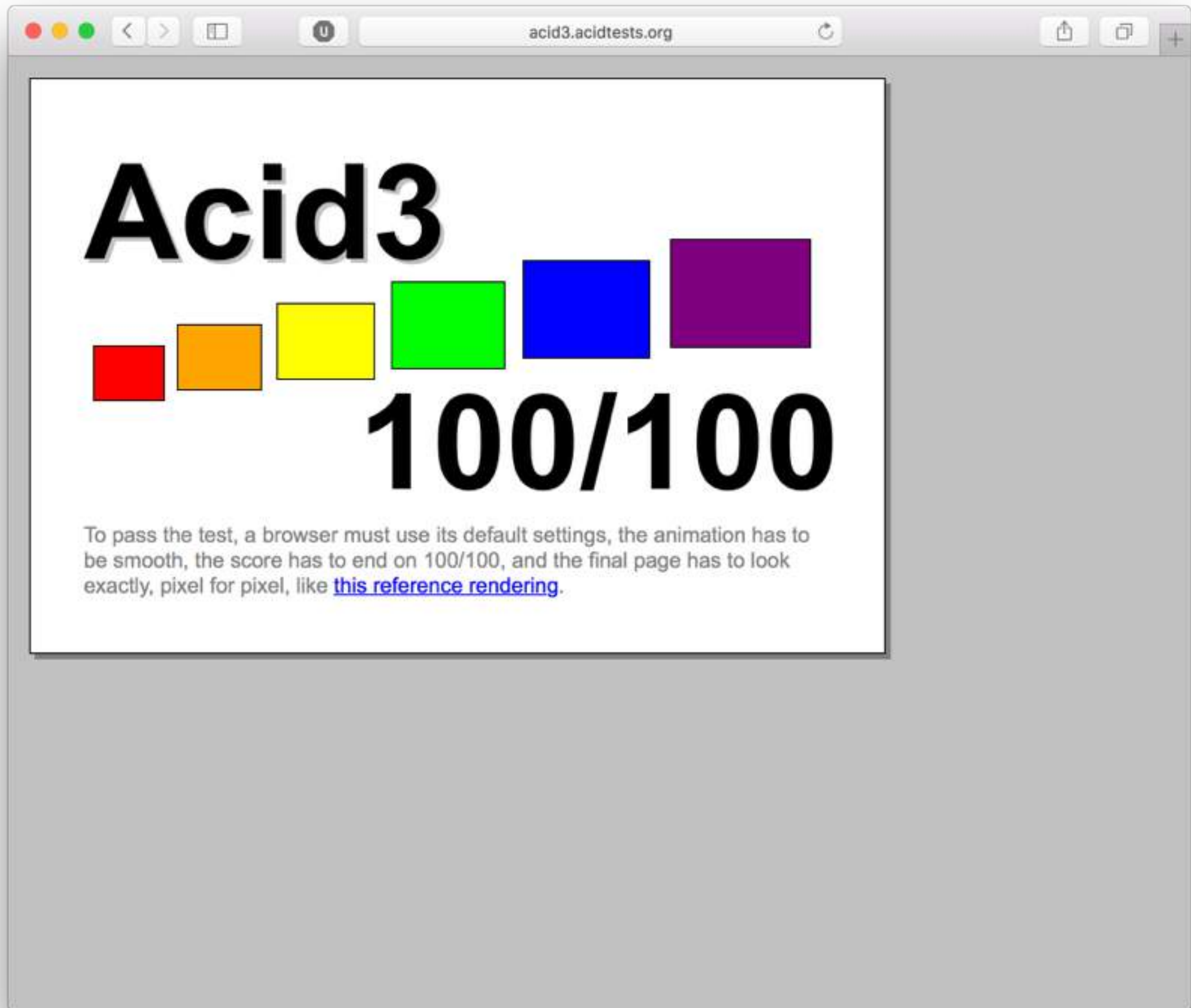
**Previous Editors:**

Wendy Chisholm (until July 2006 while at W3C)  
John Slatin (until June 2006 while at Accessibility Institute, University of Texas at Austin)  
Jason White (until June 2005 while at University of Melbourne)

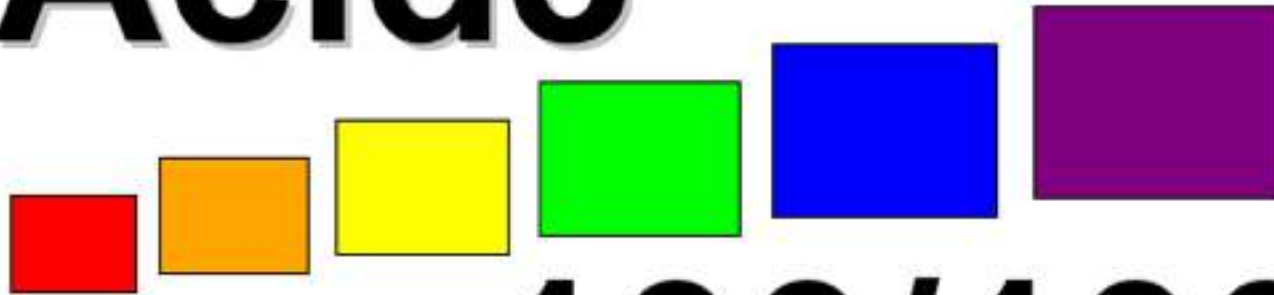
Please refer to the [errata](#) for this document, which may include normative corrections.

See also [translations](#).

This document is also available in non-normative formats, available from [Alternate Versions of Web Content Accessibility Guidelines 2.0](#).



# Acid3



100/100

To pass the test, a browser must use its default settings, the animation has to be smooth, the score has to end on 100/100, and the final page has to look exactly, pixel for pixel, like [this reference rendering](#).

**First pass by Webkit**

**canvas**

```
function draw() {  
    var canvas = document.getElementById('canvas');  
    if (canvas.getContext){  
        var ctx = canvas.getContext('2d');  
  
        ctx.beginPath();  
        ctx.moveTo(75,50);  
        ctx.lineTo(100,75);  
        ctx.lineTo(100,25);  
        ctx.fill();  
    }  
}
```





```
function draw() {  
    var canvas = document.getElementById('canvas');  
    if (canvas.getContext){  
        var ctx = canvas.getContext('2d');  
  
        // Quadratric curves example  
        ctx.beginPath();  
        ctx.moveTo(75,40);  
        ctx.bezierCurveTo(75,37,70,25,50,25);  
        ctx.bezierCurveTo(20,25,20,62.5,20,62.5);  
        ctx.bezierCurveTo(20,80,40,102,75,120);  
        ctx.bezierCurveTo(110,102,130,80,130,62.5);  
        ctx.bezierCurveTo(130,62.5,130,25,100,25);  
        ctx.bezierCurveTo(85,25,75,37,75,40);  
        ctx.fill();  
    }  
}
```



2009



**Standard** ECMA-262

5<sup>th</sup> Edition / December 2009

## **ECMAScript Language Specification**

# Standard

Rue du Rhône 114 CH-1204 Geneva T: +41 22 849 6000 F: +41 22 849 6001

CommonJS







# Assignment:

number = 42

opposite = true

# Conditions:

number = -42 if opposite

# Functions:

square = (x) -> x \* x

# Objects:

math =

  root: Math.sqrt

  square: square

  cube: (x) -> x \* square x

# Splat:

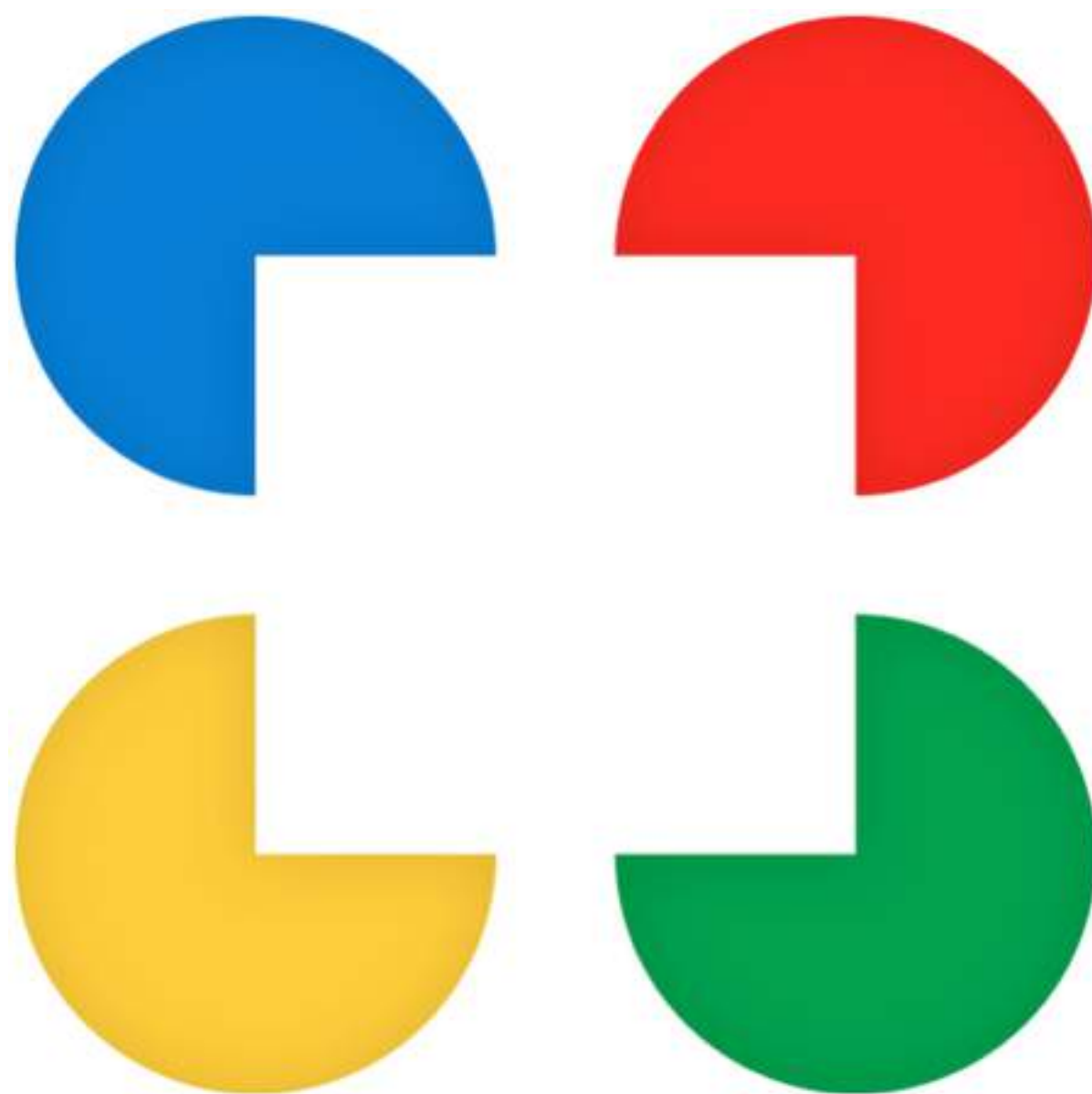
race = (winner, runners...) ->

  print winner, runners

# Existence:

alert "I knew it!" if elvis?





# Closure Compiler



2010





# iPhone 4

first retina display

# HTML



# Backbone.js





BACKBONE.JS

# 1 Way Data Binding

2011



**Standard** ECMA-262

5.1 Edition / June 2011

## ECMAScript Language Specification

Standard

Rue du Rhône 114 CH-1204 Geneva T: +41 22 849 6000 F: +41 22 849 6001

**and First ES6 Draft**





Windows® Internet  
**Explorer 9**

LiveScript 

REQUIREJS



**AMD**

```
define(['jquery'] , function ($) {  
    return function () {};  
});
```





```
var greetings = require("./greetings.js");  
module.exports = "Bonjour";
```



**UMD**

```
(function (root, factory) {  
    if (typeof define === 'function' && define.amd) {  
        // AMD. Register as an anonymous module.  
        define(['b'], factory);  
    } else {  
        // Browser globals  
        root.amdWeb = factory(root.b);  
    }  
})(this, function (b) {  
    return {};  
}));
```





# 2 Way Data Binding

# UglifyJS


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Government Digital Service

Part of [Cabinet Office](#) and [Efficiency and Reform Group](#)

[Content and publishing guidance](#)

[Government Service Design Manual](#)

[Digital Transformation](#)


## What we do


We help government make digital services and information simpler, clearer and faster. We put users' needs before the needs of government.


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**Our policies**

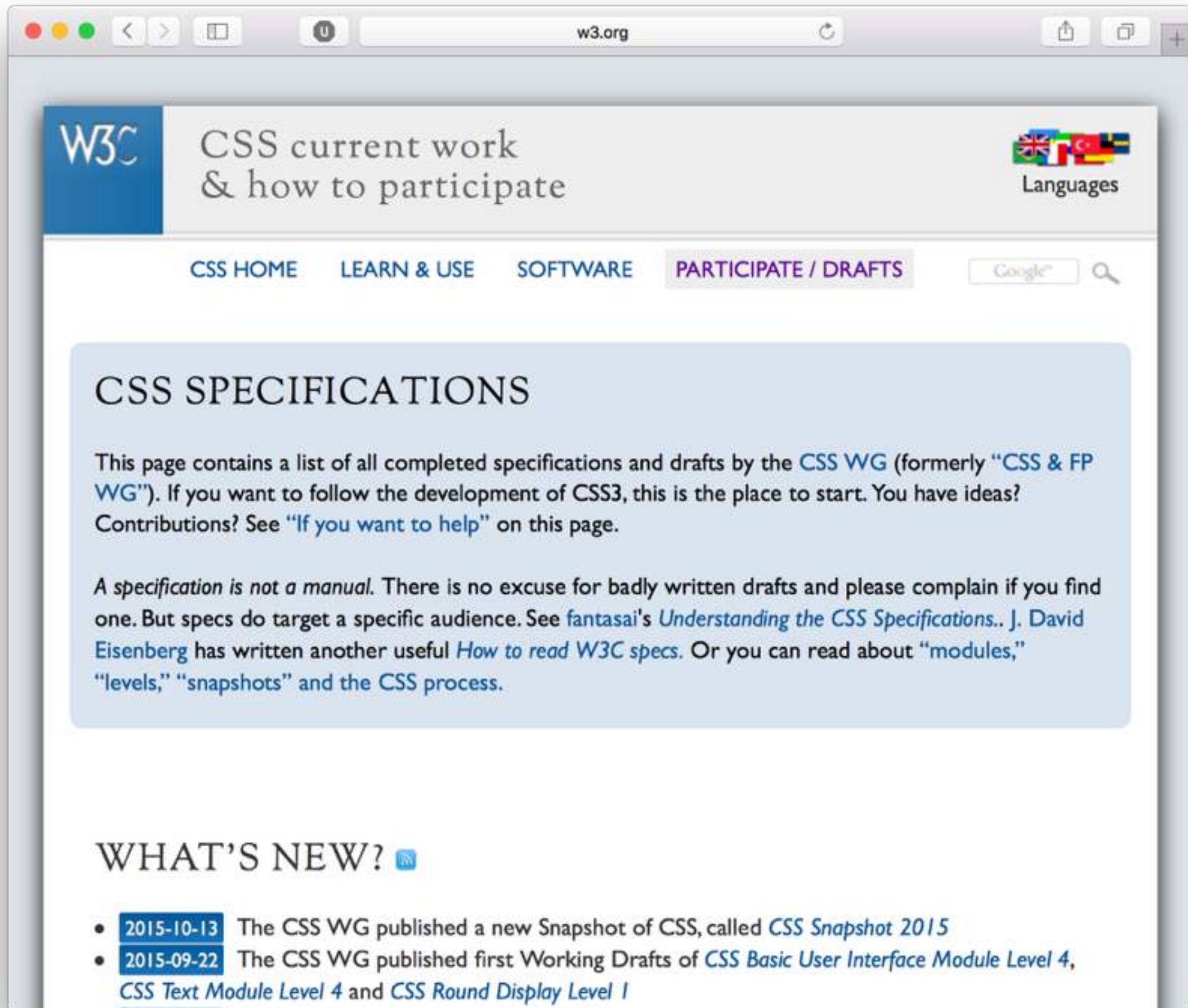
[Central government efficiency](#)





**Bootstrap, from twitter**





## CSS current work & how to participate



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# Cascading Style Sheets Level 2 Revision 1 (CSS 2.1) Specification

W3C Recommendation 07 June 2011, edited in place 17 December 2014 to point to new work

**This version:**

<http://www.w3.org/TR/2011/REC-CSS2-20110607>

**Latest version:**

<http://www.w3.org/TR/CSS2>

**Previous versions:**

<http://www.w3.org/TR/2011/PR-CSS2-20110412>

<http://www.w3.org/TR/2008/REC-CSS2-20080411/>

**Latest editor's draft:**

<http://dev.w3.org/csswg/css2/>

**Editors:**

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[Tantek Çelik](#) <tantek@cs.stanford.edu>

[Ian Hickson](#) <ian@hixie.ch>

[Håkon Wium Lie](#) <howcome@opera.com>

Please refer to the [errata](#) for this document.

This document is also available in these non-normative formats: [plain text](#), [gzip'ed tar file](#), [zip file](#), [gzip'ed PostScript](#), [PDF](#). See also [translations](#).

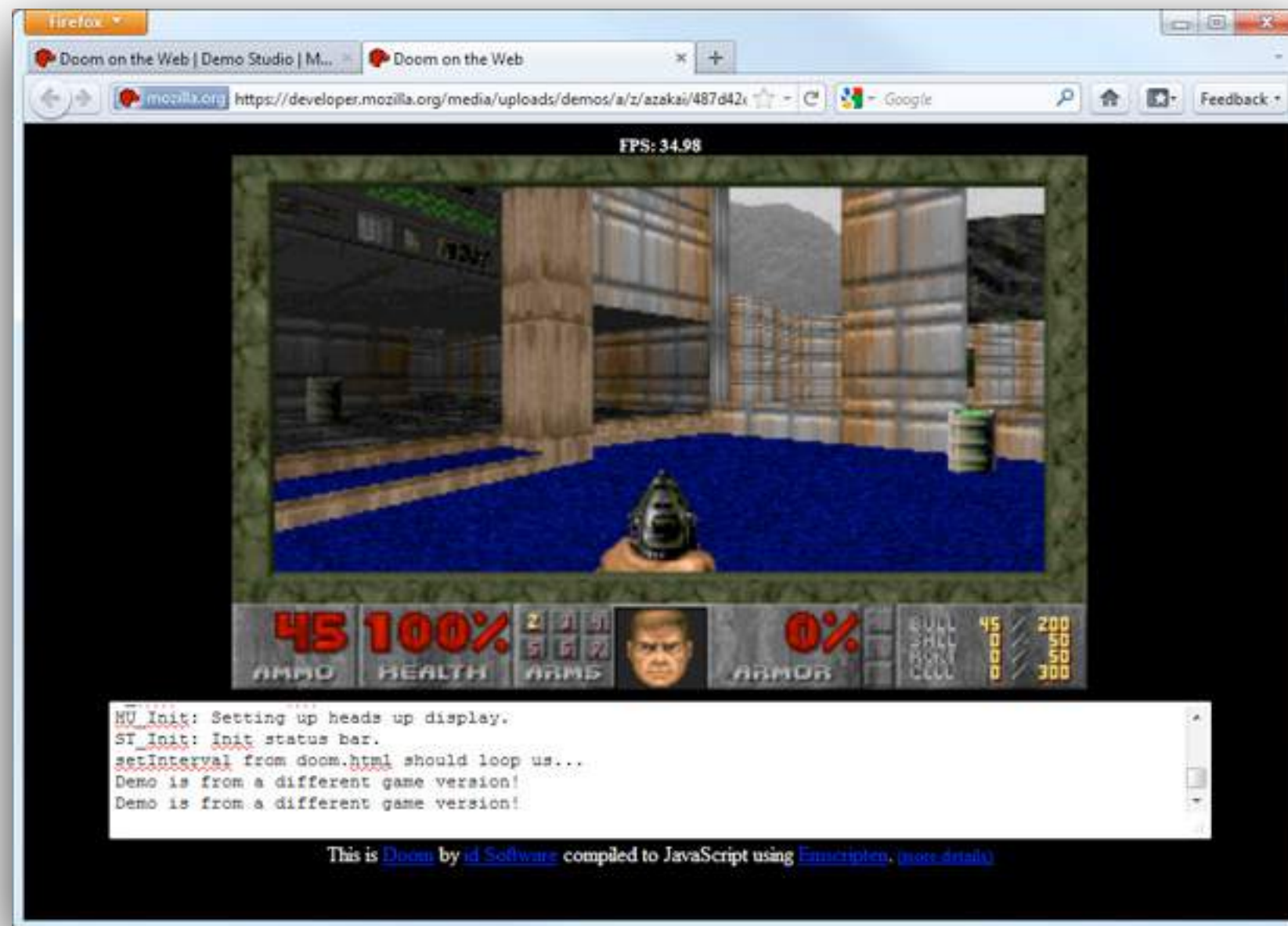
# Media Query

2012





***emscripten***











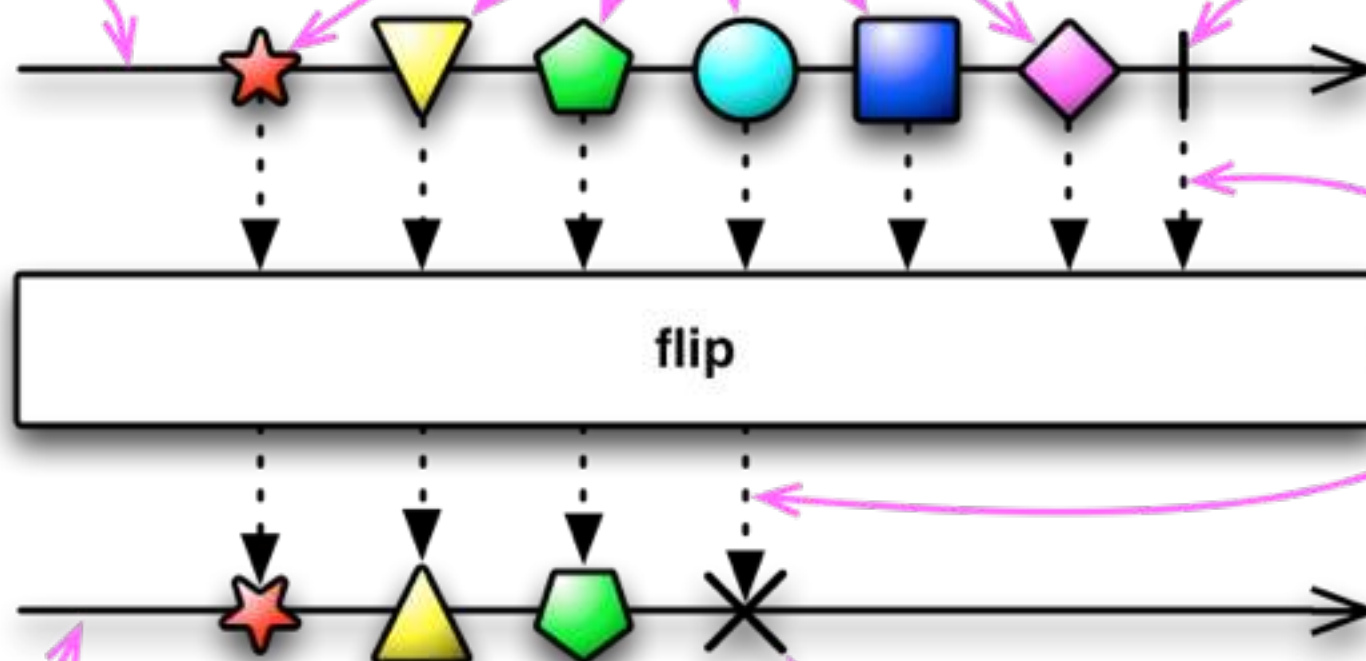
**Grunt**  
**Bower**  
**Yeoman**



This is the timeline of the Observable. Time flows from left to right.

These are items emitted by the Observable.

This vertical line indicates that the Observable has completed successfully.

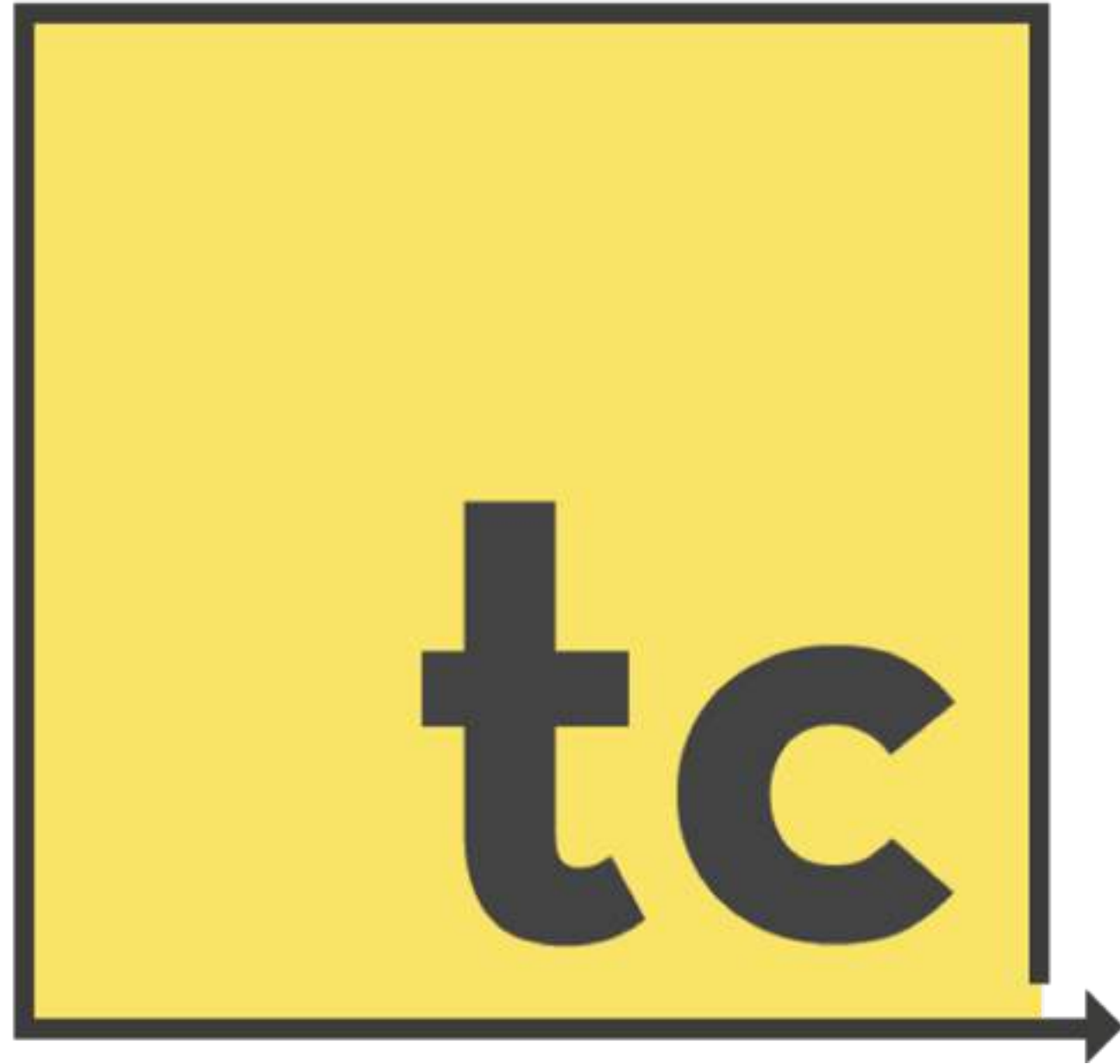


These dotted lines and this box indicate that a transformation is being applied to the Observable. The text inside the box shows the nature of the transformation.

This Observable is the result of the transformation.

If for some reason the Observable terminates abnormally, with an error, the vertical line is replaced by an X.

# UglifyJS 2









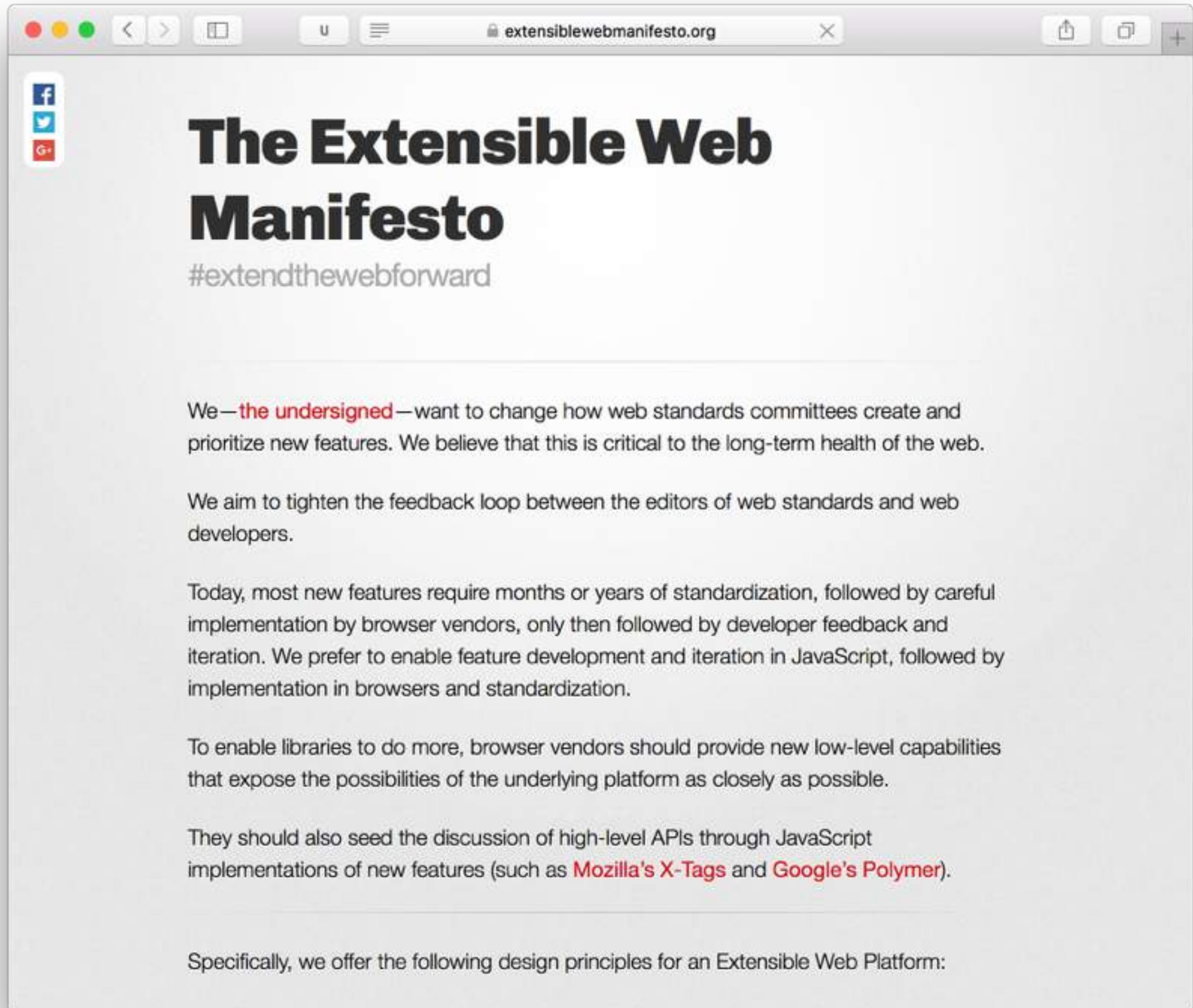


Brick

2013



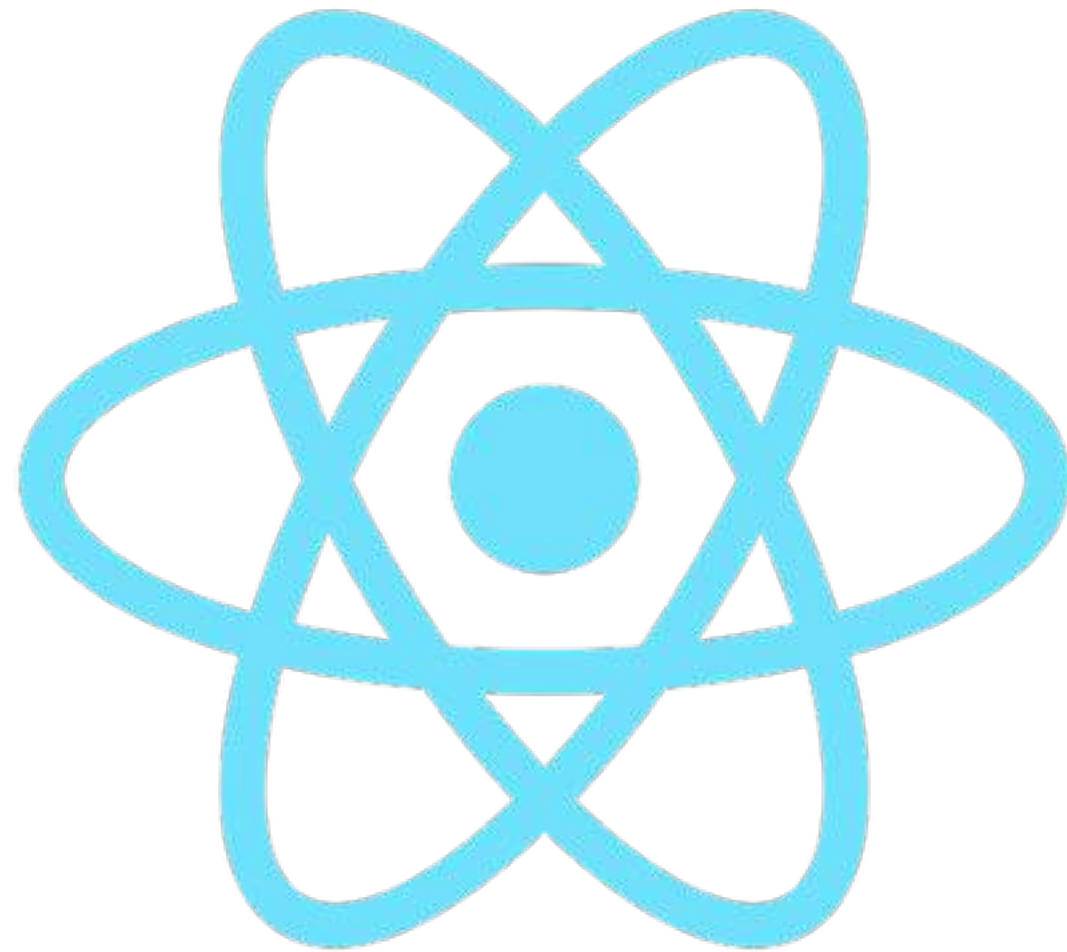






ANGULARJS  
by Google





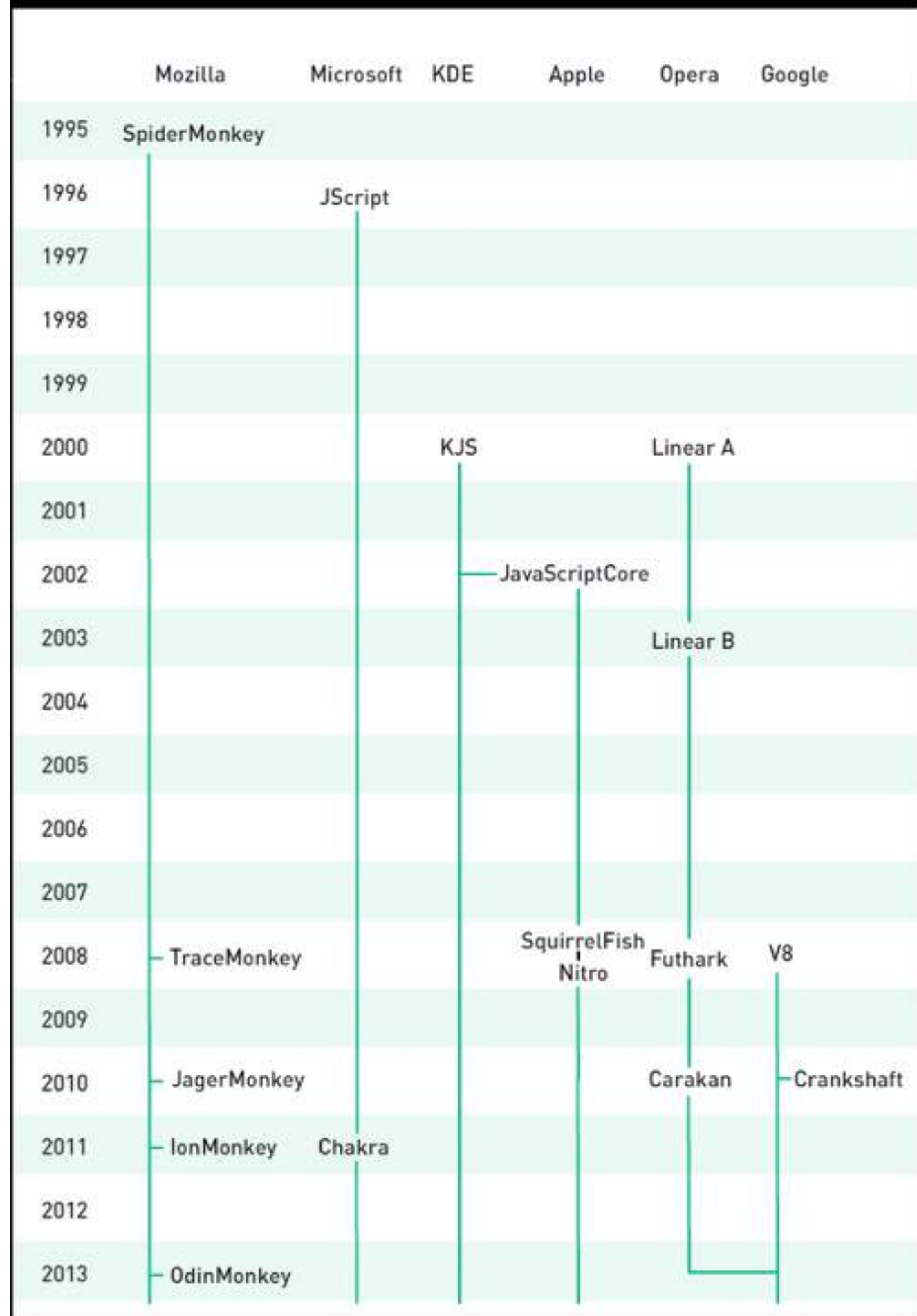


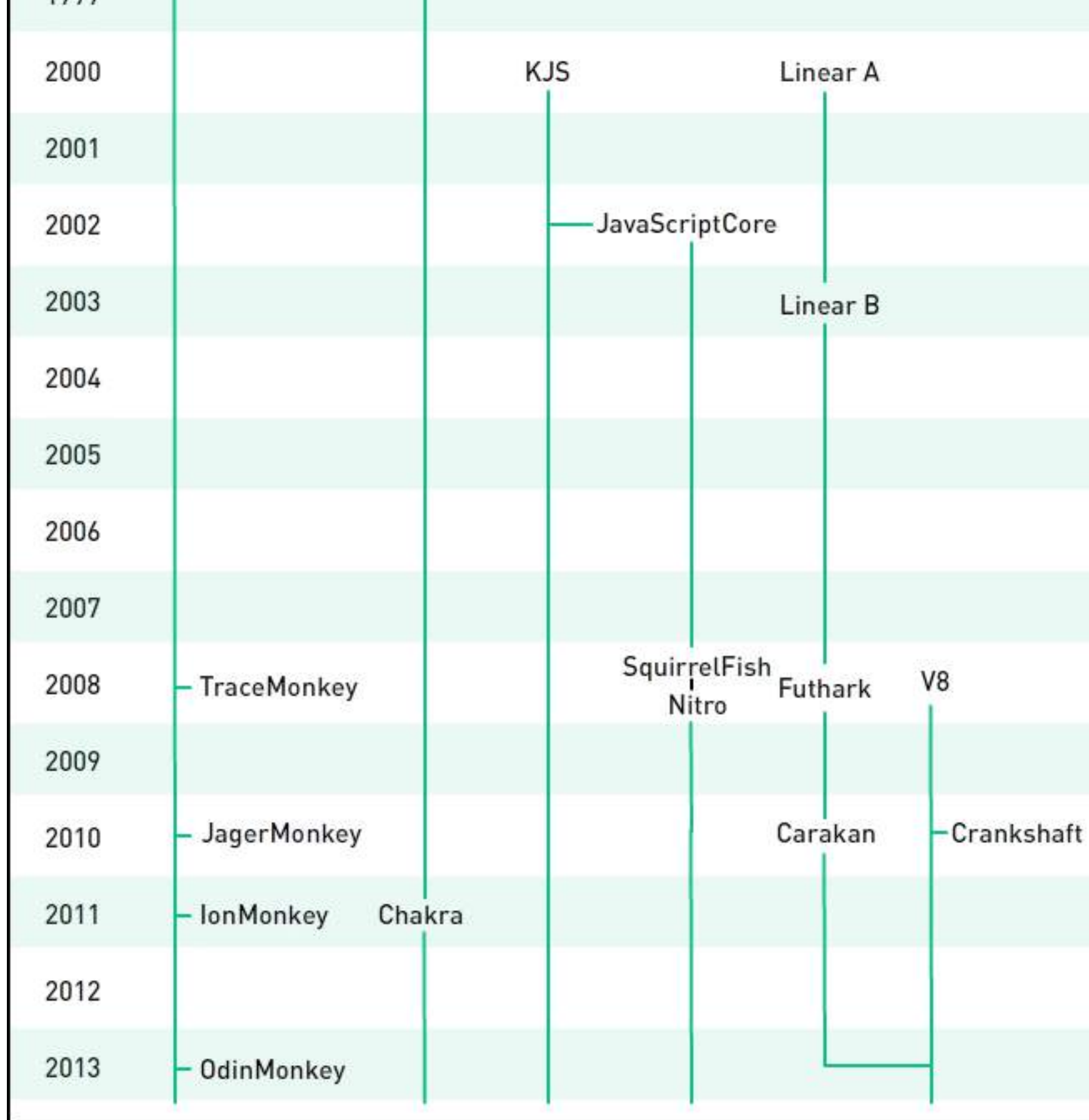


```
<google-map  
  latitude="37.77493"  
  longitude="-122.41942"></google-map>
```

```
<brick-tabbar id="demo-bar">
  <brick-tabbar-tab target="a" selected>
    <i class="fa fa-camera-retro"></i>
  </brick-tabbar-tab>
  <brick-tabbar-tab target="b">
    <i class="fa fa-envelope"></i>
  </brick-tabbar-tab>
  <brick-tabbar-tab target="c">
    <i class="fa fa-home"></i>
  </brick-tabbar-tab>
</brick-tabbar>
```

# JavaScript Engine Family Tree





**asm.js**



mozilla



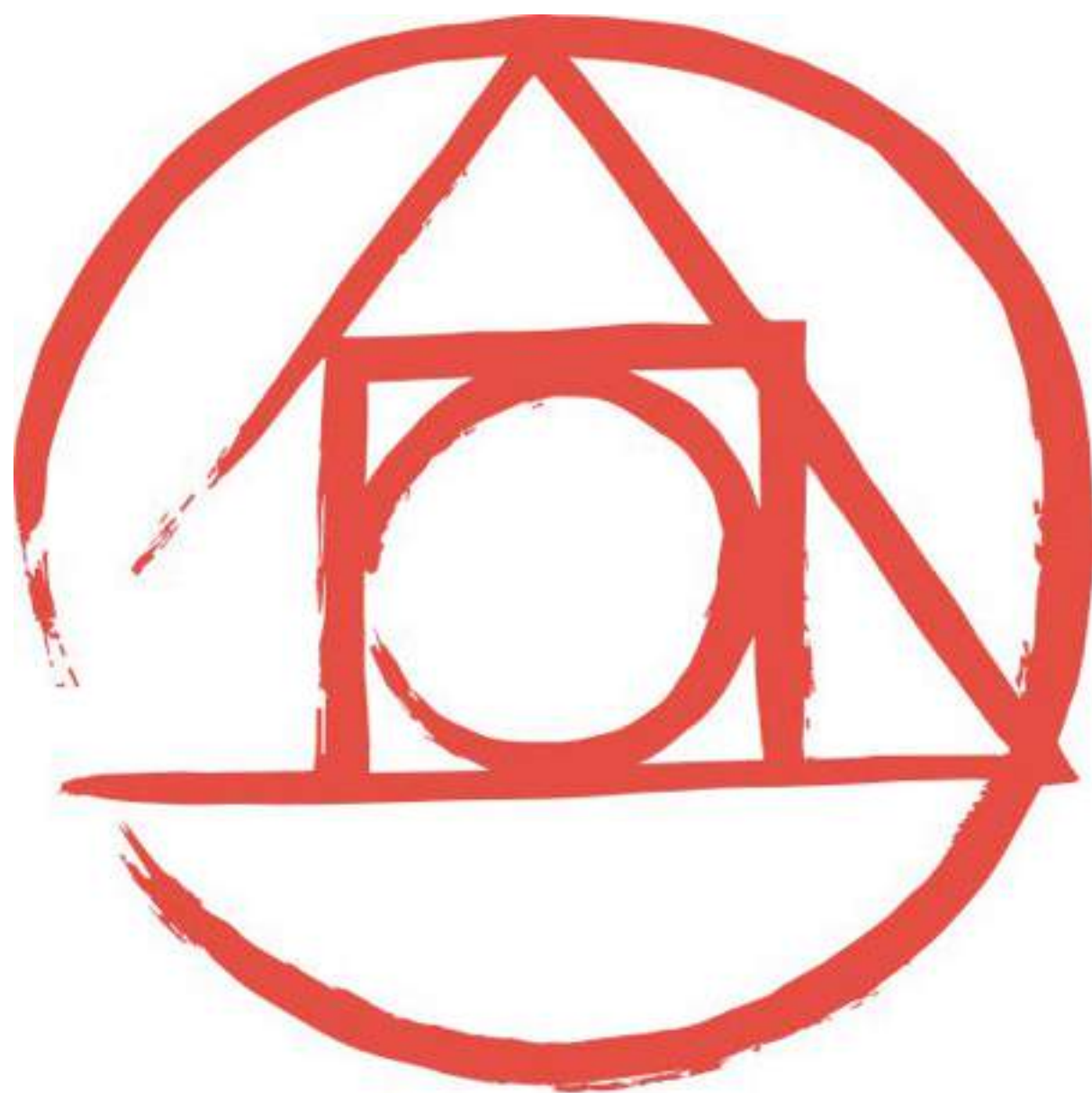
2014

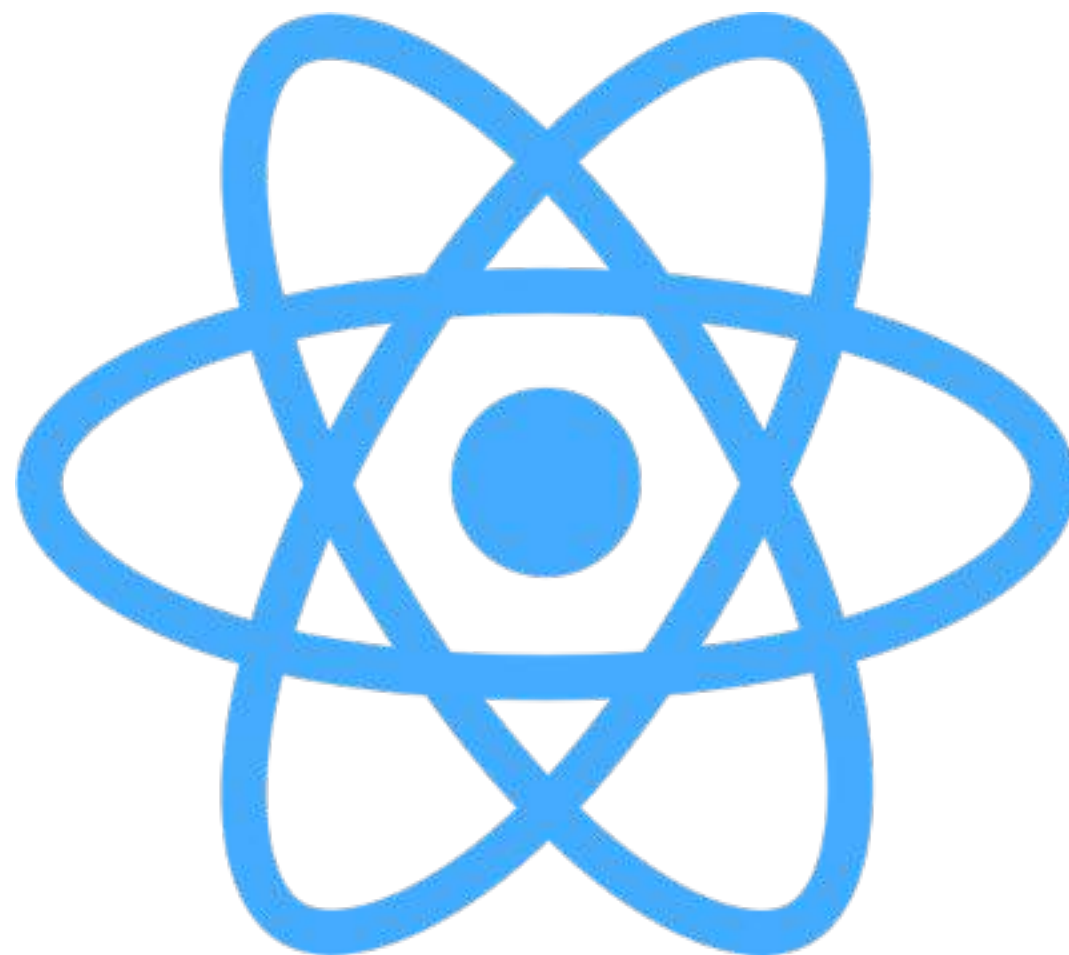


# ESLint

6705



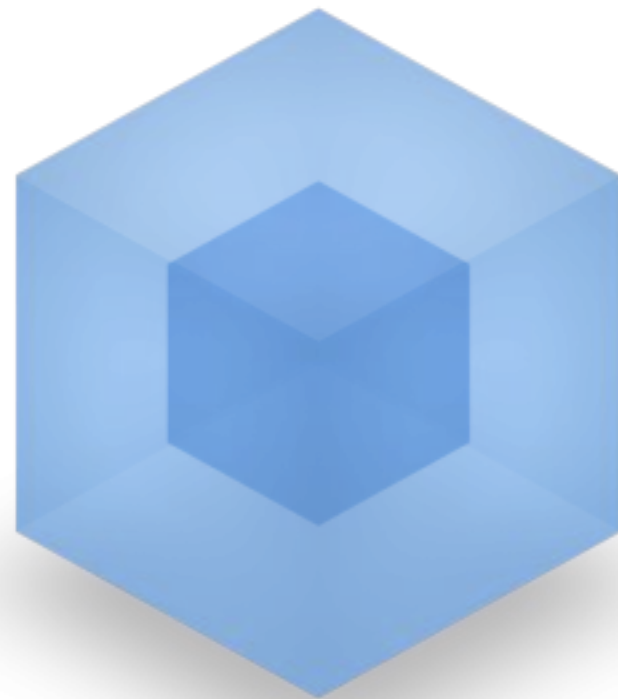






2015

*BABEL*



**webpack**  
MODULE BUNDLER



# Glimmer



**Standard** ECMA-262

6<sup>th</sup> Edition / June 2015

**ECMAScript® 2015  
Language Specification**

**Standard**

Rue du Rhône 114 CH-1204 Geneva T: +41 22 849 6000 F: +41 22 849 6001









# U.S. Web Design Standards

Open source UI components and visual style guide to create consistency and beautiful user experiences across U.S. federal government websites.

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# WebAssembly



# Relay

- Use GraphQL to communicate with server
- Try to replace RESTful API

# GraphQL

```
{  
  user(id: 3500401) {  
    id,  
    name,  
    isViewerFriend,  
    profilePicture(size: 50) {  
      uri,  
      width,  
      height  
    }  
  }  
}
```

