



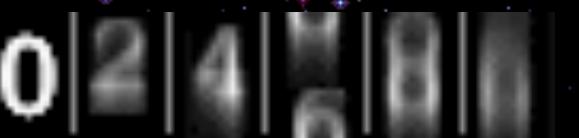
**Building websites like it's  
1999**

DARKO KUKOVEC

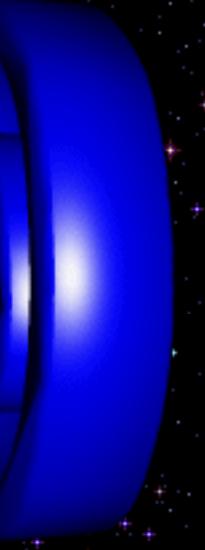


# Building websites like it's 1999

Darko Kukovec



GUESTBOOK





**Building websites like it's  
1999\***

DARKO KUKOVEC



CONTEXT



*The number of Internet users worldwide reaches  
150 million by the beginning of 1999*



**INTERNET**



**PARTY**



*The Melissa and Chernobyl viruses afflict  
computers worldwide, forcing several large  
corporations to shut down their e-mail servers.*



*Y2K Scare*



# *The Matrix*

*Google! Beta*



Search the web using Google

Google Search

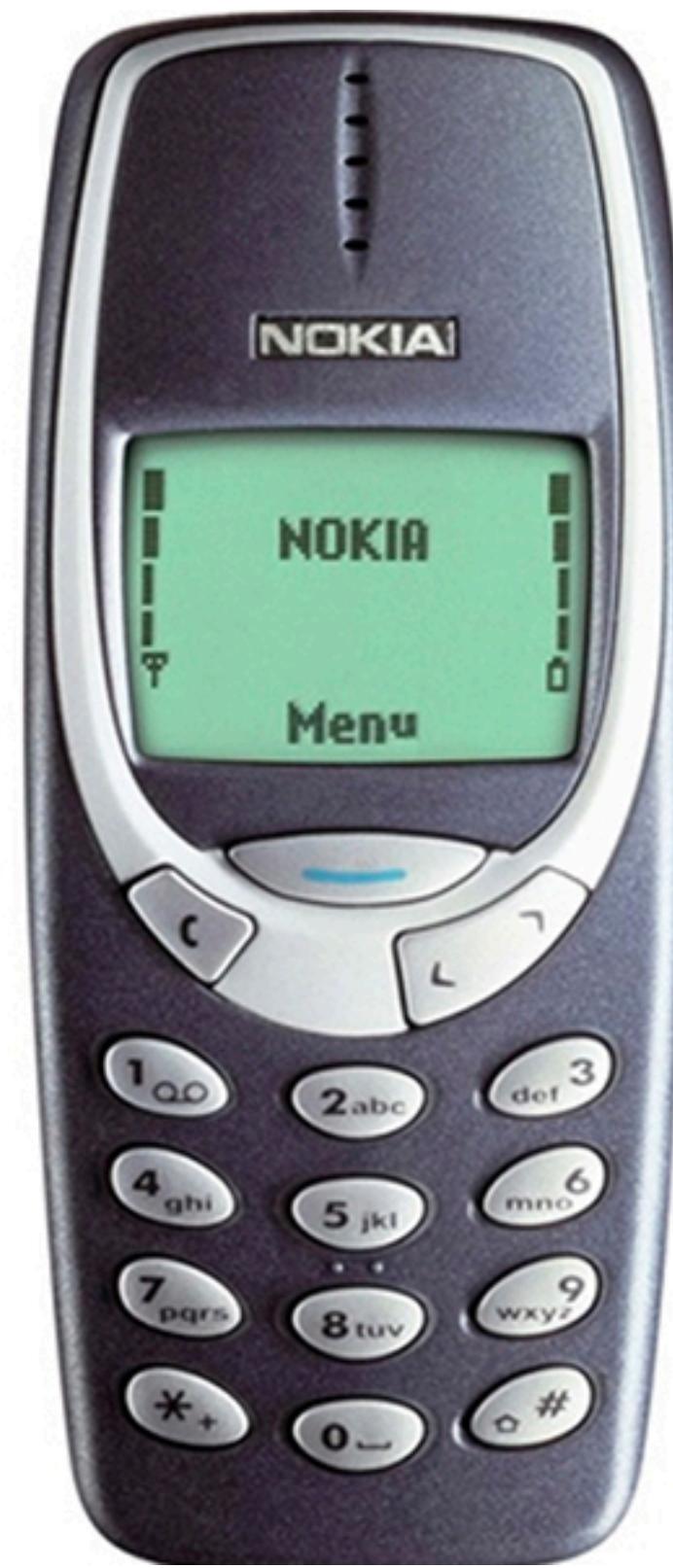
I'm feeling lucky

[More Google!](#)

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WHY?

## ARTICLES LIKE THIS

[How it feels to learn JavaScript in 2016](#)



STATE OF THE ART WEB

# <MARQUEE>

The HTML `<marquee>` element is used to insert a scrolling area of text. You can control what happens when the text reaches the edges of its content area using its attributes.

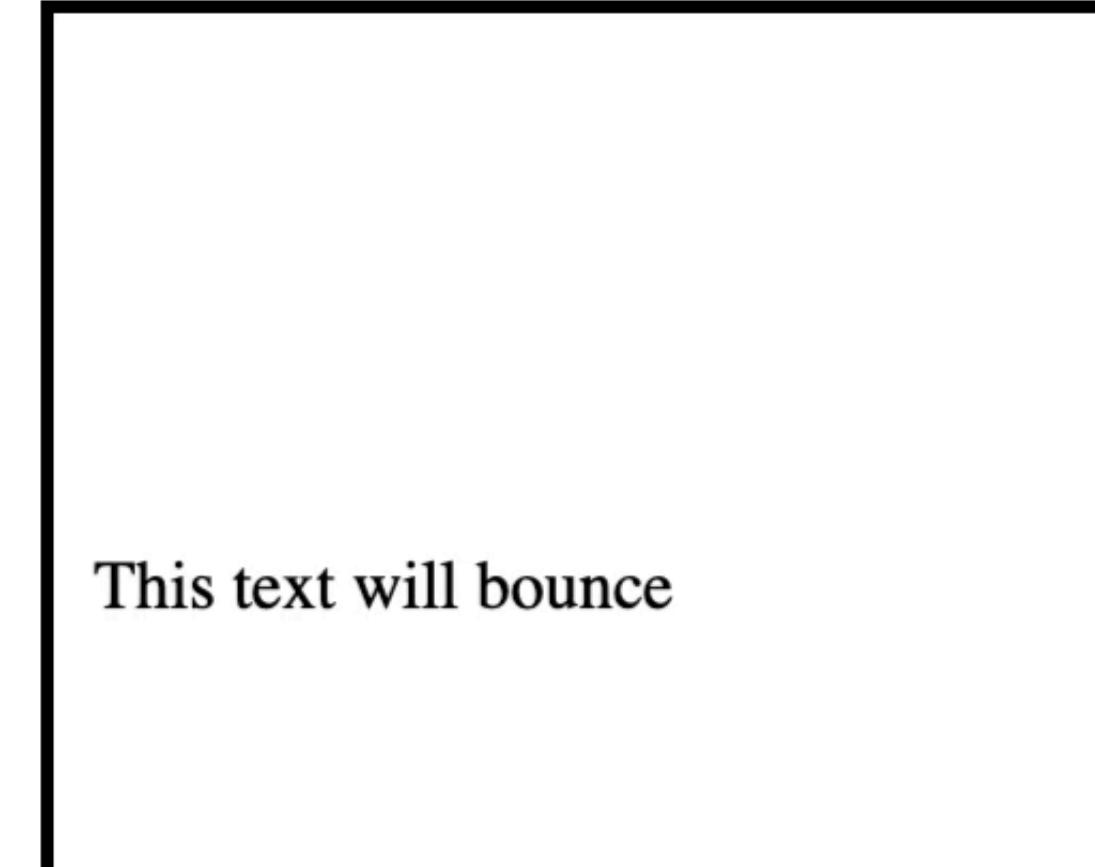
```
<marquee>This text will scroll from right to left</marquee>
```

```
<marquee direction="up">This text will scroll from bottom to top</marquee>
```

```
<marquee direction="down" width="250" height="200" behavior="alternate" style="border:solid">
  <marquee behavior="alternate">
    This text will bounce
  </marquee>
</marquee>
```

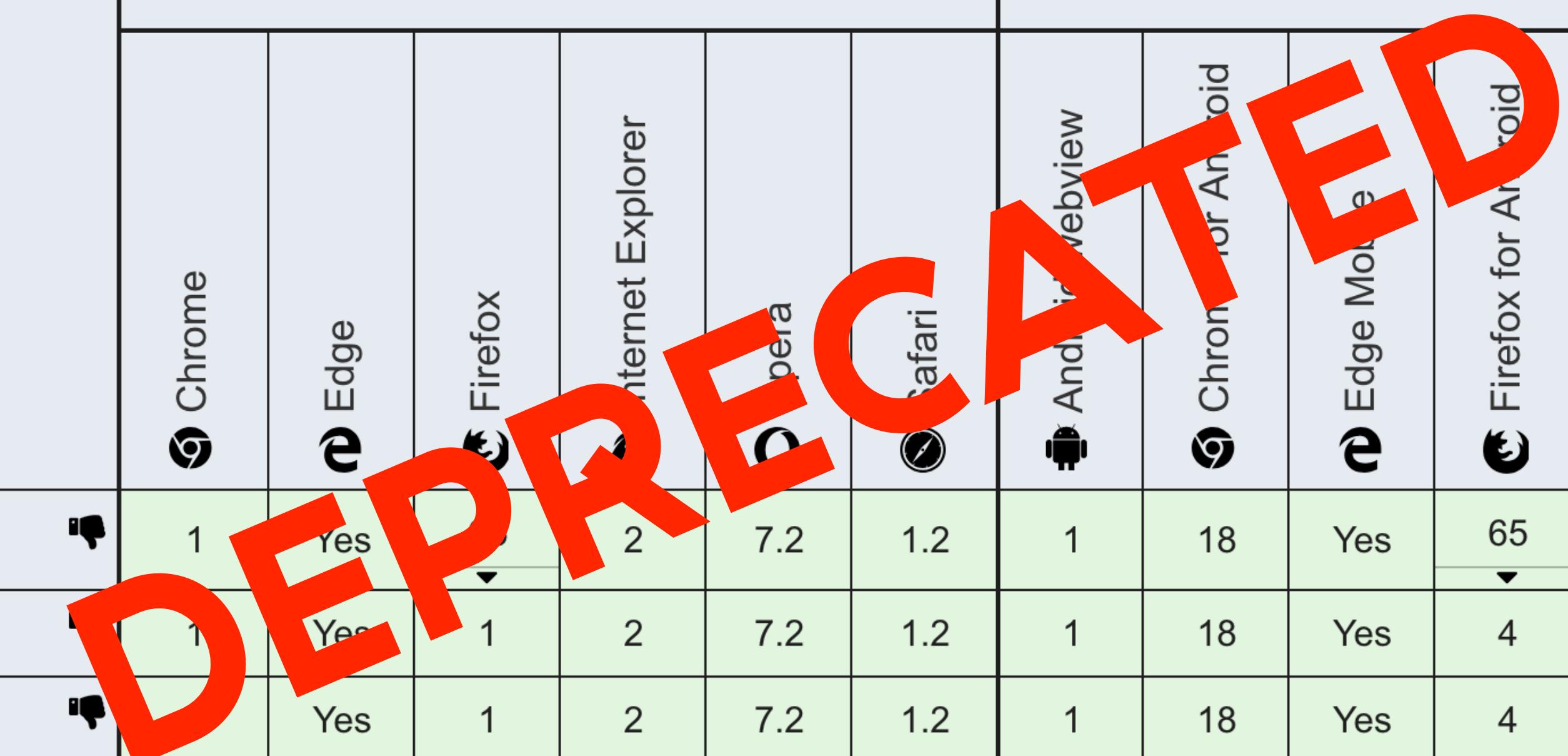
roll from right to left

This text will scroll from bottom to top



# <MARQUEE> BROWSER SUPPORT

Yes.



	Chrome	Edge	Firefox	Internet Explorer	Opera	Safari	Android Webview	Chrome for Android	Edge Mobile	Firefox for Android	Opera for Android	Safari on iOS
marquee	1	Yes	2	7.2	1.2	1	18	Yes	65	10.1	Yes	
behavior	1	Yes	1	2	7.2	1.2	1	18	Yes	4	10.1	Yes
bgcolor	1	Yes	1	2	7.2	1.2	1	18	Yes	4	10.1	Yes
direction	1	Yes	1	2	7.2	1.2	1	18	Yes	4	10.1	Yes
height	1	Yes	1	2	7.2	1.2	1	18	Yes	4	10.1	Yes
hspace	Yes	Yes	3	?	Yes	?	Yes	Yes	Yes	4	Yes	?
loop	Yes	Yes	3	?	Yes	?	Yes	Yes	Yes	4	Yes	?

# <BLINK>

**The HTML Blink Element (<blink>) is an element which causes the enclosed text to flash slowly.**

<blink>Why would somebody use this?</blink>

Why would somebody use this?

# <BLINK> BROWSER SUPPORT

No?

- Netscape 3+
- Firefox -23
- Opera -15

```
.blink {  
  text-decoration: blink;  
}
```

```
blink {  
  animation: 2s linear infinite condemned_blink_effect;  
}  
  
@keyframes condemned_blink_effect {  
  0% {  
    visibility: hidden;  
  }  
  50% {  
    visibility: hidden;  
  }  
  100% {  
    visibility: visible;  
  }  
}
```

# OPACITY

```
// Standards FTW  
opacity: 0.5;
```

```
// IE 5-7  
width: 100%;  
filter: alpha(opacity=50);
```

```
// IE 8-9  
-ms-filter:"progid:DXImageTransform.Microsoft.Alpha(Opacity=50);
```

# TABLES

Like CSS grid, but works in IE 5  
and is not responsive



# SPACER GIF

Before CSS, a 1px transparent .gif was used to control blank space within a web page, and could be resized by it's width and height attributes.

*spacer.gif – 1x1px transparent, 32 bytes*

```
data:image/gif;base64,R0lGODlhAQABAAAAACH5BAEAAAAALAAAAAABAAEAAI=
```

```
47 49 46 38 39 61 01 00 01 00 00 00 00 00 21 F9 04  
01 00 00 00 00 2C 00 00 00 00 01 00 01 00 00 02
```

## BORDER-RADIUS

```
.box-radius {  
  border-radius: 15px;  
  behavior: url(border-radius.htc);  
  /* Like Houdini, but for IE 6-9!!! */  
}
```

**CSS-TRICKS: ROUNDED CORNERS (25MIN)**

[https://www.youtube.com/watch?v=CjYF\\_H4Z0gE](https://www.youtube.com/watch?v=CjYF_H4Z0gE)

# <FRAME>, <FRAMESET>

<frame> is an HTML element which defines a particular area in which another HTML document can be displayed. A frame should be used within a <frameset>.

```
<frameset cols="50%,50%">
  <frame src="https://developer.mozilla.org/en/HTML/Element/iframe" />
  <frame src="https://developer.mozilla.org/en/HTML/Element/frame" />
</frameset>
```

# <FRAME>, <FRAMESET> BROWSER SUPPORT

Yes.

# <MAP>, <AREA> BROWSER SUPPORT

Make parts of an image clickable

HTML    CSS

```
1 <map name="infographic">
2   <area shape="poly" coords="130,147,200,107,254,219,130,228"
3     href="https://developer.mozilla.org/docs/Web/HTML"
4     target="_blank" alt="HTML" />
5   <area shape="poly" coords="130,147,130,228,6,219,59,107"
6     href="https://developer.mozilla.org/docs/Web/CSS"
7     target="_blank" alt="CSS" />
8   <area shape="poly" coords="130,147,200,107,130,4,59,107"
9
10  href="https://developer.mozilla.org/docs/Web/JavaScript"
11    target="_blank" alt="JavaScript" />
12 </map>
13 
```

Output



# <MAP>, <AREA> BROWSER SUPPORT

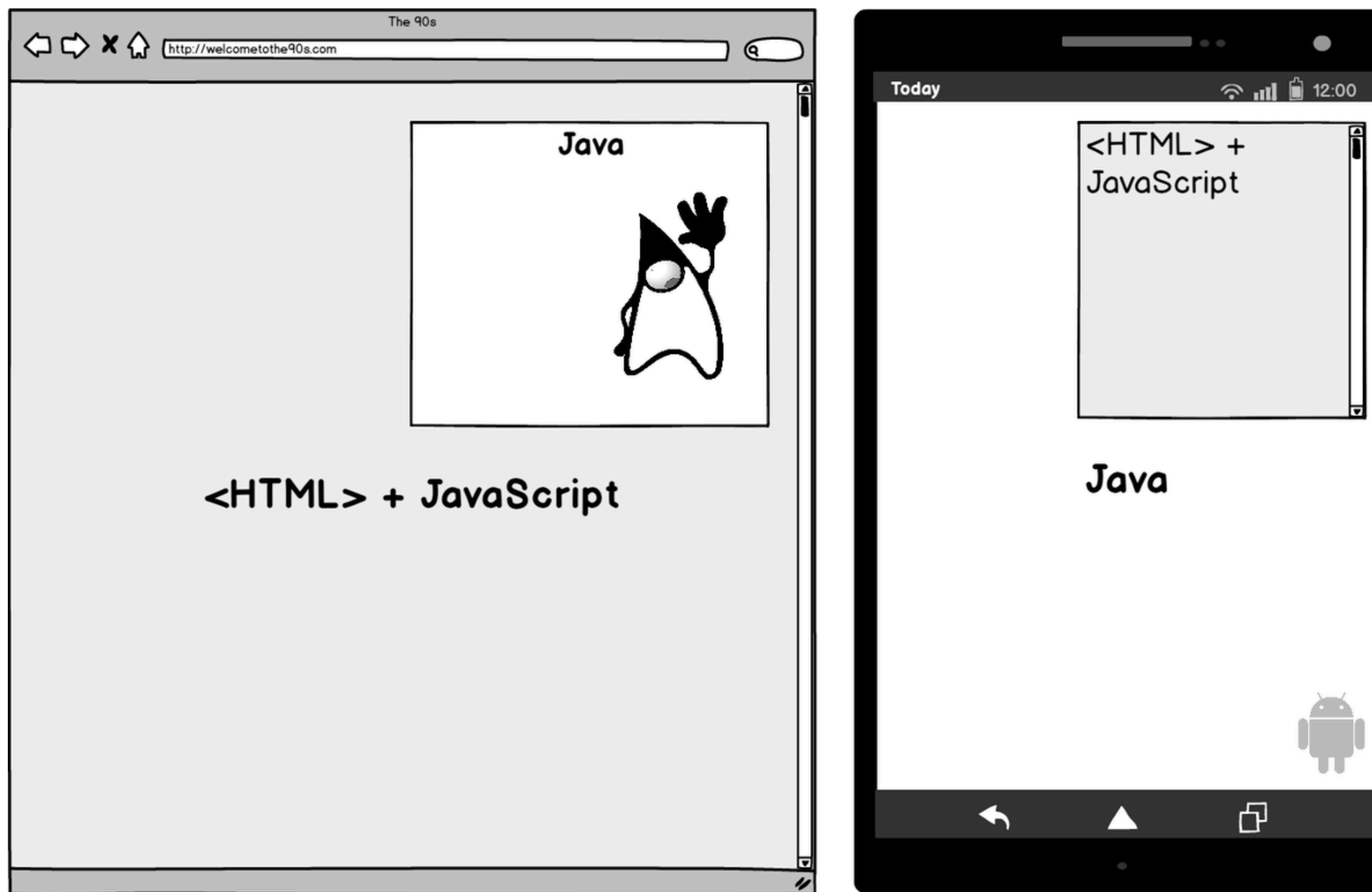
Yes.

# VENDOR PREFIXES

- Theory: Implement new, still unstandardized features so developers can test them out
- Reality: Everyone started using them
- Problem: Each browser has own, slightly different

```
background: #1e5799;  
/* Old browsers */  
  
background: -moz-linear-gradient(top, #1e5799 0%, #2989d8 50%, #207cca 51%, #7db9e8 100%);  
/* FF3.6-15 */  
  
background: -webkit-linear-gradient(top, #1e5799 0%,#2989d8 50%,#207cca 51%,#7db9e8 100%);  
/* Chrome10-25,Safari5.1-6 */  
  
background: linear-gradient(to bottom, #1e5799 0%,#2989d8 50%,#207cca 51%,#7db9e8 100%);  
/* W3C, IE10+, FF16+, Chrome26+, Opera12+, Safari7+ */  
  
filter: progid:DXImageTransform.Microsoft.gradient( startColorstr='#1e5799' , endColorstr='#7db9e8' , GradientType=1 );  
/* IE6-9 */
```

# <APPLET>



# <APPLET> BROWSER SUPPORT

No.

- Chrome – No since 48
- Firefox – No since 57
- Opera – No since 35
- Safari – Yes (desktop only)
- IE – Yes
- Edge – Yes

# DEBUGGING

*"Debuggers don't remove bugs. They only show them in slow motion." - Unknown*

*alert('This is a debugging message')*

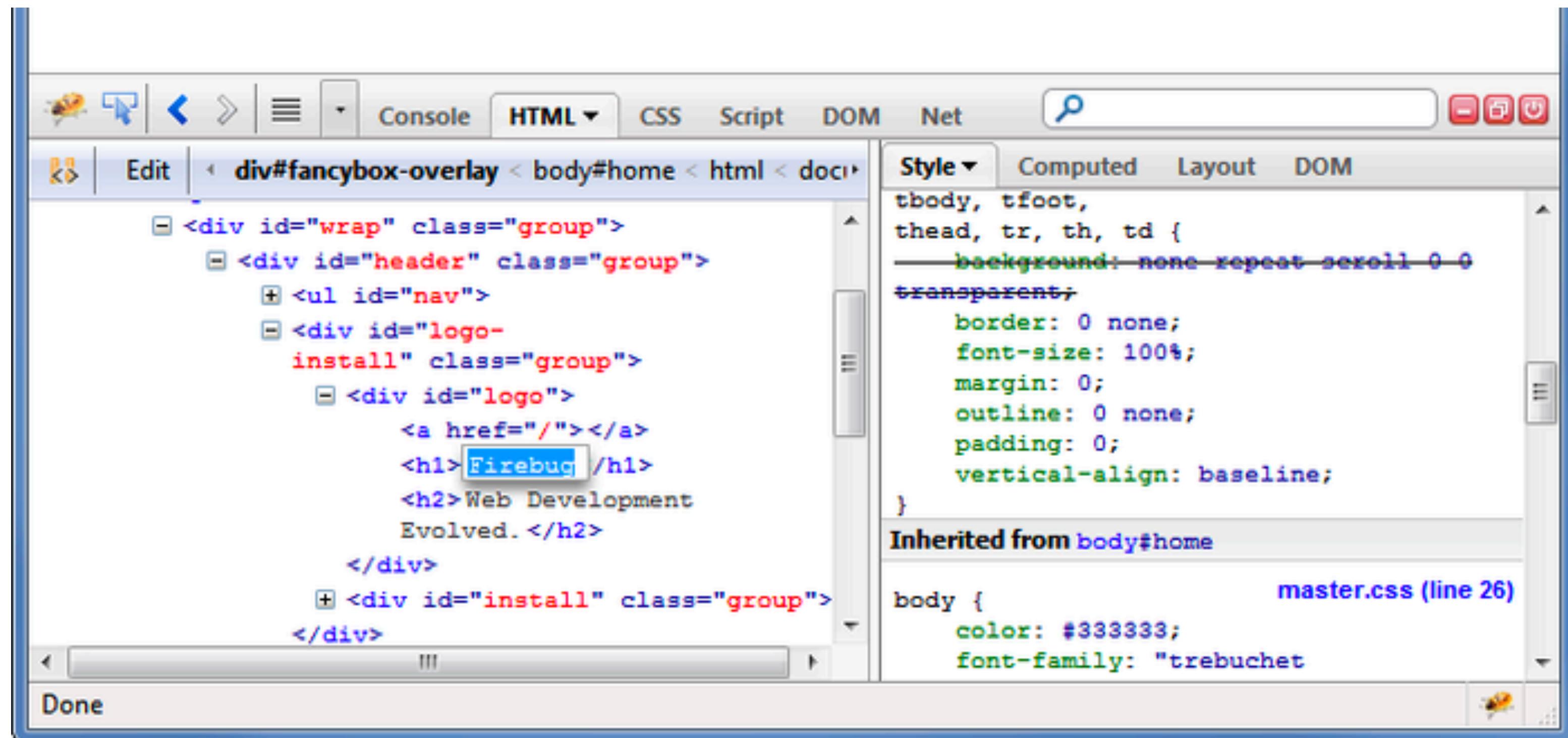
# FIREBUG



2006 – Console with Ajax logging

2007 – Other features

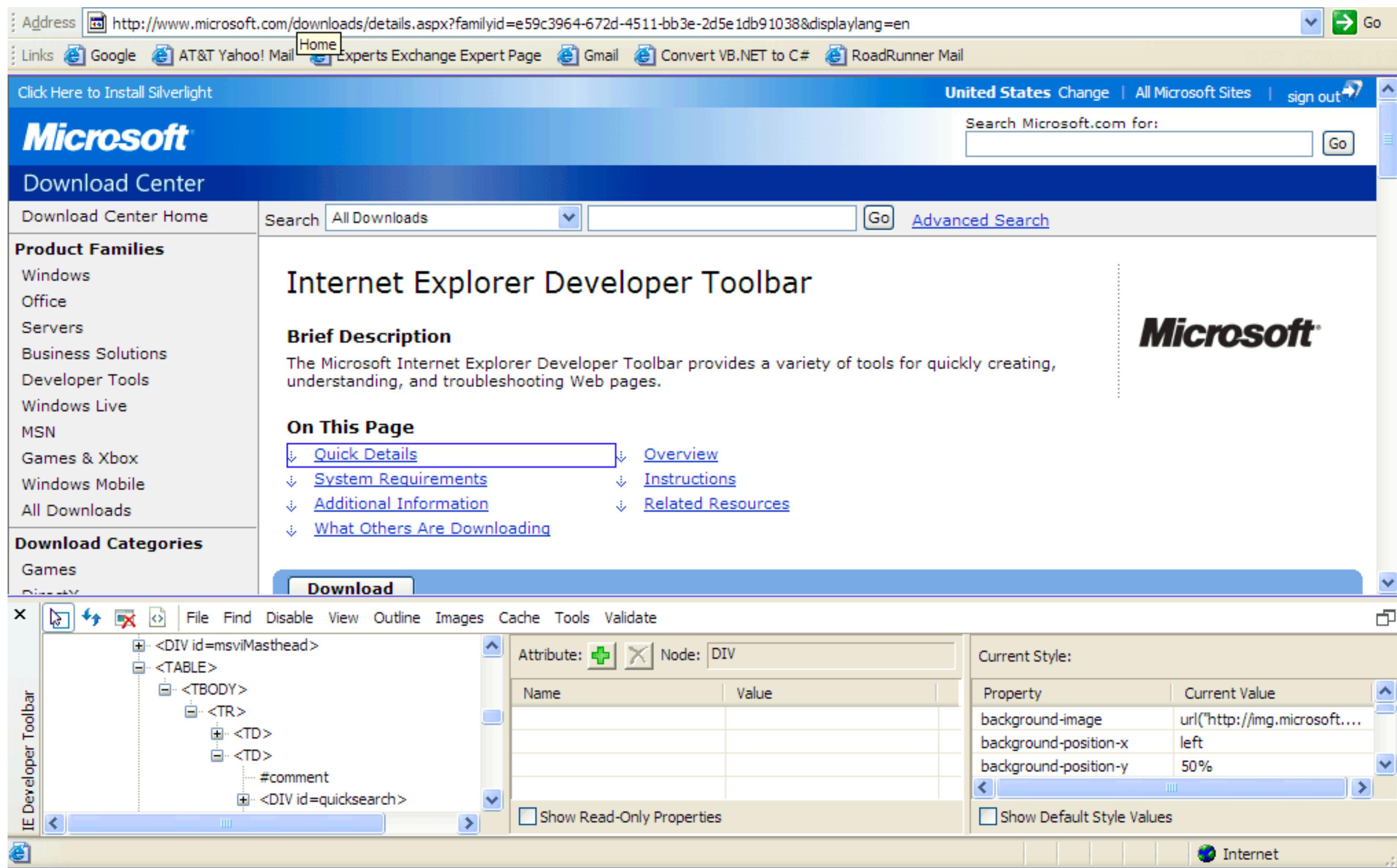
2016 – Merge with Firefox DevTools



# IE DEVTOOLS

IE 6/7 – Toolbar extension

IE 8+ F12 DevTools



# WEINRE

weinre is WEb INspector REmote. Pronounced like the word "winery". Or maybe like the word "weiner". Who knows, really.





# 15

## BUILD TOOLS

REMEMBER WHEN WE  
DIDN'T NEED WEBPACK?





Microsoft

 Microsoft Office  
**FrontPage® 2003**

Copyright © 1995-2003 Microsoft Corporation. All rights reserved.



Kresimir files to serve with pow.

ae12f59 on 14 Jan 2013

0 contributors

Executable File | 43 lines (32 sloc) | 795 Bytes

Raw Blame History

```
1  #!/usr/bin/env ruby
2  $LOAD_PATH.unshift(File.expand_path('.'))
3  $LOAD_PATH.unshift(File.expand_path('lib'))
4
5  require "rubygems"
6  require "bundler/setup"
7
8  require 'rubygems'
9  require 'sinatra'
10 require "bastard_deployer"
11
12 set :public, "app" #File.join(File.expand_path(File.dirname(__FILE__)))
13
14 def index
15   content_type 'text/html', :charset => 'windows-1250'
16   # rebuild sass files
17   `cd app/sass/sass && bundle exec compass compile -c config-development.rb && cd ../../..`
18
19   b = BastardDeployer.new
20   b.get_html_output
21 end
22
23 get '/app.manifest' do
24   content_type 'text/cache-manifest'
25   File.read('app/app.manifest')
26 end
27
28 get '/' do
29   index
30 end
31
32 set :index_html, do
```

**WANT A BUILD SYSTEM?  
WHY NOT RUBY**  
-\\(ツ)\_/-



Kresimir Antolic Added native calls.

70c7b87 on 12 Jun 2012

2 contributors



43 lines (38 sloc) | 1.1 KB

[Raw](#)[Blame](#)[History](#)

```
1 var javascripts = [
2   "javascripts/lib/cache",
3   "javascripts/lib/sencha-touch",
4   "javascripts/lib/sencha-extensions",
5   "javascripts/lib/",
6   "javascripts/lib/",
7   "javascripts/lib/",
8   "javascripts/lib/template",
9   "javascripts/lib/utility",
10  "javascripts/lib/helpers",
11  "javascripts/lib/nativeCalls",
12  "javascripts/application",
13  "javascripts/controls",
14  "javascripts/lib",
15  "javascripts/models",
16  "javascripts/stores",
17
18
19  "javascripts/screens",
20  "javascripts/screens/basic",
21  "javascripts/screens/",
22  "javascripts/screens/",
23  "javascripts/screens/",
24  "javascripts/screens/",
25  "javascripts/screens/",
26  "javascripts/screens/messages",
27  "javascripts/screens/
```

# WHEN WE DID TREE SHAKING ONLY TO GET APPLES

# 460LOC GRUNTFILE.JS

```
154 compass: {
155   options: {
156     sassDir: '<%= yeoman.app %>/styles',
157     cssDir: '.tmp/styles',
158     imagesDir: '<%= yeoman.app %>/images',
159     javascriptsDir: '<%= yeoman.app %>/scripts',
160     fontsDir: '<%= yeoman.app %>/styles/fonts',
161     importPath: '<%= yeoman.app %>/bower_components',
162     relativeAssets: true
163   },
164   dist: {},
165   server: {
166     options: {
167       debugInfo: true
168     }
169   }
170 },
171
172 requirejs: {
173   dist: {
174     options: {
175       // `name` and `out` is set by grunt-usemin
176       baseUrl: '<%= yeoman.app %>/scripts',
177       optimize: 'none',
178       paths: {
179         templates: '../tmp/scripts/templates'
180       },
181       // TODO: Figure out how to make sourcemaps work with grunt-usemin
182       // https://github.com/yeoman/grunt-usemin/issues/30
183       //generateSourceMaps: true,
184       // required to support SourceMaps
185       // http://requirejs.org/docs/errors.html#sourcemapcomments
186       preserveLicenseComments: false,
187       useStrict: true
188       //uglify2: {} // https://github.com/mishoo/UglifyJS2
189     }
190   }
191 },
```

# 170LOC WEBPACK.CONFIG.JS

```
123 module: {
124   loaders: [MODERN ? {} : {
125     test: /\.js$/,
126     exclude: /(node_modules|vendor)/,
127     loader: 'babel-loader',
128     options: {
129       presets: ['latest']
130     }
131   }, {
132     test: /\.hbs$/,
133     loader: 'handlebars-template-loader'
134   }, {
135     test: /\.svg$/,
136     include: /svg-templates/,
137     loader: 'handlebars-template-loader'
138   }, {
139     test: /\.json$/,
140     loader: 'json-loader',
141     exclude: /mock/
142   }, {
143     test: /modules.*\.\scss$/,
144     loader: localStyleLoaders
145   }, {
146     test: /\.scss$/,
147     exclude: /modules/,
148     loader: globalStyleLoaders
149   }, {
150     test: /\.(woff|woff2|ttf|eot|svg|jpg|gif|png|mp4|ogg|webm)\$/,
151     exclude: /svg-templates/,
152     loader: 'file-loader'
153   }, {
154     test: /mock/,
155     loader: 'url-loader'
156   }]
157 }
158 };
```

**BACK IN MY DAY**



**WE DIDN'T NEED  
200MB OF NODE\_MODULES**



**BACK IN MY DAY**

**WE DIDN'T NEED  
200MB OF NODE\_MODULES**

- CSS
  - NO SCSS
  - NO CSS-IN-JS
- HTML
  - NO HANDLEBARS
  - NO JSX
  - NO PUG
- JS
  - NO DEPENDENCIES
  - NO "MODERN" JS
  - NO FILE STRUCTURE
  - NO FRAMEWORKS
- BROWSER COMPATIBILITY



**BACK IN MY DAY**

**WE DIDN'T NEED  
200MB OF NODE\_MODULES**

## CHALLENGE

THINK OF THE PROJECT YOU'RE WORKING ON.

WHAT IF YOU WOULD NEED TO CREATE IT WITH ONLY JQUERY

WHAT IF YOU NEED TO DO IT WITHOUT ANY LIBRARY?

WHAT IF IT NEEDED TO SUPPORT IE 9?

The argument that React is bad because in 1997 you could make a website with vanilla JS in Notepad is like saying modern automotive factories are bad because in 1897 you could make a car with a horse and some wood.

In 1997 we weren't building applications, we were writing documents. The landscape has evolved, so too must the tools.

Web development is more complex now, and that's a good thing, because it means we can build sophisticated applications that solve a wider variety of problems. |

– Unknown (Internets)



# Thank you!



**Una Kravets**    
@Una



You can learn anything, but you can't learn everything 

So accept that, and focus on what matters to you

 1,200 6:38 PM - Sep 1, 2017

