

HTML5 and CSS3: A discussion

Seacoast WordPress Developers Group
January 2013

About Me

- Web developer since mid-90s
- PHP, Ruby on Rails, MySQL, PostgreSQL
- Proponent of Linux desktop & server
- Blogging since 2002, WordPress since 2007

Outline

- Terminology: HTML, CSS, JS, W3, WHATWG
- Usage: what goes where
- HTML5: the standards
- CSS3: the standards
- What Can I Use?
- Where do you learn this stuff?

Terminology

- HTML: Content
- CSS: Presentation
- JS: Actions
- W3C: the standards body: <http://w3.org>
- WHATWG: Web Hypertext Application Technology Working Group: <http://whatwg.org>

```
<html>
<head>...
<body>
<h1>
<h2>
<p>...</p>
<ol><li><li>
```

Content

Headings
Paragraphs
Lists
Images
Links

```
<style>
Body {
  color:...
ul#mylist {
  font-family
</style>
```

Presentation

Colors
Fonts
Positioning

```
<script type=
"text/javascript"
```

Behavior

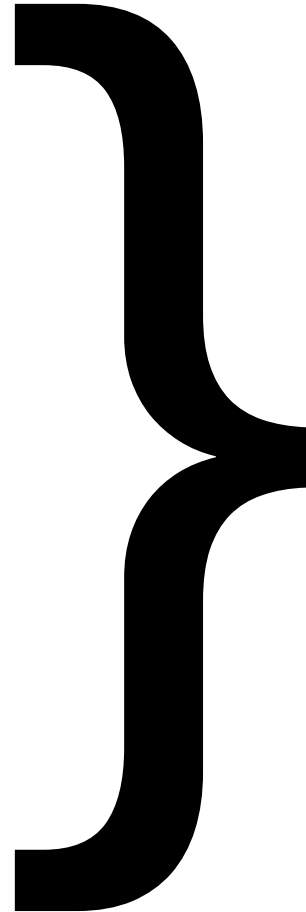
AJAX data manipulation
Error checking
pop-up calendars
special effects

HTML5: the standards

- HTML5 is a reboot of W3C thanks to WHATWG
- Not one document but many working groups
- Not one org, but 2: W3C and WHATWG
- W3C ship no spec before it's finished
- WHATWG insists on HTML as a “living spec”
- The basics are simple: `<tag></tag>`

CSS3: terminology

```
img,  
figure.small,  
#footnote,  
a:hover  
{  
  color: rgba(20%,24%,48%,0.44);  
  background-color: transparent;  
  position: relative;  
  -moz-transition:    all 1s ease-in-out 0.2s;  
  -o-transition:     all 1s ease-in-out 0.2s;  
  -webkit-transition: all 1s ease-in-out 0.2s;  
  transition:        all 1s ease-in-out 0.2s;  
  -moz-transform:    rotate(1.0turn) scale(1.2);  
  -o-transform:      rotate(360deg) scale(1.2);  
  -webkit-transform: rotate(360deg) scale(1.2);  
  transform:         rotate(360deg) scale(1.2);  
}
```



Style Rule

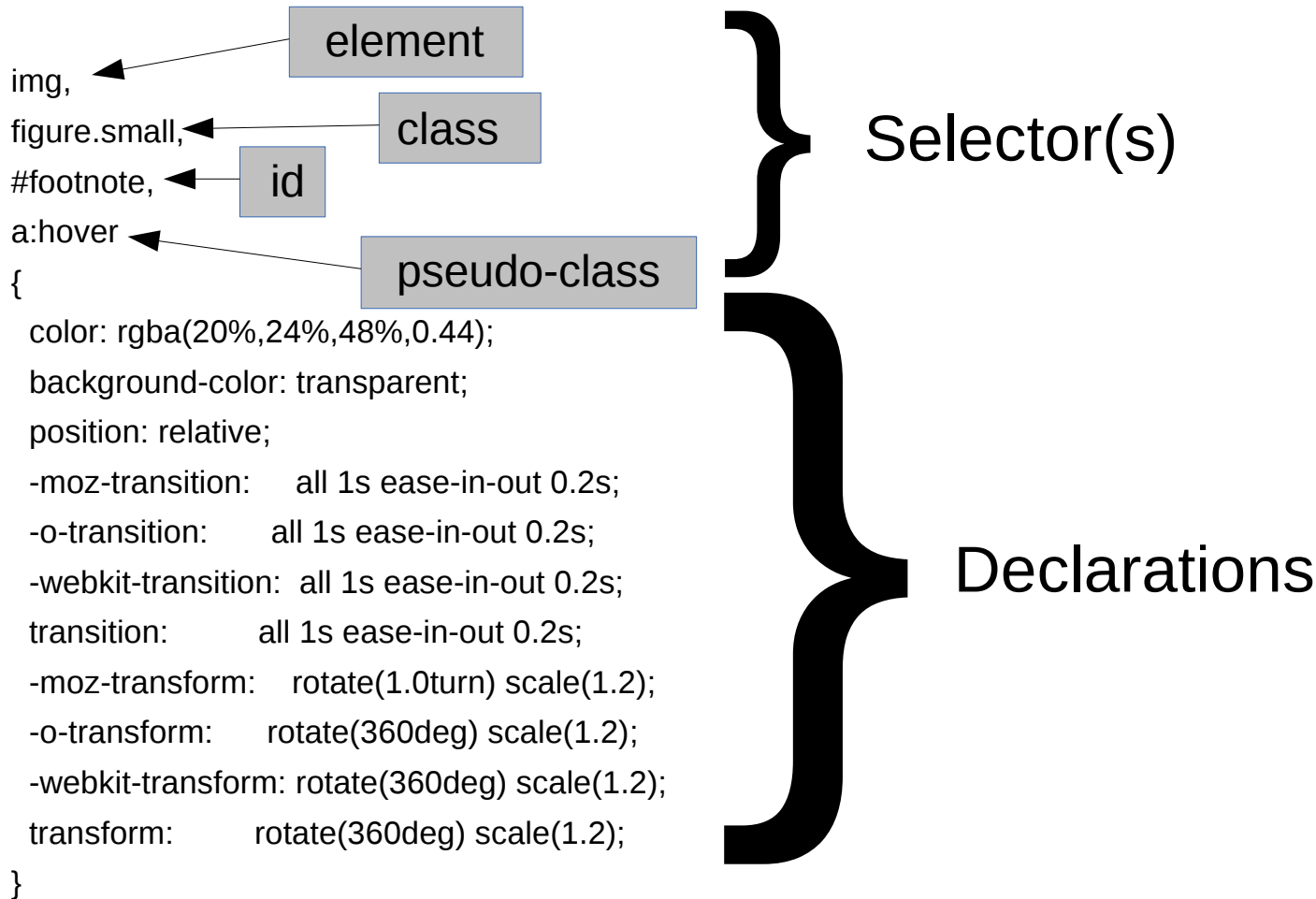
CSS3: terminology

```
img,  
figure.small,  
#footnote,  
a:hover  
{  
  color: rgba(20%,24%,48%,0.44);  
  background-color: transparent;  
  position: relative;  
  -moz-transition:    all 1s ease-in-out 0.2s;  
  -o-transition:     all 1s ease-in-out 0.2s;  
  -webkit-transition: all 1s ease-in-out 0.2s;  
  transition:        all 1s ease-in-out 0.2s;  
  -moz-transform:    rotate(1.0turn) scale(1.2);  
  -o-transform:      rotate(360deg) scale(1.2);  
  -webkit-transform: rotate(360deg) scale(1.2);  
  transform:         rotate(360deg) scale(1.2);  
}
```

} Selector(s)

} Declarations

CSS3: terminology



CSS3: terminology

```
img,  
figure.small,  
#footnote,  
a:hover  
{  
  color: rgba(20%,24%,48%,0.44);  
  background-color: transparent;  
  position: relative;  
  -moz-transition: all 1s ease-in-out 0.2s;  
  -o-transition: all 1s ease-in-out 0.2s;  
  -webkit-transition: all 1s ease-in-out 0.2s;  
  transition: all 1s ease-in-out 0.2s;  
  -moz-transform: rotate(1.0turn) scale(1.2);  
  -o-transform: rotate(360deg) scale(1.2);  
  -webkit-transform: rotate(360deg) scale(1.2);  
  transform: rotate(360deg) scale(1.2);  
}
```

} Selector(s)

} Declarations
name: value; pairs

CSS3: terminology

```
img,  
figure.small,  
#footnote,  
a:hover  
{  
  color: rgba(20%,24%,48%,0.44);  
  background-color: transparent;  
  position: relative;  
  -moz-transition: all 1s ease-in-out 0.2s;  
  -o-transition: all 1s ease-in-out 0.2s;  
  -webkit-transition: all 1s ease-in-out 0.2s;  
  transition: all 1s ease-in-out 0.2s;  
  -moz-transform: rotate(1.0turn) scale(1.2);  
  -o-transform: rotate(360deg) scale(1.2);  
  -webkit-transform: rotate(360deg) scale(1.2);  
  transform: rotate(360deg) scale(1.2);  
}
```

} Selector(s)

} Declarations

name: value; pairs

vendor-specific extensions

What Can I Use?

- Know your target audience
 - Analytics, in-house standards
- Check <http://caniuse.com> for compatibility
- Search for compatibility crutches, if necessary
 - Vendor-prefixed CSS
 - jQuery or Javascript “wedges” or “polyfill”

How can I test?

- In the browser: FireBug, Developer's Tools
- HTML compliance: <http://validator.w3.org>
- Cross-browser testing: <http://allbrowsers.com>
-

Where Do You Learn More?

- <http://reference.sitepoint.com>
- NOT w3schools! Why? <http://www.w3fools.com/>
- <http://html5doctor.com>
- <http://caniuse.com>
- <http://joshduck.com/periodic-table.html>
-

Summary

- HTML/CSS landscape rapidly evolving
- Research new features
- Test for compatibility
- Anticipate change