

HTML5 and Drupal Theming

Scott Vandehey
Front-End Web Developer
Metal Toad Media
@spaceninja

Quick Survey

Raise your hands if:

- You have heard of HTML5
- You have created a Drupal theme
- You have used HTML5 before

Why make a new
version of HTML?

**And why won't these
kids get off my lawn?**



HTML5 Design Principles

ref: bit.ly/html-principles

Image credit: Dale Stephanos



Support Existing Content



Degrade Gracefully

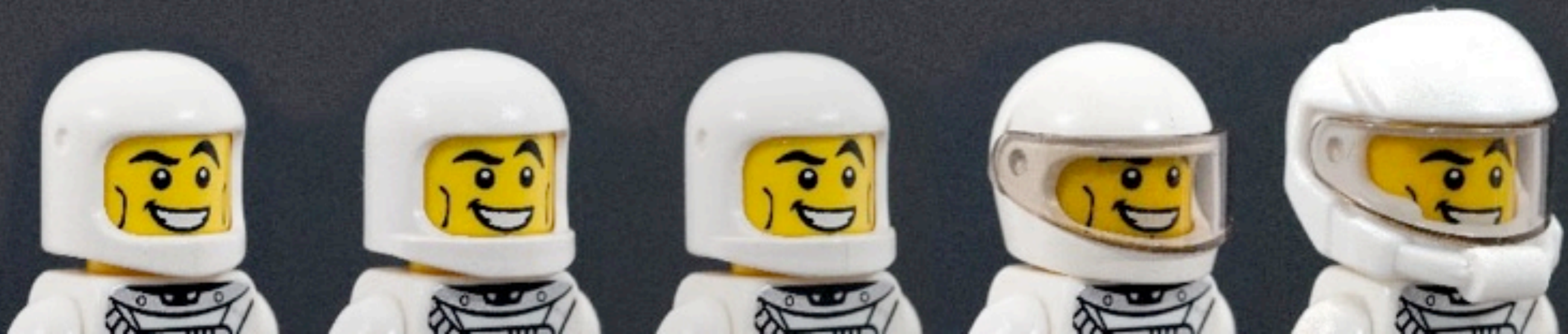
Photo credit: Jeremy Keith



Pave the Cowpaths

Priority of Constituencies

USERS > AUTHORS > IMPLEMENTORS > SPECIFIERS > PURITY



What's Changed?

39 new elements

36 new attributes

19 new APIs (at least)

185 line changelog

Sources: bit.ly/html5-diff bit.ly/html5-apis

I know
H.T.M.L.
(How to Meet Ladies)

Top 4 New Features

1. Rich Media

video & audio

Recognize this?

```
<object classid="clsid:d27cdb6e-ae6d-11cf-96b8-444553540000"
width="640" height="360" codebase="http://
download.macromedia.com/pub/shockwave/cabs/flash/
swflash.cab#version=6,0,40,0"><param name="flashvars"
value="guid=BQtFIEY1&width=640&height=360&locksize=no&dynamicseek=false&qc_publisherId=p-18-
mFEk4J448M" /><param name="src" value="http://v.example.com/
media/plugins/video/flvplayer.swf?ver=1.21" /><param
name="wmode" value="transparent" /><param
name="allowfullscreen" value="true" /><embed
type="application/x-shockwave-flash" width="640" height="360"
src="http://v.example.com/media/plugins/video/flvplayer.swf?
ver=1.21" allowfullscreen="true" wmode="transparent"
flashvars="guid=BQtFIEY1&width=640&height=360&locksize=no&dynamicseek=false&qc_publisherId=p-18-
mFEk4J448M"></embed></object>
```

That's better

```
<video src="movie.mp4"></video>
```

A little more detail

```
<video controls width="360" height="240"  
poster="preview.jpg" src="movie.mp4"></video>
```

Multiple sources

```
<video controls width="360" height="240">  
  <source src="movie.ogv">  
  <source src="movie.mp4">  
</video>
```

Source type attribute

```
<video controls width="360" height="240">  
  <source src="movie.mp4" type='video/mp4;  
    codecs="avc1.42E01E, mp4a.40.2"'>  
  <source src="movie.ogv" type='video/ogg;  
    codecs="theora, vorbis"'>  
</video>
```

Flash fallback

```
<video controls width="360" height="240"
poster="preview.jpg">
  <source src="movie.ogv" type="video/ogg">
  <source src="movie.mp4" type="video/mp4">
  <object type="application/x-shockwave-flash"
width="360" height="240" data="p.swf?f=movie.mp4">
  <param name="movie" value="p.swf?f=movie.mp4">
  <a href="movie.mp4">Download the movie.</a>
</object>
</video>
```

Audio, too!

```
<audio controls>  
  <source src="sound.ogg" type="audio/ogg">  
  <source src="sound.mp3" type="audio/mpeg">  
</audio>
```

Safari



Firefox



Chrome



IE8 (flash)



2. Better Forms

new input types
contentEditable
required
placeholder
and many more!

New input types

```
<input type="search">
```

```
<input type="email">
```

```
<input type="url">
```

```
<input type="tel">
```

Safari



```
<form>
```

```
  <input name="q" type="search">
```

```
  <input type="submit" value="Go">
```

```
</form>
```

diveintohtml5.org/exa... ↻

Google

Go

```
<form>
  <input type="email">
  <input type="submit" value
```

Previous Next AutoFill Done

Q W E R T Y U I O P

A S D F G H J K L

↑ Z X C V B N M ↵

_123 space @ . Go

<input type=number> - Dive Into HTML5
diveintohtml5.org/exa... Google

Go

```
<form>
  <input type="number">
  <input type="submit" value
```

Previous Next AutoFill Done

1 2 3 4 5 6 7 8 9 0
- / : ; () \$ & @ "
#+= . , ? ! '
ABC space Go

Enter your email address

Telephone:

Message:

Previous Next AutoFill Done

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
+ * #	0	⌫

Required & Placeholder

```
<input required>
```

```
<input placeholder="your name">
```

Firefox 4 beta



A screenshot of a web form in Firefox 4 beta. The form contains a text input field and a submit button labeled "Go". Both the input field and the button are highlighted with a red border.

```
<form>  
  <input name="q" required>  
  <input type="submit" value="Go">  
</form>
```

Chrome


```
<form>
```

```
  <input name="fn" placeholder="Your name">
```

```
  <input type="submit" value="Go">
```

```
</form>
```

ContentEditable

```
<div contenteditable>  
  Click on me to edit!  
</div>
```

ContentEditable

Any elements with the `contenteditable` attribute set will have a grey outline as you hover over. Feel free to edit and change their contents. I'm using local storage to maintain your changes.

Go ahead, edit away!

Here's a typical paragraph element

1. and now a list
2. with only
3. three items

Clear changes

[HTML5 demos](#) / [@rem built this](#) / [view source](#)

3. New Semantic Elements

header & footer
nav & aside
section & article
and many more!

Header & Footer

`<header>`

represents a group of introductory or navigational aids (headline, logo, etc)

`<footer>`

contains information about its parent element (copyright, author, etc)

Nav & Aside

`<nav>`

contains primary navigation
(frequently inside a header)

`<aside>`

contains tangentially related content
(sidebars, pullquotes, etc)

Section & Article

`<section>`

a thematic grouping of content, typically with a heading (chapters, etc)

`<article>`

a self-contained section, suitable for syndication (blog posts, etc)

```
<div id="header">
```

```
<div id="nav">
```

```
<div class="article">
```

```
<div class="section">
```

```
<div id="sidebar">
```

```
<div id="footer">
```

`<header>`

`<nav>`

`<article>`

`<section>`

`<aside>`

`<footer>`

4. Simplified Elements

doctype
charset
script & style

Doctype

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict //EN"  
"http://www.w3c.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<!DOCTYPE html>
```

Charset

```
<meta http-equiv="Content-Type"  
content="text/html; charset=UTF-8" />
```

```
<meta charset="UTF-8">
```

Scripts

```
<script type="text/javascript" src="x.js"></script>
```

```
<script src="x.js"></script>
```

Styles

```
<link type="text/css" rel="stylesheet"  
media="screen" href="x.css" />
```

```
<link rel="stylesheet"  
media="screen" href="x.css">
```

What about:



What's Drupal
doing with HTML5?

Not much.
(maybe in Drupal 8)

How to convert your
Drupal site to HTML5
in **one** easy step

Default page.tpl.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en"
lang="en" dir="ltr">
<head>...</head>
<body>
    <div id="page">...</div>
</body>
</html>
```

HTML5 page.tpl.php

```
<!DOCTYPE html>  
<html lang="en" dir="ltr">  
<head>...</head>  
<body>  
  <div id="page">...</div>  
</body>  
</html>
```

What?

you want more?

HTML5 page.tpl.php

```
<div id="page">
  <header id="header">...</header>
  <div id="container">
    <nav id="navigation">...</nav>
    <aside id="sidebar-left">...</aside>
    <div id="main">...</div>
    <aside id="sidebar-right">...</aside>
  </div>
  <footer id="footer">...</footer>
</div>
```

HTML5 block styles

Add this to your stylesheet:

```
section, article, header,  
footer, nav, aside, hgroup {  
    display: block;  
}
```

Add the HTML5 shim

Add this conditional comment to your head:

```
<!--[if IE]>  
  <script src="http://html5shim.googlecode.com/ ↩  
  svn/trunk/html5.js"></script>  
<![endif]-->
```

Alternately, download the script and add it to your .info file

```
scripts[] = scripts/html5.js
```

Change the Charset

Add this to your template.php

```
function YOURTHEME_preprocess_page(&$vars, $hook) {  
    $vars['head'] = str_replace(  
        '<meta http-equiv="Content-Type"  
        content="text/html; charset=utf-8" />',  
        '<meta charset="utf-8" />',  
        $vars['head']  
    );  
}
```

Source: metaltoad.com/174

Default node.tpl.php

```
<div class="node">
  <h2>...</h2>
  <div class="meta">
    <span class="submitted">...</span>
  </div>
  <div class="content">...</div>
  <?php print $links; ?>
</div>
```

HTML5 node.tpl.php

```
<article class="node">
  <header>
    <h2>...</h2>
    <div class="meta">
      <span class="submitted">...</span>
    </div>
  </header>
  <div class="content">...</div>
  <footer>
    <?php print $links; ?>
  </footer>
</article>
```

You don't have to
remember all that

**Boron is an HTML5 base theme,
available today for Drupal 6 and 7.**

drupal.org/project/boron

Rumor Control

Someone told me that...

Browsers don't support HTML5

False:

All modern browsers have implemented HTML5 to some degree, and there's no reason not to use the parts that work *today*.

HTML5 won't be ready until 2022

False:

2009: W3C Working Draft

2012: W3C Recommendation

2022: two complete implementations

HTML5 takes us
back to tag soup

False:

HTML5 allows you to use
HTML *or* XHTML syntax.

Thank You

To learn more:
metaltoad.com/html5

Follow me on Twitter:
[@spaceninja](https://twitter.com/spaceninja)

</presentation>

