

HTML₅ & CSS₃

(What about SharePoint?)

presented by @kyleschaeffer

susQtech

The Agenda

- HTML₅
 - What is it?
 - What can it do?
 - Does SharePoint do HTML₅?
- CSS₃
 - What is it?
 - What can it do?
 - Does SharePoint do CSS₃?

HTML5

evolution, not revolution.

How we got here.

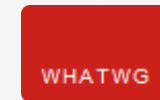


Tim Berners-Lee

- World's first web server (HTML)
- Language based on SGML

Revolution!

- We need layout!
- HTML₄
- XHTML
- CSS₂



Revolution!

- We need web applications!
- HTML₅
- CSS₃

1989

2001

2011



1994



Revolution!

- We need standards!
- HTML₂
- HTML₃
- CSS

AJAX

- Invention of the web application
- (XHTML₂)

HTML₅

- Evolution of features, not language
 - ✓ The language is the same (HTML₄ is valid HTML₅)
 - ✓ New features are primarily rich media, web applications, forms, and semantics
 - ✓ Targets “annoying” things (form validation, input types, audio, video, vector graphics, etc.)
- When will it be ready?

When will it be ready?

Ian Hickson:

“Proposed recommendation in 2022”

Getting started:

Using HTML5 today.

Using HTML5 today.

DOCTYPE declarations

```
<!DOCTYPE HTML PUBLIC "-//  
//W3C//DTD HTML 4.01  
Transitional//EN"  
"http://www.w3.org/TR/html4/1  
oose.dtd">
```

Using HTML5 today.

DOCTYPE declarations

```
<!DOCTYPE html PUBLIC "-//  
//W3C//DTD XHTML 1.0  
Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/  
DTD/xhtml1-transitional.dtd">
```

Using HTML5 today.

DOCTYPE declarations

```
<!DOCTYPE html>
```

HTML5 & keeping it simple.

```

```

-vs-

```

```

HTML5 & keeping it simple.

```
<input type="checkbox"  
  checked="checked" />
```

–VS–

```
<input type="checkbox" checked>
```

HTML5 features.

- Rich Media

- ✓ `<audio>` & `<video>`

- ✓ `<canvas>`

- ✓ `<svg>`

- Forms

- ✓ New `<input>` types

- ✓ Input validation & form enhancements

- Semantics

HTML5 features.

- Web Applications
 - ✓ Local & session storage
 - ✓ Offline applications
 - ✓ Drag & drop
 - ✓ WebSQL
 - ✓ Geolocation
 - ✓ Touch

HTML5 `<audio>` and `<video>`.

```
<video src="foo.mp4" width="400"  
height="300" controls />
```

HTML5 `<audio>` and `<video>`.

```
<video src="foo.mp4">
```

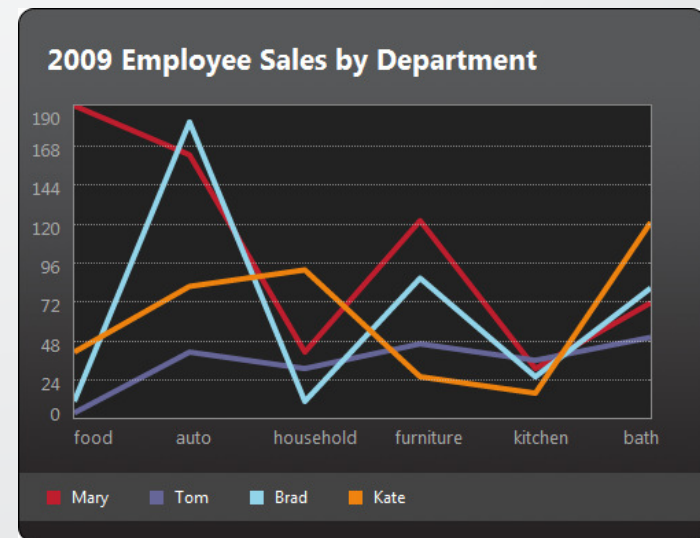
```
  <object src="foo.swf" />
```

```
</video>
```

HTML5 <canvas>.

```
<canvas id="my-canvas"  
width="300" height="300" />
```

2009 Employee Sales by Department						
	food	auto	household	furniture	kitchen	bath
Mary	190	160	40	120	30	70
Tom	3	40	30	45	35	49
Brad	10	180	10	85	25	79
Kate	40	80	90	25	15	119



<http://goo.gl/VLCtF>

HTML5 `<svg>`.

- Scalable Vector Graphics

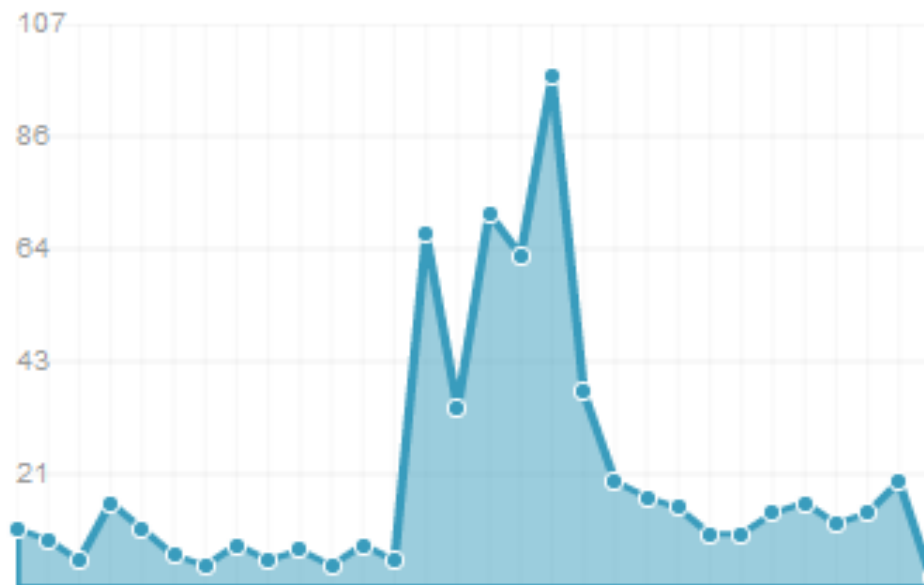
- ✓ XML-based vector graphics (`` or inline)

```
<svg xmlns="http://www.w3.org/2000/svg">  
  <line x1="0" y1="0" x2="100%" y2="100%"  
    style="stroke: rgb(230, 230, 230);  
    stroke-width: 1;" />  
  <line x1="100%" y1="0" x2="0" y2="100%"  
    style="stroke: rgb(230, 230, 230);  
    stroke-width: 1;" />  
</svg>
```

HTML5 `<svg>`.

User Activity

1,017 users, with **680** new signups in the last 30 days.



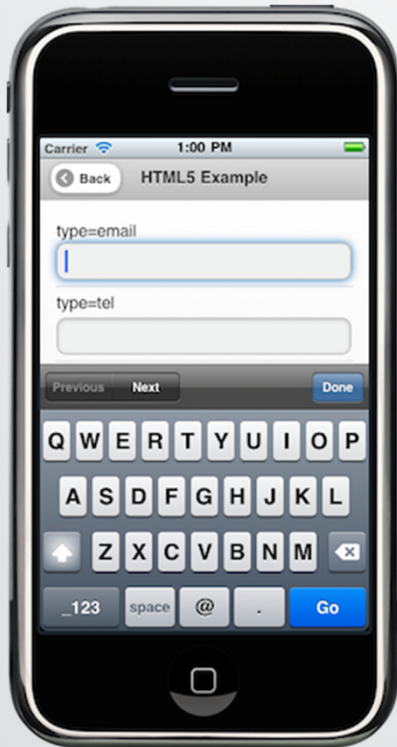
[View all users >](#)

HTML5 forms.

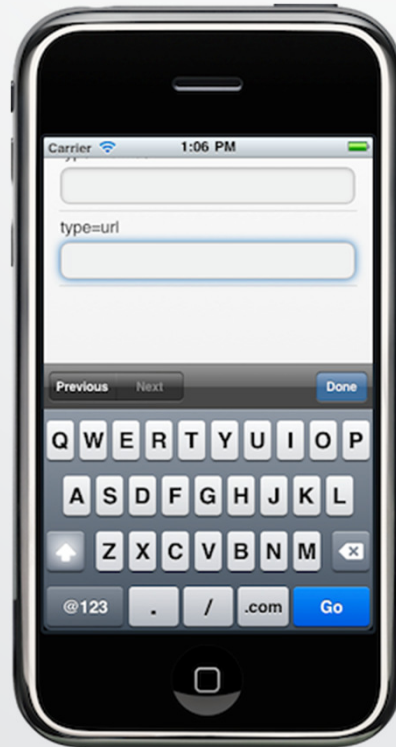
- New `<input>` types
 - ✓ Email, URL, tel, range, number, date, datetime, datetime-local, time, month, week, color
- New `<input>` enhancements
 - ✓ Required
 - ✓ Custom validation patterns (pattern="`[\d]{5}(-[\d]{4})?`")
 - ✓ Placeholder ("Enter search keywords")
 - ✓ `<datalist>` (for auto-complete)

HTML5 input types on mobile.

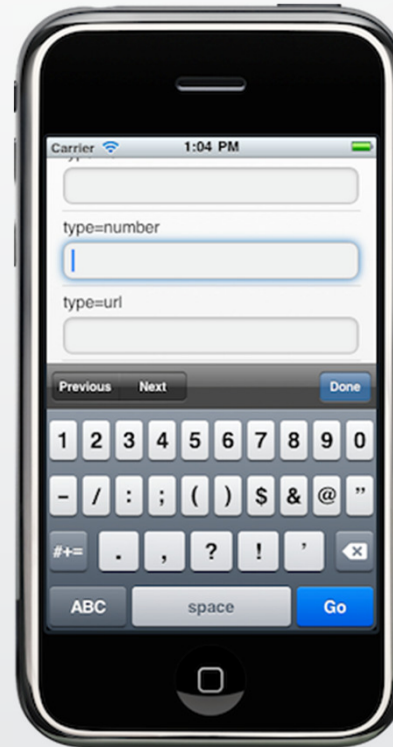
type="email"



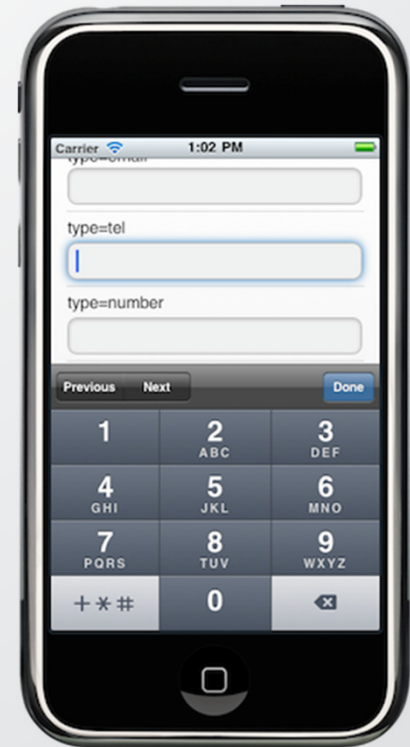
type="url"



type="number"



type="tel"



~Pete Freitag

<http://www.petefreitag.com/item/768.cfm>

HTML5 semantics.

`<time>`

`<mark>`

`<meter>`

`<progress>`

`<section>`

`<header>`

`<footer>`

`<article>`

`<aside>`

`<hgroup>`

The BIG question:

What about **SharePoint**?

What about SharePoint?

SharePoint Doctype:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD  
XHTML 1.0 Strict//EN"  
"http://www.w3.org/TR/xhtml1/DTD/  
xhtml1-strict.dtd">
```

IE8 Compatibility Mode:

```
<meta http-equiv="X-UA-Compatible"  
content="IE=8" />
```

What about SharePoint?

- OOTB SharePoint content

- ✓ Use new `<!DOCTYPE>` and semantics in master pages & page layouts
- ✓ HTML₄ is valid HTML₅!
- ✓ For the most part, no control of the HTML of many SharePoint features

- Custom solutions & development

- ✓ We have control over the HTML
- ✓ Utilize new features of HTML₅ to *enhance* the user experience

CSS3

do more, with less.

CSS₃ fundamentals.

- New style declarations
 - ✓ Text shadow & box shadow
 - ✓ RGBA
 - ✓ Opacity
 - ✓ Border radius
 - ✓ Background image(s) & gradients
- New & advanced features
 - ✓ Transitions, transforms, & animation
 - ✓ Web font embedding

The big question:

What about **SharePoint**?

CSS₃ vendor prefix.



`-webkit-border-radius :`



`-moz-border-radius :`



`-o-border-radius :`



`border-radius :`

Enough talk:

HTML₅ & CSS₃ in action.

CSS₃ media queries.

```
#wrapper {  
    width: 960px;  
    margin: auto;  
}
```

CSS₃ media queries.

```
@media screen and (max-width: 960px) {  
    #wrapper {  
        width: 320px;  
    }  
}
```

CSS3 media queries in SharePoint.

Site Actions ▾

MEDAZIO\kyle ▾



The “v5” Master Page

The HTML5 master page for SharePoint 2010



[Blog](#)

[Medazio](#)

[OOTB](#)

[Team Site](#)

[The Pub](#)

[Wiki](#)

Blog

Medazio

- [Web Parts](#)
- [Splash Page](#)

OOTB

Press Releases

Team Site

The Pub

- [Body Only](#)
- [Image on Left](#)
- [Image on Right](#)
- [Summary Links](#)
- [Project Page](#)
- [Wiki Page](#)
- [Blank Web Part Page](#)
- [Splash](#)
- [Redirect Page](#)

Wiki

Home



[Enable anonymous access](#)

Anonymous access allows users to view the pages on this site without logging in. This is useful when creating internet facing sites or sites where you want everyone to have access to read the content without editing.

[Manage navigation](#)

Change the navigation links in this site.

[Go to master page gallery](#)

Change the page layouts and master page of this site collection.

[Manage site content and structure](#)

Reorganize content and structure in this site collection.

[Set up multilingual support](#)

Use the variations feature to manage multi-lingual sites and pages.

[Add users to the Approvers and Members groups](#)

Users in the Approvers group can publish pages, images, and documents in this site. Users in the Members group can create and edit pages, and they can upload images and documents, but they cannot publish the pages, images, or documents. Workflow is enabled

Find out **more...**

- HTML5 & CSS3 browser compatibility

findmebyip.com/litmus

- CSS3 Maker

css3maker.com

- Modernizr

modernizr.com

Find out **more...**

- Google Web Fonts

google.com/webfonts

- Dive Into HTML5

diveintohtml5.org

Find out **more...**

- SharePoint Styling and Branding WEEK:
susqtech.com/training

Thank you.

@kyleschaeffer
kyleschaeffer.com