

# HTML5 & CSS3

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( What about SharePoint? )

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# The Agenda

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## ■ 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.

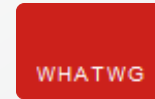


## Tim Berners-Lee

- 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



I E T F



## 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?**

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Ian Hickson:

“Proposed recommendation in **2022**”

Getting started:

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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**.

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DOCTYPE declarations

```
<!DOCTYPE html>
```

# HTML5 & keeping it simple.

```

```

-VS-

```

```

# HTML5 & keeping it simple.

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```
<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.

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## ■ Web Applications

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

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

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

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

---

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

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

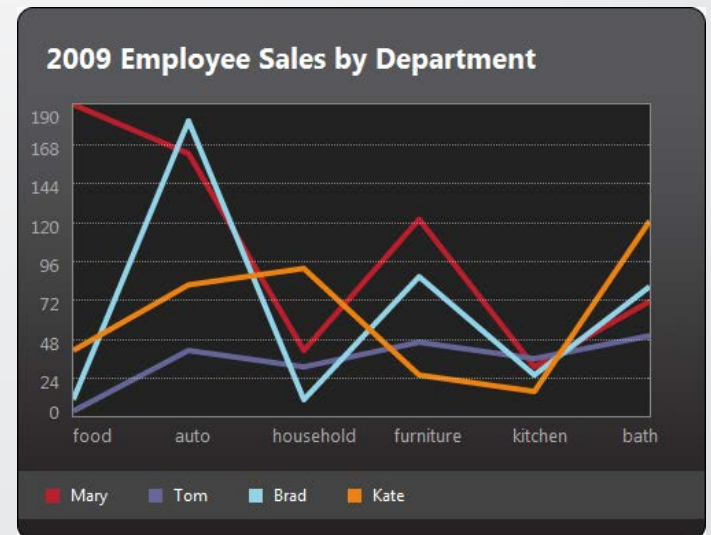
```
</video>
```



# 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 (`<img>` 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"



# HTML5 semantics.

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`<time>`

`<mark>`

`<meter>`

`<progress>`

`<section>`

`<header>`

`<footer>`

`<article>`

`<aside>`

`<hgroup>`

The BIG question:

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**What about SharePoint?**

# What about **SharePoint**?

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## SharePoint 2010 Doctype:

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

## SharePoint 2010 Compatibility Mode:

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



# What about **SharePoint**?

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## SharePoint 2013 Doctype:

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

## SharePoint 2013 Compatibility Mode:

```
<meta http-equiv="X-UA-Compatible"  
content="IE=10" />
```

# 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:

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**What about SharePoint?**

# CSS3 vendor prefix.



`-webkit-border-radius :`



`-moz-border-radius :`



`-o-border-radius :`



`border-radius :`

Enough talk:

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**HTML5 & CSS3 in action.**

# CSS3 **media queries.**

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



# CSS3 media queries.

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

Demonstration:

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**CSS3 media queries in SharePoint.**

# Find out **more...**

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- HTML5 & CSS3 browser compatibility

[findmebyip.com/litmus](http://findmebyip.com/litmus)

- CSS3 Maker

[css3maker.com](http://css3maker.com)

- Modernizr

[modernizr.com](http://modernizr.com)

# Find out **more...**

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- Google Web Fonts

[google.com/fonts](https://google.com/fonts)

- Dive Into HTML5

[diveintohtml5.org](https://diveintohtml5.org)

Thank you.

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