

# ENHANCING SHAREPOINT 2010 FOR THE IPAD

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SharePoint Saturday Tampa

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# SHAREPOINT SATURDAY TAMPA

- Welcome to SharePoint Saturday Tampa!
- Introduction
- Please complete & submit speaker evaluation forms
- SharePint
  - The Pub, International Mall
  - 6 PM

# AGENDA

- SharePoint 2010 Compatibility
- Mobile Device Connectivity
- Device Orientation Detection
  - CSS Approach
  - Scripted Approach
- Branding for Device Orientation Demo
- Cross-Platform Video
  - HTML5 Video
  - Security Considerations

# SHAREPOINT 2010 COMPATIBILITY

- SharePoint 2010 is cross browser compatible
- Fully Supported: IE 7 (32 bit), IE 8 (32 bit), IE 9 (32 bit)
- Supported w/ Limitations: IE 7 (64 bit), IE 8 (64 bit), IE 9 (64 bit),  
Firefox 3.6 (Win & non-Win), Safari 4.04 (non-Win)
- Is your custom markup cross browser compatible?

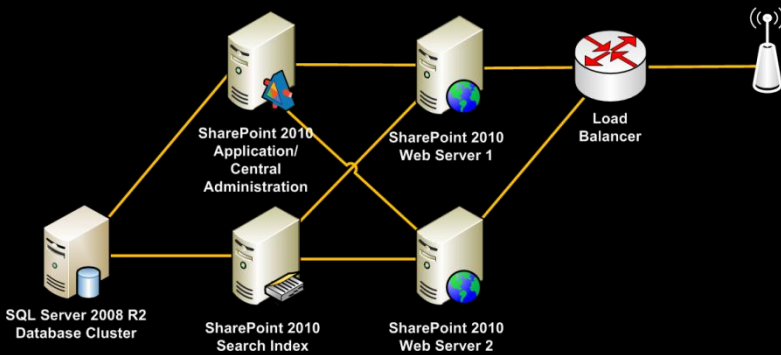
# SHAREPOINT 2010 COMPATIBILITY

- SharePoint 2010 is cross browser compatible
- Fully Supported: IE 7 (32 bit), IE 8 (32 bit), IE 9 (32 bit)
- Supported w/ Limitations: IE 7 (64 bit), IE 8 (64 bit), IE 9 (64 bit), Firefox 3.6 (Win & non-Win), Safari 4.0.4 (non-Win)
- Is your

Safari iPad ! = Safari iPhone ! = Safari iPod

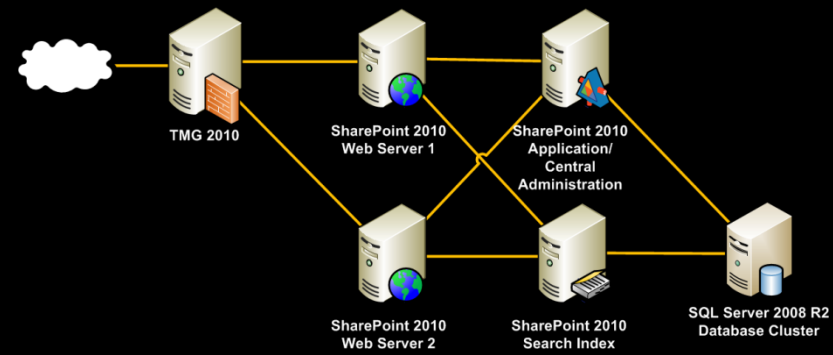
# MOBILE DEVICE CONNECTIVITY

## WiFi



Utilizes Internal Wireless  
May Require VPN\*

## 3G/4G/Internet



External FBA  
Kerberos Delegated by TMG

# DEVICE ORIENTATION DETECTION

- Consumer adoption leading to growth in the business sector
- New ability to touch and interact with business data
- Increased user experience
- Efficiently manage limited screen real estate

Device Orientation Detection

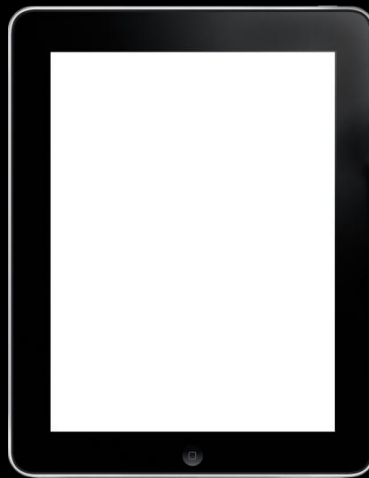
# CSS APPROACH

# CSS APPROACH

- Utilizes orientation aware Cascading Style Sheets (CSS)
- Little overhead, no code or script required
- Detects Portrait vs. Landscape
  - Browser determines ratio of browser width vs. height
- Use to display, hide, or change size of elements for specific orientations
- Ideal for integrating orientation detection with site branding

# SUPPORTED ORIENTATIONS

Portrait



Landscape



# ATTACHING STYLE SHEETS

- Standard “link” tag with media attribute

```
<link rel="stylesheet" media="all and (orientation:portrait)" href="Portrait.css" />  
<link rel="stylesheet" media="all and (orientation:landscape)" href="Landscape.css" />
```

- Cross-Browser Support

```
<!--[if !IE]><!-->
```

```
  <link rel="stylesheet" media="all and (orientation:portrait)" href="Portrait.css" />
```

```
  <link rel="stylesheet" media="all and (orientation:landscape)" href="Landscape.css" />
```

```
<!--<![endif]-->
```

```
<!--[if IE]>
```

```
  <link rel="stylesheet" href="Landscape.css" />
```

```
<![endif]-->
```

} Often not needed

# ATTACHING STYLE SHEETS

- Standard “link” tag

```
<link rel="stylesheet" media="all and (orientation:portrait)" href="Portrait.css" />
```

```
<link rel="stylesheet" media="all and (orientation:landscape)" href="Landscape.css" />
```

- Browser

```
<!--[if !IE]
```

```
<link rel="stylesheet" href="Portrait.css" />
```

```
<link rel="stylesheet" href="Landscape.css" />
```

```
<!--<![endif]-->
```

```
<!--[if IE]>
```

```
<link rel="stylesheet" href="Landscape.css" />
```

```
<![endif]-->
```

All style sheets should be attached after Core.css  
and custom CSS registrations.

# EXAMPLES

- Hide Quick Launch when device is in Portrait orientation.
- Hide any content with the “notPortrait” class; similar to the use of “s4-notdlg”.

Portrait.css

```
#s4-leftpanel {  
    display: none;  
}  
  
.s4-ca {  
    margin-left: 0px;  
}
```

Portrait.css

```
.notPortrait {  
    display: none;  
}
```

Device Orientation Detection

# SCRIPTED APPROACH

# SCRIPTED APPROACH

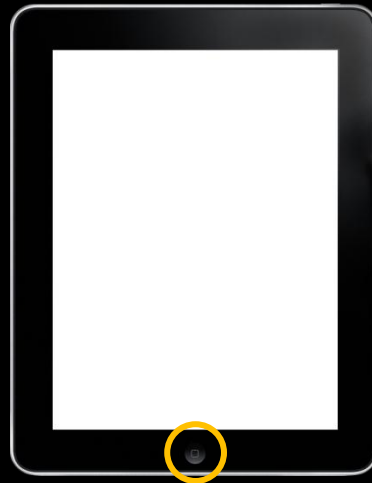
- Utilizes client-side script (Javascript/jQuery)
- Scripted specifically for iPad
- Identifies numerical orientation value
  - Orientation value returned by device hardware/accelerometer
- Uses:
  - Bind functions to orientation changes
  - Animate element changes
  - Make changes to the Document Object Model (DOM)

# SUPPORTED ORIENTATIONS

-90°



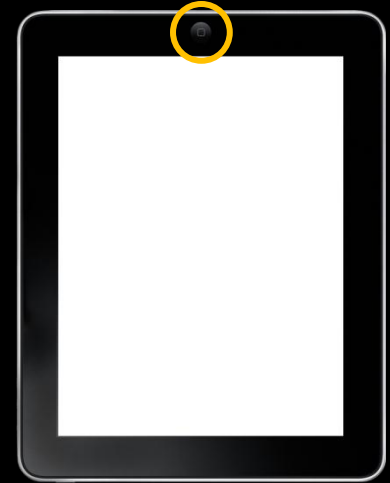
0°



90°



180°



# SCRIPTING ORIENTATION DETECTION

```
<script type="text/javascript" src="jquery-1.4.2.min.js"></script>
```

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

```
    var isiPad = navigator.userAgent.match(/iPad/i) != null; //Boolean, is device iPad  
    if (isiPad) { // Process only for iPads
```

```
        ProcessOrientation(window.orientation); // Process initial orientation
```

```
        window.onorientationchange = function() { // Process on orientation change  
            ProcessOrientation(window.orientation);  
        }
```

```
        function ProcessOrientation(currentOrientation) {
```

```
            if (currentOrientation == 0 || currentOrientation == 180) {  
                // Is Portrait
```

```
            } else if (currentOrientation == 90 || currentOrientation == -90) {  
                // Is Landscape
```

```
            }
```

```
        }
```

```
    }
```

```
</script>
```

# EXAMPLES

- Hide Quick Launch when device is in Portrait orientation.
- Hide any content with the “notPortrait” class; similar to the use of “s4-notdlg”.

## jQuery

```
if (Portrait) {
    $("#s4-leftpanel").hide();
    $(".s4-ca").css("marginLeft", 0);
}
if (Landscape) {
    $("#s4-leftpanel").show();
    $(".s4-ca").css("marginLeft", "150px");
}
```

## jQuery

```
if (Portrait) {
    $(".notPortrait").hide();
}
if (Landscape) {
    $(".notPortrait").show();
}
```

# ADVANCED EXAMPLES

- Hide Quick Launch with animation when device is in Portrait orientation.
- Move contents of one container to another, and back again.

## jQuery

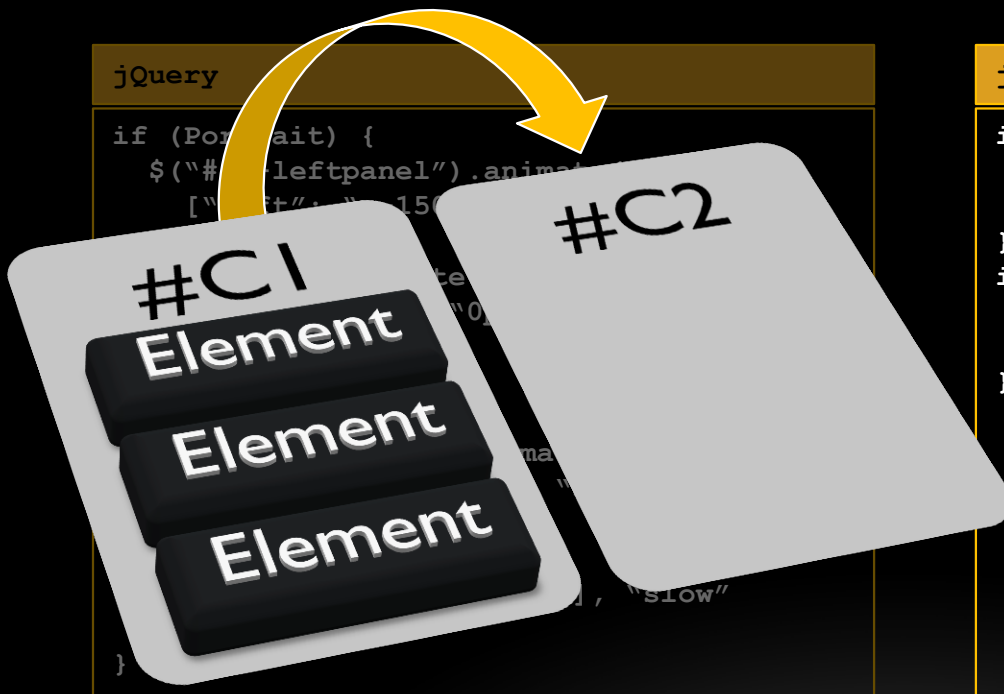
```
if (Portrait) {
    $("#s4-leftpanel").animate(
        ["left": "-150px"], "slow"
    );
    $(".s4-ca").animate(
        ["marginLeft": "0px"], "slow"
    );
}
if (Landscape) {
    $("#s4-leftpanel").animate(
        ["left": "+150px"], "slow"
    );
    $(".s4-ca").animate(
        ["marginLeft": "150px"], "slow"
    );
}
```

## jQuery

```
if (Portrait) {
    $("#C1").clone().appendTo("#C2");
    $("#C1").html("");
}
if (Landscape) {
    $("#C2").clone().appendTo("#C1");
    $("#C2").html("");
}
```

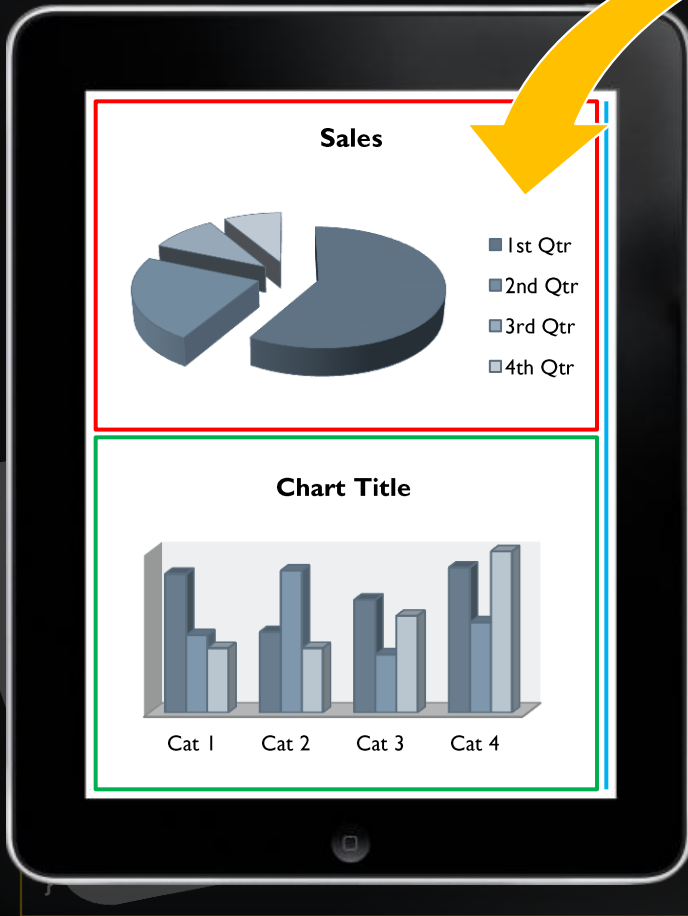
# ADVANCED EXAMPLES

- Hide Quick Launch with animation when device is in Portrait orientation.
- Move contents of one container to another, and back again.



```
jQuery
if (Portrait) {
  $("#C1").clone().appendTo("#C2");
  $("#C1").html("");
}
if (Landscape) {
  $("#C2").clone().appendTo("#C1");
  $("#C2").html("");
}
```

# ADVANCED EXAMPLES



Demonstration

# BRANDING FOR DEVICE ORIENTATION

Cross-Platform Video

# HTML5

# HTML5 VIDEO

- No third party plugin support in the iPad, only option for embedded video is the use of HTML5.
- HTML5 standard dictates support for embedded video with <video> tag
- HTML5 does NOT standardize video format

	IE	Firefox	Safari	Chrome	Opera	iOS
<b>Ogg (Theora/Vorbis)</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 3.5+	<input type="checkbox"/> ‡	<input checked="" type="checkbox"/> 5.0+	<input checked="" type="checkbox"/> 10.5+	<input type="checkbox"/>
<b>H.264/AAC/MP4</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 3.0+	<input checked="" type="checkbox"/> 5.0+	<input type="checkbox"/>	<input checked="" type="checkbox"/> 3.0+
<b>WebM</b>	<input type="checkbox"/> †	<input type="checkbox"/>	<input type="checkbox"/> ‡	<input checked="" type="checkbox"/> 6.0+	<input checked="" type="checkbox"/> 10.6+	<input type="checkbox"/>

‡ Safari will render and video format supported by QuickTime; support for H.264/AACMP4 is shipped with QuickTime while other formats require additional client-side plugins.

† WebM video format expected for Internet Explorer 9.0+

# HTML5 VIDEO TAG

```
<video width="640" height="360" controls>
```

```
<!-- MP4 must be first for iPad! -->
```

```
<source src="__VIDEO__.MP4" type="video/mp4" /> <!-- Safari / iOS video -->
```

```
<source src="__VIDEO__.OGV" type="video/ogg" /> <!-- Firefox / Opera / Chrome10 -->
```

```
<!-- fallback to Flash: -->
```

```
<object width="640" height="360" type="application/x-shockwave-flash"
```

```
  data="__FLASH__.SWF">
```

```
  <param name="movie" value="__FLASH__.SWF" />
```

```
  <param name="flashvars" value="controlbar=over&image=__POSTER__.JPG&
```

```
  file=__VIDEO__.MP4" />
```

```
<!-- fallback image. -->
```

```

```

```
</object>
```

```
</video>
```

Cross-Platform Video

# SECURITY CONSIDERATIONS

# SECURITY CONSIDERATIONS

- iPad passes embedded video requests to QuickTime for rendering
- QuickTime lacks support for any proxy or authentication methods, and iPads cannot join a domain
- Video files must be anonymously accessible

QUESTIONS?

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