



NWN

SharePoint and jQuery

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Overview

- ▶ Introduction to jQuery
- ▶ Example Web Parts
- ▶ SPServices
- ▶ Q&A

Introduction to jQuery

From the website:

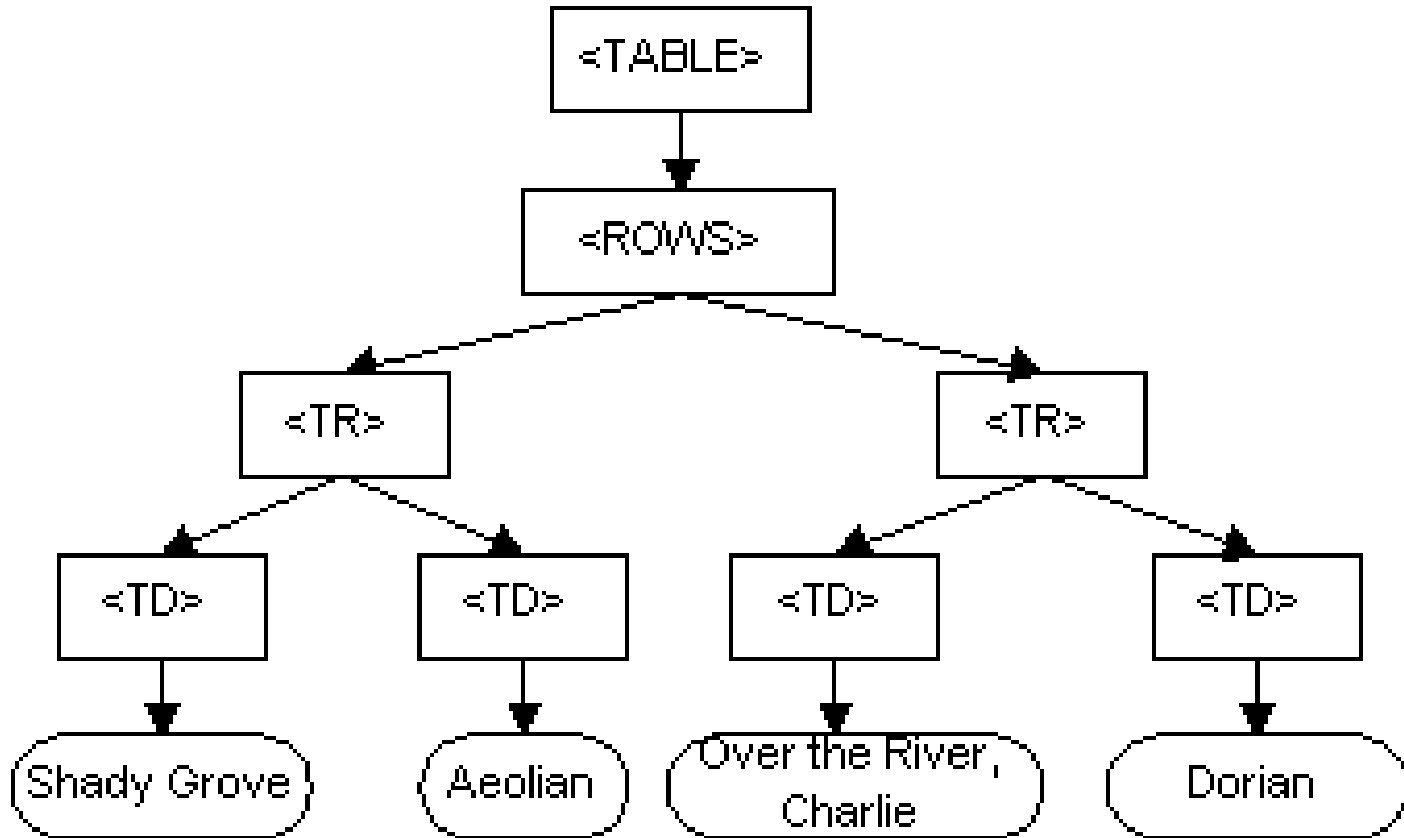
jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development.

Document Object Model (DOM)

▶ A short aside to explain the DOM

```
<TABLE>  
  <ROWS>  
    <TR>  
      <TD>Shady Grove</TD>  
      <TD>Aeolian</TD>  
    </TR>  
    <TR>  
      <TD>Over the River, Charlie</TD>  
      <TD>Dorian</TD>  
    </TR>  
  </ROWS>  
</TABLE>
```

Imagining the DOM



A more useful DOM Example

```
<div id="parent">  
  <div id="child">  
  </div>  
</div>
```

Var id = ('#child').closest("div").attr("id")

Id now contains the string **parent**

Other Selectors

- ▶ (`#id`)
- ▶ (`.class`)
- ▶ (`ul li:nth-child(2)`)
- ▶ (`tr:odd`)
- ▶ (`div:has(div)`)

Event Handlers

- ▶ `.click()`
- ▶ `.focusin()/.focusout()`
- ▶ `.hover()`
- ▶ `.mouseover()/.mouseout()`
- ▶ Most importantly: `.ready()`

Animations

- ▶ `.fadeIn()/.fadeOut()`
- ▶ `.hide()/.show()`
- ▶ `.slideDown()/.slideUp()`
- ▶ `.stop()`

Non-SharePoint Examples

- ▶ Slideshows
- ▶ Tooltips
- ▶ Tabs
- ▶ Accordion Menus
- ▶ Look at Example of LavaLamp Library

Putting it all Together with Tabs

```
<script>
  $(document).ready(function() {
    $('#tabs').tabs();
  });
</script>
<div class="demo">

<div id="tabs">
  <ul>
    <li><a href="#tabs-1">Nunc tincidunt</a></li>
    <li><a href="#tabs-2">Proin dolor</a></li>
    <li><a href="#tabs-3">Aenean lacinia</a></li>
  </ul>
  <div id="tabs-1">
    <p>Proin elit arcu.</p>
  </div>
  <div id="tabs-2">
    <p>Morbi tincidunt</p>
  </div>
  <div id="tabs-3">
    <p>Mauris eleifend est et turpis. </p>
    <p>Duis cursus.</p>
  </div>
</div>
</div>
```

Nunc tincidunt

Proin dolor

Aenean lacinia

Proin elit arcu, rutrum commodo, vehicula tempus, commodo a, risus. Curabitur nec arcu. Donec sollicitudin mi sit amet mauris. Nam elementum quam ullamcorper ante. Etiam aliquet massa et lorem. Mauris dapibus lacus auctor risus. Aenean tempor ullamcorper leo. Vivamus sed magna quis ligula eleifend adipiscing. Duis orci. Aliquam sodales tortor vitae ipsum. Aliquam nulla. Duis aliquam molestie erat. Ut et mauris vel pede varius sollicitudin. Sed ut dolor nec orci tincidunt interdum. Phasellus ipsum. Nunc tristique tempus lectus.

What that means for SharePoint

- ▶ As of 2008, part of the official Microsoft development platform
- ▶ Intellisense available
- ▶ Available solutions from the SharePoint community (End-User SharePoint www.nothingbutsharepoint.com)

How to register jQuery

- ▶ Prefer to use the Master Page
- ▶ Google API vs. Local copy

```
<script src="//ajax.googleapis.com/ajax/libs/jquery/1.6.2/jquery.min.js" type="text/javascript"></script>
```

Demos

- ▶ We'll look at two recent examples
- ▶ Content rotators with managed code versus using data view web parts

Introduction to SPServices

SPServices is a jQuery library which abstracts SharePoint Web Services and makes them easier to use.

- ▶ CodePlex project so free to use
- ▶ Contains utilities and form page enhancements
- ▶ spservices.codeplex.com

Form Enhancements

Several different options for enhancing forms. Can be placed in a Content Editor on the page or inside a custom form page.

- ▶ SPDisplayRelatedInfo
- ▶ SPRequireUnique
- ▶ SPAutoComplete
- ▶ SPCascadeDropdowns

Cascade Example

```
<script language="javascript" type="text/javascript">
  $(document).ready(function() {
    $.SPServices.SPCascadeDropdowns({
      relationshipList: "Regions",
      relationshipListParentColumn: "Country",
      relationshipListChildColumn: "Title",
      parentColumn: "Country",
      childColumn: "Region",
      debug: true
    });
    $.SPServices.SPCascadeDropdowns({
      relationshipList: "States",
      relationshipListParentColumn: "Region_x0020_Name",
      relationshipListChildColumn: "Title",
      relationshipListSortColumn: "ID",
      parentColumn: "Region",
      childColumn: "State"
    });
  });
</script>
```

Utilities

Replaces many useful functions that you would otherwise need managed code for.

- ▶ SPGetQueryString
- ▶ SPListNameFromURL
- ▶ SPGetCurrentUser

SPGetCurrentUser

Can get a lot of the information from the currently logged in user. This is one of the most common things I do in managed code.

- ▶ Name
- ▶ Email
- ▶ Account Name
- ▶ Phone
- ▶ Title
- ▶ More...

Debugging jQuery

- ▶ Firebugs add on for Firefox
- ▶ Great Tutorial
- ▶ http://www.seifi.org/javascript/firebug_tips_and_tricks.html

Questions?

