



MONASH
University

MONASH
INFORMATION
TECHNOLOGY

FIT5192 Module 2

Internet Applications Development

Lecture 11



Lecture Overview

- Introduction
- jQuery
- jQuery UI library
- Date Picker etc.
- Data Table



Introduction

jQuery

JavaScript Library

Make using JavaScript easier to accomplish

Default syntax:

\$(selector).action()

A Selector to select the html element needed

An action that is applied to these elements

The document ready function is used so that jQuery runs after all objects in the page are loaded.

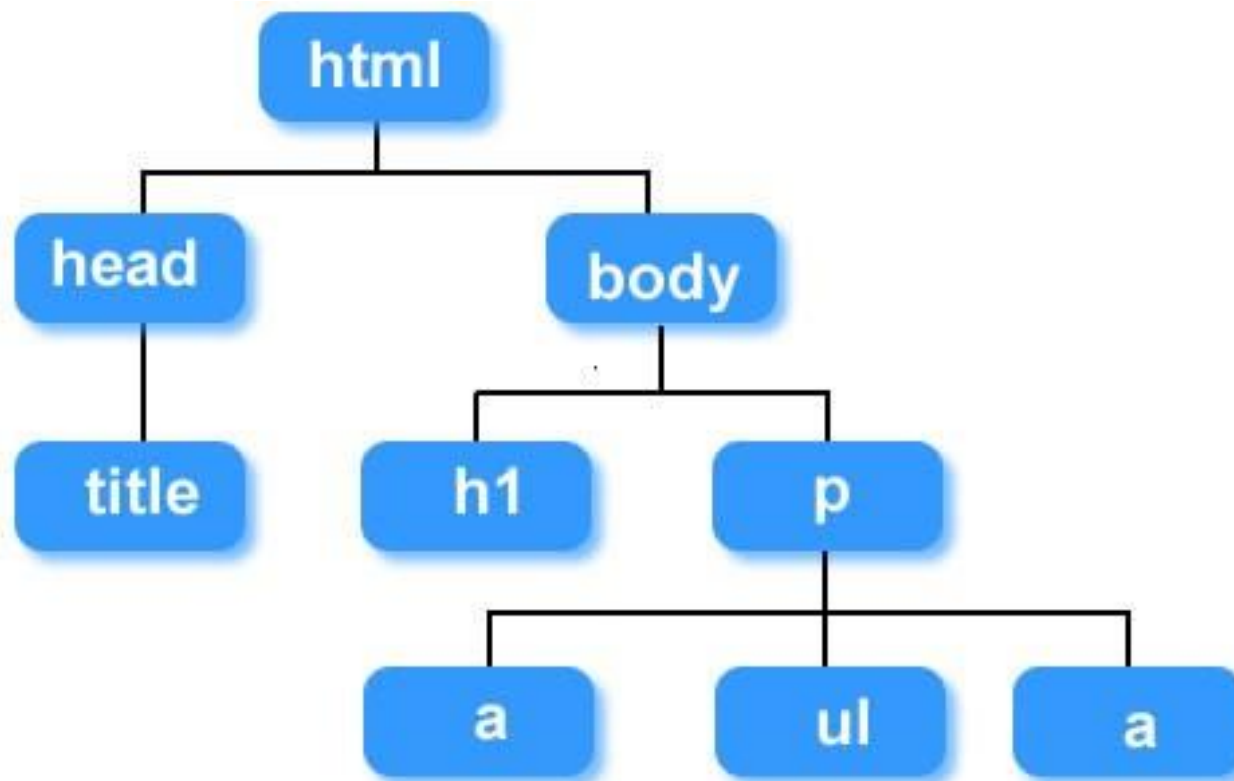
```
$(document).ready(function()  
{  
    alert('Welcome to jQuery');  
});
```

Alternate Syntax

Alternate syntax for document ready:

```
$(function(){  
    alert('Welcome to jQuery');  
});
```

DOM Document Object Model



UsingQuery

Adding jQuery

To HTML

```
<script type='text/javascript' src='Scripts/jquery.js' />
```

To an MVC application, add to layout file:

```
@Scripts.Render("~/bundles/jquery")
```

Selecting and colouring alternate lines:

```
$(document).ready(function () {  
    $('#data tbody tr:even').css('background-color', 'yellow');  
});
```

To select id data, e.g.: <table id="data">

If using Style Sheets

Changing class of selected elements:

```
$(document).ready(function () {  
  $("#data tbody tr:even").removeClass("data");  
  $('#data tbody tr:even').addClass("rowColour2");  
});
```

In StyleSheet:

```
.rowColour2 { background-color: yellow; color: #666666; }
```

jQuery Ulbrary

DatePicker

Add the date picker scripts (after other scripts):

```
@Scripts.Render("~/Scripts/jquery-ui.js")
```

```
@Scripts.Render("~/Scripts/jquery.ui.datepicker.js")
```

Add your jQuery function:

```
$(function () {
```

```
    $("#yearPub").datepicker();
```

```
});
```

DatePickerContinue

The Date field ID is the name of the date field in the database e.g.:

yearPub

MVC automatically specifies the id of controls as being the same as their database attribute name.

Add the [Stylesheet references](#), which are included in the jQuery UI download to the *Views/Titles/Create* View.

```
<link href="~/Content/themes/jquery.ui.all.css" rel="stylesheet" type="text/css" />  
  <link href="~/Content/themes/jquery.ui.datepicker.css" rel="stylesheet"  
  type="text/css" />
```

jQuery UI dependscripts

In the layout file add the relevant jQuery scripts and style sheets

```
@Styles.Render("~/Content/css")
```

```
@Scripts.Render("~/bundles/modernizr")
```

```
@Scripts.Render("~/bundles/jquery")
```

```
@Scripts.Render("~/bundles/jqueryui")
```

```
@Styles.Render("~/Content/themes/base/css", "~/Content/css")
```

DataTable

DataTable

Download from:

<http://datatables.net/download/>

Use

```
$(document).ready(function () {  
    $('#data').dataTable({ "sDom": '<"nav"lf>t<"nav"i>' });  
});
```

Where table id defined:

```
<table id="data">
```

Summary

- Introduction
- jQuery
- jQuery UI library
- Date Picker etc.
- Data Table



What you will do in the Studio

Try topic 13 examples

Finish tasks required by Assignment 2

Read ahead to revision notes on Moodle.



Thanks and See you in the
Studio!