

Working with Ajax Features

Dan Wahlin

www.pluralsight.com



Agenda

- **jQuery Ajax Functions**
- **Loading HTML Content from the Server**
- **Making GET Requests**
- **Making POST Requests**
- **Introduction to the ajax() Function**

jQuery Ajax Features

- **jQuery allows Ajax requests to be made from a page:**
 - Allows parts of a page to be updated
 - Cross-Browser Support
 - Simple API
 - GET and POST supported
 - Load JSON, XML, HTML or even scripts



jQuery Ajax Functions

- **jQuery provides several functions that can be used to send and receive data:**
 - `$(selector).load()`: Loads HTML data from the server
 - `$.get()` and `$.post()`: Get raw data from the server
 - `$.getJSON()`: Get/Post and return JSON
 - `$.ajax()`: Provides core functionality
- **jQuery Ajax functions work with REST APIs, Web Services and more**

Agenda

- jQuery Ajax Functions
- Loading HTML Content from the Server
- Making GET Requests
- Making POST Requests
- Introduction to the ajax() Function

Using load()

- `$(selector).load(url,data,callback)` allows HTML content to be loaded from a server and added into a DOM object:

```
$(document).ready(function(){  
    $('#HelpButton').click(function(){  
        $('#MyDiv').load('HelpDetails.html');  
    });  
});
```

Using load() With a Selector

- A selector can be added after the URL to filter the content that is returned from calling load():

```
$( '#MyDiv' ).load( 'HelpDetails.html #MainTOC' );
```

Passing Data using load()

- Data can be passed to the server using **load(url,data)**:

```
$( '#MyDiv' ).load( 'GetCustomers.aspx',  
    {PageSize:25});
```


Using a Callback Function with load()

- load() can be passed a callback function:

```
$('#OutputDiv').load('NotFound.html',  
    function (response, status, xhr) {  
        if (status == "error") {  
            alert(xhr.statusText);  
        }  
    });
```

Agenda

- jQuery Ajax Functions
- Loading HTML Content from the Server
- **Making GET Requests**
- Making POST Requests
- Introduction to the ajax() Function

Using get()

- `$.get(url,data,callback,datatype)` can retrieve data from a server:

```
$.get('HelpDetails.html', function (data) {  
    $('#OutputDiv').html(data);  
});
```

Using getJSON()

- **\$.getJSON(url,data,callback)** can retrieve data from a server:

```
$.getJSON('CustomerJson.aspx',{id:1},  
    function (data) {  
        alert(data.FirstName + ' ' +  
            data.LastName);  
    });
```

Agenda

- jQuery Ajax Functions
- Loading HTML Content from the Server
- Making GET Requests
- **Making POST Requests**
- Introduction to the ajax() Function

Using post()

- **\$.post(url,data,callback,datatype)** can post data to a server and retrieve results:

```
$.post('GetCustomers.aspx', {PageSize:15},  
      function (data) {  
          $('#OutputDiv').html(data);  
      }  
);
```

Using post() to Call a WCF Service

- **post()** can also be used to interact with an Ajax-enabled WCF service:

```
$.post('CustomerService.svc/GetCustomers',  
      null, function (data) {  
          var cust = data.d[0];  
          alert(cust.FirstName + ' ' +  
              cust.LastName);  
      }, 'json');
```

Agenda

- jQuery Ajax Functions
- Loading HTML Content from the Server
- Making GET Requests
- Making POST Requests
- **Introduction to the ajax() Function**

The ajax() Function

- The ajax() function provides extra control over making Ajax calls to a server
- Configure using JSON properties:
 - contentType
 - data
 - dataType
 - error
 - success
 - type (GET or POST)

Using the ajax() Function

The ajax() function is configured by assigning values to JSON properties:

```
$.ajax({  
    url: '../CustomerService.svc/InsertCustomer',  
    data: customer,  
    dataType: 'json',  
    success: function (data, status, xhr) {  
        alert("Insert status: " + data.d.Status + '\n' +  
            data.d.Message);  
    },  
    error: function (xhr, status, error) {  
        alert('Error occurred: ' + status);  
    }  
});
```

Summary

- **Ajax calls can be made using a variety of jQuery functions:**
 - ☐ .load()
 - ☐ .get()
 - ☐ .getJSON()
 - ☐ .post()
 - ☐ .ajax()
- **Several different data types are supported:**
 - ☐ JSON
 - ☐ XML
 - ☐ HTML

For more in-depth **online** developer **training** visit



on-demand content from authors you **trust**