

The jQuery JavaScript Library Part I: Ajax Support (jQuery 1.4 Version)

Originals of Slides and Source Code for Examples: http://courses.coreservlets.com/Course-Materials/jquery.html

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Taught by the author of Core Servlets and JSP, More Servlets and JSP, and this tutorial. Available at public venues, or customized versions can be held on-site at your organization.

- Courses developed and taught by Marty Hall
 - Java 6, servlets/JSP (intermediate and advanced), Struts, JSF 1.x, JSF 2.0, Ajax, GWT 2.0 (with GXT), custom mix of topics
 - Ajax courses can concentrate on 1 library (jQuery, Prototype/Scriptaculous, Ext-JS, Dojo, Google Closure) or survey several
- Courses developed and taught by coreservlets.com experts (edited by Marty)
 - Spring, Hibernate/JPA, EJB3, Web Services, Ruby/Rails

Contact hall@coreservlets.com for details

Topics in This Section

- Overview of jQuery
- Installation and documentation
- Quick summary of jQuery selectors
- Data centric Ajax: the "\$.ajax" function
 - Basics
 - Options
 - Sending data: static String, data object, String from the "serialize" function
- Content-centric Ajax: the "load" function
- Handling JSON data
- Comparing Ajax support to other libraries
 - Prototype, Dojo, Ext-JS, GWT, YUI, Google Closure

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Introduction

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Overview of jQuery

- Ajax utilities (this tutorial)
 - General: \$.ajax(...), \$(...).load(...)
 - Shortcuts: \$.get, \$.post, \$.getJSON
- DOM search and manipulation utilities
 - \$("p.myStyle").addClass("extraStyle").show();
- Simple animation
 - Not as extensive as Scriptaculous, but easy to use
- Cross-browser event model
 - Assigns handlers programmatically, hides browser differences
- General JavaScript utilities
 - Functions operating on strings and arrays
- Rich GUIs
 - jQuery UI provides widgets, fancier effects, drag/drop

Ajax Utilities

- \$.ajax({options})
 - Makes an Ajax request. Example:
 - \$.ajax({ url: "address", success: responseHandler});
 - The response handler is passed the response text, not the response object. Don't forget the "." before "ajax"!
- load(url)
 - Makes Ajax request and loads result into HTML element
 - \$("#some-id").load("address");
 - · A data string or object is an optional second arg
- Shortcuts
 - \$.get, \$.post, \$.getJSON
 - Slightly simpler forms of \$.ajax. However, they support fewer options, so many developers just use \$.ajax.

Downloading and Installation

Download

- http://jquery.com/
 - · For development, use uncompressed file
 - E.g., jquery-1.4.3.js
 - · For deployment, use compressed file
 - E.g., jquery-1.4.3.min.js
- For easier upgrades without changing HTML files
 - Rename file to jquery.js (or possibly jquery-1.4.js)

Installation

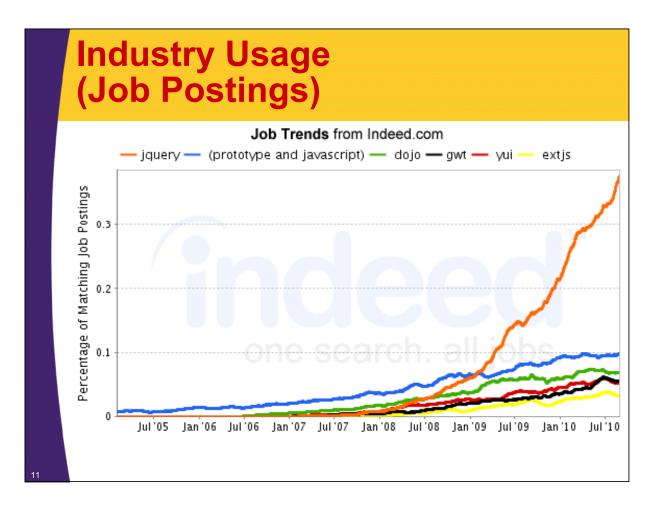
- Load jquery.js before any JS files that use jQuery
 - That's it: just a single file to load for core jQuery.
 - jQuery UI (covered in later tutorial) is a bit more involved

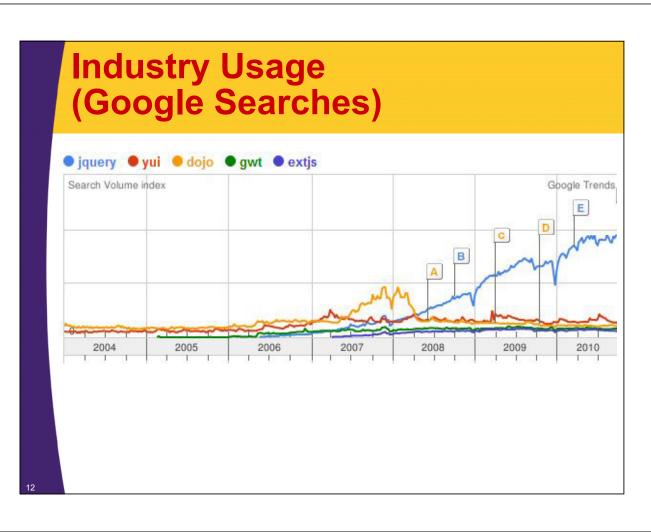
Online API and tutorials

– http://docs.jquery.com/

Browser Compatibility

- Firefox
 - 2.0 or later (vs. 1.5 or later for Prototype)
- Internet Explorer
 - 6.0 or later (does not work in IE 5.5)
- Chrome
 - All (i.e., 1.0 or later)
- Safari
 - 3.0 or later (vs. 2.0 or later for Prototype)
- Opera
 - 9.0 or later (vs. 9.25 or later for Prototype)
- To check
 - Run the test suite at http://jquery.com/test/







jQuery Selectors: Basics

Note: brief intro only. More details in next tutorial section.

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Selecting DOM Elements

- Idea
 - Use \$("css selector") to get a set of DOM elements
 - Then, perform operations on each (see next page)
 - · Much more detail given in next tutorial section
- Examples
 - \$("#some-id")
 - Return 1-element set (or empty set) of element with id
 - Simplest use, and most common for Ajax (note the "#"!)
 - \$("p")
 - Return all p elements
 - \$(".blah")
 - Return all elements that have class="blah"
 - \$("li b span.blah")
 - Return all elements that are inside b elements, that in turn are inside li elements

Manipulating DOM Elements

Common functions on matched elements

- \$("#some-id").val()
 - Returns value of input element. Used on 1-element sets.
- \$("selector").each(function)
 - Calls function on each element. "this" set to element.
- \$("selector").addClass("name")
 - Adds CSS class name to each. Also removeClass, toggleClass
- \$("selector").hide()
 - Makes invisible (display: none). Also show, fadeOut, fadeIn, etc.
- \$("selector").click(function)
 - Adds onclick handler. Also change, focus, mouseover, etc.
- \$("selector").html("<tag>some html</tag>")
 - Sets the innerHTML of each element. Also append, prepend

Chaining

- \$("a").click(funct1).addClass("name").each(funct2)

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Example: Randomizing Background Colors (JavaScript)

```
function randomizeHeadings() {
                                          Call setRandomStyle function on each h3 element
  $("h3").each(setRandomStyle);
  $("h3.green").hide("slow");
}
                                          Slowly hide every h3 that has CSS style "green"
function setRandomStyle() {
  $(this).addClass(randomStyle());
}
                                          Add "red", "yellow" or "green" CSS names to each
function randomStyle() {
  var styles = ["red", "yellow", "green"];
  return(randomElement(styles));
function randomElement(array) {
  var index = Math.floor(Math.random()*array.length);
  return(array[index]);
```

Example: Randomizing Colors (JavaScript Continued)

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Example: Randomizing Colors (Style Sheet)

```
.red { background-color: red }
.yellow { background-color: yellow }
.green { background-color: green }
...
Names set by setRandomStyles function
```

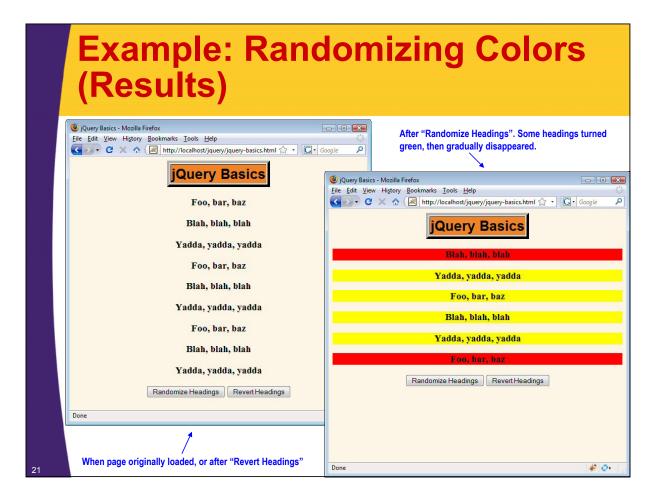
Example: Randomizing Colors (HTML)

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Example: Randomizing Colors (HTML Continued)

```
""
<h3>Foo, bar, baz</h3>
<h3>Blah, blah, blah</h3>
<h3>Yadda, yadda, yadda</h3>
<h3>Foo, bar, baz</h3>
<h3>Blah, blah, blah</h3>
<h3>Yadda, yadda, yadda</h3>
<h3>Foo, bar, baz</h3>
<h3>Foo, bar, baz</h3>
<h3>Blah, blah, blah</h3>
<h3>Blah, blah, blah</h3>
<h3>Yadda, yadda, yadda</h3>
<input type="button" id="button1" value="Randomize Headings"/>
<input type="button" id="button2" value="Revert Headings"/>
""

""
```



Understanding Operations on Sets of Elements

Instead of this

```
function randomizeHeadings() {
  $("h3").each(setRandomStyle);
  $("h3.green").hide("slow");
function setRandomStyle() {
  $(this).addClass(randomStyle());
```

Why can't I simply do this?

```
function randomizeHeadings() {
  $("h3").addClass(randomStyle())
  $("h3.green").hide("slow");
```



\$.ajax: Basics

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\$.ajax: Basic Syntax

\$.ajax(optionsObject)

- Minimal form: \$.ajax({url: "address", success: funct});
 - Don't forget the ".". It is \$.ajax(...), not \$ajax(...).
- The handler function gets the response text, not the response object. jQuery guesses if it should be plain text, XML, or JSON from the response type. If you want to enforce that handler gets given type, use dataType option

Options for \$.ajax({...})

- Almost-always used
 - url, success
- Other common options
 - cache, data, dataType, error, type, username, password

More on "success" Handler

Simplest form

- function someHandler(text) { ... }
 - Note that it gets the response *text*, not the response object
 - And, "text" can really be XML or JSON, depending on the dataType option

Full form

- function someHandler(text, status, request) { ... }
 - text
 - Response data from server
 - status
 - String describing the status: "success" or "notmodified". Rarely useful. In error handlers, the status string is more meaningful.
 - request
 - The raw XMLHttpRequest object.

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Data-Centric Ajax with and without Toolkits

With basic JavaScript

```
function getRequestObject() {
   if (window.XMLHttpRequest) {
      return(new XMLHttpRequest());
   } else if (window.ActiveXObject) {
      return(new ActiveXObject("Microsoft.XMLHTTP"));
   } else { return(null); }
}

function sendRequest() {
   var request = getRequestObject();
   request.onreadystatechange =
      function() { someFunct(request); };
   request.open("GET", "some-url", true);
   request.send(null);
}
```

Data-Centric Ajax with and without Toolkits

jQuery (handler passed response text)

Prototype (handler passed response object)

Ext (handler passed response object)

Dojo (handler passed response text)

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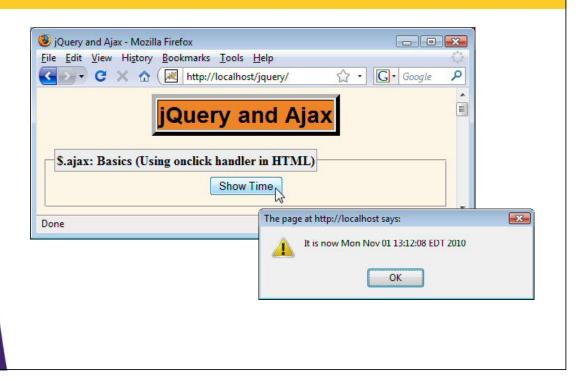
\$.ajax Example Code: JavaScript

\$.ajax Example Code: HTML

\$.ajax Example Code: JSP

It is now <%= new java.util.Date() %>

\$.ajax: Results



Registering Event Handlers in JavaScript

Basic approach

- Previous example set the onclick handler in the HTML.
 Although this is common with some Ajax libraries,
 jQuery advocates setting it in the JavaScript instead
 - Often referred to as "unobtrusive JavaScript": no explicit JavaScript anywhere in the HTML page

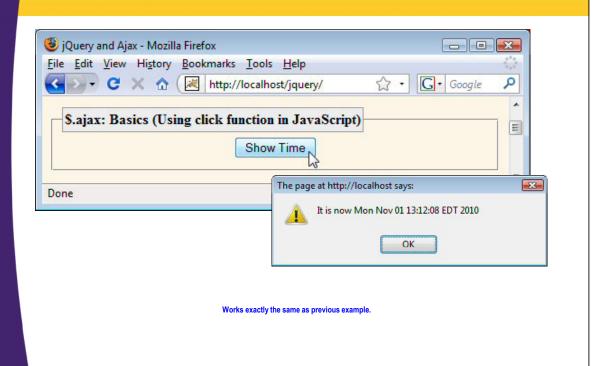
jQuery support

- \$(function() {...});
 - Function runs after the DOM is loaded, but does not wait for images, as with window.onload
 - Use this approach to set up all event handlers
- \$("#some-id").click(someHandler);
 - Assigns to onclick handler. Handler is passed an Event object with characteristics that are unified across browsers

Redoing Time Alert: JavaScript

Redoing Time Alert: HTML

Redoing Time Alert: Results



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\$.ajax: Sending Data

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Overview

- \$.ajax({ url: ..., success: ..., data: ...});
 - Can be a String, in which case it is sent unchanged.
 - On end of URL or in POST data, depending on HTTP type
 - String can be built automatically using "serialize" function
 - Can be an object, in which case query string gets built out of property names and URL-encoded property values
 - Works identically to "parameters" option in Prototype

Equivalent examples

- \$.ajax({... data: "param1=foo+bar%21¶m2=baz"});
- \$.ajax({... data: { param1: "foo bar!", param2: "baz"}});

Note: the val function

- val reads the value of an input element
 - var text = \$("#some-textfield-id").val();
 - Works for all input elements, even multiselectable select elements (in which case it returns an array)

Three Alternatives

Explicit string

- Supply an explicit string for data property. We will hardcode it in this example, but it can also be built from data in the page as with earlier Ajax examples.
 - \$.ajax({url: ..., data: "a=foo&b=bar", success: ...});

Data object

- Supply an object for data property. Property names become param names and URL-encoded property values become param values. *URL-encoding of values is automatic*.
 - var params = { a: "value 1", b: "another value!"};
 - \$.ajax({url: ..., data: params, success: ...});

String built by "serialize"

- Give id to the form. Give names (not ids) to input elements.
 When you call serialize on form, it builds the same query string as a browser would on normal form submission.
 - \$.ajax({url: ..., data: \$("#form-id").serialize(), success: ...});

The "data" Option with Explicit String: JavaScript

The "data" Option with Explicit String: HTML

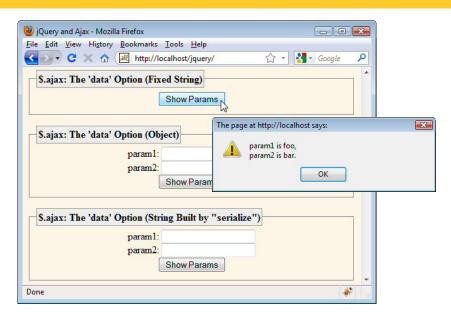
The "data" Option with Explicit String: JSP

```
param1 is ${param.param1},
param2 is ${param.param2}.
```

All three examples with the "data" option use this same JSP page.

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The "data" Option with Explicit String: Results



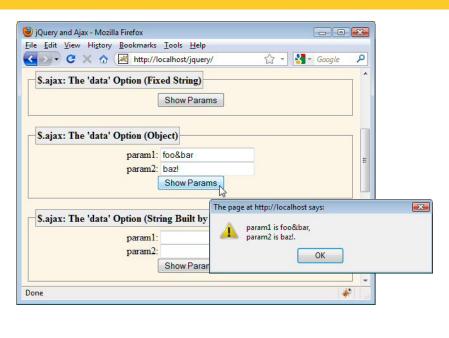
The "data" Option with Data Object: JavaScript

The "data" Option with Data Object: HTML

The "data" Option with Data Object: JSP

```
param1 is ${param.param1},
param2 is ${param.param2}.
All three examples with the "data" option use this same JSP page.
```

The "data" Option with Data Object: Results



The "data" Option with String from "serialize": JavaScript

The "data" Option with String from "serialize": HTML

The reason for action="#" on the form is that, technically, the action attribute of form is required. So, just to satisfy formal HTML validators, we put in dummy action value. But, of course, the action is not used in any way.

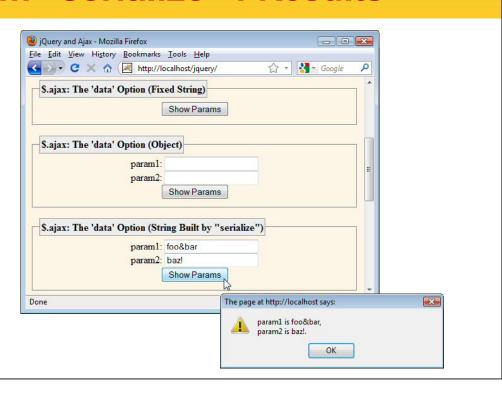
The "data" Option with String from "serialize": JSP

```
param1 is ${param.param1},
param2 is ${param.param2}.
```

All three examples with the "data" option use this same JSP page.

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The "data" Option with String from "serialize": Results





\$.ajax: Options and Shortcuts

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Overview

- Options (almost) always used: url, success
 - \$.ajax({url: "some-address", success: someFunction});
 - success is not strictly required; you might want to just fire off some data to the server and not display anything
- Common options: example

```
$.ajax({
    url: "address",
    success: successHandlerFunction,
    data: { param1: "foo bar", param2: "baz"},
    error: errorHandlerFunction,
    cache: false,
    dataType: "json",
    username: "resig",
    password: "scriptaculous-fan" });
```

Options

Name	Description	Default
async	Should the request be asynchronous? Use synchronous requests with caution since they lock up the browser.	true
beforeSend	Function to modify XMLHttpRequest object before it is sent (e.g., to set custom headers). The XHR is automatically passed to function.	None
cache	Is browser permitted to cache the page? Set to false if you use GET and you could get different responses back from the same data. Equivalent to having the server send Cache-Control: no-cache and Pragma: no-cache.	true (except false if dataType is script or json)
complete	Function to be called after error or success function is finished.	None
contentType	Content-Type of data sent to server. Rarely needed.	application/ x-www-form- urlencoded
data	Data to send to server (possibly after conversion). Sent in the appropriate place depending on whether it is GET or POST. Can be a String or an object. If a String, sent unchanged. If an object, property names become param names and property values get URL-encoded and become param values. & and = inserted automatically. If a value is an array, it is serialized with repeated param names.	Empty

Options (Continued)

Name	Description	Default
dataFilter	Response-data sanitizing function. Rarely used.	None
dataType	The format in which to pass the response to the handler function. Legal values are text, html (same as text except embedded scripts are run), xml, json, jsonp (JSON with Padding), and script (evaluates the response as JavaScript and returns it as plain text).	html , xml, or json (makes intelligent guess)
error	Function to be called if request fails. Function is passed 3 args: the XHR object, a string describing the error type, and an optional exception object. Possible values for the second argument are null, "timeout", "error", "notmodified" and "parsererror".	None
global	jQuery lets you set global defaults for various handlers: should they be used if set?	true
ifModified	Should the request be considered successful only if the response has changed since the last request (based on the Last-Modified header)?	false
jsonp	Override the callback function name in a jsonp request. JSONP is a JSON extension in which the name of a callback function is specified as an input argument of the call itself.	callback
password username	Username and password to be used in response to HTTP authentication request.	None

Options (Continued)

Name	Description	Default
processData	Should the value of the "data" property, if an object, be turned into a URL-encoded query string?	true
scriptCharset	Forces the request to be interpreted as a certain charset. Only for requests with dataType of "jsonp" or "script" and type of "GET".	None
success	Function to be called if request succeeds. Function passed 3 args: the data returned from the server (formatted according to the dataType property), a string describing the status, and the XHR.	None
timeout	Timeout in milliseconds. If request takes longer, the error handler will be called instead of the success handler.	Global timeout, if set via \$.ajaxSetup
traditional	Should data with arrays be serialized in traditional manner (shallow), or recursively (deep).	false
type	The HTTP method to use for the request. "get" and "post" are main options, but some browsers support other methods.	get
url	The address to request. Should be a relative URL.	None
xhr	Callback for creating your own custom XMLHttpRequest object.	ActiveXObject if available (IE), XMLHttpRequest otherwise

Shortcuts for \$.ajax: Equivalent Forms

\$.get

- \$.get("url", dataObj, someFunct)
- \$.ajax({url: "url", data: dataObj, success: someFunct});

\$.post

- \$.post("url", dataObj, someFunct)

\$.getJSON

- \$.getJSON("url", dataObj, someFunct)

Note

– get and post take the type as an optional fourth argument

Pros and Cons of Shortcuts

- Advantages of shorthand functions
 - Slightly shorter and (arguably) clearer
- Disadvantages of shorthand functions
 - If you want additional options later, you have to change existing code more drastically
 - There is no direct argument for supplying error handler.
 Instead, you must call ajaxError to set up error handler.
 - If you don't have data, you have to pass in null. This is less convenient than just omitting the "data" property.
 - \$.get("url", null, someHandler);
 - \$.ajax({url: "url", success: someHandler});
 - In older jQuery versions, couldn't use serialize.
 - In jQuery 1.3 and earlier, the data cannot be a string. This
 means you cannot use the serialize function to
 automatically build the query string from the form

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Simplifying Inserting Results into HTML: the "load" Function

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load: Basic Syntax

Basic forms

- \$("#result-area-id").load("url");
- \$("#result-area-id").load("url", data);
- \$("#result-area-id").load("url", data, handlerFunction);

Helper utilities

- val: reading the value of an input element
 - var text = \$("#some-textfield-id").val();
 - Works for all input elements, even multiselectable select elements (in which case it returns an array)
- Filtering returned HTML
 - Add jQuery selectors to the URL. Only elements that match will be inserted. E.g., to insert only li elements:
 - \$("#result-id").load("address li");
 - Go very light with filtering: use data-centric Ajax instead.

__

Content-Centric Ajax with and without Toolkits (Basic JS Only)

Content-Centric Ajax with and without Toolkits (\$.ajax)

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Content-Centric Ajax with and without Toolkits (Libraries)

jQuery

```
function ajaxResult(address, resultRegion) {
   $(resultRegion).load(address);
}
```

Prototype

```
function ajaxResult(address, resultRegion) {
  new Ajax.Updater(resultRegion, address);
}
```

Dojo

- No explicit support for content-centric Ajax

Ext-JS

```
function ajaxResult(address, resultRegion) {
   Ext.get(resultRegion).load({ url: address});
}
```

load Example: JavaScript

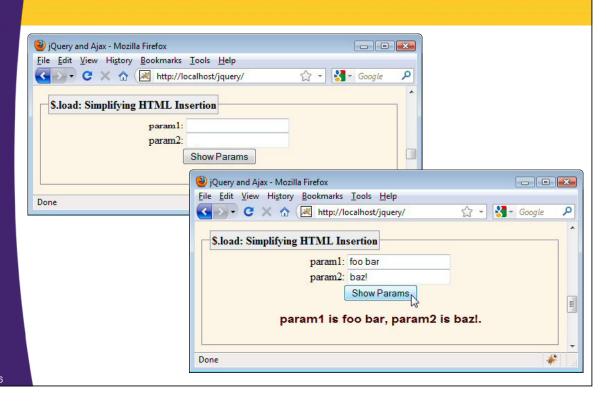
คร

load Example: HTML

load Example: JSP

```
param1 is ${param.param1},
param2 is ${param.param2}.
Unchanged from previous examples
```

load Example: Results





Handling JSON Data

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Approach

Server

- Returns JSON object with no extra parens. E.g.:
 - { "cto": "Resig ", "ceo": "Gates ", "coo": "Ellison" }

Code that calls \$.ajax

- Specifies dataType of json. E.g.:
 - \$.ajax({ url: address, success: handler, dataType: "json" });

Response handler

- Receives JavaScript data as first argument. No need for parsing or "eval". Must build HTML from result. E.g.:

Strict JSON

JSON in practice

- The way you would type a data structure into JavaScript.
- This is what "eval", Prototype, and jQuery 1.3 support

Strict JSON according to json.org

- Subset of JavaScript where
 - Object property names must be in double quotes
 - Strings are represented with double quotes only (not single quotes)
- This is what jQuery 1.4 supports. Since this is what is clearly described at json.org, you should follow this format when sending JSON from the server.

MIME type for JSON from server

- RFC 4627 says JSON should have "application/json" type
- No known libraries enforce this

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JSON Example Code: Core JavaScript

JSON Example Code: Auxiliary JavaScript

JSON Example Code: Auxiliary JavaScript (Continued)

```
function listItems(items) {
  var result = "";
  for(var i=0; i<items.length; i++) {
    result = result + "<li>" + items[i] + "\n";
  }
  return(result);
}

function listEndTags() {
  return("</div>");
}
```

JSON Example Code: HTML

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JSON Example Code: Servlet

```
public class ShowNumbers extends HttpServlet {
 public void doGet(HttpServletRequest request,
                    HttpServletResponse response)
      throws ServletException, IOException {
    response.setHeader("Cache-Control", "no-cache");
    response.setHeader("Pragma", "no-cache");
    String fg = ColorUtils.randomColor();
    request.setAttribute("fg", fg);
    String bg = ColorUtils.randomColor();
    request.setAttribute("bg", bg);
    String fontSize = "" + (10 + ColorUtils.randomInt(30));
    request.setAttribute("fontSize", fontSize);
    double[] nums =
      { Math.random(), Math.random(), Math.random() };
    request.setAttribute("nums", nums);
    response.setContentType("application/json");
    String outputPage = "/WEB-INF/results/show-nums.jsp";
    RequestDispatcher dispatcher =
      request.getRequestDispatcher(outputPage);
    dispatcher.include(request, response);
```

JSON Example Code: JSP

```
{ "fg": "${fg}",
  "bg": "${bg}",
  "fontSize:" ${fontSize},
  "numbers": [ ${nums[0]}, ${nums[1]}, ${nums[2]}]
}
```

Notes

- Quotes around property names. Double, not single, quotes
- Client-side code does not need wrap in parens and pass to "eval". JSON evaluation handled automatically by ¡Query
- Types
 - fg and bg: Strings
 - fontSize: int
 - numbers: Array of doubles

JSON Example Code: Auxiliary Java Code

```
public class ColorUtils {
  private static String[] colors = {
    "aqua", "black", "blue", "fuchsia", "gray",
    "green", "lime", "maroon", "navy", "olive",
    "purple", "red", "silver", "teal", "white", "yellow"
  };

/** One of the official HTML color names, at random. */

public static String randomColor() {
    return(RandomUtils.randomElement(colors));
  }

private ColorUtils() {} // Uninstantiatable class}
}
```

JSON Example Code: Auxiliary Java Code

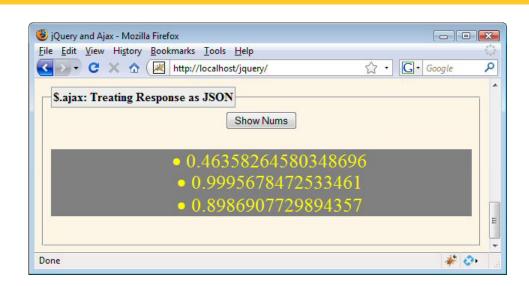
```
public class RandomUtils {
  private static Random r = new Random();

public static int randomInt(int range) {
    return(r.nextInt(range));
  }

public static int randomIndex(Object[] array) {
    return(randomInt(array.length));
  }

public static <T> T randomElement(T[] array) {
    return(array[randomIndex(array)]);
  }
}
```

JSON Example: Results





Wrap-up

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"Best" JavaScript Libraries

- General JS programming
 - Leaders: Closure, Prototype
- Other programming (Java)
 - Leader (only): GWT
- DOM manipulation
 - Leader: jQuery
 - Others are copying jQuery approach and closing gap. jQuery released CSS matching library separately (http://sizzlejs.com)
- Rich GUIs
 - Leaders: Ext-JS, YUI, Dojo
 - 2nd tier: jQuery UI, GWT, Google Closure
- Familiarity to JS developers
 - Lowest: GWT
 - 2nd-lowest: Google Closure

- Traditional Ajax support
 - Tie
- Server communication
 - Leader: GWT
 - 2nd tier: DWR, JSON-RPC
- Usage in industry
 - Leader: jQuery
 - 2nd tier: Ext-JS, Dojo, YUI, Prototype, Scriptaculous, GWT
 - Lowest: Google Closure
- Support for extra-large projects
 - Leaders: Closure, GWT
 - 2nd tier: Ext-JS, YUI, Dojo

Books and References

- jQuery in Action
 - by Bear Bibeault, Yehuda Katz, and John Resig
 Makes global variable blunder when showing normal Ajax
- jQuery 1.4 Reference Guide
 - by Jonathan Chaffer and Karl Swedberg
- http://docs.jquery.com/
 - Very complete
 - Moderately well organized
 - Moderate number of explicit examples
- jQuery UI 1.7
 - By Dan Wellman
 - Looks good, but jQuery UI is changing rapidly (current version is 1.8), so the online docs are perhaps better

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Summary

Assigning event handlers programmatically

```
$(function() {
    $("#some-id").click(someFunction);
});
```

General Ajax requests (data-centric Ajax)

Loading result (content-centric Ajax)

```
$("#result-id").load("relative-address",
$("#form-id").serialize());
```

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Questions?

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