

# ColdFusion 8 Ajax Features Overview

Scott Bennett

[www.ColdFusionGuy.com](http://www.ColdFusionGuy.com)

# ColdFusion Ajax tags and Functions

Data Tags	UI Tags		Functions
cfajaximport	cfdiv	cfdiv	AjaxLink
cfajaxproxy	cfselect	cfselect	AjaxOnLoad
cfspydataset	cfgrid	cfgrid	DeserializeJSON
	cftextarea	cftextarea	IsJSON
	cfinput	cfinput	QueryConvertForGrid
	cftree	cftree	SerializeJSON

# ColdFusion 8 provides two types of Ajax features:

- Data and development features
- User interface (UI) features

# Data and development features

ColdFusion data and development features help you develop effective Ajax applications that use ColdFusion to provide dynamic data. They include many features that you can use with other Ajax frameworks, including Spry.

- `cfajaxproxy`
- `cfjsprydataset`
- `cfajaximport`
- Data Binding
- JSON
- Ajax Debugging

# cfajaxproxy

- Create a JavaScript proxy for a ColdFusion component, for use in an AJAX client that provides access to all remote functions in the CFC.
- Create a proxy for a single CFC method, JavaScript function, or URL that is bound to one or more control attribute values.

# cfsprydataset

- Creates a Spry XML or JSON data set from the results of a bind expression.
- Applications that use Spry framework elements, such as dynamic regions, can use this tag to populate the Spry elements with information based on ColdFusion control input.

# cfajaximport

- Controls the JavaScript files that are imported for use on pages that use ColdFusion AJAX tags and features.
- Although ColdFusion can usually automatically determine and import the required files, sometimes you must manually specify the information.
- The ability to change the file location lets you support a wide range of configurations and use advanced techniques, such as application-specific styles.

# Data Binding

- Binding allows an application that uses form and display tags to dynamically display information based on form input.
- Sets up event listeners to automatically update the display when the bound input data changes
- Display form data directly in other form fields
- Pass form field data as parameters to a CFC, a JavaScript function, or a URL

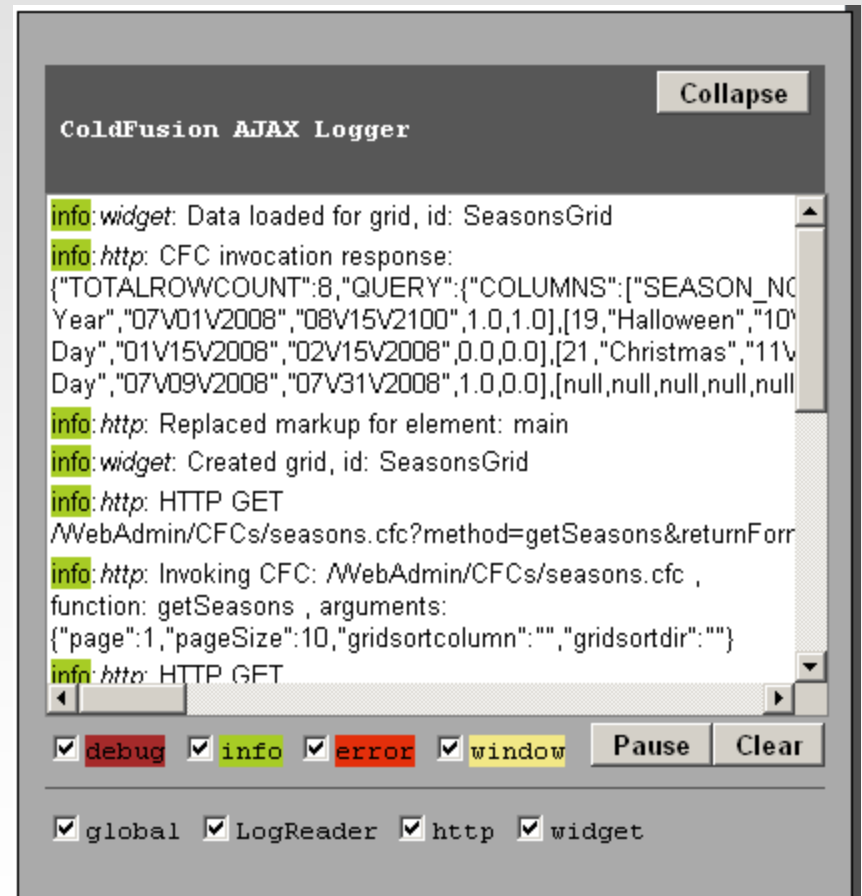


# JSON

- ColdFusion provides several CFML functions that let you create and consume JSON (JavaScript Object Notation) format data on the server.
  - **IsJSON()**
    - Evaluates whether a string is in valid JSON data interchange format.
  - **SerializeJSON()**
    - Converts ColdFusion data into a JSON representation of the data.
  - **DeserializeJSON()**
    - Converts a JSON string data representation into CFML data, such as a CFML structure or array.
  - **QueryConvertForGrid()**
    - Converts query data to a structure that contains a paged subset of the query. Used in CFC functions that return data to Ajax format cfgrid controls in response to a bind expression.

# AJAX Debugging

- Enable AJAX Debug Log Window
  - Allows display of the AJAX debug log window when the “cfdebug” flag is passed in the URL.
- ColdFusion Ajax features display information and error messages in this window, and several logging tags let you display additional information, including the structure of complex JavaScript variables.



# User interface features

<b>Ajax-based HTML controls</b> <ul style="list-style-type: none"><li>• <code>&lt;cfgrid format="html"...</code></li><li>• <code>&lt;cfinput type="datefield"...</code></li><li>• <code>&lt;cftextarea richtext="yes"...</code></li><li>• <code>&lt;cftree format="html"...</code></li></ul>	<b>Pop-up menus and menu bars</b> <ul style="list-style-type: none"><li>• <code>&lt;cfmenu&gt;</code></li><li>• <code>&lt;cfmenuitem&gt;</code></li></ul>
<b>Container Tags</b> <ul style="list-style-type: none"><li>• <code>&lt;cfdiv&gt;</code></li><li>• <code>&lt;cflayout&gt;</code></li><li>• <code>&lt;cflayoutarea&gt;</code></li><li>• <code>&lt;cfpod&gt;</code></li><li>• <code>&lt;cfwindow&gt;</code></li></ul>	<b>User assistance</b> <ul style="list-style-type: none"><li>• <code>&lt;cfinput type="text" autosuggest="BindExpression"...</code></li><li>• <code>&lt;cftooltip&gt;</code></li></ul>

# Ajax-based HTML controls

- `<cfgrid format="html"...`
  - A dynamic, editable, sortable, data grid.
- `<cfinput type="datefield"...`
  - An input control that users can fill by selecting a date from a pop-up calendar.
- `<cftextarea richtext="yes"...`
  - A text area with a set of controls that let users format the displayed text.
- `<cftree format="html"...`
  - A dynamic, editable, tree-format representation of data.

Name	Start Date	End Date
All Year	07/01/2008	08/15/2100
Halloween	10/15/2007	10/31/2008
Valentine's Day	01/15/2008	02/15/2008
Christmas	11/01/2008	12/26/2008
Christmas	11/01/2008	12/26/2008
Christmas	11/01/2008	12/26/2008
Christmas	11/01/2008	12/26/2008
Gefellafish Day	07/09/2008	07/31/2008



This list was updated on May 30, 2008

### Non Seasonal Retail Job Opportunities

Ready for a career change in 2008? Are you looking for a management role in retail? Youve come to the right place. If you love working in retail and want to provide extraordinary customer service, consider joining our team. If you have a sweet tooth, and have a passion for chocolate and candy, then thats a great plus!

We have part-time and full-time, regular, shop management openings in the following shop locations.

To apply: email your resume to: [resumes@sees.com](mailto:resumes@sees.com)

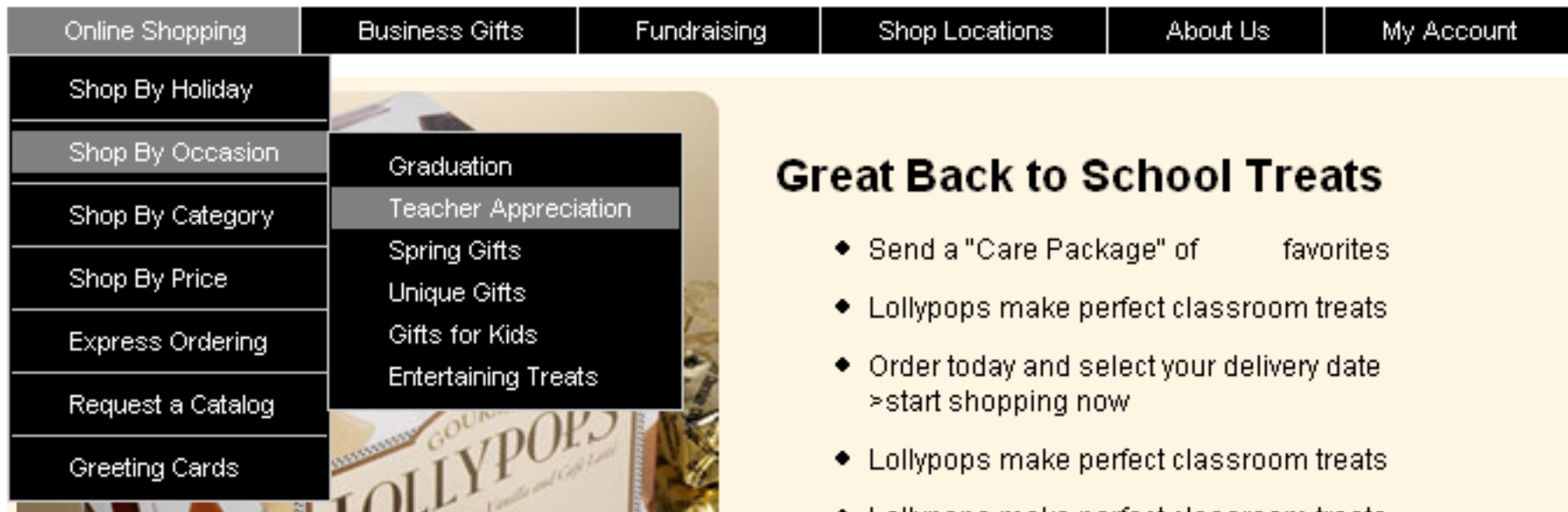
When applying online, DO NOT send us a file attachment. Send us your resume in plain email text to be considered. In the Subject Line of your email, you must list the City (or Zip Code) and State of the See's location you are interested in working in.

Document Categories

- Show All Documents
- Category1
- Category2
- Category3
- Category4

# Pop-up menus and menu bars

- `<cfmenu>`
  - Creates a horizontal or vertical menu
- `<cfmenuitem>`
  - Defines a divider or an entry in a menu



# Container Tags

- **<cfdiv>**
  - Creates an HTML div tag or other HTML container tag and lets you use asynchronous form submission or a bind expression to dynamically control the tag contents.
- **<cflayout>**
  - Creates a region of its container (such as the browser window or a cflayoutarea tag) with a specific layout behavior: a bordered area, a horizontal or vertically arranged box, or a tabbed navigator.
- **<cflayoutarea>**
  - Defines a region within a cflayout tag body, such as an individual tab of a tabbed layout.
- **<cfpod>**
  - Creates a pod, an area of the browser window or layout area with an optional title bar and a body that contains display elements.
- **<cfwindow>**
  - Creates a pop-up window in the browser. Does not create a separate browser pop-up instance.

The screenshot displays a web application interface for 'Shop Locations'. On the left is a sidebar menu with options: Products, PageContent, HTML Editor, Shop Locations (selected), and Catalog. The main content area is titled 'Shop Locations' and features a form for editing a specific location (SSC 102) and a table of other locations. The form includes fields for Name, Address, Phone, Fax, Sales Type, Status, Perm Temp, Latitude, Longitude, and Publish. The table lists various shopping centers with their SSC numbers, names, and addresses. A map of the Balboa Mesa area is overlaid on the bottom right, showing the location of SSC 102 (Balboa Mesa Center) at 5941 Balboa Ave. The map includes street names like Chateau Dr, Genesee Plaza, and Balboa Ave, and is powered by Google Maps.

SSC	Name	Address
101	SOUTH LA CIENEGA	3431 S LA CIENEGA
102	BALBOA MESA CENTER	5941 BALBOA AVE
103	VALLEY PLAZA CE	2701 MING AVE #20
104	VICTORIA GARDEN	7819 MONTICELLO
105	WESTFIELD CENTUR	10250 SANTA MON
106	GATEWAY VILLAGE	3626 GRAND AVEN
107	PALM SPRINGS	144 SOUTH PALM C
108	PACIFIC VIEW VENT	3301 - 1084 EAST N
109	INLAND CENTER	144 INLAND CENTER
111	GROSSMONT CENT	5500 GROSSMONT
112	LA CLIMBRE PLAZA	3849 STATE ST
113	PASADENA	257 EAST COLORA
114	ANTELOPE VALLEY	1233 WEST AVENU

# User assistance

- `<cfinput`  
    `type="text"`  
    `autosuggest="List/BindExpression"...`
  - The autosuggest attribute specifies entry completion suggestions to display as the user types into a text input. The user can select a suggestion to complete the text entry.
  - You can either enter a list or specify a list or a bind expression in this attribute
- `<cftooltip>`
  - Specifies tool tip text that displays when the user hovers the mouse pointer over the elements in the tag body. This tag does not require a form and is not used inside Flash forms.

# AjaxLink() & AjaxOnLoad()

- **AjaxLink()**
  - Causes an HTML href attribute to display link results in the current Ajax container. When the browser follows a link that is specified by this function, the HTTP response does not replace the current page; instead, it populates the containing cfdiv, cflayoutarea, cfpod, or cfwindow control.
- **AjaxOnLoad()**
  - Causes the specified JavaScript function to run when the page loads.



# ColdFusion AJAX JavaScript Functions

- ColdFusion.Ajax.submitForm
- ColdFusion.getElementValue
- ColdFusion.Grid.getGridObject
- ColdFusion.Grid.refresh
- ColdFusion.Grid.sort
- ColdFusion.JSON.decode
- ColdFusion.JSON.encode
- ColdFusion.Layout.collapseArea
- ColdFusion.Layout.createTab
- ColdFusion.Layout.disableTab
- ColdFusion.Layout.enableTab
- ColdFusion.Layout.expandArea
- ColdFusion.Layout.getBorderLayout
- ColdFusion.Layout.getTabLayout
- ColdFusion.Layout.hideArea
- ColdFusion.Layout.hideTab
- ColdFusion.Layout.selectTab
- ColdFusion.Layout.showArea
- ColdFusion.Layout.showTab
- ColdFusion.Log.debug
- ColdFusion.Log.dump
- ColdFusion.Log.error
- ColdFusion.Log.info
- ColdFusion.navigate
- ColdFusion.setGlobalErrorHandler
- ColdFusion.Tree.getTreeObject
- ColdFusion.Tree.refresh
- ColdFusion.Window.create
- ColdFusion.Window.getWindowObject
- ColdFusion.Window.hide
- ColdFusion.Window.onHide
- ColdFusion.Window.onShow
- ColdFusion.Window.show

# Resources

- <http://livedocs.adobe.com/coldfusion/8/>
- <http://extjs.com/depoy/ext/docs/>
- <http://developer.yahoo.com/yui/docs/index.html>
- <http://www.google.com>
- <http://www.ColdFusionGuy.com> (Scott Bennett)
- <http://www.DanVega.org>
- <http://www.cfsilence.com> (Todd Sharp)