InterSystems®
Caché

CSP and HTML Tag Reference

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CSP and HTML Tag Reference
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About This Book

This reference lists all the CSP custom HTML tags as well as the most commonly used standard HTML tags. For each tag, there is a list of supported attributes (HTML standard as well as special CSP attributes) along with a short description.

For additional information on HTML, you may find the HTML v4.0.1 Specification useful.

CSP Directives

#()#

CSP Runtime Expression

```
#(expr)#
```

Description

The #()# directive allows you place an expression within the body of a CSP page. This expression is evaluated on the server when the page is requested by a client. The result of the expression is sent to the client as part of the HTTP response.

For example, the following HTML:

```
The value of <I>x</I> is: <B>#(x)#</B>
```

Is equivalent to:

```
<SCRIPT LANGUAGE="CACHE" RUNAT="SERVER">
 Write "The value of <I>x</I> is: <B>",x,"</B>"
</SCRIPT>
```

##()##

CSP Compile-time Expression

```
##(expr)##
```

Description

The ##()## directive allows you place an expression within the body of a CSP page. This expression is evaluated on the server by the CSP Compiler when the CSP source file is compiled into a %CSP.Page class. The result of the expression becomes part of the executable code for the CSP page.

For example, the following HTML:

```
This page was last compiled on <B>##($ZDT($H,3))##</B>
```

Is equivalent to:

```
This page was last compiled on <B>2002-01-02 13:51:12</B>
```

When the client requests this page, the value sent will be the time when the page was *compiled* (not when it was requested).

#INCLUDE

CSP Server-side Include Directive

```
<!--#INCLUDE FILE="filename"-->
```

Attributes

General Attributes

Attribute	Description	Value
FILE	Name of the file containing the text to include.	A file name
VIRTUAL	Indicates that the file path begins with virtual directory.	Boolean

Description

The #INCLUDE directive allows you include text within a CSP page from an external text document.

For an example using #include, refer to the http://localhost/csp/samples/textinclude.csp sample page.

Server-side include directives give you a way to insert the content of another file into a file before the CSP server processes it. To insert a file into an .csp file, use the following syntax:

```
<!-- #include VIRTUAL | FILE="filename" -->
```

The *virtual* and *file* keywords indicate the type of path you are using to include the file, and *filename* is the path and file name of the file you want to include. Included files do not require a special file name extension; however, it is considered good programming practice to give included files an .inc extension to distinguish them from other types of files.

Use the *virtual* keyword to indicate a path beginning with a virtual directory. For example, if a file named Footer.inc resides in a virtual directory named /Myapp, the following line would insert the contents of Footer.inc into the file containing the line:

```
<!-- #include virtual ="/myapp/footer.inc" -->
```

Use the *file* keyword to indicate a relative path. A relative path begins with the directory that contains the including file. For example, if you have a file in the directory Myapp, and the file Header1.inc is in Myapp\Headers, the following line would insert the contents of Header1.inc into your file:

```
<!-- #include file ="headers\header1.inc" -->
```

Note that the path to the included file, Headers\header1.inc, is relative to the including file; if the script containing this #include statement is not in the directory /Myapp, the statement would not work. CSP detects changes to an included file and will force recompilation of the page which includes that file. Changing the application configuration may change the location of the a file representing a CSP page or included in a CSP page. Therefore, all pages will be recompiled after a CSP configuration change.

Including Files: Tips and Cautions

An included file can, in turn, include other files. A .csp file can also include the same file more than once, provided that the #include directives do not cause a loop. For example, if the file First.csp includes the file Second.inc, Second.inc must not in turn include First.csp. Nor can a file include itself. CSP includes files before executing script commands. Therefore, you cannot use a script command to build the name of an included file. For example, the following script would not open

the file Header1.inc because CSP attempts to execute the #include directive before it assigns a file name to the variable name.

```
<!-- This script will fail -->
 <script language="cache" runat="server">
  set name=header1_".inc"
 </script>
<!-- #include file="#(name)#" -->
```

Scripts commands and procedures must be entirely contained within the script delimiters <SCRIPT> and </SCRIPT>. That is, you cannot include a file within script delimiters and you cannot open a script delimiter in an including .csp file, then close the delimiter in an included file; the script must be a complete unit. The include directive may also be used within rule files just as they are within .csp files. The same restrictions concerning use of #include within script delimiters applies to rules files.

CSP Tags

<CSP:CLASS>

Specifies the details of the class generated for a CSP page.

```
<CSP:CLASS SUPER="MyApp.MyPage">
```

Attributes

General Attributes

Attribute	Description	Value
DOMAIN	Default value for message domain in the Domain property of the %CSP.Response object.	A string.
ENCODED	Query parameters for this page will be encrypted (0=no,1=yes,2=yes and remove unencrypted).	"0", "1", or "2".
ERRORPAGE	Name of custom CSP error page.	A string.
EXPIRES	Default value for the Expires property of the %CSP.Response object.	A string.
IMPORT	A comma-delimited list of imported packages.	A string.
INCLUDES	A comma-delimited list of include files for the generated CSP class.	A string.
PRIVATE	Specifies whether this page is PUBLIC or PRIVATE.	Boolean.
SUPER	A comma-delimited list of superclasses.	A string.

Description

The CSP:CLASS tag specifies characteristics of the class that is generated when a CSP page is compiled.

If more than one CSP:CLASS tag is used on a given CSP page, then the cumulative attribute values of all the tags are used. If the same attribute appears in multiple tags, then the value for the last tag to appear in the page is used.

Page Superclasses

Every CSP page is implemented as a Caché class. As such, it can inherit behavior (methods) from one or more superclasses. Basic CSP page functionality is provided by the %CSP.Page class, the default superclass of every CSP page. You may specify other superclasses to make specific methods available to your CSP page. You can do this using the SUPER attribute of the CSP:CLASS tag:

```
<CSP:CLASS SUPER="classlist">
```

Where *classlist* is a comma-delimited list of valid class names. The first class in the list must be %CSP.Page or a class that directly inherits from it. The SUPER attribute specifies the superclass of the class that generated when the CSP page is compiled; for details on class definitions, see Class Definitions in the reference Class Definitions in *Caché Class Definition Reference*.

For example, to specify a CSP page that inherits from a helper class called MyApp.MyMethods, use the following:

```
<CSP:CLASS SUPER="%CSP.Page,MyApp.MyMethods">
```

This is a good way to make common functionality available across a set of CSP pages.

<CSP:CLASS>

Page Visibility

A CSP page can be public or private. Public CSP pages can start a new session, have permanent URLs that are available beyond a single session and so can be bookmarked, and can be linked to from any web page.

Private CSP pages cannot start a new session, are accessed through encoded URLs that are valid only during a single session and so cannot be bookmarked, and can only be linked to from another CSP page within the same session.

By default, CSP pages are public. You make a private CSP page using the PRIVATE attribute of the CSP:CLASS tag:

```
<CSP:CLASS PRIVATE="1">
```

In addition, you can control the "encoding" a CSP page using the ENCODED attribute.

For more information on page visibility, refer to the Authentication and Encryption section of the *Using Caché Server Pages (CSP) Guide*.

Import and Include Directives

For the class generated when you compile a CSP page, you can specify one or more packages to import using the IMPORT attribute:

```
<CSP:CLASS IMPORT="MyPackage">
```

Similarly, you can specify one or more Caché include (.INC) files to be used by the generated class using the INCLUDE attribute.

```
<CSP:CLASS INCLUDES="MyInclude">
```

<CSP:COMMENT>

Delimits a CSP comment.

```
<CSP:COMMENT>...</CSP:COMMENT>
```

Description

The CSP:COMMENT tag lets you specify comments that are not rendered to the client.

HTML comments within CSP pages are sent to the client browser along with the rest of the content for a page. If you wish place comments within a page that are *not* sent to the client, use the CSP:COMMENT tag:

```
<CSP:COMMENT>This page could use better error handling!</CSP:COMMENT>
```

<CSP:CONTENT>

<CSP:CONTENT>

Specifies the content type of a CSP page.

```
<CSP:CONTENT>
```

Attributes

General Attributes

Attribute	Description	Value
CHARSET	Specifies the default charset.	A string.
NOCHARSETCONVERT	Turns off the charset conversion.	"0", or "1".
TYPE	Specifies the default Content-Type.	A string.

Description

The CSP:CONTENT tag specifies the default content characteristics of the generated page. This tag should only appear once on a given CSP page.

Content Type

By default, the content type for a CSP page is "text/html". You can change this using the TYPE attribute of the CSP:CONTENT tag. This sets the %CSP.Page *CONTENTTYPE* parameter of the class generated when you compile the CSP page.

Character Set

You can specify the default character set used by a CSP page when it responds to an HTTP request using the CHARSET attribute of the CSP:CONTENT tag. This sets the %CSP.Page *CHARSET* parameter of the class generated when you compile the CSP page.

You can turn off character set conversion using the NOCHARSETCONVERT attribute. Refer to the %CSP.Page class documentation for details.

<CSP:CONTINUE>

Executes the next iteration of the containing CSP:WHILE or CSP:LOOP block.

```
<CSP:CONTINUE>
```

Description

The CSP:CONTINUE executes the next iteration of the containing CSP:WHILE or CSP:LOOP block. For example:

```
<CSP:WHILE COUNTER=x CONDITION="(x<3)">
<CSP:IF CONDITION="(x=2)">
<CSP:CONTINUE>
</CSP:IF>
Item #(x)# <br>
</CSP:WHILE>
```

Will produce the following result:

```
Item 1
Item 3
```

<CSP:ELSE>

Delimits an ELSE block.

```
<CSP:IF>...<CSP:ELSE>...</CSP:IF>
```

Description

The CSP:ELSE tag, placed within a CSP:IF block, specifies that the text between it and the end of the CSP:IF are displayed if the CSP:IF CONDITION evaluates to FALSE at runtime.

For example:

```
<CSP:IF CONDITION=(name="Jack")>
  Hello, Jack!
<CSP:ELSE>
  Hello, someone who is not Jack!
</CSP:IF>
```

Refer to the CSP:IF tag for more details.

Specifying Script Language

The CSP:ELSE tag will fire one of two rules depending on whether the language is set to cache or basic; these two rules are %ELSE and %ELSEBASIC.

<CSP:ELSEIF>

Delimits an ELSEIF block.

```
<CSP:IF>...<CSP:ELSEIF CONDITION='%response.Data("TEST")=1'>...</CSP:IF>
```

Attributes

General Attributes

Attribute	Description	Value
CONDITION	A runtime server-side expression to be evaluated.	A server-side expression..

Description

The CSP:ELSEIF tag, placed within a CSP:IF block, specifies that the text between it and the end of the CSP:IF (or the next CSP:ELSEIF or CSP:ELSE) are displayed if the CSP:ELSEIF CONDITION evaluates to TRUE at runtime.

For example:

```
<CSP:IF CONDITION=(name="Jack")>
  Hello, Jack!
<CSP:ELSEIF CONDITION=(name="Jill")>
  Hello, Jill!
<CSP:ELSE>
  Hello, someone who is not Jack or Jill!
</CSP:IF>
```

Refer to the CSP:IF tag for more details.

Specifying Script Language

The CSP:ELSEIF tag will fire one of two rules depending on whether the language is set to cache or basic; these two rules are %ELSEIF and %ELSEIFBASIC.

<CSP:IF>

<CSP:IF>

Delimits an IF block.

```
<CSP:IF>...</CSP:IF>
```

Attributes

General Attributes

Attribute	Description	Value
CONDITION	A runtime COS expression to be evaluated.	A server-side expression.

Description

The CSP:IF tag displays its contents if the server–side expression specified by the CONDITION attribute evaluates to TRUE at runtime.

A CSP:IF tag must have a CONDITION attribute.

You can specify additional execution paths using the CSP:ELSEIF and CSP:ELSE tags.

You can nest CSP:IF tags:

```
<CSP:IF CONDITION="a=10">
  <CSP:IF CONDITION="b=20">
  <VAR>a</VAR> = 10 and <VAR>b</VAR> = 20.
  </CSP:IF>
</CSP:IF>
```

CSP:IF Examples

The following displays different messages depending on the *NAME* URL parameter (obtained via the %CSP.Request object):

```
<CSP:IF CONDITION='$G(%request.Data("NAME",1))="John"'>
Welcome, John!
<CSP:ELSEIF CONDITION='$G(%request.Data("NAME",1))="Jane"'>
Welcome, Jane!
<CSP:ELSE>
Welcome, whoever you are!
</CSP:IF>
```

The following example tests if the %session object contains a value for USERNAME . If not it places an error message on the document:

```
<CSP:IF CONDITION='(%session.Get("USERNAME")="")'>
        Unauthorized Access!
        </CSP:IF>
```

Specifying Script Language

The CSP:IF tag will fire one of two rules depending on whether the language is set to cache or basic; these two rules are %IF and %IFBASIC.

<CSP:INCLUDE>

Specifies runtime include of a CSP file.

```
<CSP:INCLUDE>
```

Attributes

General Attributes

Attribute	Description	Value
PAGE	The CSP page or file to include at this point.	A string.

Description

The CSP:INCLUDE tag includes another csp page or file at runtime. If there is a problem with the include then it will call the error page to display the error, setting the parameter *Error:IncludePage* to the page it was trying to include.

You can use the CSP:INCLUDE tag to create components and then include these components within your CSP pages.

You can specify files for inclusion that have extensions other than .csp or .cls. In this case, the internal web server retrieves the file for inclusion in the CSP page and the `Serve files` flag for the application must be set to `Yes`. To examine and set this flag, navigate to **System Administration** > **Security** > **Applications** > **Web Applications** in the Management Portal.

Therefore, it is recommended that you use .csp or .cls files for inclusion to avoid having to turn this flag on.

CSP:Include Example

The following runs the CSP page, includedpage.csp, to render a section of HTML within a container CSP page:

```
<CSP:INCLUDE PAGE="includedpage.csp?PARAM=ABC">
```

See Also

The server-side include directive: <!--##INCLUDE-->

<CSP:LOOP>

<CSP:LOOP>

Delimits the body of a FOR loop.

```
<CSP:LOOP>...</CSP:LOOP>
```

Attributes

General Attributes

Attribute	Description	Value
COUNTER	*Required.* The name of the counter variable used by this loop.	A valid variable name.
FROM	The starting value of the loop counter.	A numeric value or expression.
STEP	The amount the loop counter is changed by on each iteration.	A numeric value or expression.
TO	The ending value of the loop counter.	A numeric value or expression.

Description

The CSP:LOOP tag repeatedly executes its contents until a counter reaches the specified stop value.

The basic structure of a CSP FOR loop is:

```
<CSP:LOOP attributes>
content
</CSP:LOOP>
```

where *attributes* are the attributes of the CSP:LOOP tag (listed above) and *content* is the content to display during each iteration of the loop.

Counter in a FOR Loop

FOR loop execution is controlled by a server-side counter that is incremented during each iteration of the loop. The local variable used as a counter is specified by the COUNTER attribute:

```
<CSP:LOOP COUNTER="count">
```

where *count* is the name of the counter variable.

You must specify a COUNT attribute for every CSP:LOOP tag.

Initial Value of the Counter

You can specify the initial value of the counter using the FROM attribute:

```
<CSP:LOOP COUNTER="count" FROM="initval">
```

where *count* is the name of the counter variable and *initval* is its initial value.

If you do not specify a FROM attribute then the initial counter value will be 1.

Final Value of the Counter

You can specify the final value of the counter using the TO attribute:

```
<CSP:LOOP COUNTER="count" FROM="initval" TO="finalval">
```

where *count* is the name of the counter variable, *initval* is its initial value, and *finalval* is the last value that initiates a new iteration of the loop.

If you do not specify a TO attribute then the final counter value will be 1.

Counter Increment

You can specify the increment value of the counter using the STEP attribute:

```
<CSP:LOOP COUNTER="count" FROM="initval" TO="finalval" STEP="incr">
```

where *count* is the name of the counter variable, *initval* is its initial value, *finalval* is the last value that initiates a new iteration of the loop, and *incr* is the value added to the counter at the end of each iteration. *incr* does not have to evaluate to an integer; you can step by any number.

If you do not specify a STEP attribute then the increment value will be 1.

Take Value from Server

If you want to take values from the server, you can use:

```
<CSP:LOOP COUNTER="count" FROM="#(initval)#" TO="#(finalval)#" STEP="incr">
```

<CSP:LOOP> Examples

This simple FOR loop displays the value of the counter during each iteration of the FOR loop:

```
<UL>
<CSP:LOOP COUNTER="i" FROM="0" TO="6" STEP="1.5">
  <LI>The value of the counter is #(i)#.
</CSP:LOOP>
</UL>
```

This loop displays exam scores for a student, taking its end value from the server:

```
<TABLE>
<TR><TH>Exam</TH><TH>Score</TH></TR>
<CSP:LOOP COUNTER="i" FROM="1" TO="#(student.ExamScore.Count())#">
  <TR><TD>#(i)#</TD><TD>#(student.ExamScore.GetAt(i))#</TD></TR>
</CSP:LOOP>
</TABLE>
```

Specifying Script Language

The CSP:LOOP tag will fire one of two rules depending on whether the language is set to cache or basic; these two rules are %LOOP and %LOOPBASIC.

<CSP:MATCHLANGUAGE>

<CSP:MATCHLANGUAGE>

Forces setting of language for the current page.

```
<CSP:MATCHLANGUAGE>
```

Description

The `<csp:matchlanguage>` tag forces a single call to %response.MatchLanguage to be added to the PREHTML section. This tag is a way for the programmer to force setting of %response.Language for the current page.

<CSP:NEW>

Generate a Caché ObjectScript NEW Command.

```
<CSP:NEW>
```

Attributes

General Attributes

Attribute	Description	Value
VARS	A comma-delimited list of variables passed to the **New** command.	A string.

Description

The CSP:NEW tag executes a New command for the comma separated list of variables. If the VARS attribute is not specified, then the **New** command is not generated.

<CSP:OBJECT>

<CSP:OBJECT>

Creates an object instance.

```
<CSP:OBJECT>
```

Attributes

General Attributes

Attribute	Description	Value
CLASSNAME	The class name of the object.	A valid class name.
NAME	The name of the local variable used to refer to the object.	A valid local variable name.
OBJID	Object Identifier value used to open the object.	A string.

Description

The CSP:OBJECT tag places a Caché object on a page. Specifically, it ensures that a local variable, whose name is specified by the NAME attribute, contains a reference to an instance of the class specified by the CLASSNAME attribute. If the OBJID attribute has a non-null value, then the object instance is created by calling the **%OpenId** method using the value of the OBJID attribute. The object is closed when the server finishes serving the page.

Typically the CSP:OBJECT tag is used to create an object instance whose properties can be bound to the elements of an HTML form using the CSP BIND mechanism.

For example, the following creates an instance of the Sample.Person class and then binds its Name and SSN properties to HTML input fields:

```
<!-- Open Person Object with ID of 1 -->
<CSP:OBJECT NAME="person" CLASSNAME="Sample.Person" OBJID="1">

<!-- Define an HTML form and bind it to the object -->
<FORM NAME="MyForm" CSPBIND="person">
Name: <INPUT NAME="Name" CSPBIND="Name"><BR>
SSN: <INPUT NAME="SSN" CSPBIND="SSN">
</FORM>
```

Refer to the Building Database Applications chapter in *Using Caché Server Pages (CSP)* for more information.

<CSP:PARAMETER>

Specifies a class parameter value for the generated CSP class.

```
<CSP:PARAMETER>
```

Attributes

General Attributes

Attribute	Description	Value
Name	Specifies the name of the class parameter.	name:STRING
Value	Specifies the value of the class parameter.	value:STRING

Description

Class parameter tag.

<CSP:QUERY>

<CSP:QUERY>

Define and execute a predefined class query

```
<CSP:QUERY>
```

Attributes

General Attributes

Attribute	Description	Value
CLASSNAME	Name of the class containing the query.	A valid class name (including package name).
MODE	Runtime mode of the query.	"LOGICAL", "ODBC", "DISPLAY", or "SYSTEM".
NAME	Name of local variable used to refer to the %ResultSet object created for this query.	A valid variable name.
P1	Value of the first query parameter.	A string.
P2	Value of the second query parameter.	A string.
P3	Value of the third query parameter.	A string.
P4	Value of the fourth query parameter.	A string.
QUERYNAME	Name of the class query.	A valid query name.

Description

The CSP:QUERY tag creates a %ResultSet object based on a query defined within a Caché class. This tag defines a server-side variable, whose name is specified by the tag's name attribute, that refers to a %ResultSet object. The %ResultSet object is automatically executed (by calling its **Execute** method using the parameter values given by the various Pn attributes of the tag) and is ready for use within the page. The %ResultSet object is automatically closed at the end of the generated **OnPage** method.

For example, the following opens a %ResultSet object (named *query*) based on the ByName query within the Sample.Person class and then displays the results of the query in an HTML unordered list (<UL>):

```
<CSP:QUERY NAME="query" CLASSNAME="Sample.Person" QUERYNAME="ByName">
<UL>
<CSP:WHILE CONDITION="query.Next()">
<LI>#(query.Get("Name"))#
</CSP:WHILE>
</UL>
```

<CSP:QUIT>

Quits the containing <CSP:WHILE> or <CSP:LOOP> block.

```
<CSP:QUIT>
```

Attributes

General Attributes

Attribute	Description	Value
none		

Description

The <CSP:QUIT> quits the containing CSP:WHILE or CSP:LOOP block. For example:

```
<CSP:WHILE COUNTER=x CONDITION="(x<10)">
  <CSP:IF CONDITION="(x>3)">
  <CSP:QUIT>
  </CSP:IF>
  Item #(x)#
</CSP:WHILE>
```

Will produce the following result:

```
Item 1
Item 2
Item 3
```

<CSP:SEARCH>

<CSP:SEARCH>

Defines a JavaScript function that invokes the CSP Search Page.

```
<CSP:SEARCH>
```

Attributes

General Attributes

Attribute	Description	Value
CAPTION	A string displayed on the standard Search Page.	String.
CLASSNAME	*Required.* Class name upon which the search is performed. Note that this is a class name and not a table name.	String.
FEATURES	The value of the *features* argument to the JavaScript *window.open* call for the popup search window.	String.
FORM	The name of the form associated with the search. This is used to update a bound form on the page that invoked the Search Page	String.
IDNAME	*Deprecated.* The name of the id field of the object being searched.	String.
MAXROWS	Specifies the maximum number of rows to display in the search results table. The default is 100.	An integer.
NAME	The name of the search function. The default name is `search`.	Valid JavaScript function name.
NODISPLAY	Used with the ORDER attribute, it prevents the query from being run automatically when the search page is displayed, such as ORDER="City" OPTIONS="NODISPLAY"	String.
OBJID	Object Identifier value used to identify an object on the initial page. This is used to update a bound form on the page that invoked the Search Page.	String.
OBJIDATTR	Name of the object identifier attribute of the associated form. Default is `OBJID`.	String.
ONSELECT	An optional JavaScript function, on the page that invoked the Search Page, to execute after an item has been selected within the Search Page.	JavaScript function name.
OPTIONS	A comma-separated list of search window options. These include `popup`, `clearbtn`, `display`, `nodisplay`, `predicates`, `sortbox`, `leaveopen`, and `showcount`.	String.

Attribute	Description	Value
ORDER	A comma-delimited list of fields used to sort the search results in the form of *propname|direction* where *propname* is the name of the property and *direction* is either ASC (ascending) or DESC (descending). If *direction* is not specified then the default from the SELECT or WHERE attribute is used. If ORDER is specified, then the query is run automatically when the search window is displayed. This automatic running can be turned off by specifying `NODISPLAY` in the OPTIONS attribute, such as ORDER="City" OPTIONS="NODISPLAY"	String.
PREDICATES	A comma-delimited list of search predicates (comparison operators) corresponding to and used for each of the fields in the `WHERE` list.	String.
SELECT	A comma-delimited list of fields to display in the search results in the form of *propname|direction*. where *propname* is the name of the property *alias* is an optional alias, and *direction* is the optional default direction, either ASC (ascending) or DESC (descending), to be used in the ORDER attribute if not specified there. If `SELECT` is not specified, the `WHERE` attribute is used as the select list.	String.
SHOWSQL	Show SQL used for search to help with debugging.	`0`, or `1`.
STARTVALUES	A comma-delimited list of fields whose initial value comes from the form.	String.
TARGET	Specifies the page to which the links in the search result window point. The default is the page invoking the search.	String.
WHERE	A comma-delimited list of fields used as search criteria in the form of *propname|direction* where *propname* is the name of the property, *alias* is an optional alias, and *direction* is the optional default direction, either ASC (ascending) or DESC (descending), to be used in the ORDER attribute if not specified there.	String.

Description

The CSP:SEARCH tag defines a client-side JavaScript function that invokes the CSP Search Page. The name of the JavaScript function is specified by the value of the NAME attribute.

The Caché Web Form Wizard places the CSP:SEARCH tag within the pages it generates. This gives users the ability to perform database searches from the generated pages. You can use the attributes of the CSP:SEARCH tag to customize the behavior of the search page within pages generated by the Form Wizard. You can also use it to invoke the CSP Search Page from pages built without the Form Wizard. You are also free to implement your own search page (using CSP) and to invoke it if the CSP Search Page is not appropriate for your application.

CSP Search Page

CSP provides a generic Search Page that is implemented via the %CSP.PageLookup class. The Search Page prompts the user for input values, executes an SQL query, and displays the results within an HTML table. Typically, a user invokes the Search Page from a CSP page containing a form that is bound to an object. When the user chooses an object from the results displayed in the Search Page, the form page is updated to display the object's data.

Within a CSP page, you can use the CSP:SEARCH tag to automatically define a JavaScript function that invokes the CSP Search Page. You can then invoke this function in response to a client-side event, such as a button press.

For example, the following defines a JavaScript function, **my_search**:

```
<CSP:SEARCH NAME="my_search" CLASSNAME="MyApp.Person" WHERE="Name,Home_City">
```

Within the same page, you can invoke this function in response to a client-side event such as a button press:

```
<INPUT TYPE="button" NAME="Search" VALUE="Search" ONCLICK="my_search();">
```

When you click the **Search** button, the CSP Search Page is displayed and allows you to search for instances of MyApp.Person by Name or Home.City as specified by the CLASSNAME and WHERE attributes of the CSP:SEARCH tag.

Specifying the Search Page Query

The CSP Search Page creates and executes an SQL query based on the values of CSP:SEARCH tag attributes.

CLASSNAME

The required CLASSNAME name attribute specifies the name of the class against which the query is executed, that is the FROM clause of the SQL query. Note that this is a *class name* and not the SQL table name—they may be different.

WHERE

The WHERE attribute contains a comma-delimited list of one or more field names (SQL names and not property names—there may be a difference) that are used as search criteria (the fields in the WHERE clause of the SQL query). For each field, the Search Page displays an input field in which you can enter a search value.

If you omit the WHERE attribute, the Search Page uses the Object ID column for a search field. If you omit the SELECT attribute then the WHERE attribute also specifies the SELECT list for the SQL query.

Within the WHERE attribute (as well as the SELECT attribute) you can use certain expressions as field names. These include:

Expression	Example
Alias for Field	WHERE="FName As FirstName"
Field in Embedded Object	WHERE="Home.City"
Field in Referenced Object	WHERE="Company->Name"

Here is an example using the WHERE attribute:

```
<!-- Define a search function -->
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person"
WHERE="Name,SSN,Spouse->Name">

<!-- invoke the search function -->
<FORM>
<INPUT TYPE="button" VALUE="Search" ONCLICK="mySearch();">
</FORM>
```

The conditions used for each field in the WHERE clause are determined by the PREDICATES attribute.

Here is an example using the WHERE attribute with an alias. Let's assume that you have a class with a property called ISCLName and another property called ISCLFName. If you want these properties to appear on the Search page as "Last Name" and "First Name" respectively instead of "ISCLName" and "ISCLFName", specify aliases as follows:

```
<csp:search NAME="my_search" CLASSNAME="Test.NewClass4"
WHERE="ISCLName Last Name, ISCFName First Name">
```

SELECT

You can control the values that are displayed in the search results using the SELECT attribute. This contains a comma-delimited list of one or more SQL field names used as the SELECT list of the search query.

For example:

```
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person"
WHERE="Name" SELECT="Name,SSN,Spouse->Name Spouse,Home.City City">
```

In this case, the Search Page results displays the 4 columns specified by the SELECT attribute:

Name	SSN	Spouse	City

Note that, as with the WHERE attribute, you can use -> (reference) syntax to refer to properties defined in related classes, such as `Spouse->Name`. You can refer to embedded object properties using dot syntax: `Home.City`. You can define an alias (name used as a column header) by placing it after the field name: `Name Alias`.

If you omit the SELECT attribute, the fields specified by the WHERE attribute are used.

PREDICATES

You can use the PREDICATES attribute to control how the Search Page uses fields in the WHERE attribute. This attribute contains a comma-separated list of operator names (see table below) that correspond to the fields listed in the WHERE attribute.

If you omit the PREDICATES attribute, then the Search Page uses `%startswith` for all string properties and = for all other properties. The default operators are used for any items in the WHERE list that do not have corresponding items in the PREDICATES list.

You can use any of the following comparison operators within the PREDICATES attribute:

Operator	Matches
%startswith	All values that start with the user input. This is only useful for strings.
=	All values that are equal to the user input.
<>	All values that are not equal to the user input.
>	All values that are greater than (collate after) to the user input.
<	All values that are less than (collate before) to the user input.
between	All values that are between two values entered by the user. The two values are separated by an ampersand.
contains	All values that contain the user input. This is only useful for strings.
select	All values that are equal to a selection made from a drop down list.

Here is an example using the PREDICATES attribute:

```
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person"
WHERE="Name,SSN,Spouse->Name"
PREDICATES="%startswith,=,contains"
>
```

<CSP:SEARCH>

In this case, the Search Page searches for all instances of Sample.Person whose Name starts with a value, whose SSN is equal to a value, and whose Spouse.Name contains a value.

The `select` operator merits special attention: if present in the list of predicates, the Search Page displays a drop down list containing all possible values of the appropriate field. For example:

```
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Employee"
WHERE="Name,Company->Name Company"
PREDICATES="%startswith,select"
>
```

In this case, the Search Page displays a drop down list containing every possible Company Name. The list is created by issuing the appropriate SQL query at runtime, in this case:

```
SELECT %ID, Name FROM Sample.Company ORDER BY Name
```

The Search Page uses the value selected by the user to perform the main search in the most efficient way that it can. For example, in this case, it most likely searches for all instances of Sample.Employee with a given Company ID value (to avoid a JOIN).

Obviously you should not use the `select` operator for fields with many (possibly thousands) of potential values.

ORDER

You can control the initial ordering of the search results using the ORDER attribute. This contains a comma-delimited list of one or more SQL field names to be used as the ORDER BY clause of the search query.

SHOWSQL

When troubleshooting applications, it is sometimes helpful to view the actual SQL query used by the CSP Search Page. To do this, set the SHOWSQL attribute to 1. This displays the text of the SQL query along with the query results within the Search Page.

Specifying the Features of the Search Page

You can control the appearance and behavior of the CSP Search using attributes of the CSP:SEARCH tag. Some of these as described below.

OPTIONS

The OPTIONS attribute lets you control aspects of CSP Search Page. Its value is a comma-delimited list containing one or more of the following:

Option	Description
clearbtn	If present, the Search Page includes a **Clear** button that resets the contents of the search criteria fields.
display	If present, the Search Page displays a list of results when it is initially displayed.
leaveopen	If present, the Search Page is not be closed when the user makes a selection.
nodisplay	If present with the ORDER attribute, the query is not run automatically when the search window is displayed.
popup	If present, the Search Page is displayed as a popup window. For an example see the popform.csp CSP sample. You can control the size and appearance of the popup window using the FEATURES attribute.
predicates	If present, the Search Page displays a combobox of search predicates (such as `startswith`, `greater than`, and so on) next to each search criteria input box.
showcount	If present, the Search Page displays the number of records found by the query.
sortbox	If present, the Search Page displays a set of radio buttons that allows the user to choose how to sort the results.

For example, here is the definition of a search function that invokes a popup Search Page with a set of radio buttons to specify sorting:

```
<!-- Define a search function -->
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person"
WHERE="Name,SSN" OPTIONS="popup,sortbox">

<!-- invoke the search function -->
<FORM>
<INPUT TYPE="button" VALUE="Search" ONCLICK="mySearch();">
</FORM>
```

CAPTION

The CAPTION attribute lets you change the caption displayed at the top of the Search Page. For example:

```
<!-- Define a search function -->
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person"
WHERE="Name,SSN" CAPTION="This is my Search Page:">

<!-- invoke the search function -->
<FORM>
<INPUT TYPE="button" VALUE="Search" ONCLICK="mySearch();">
</FORM>
```

FEATURES

The FEATURES attribute lets you specify the size and appearance of a popup search window. CSP creates a popup search window by calling the JavaScript function, *window.open*. This function takes an argument, *features*, which controls aspects of the new window. CSP uses the value of the FEATURES attribute for the *features* argument.

The FEATURES attribute contains a list of comma-separated feature values. There should be no spaces or other whitespace. Each element in the list has the format:

```
feature[=value]
```

For a list of available feature names, refer to the **Window.open** method within a JavaScript function reference.

For example, the following defines a popup Search Page with an initial height and width of 350 pixels:

<CSP:SEARCH>

```
<!-- Define a search function -->
<CSP:SEARCH NAME="mySearch" CLASSNAME="Sample.Person" WHERE="Name,SSN"
OPTIONS="popup" FEATURES="height=350,width=350">

<!-- invoke the search function -->
<FORM>
<INPUT TYPE="button" VALUE="Search" ONCLICK="mySearch();">
</FORM>
```

MAXROWS

The MAXROWS attribute lets you specify the maximum number of rows to display in the search results table.

<CSP:SECTION>

Redirect output to the specified section of a document.

```
<CSP:SECTION>...</CSP:SECTION>
```

Attributes

General Attributes

Attribute	Description	Value
BLOCK	Relative position in section. Default is 0. Negative is beginning of section or positive is end of section.	A numeric value.
NAME	Name of section	"prehtml", "head", "body", or "posthtml".

Description

The CSP:SECTION tag lets you control where content should be placed within the document served to the client.

Normally the contents of a CSP file are rendered to the client in the same order in which they originally appear. The CSP:SECTION tag lets you change this behavior. In the following example, the CSP:SECTION tag is used to write content to the HEAD section of the document:

```
<HTML>
<HEAD>
</HEAD>
<BODY>
...
<CSP:SECTION NAME="HEAD">
<!-- This comment will be in the HEAD section -->
</CSP:SECTION>
</BODY>
</HTML>
```

<CSP:SQLQUERY>

Run a dynamic SQL query

```
<CSP:SQLQUERY>...</CSP:SQLQUERY>
```

Attributes

General Attributes

Attribute	Description	Value
DATASOURCE	This specifies the name of an external data source to be used for this query.	A string.
MODE	Runtime mode of the query.	"LOGICAL", "ODBC", "DISPLAY", or "SYSTEM".
NAME	Name of local variable used to refer to the %ResultSet object created for this query.	A string.
P1	Value of the first query parameter.	A string.
P2	Value of the second query parameter.	A string.
P3	Value of the third query parameter.	A string.
P4	Value of the fourth query parameter.	A string.
PASSWORD	Optional password for the external data source.	A string.
USERNAME	Optional username for the external data source.	A string.

Description

The <CSP:SQLQUERY> tag creates a %ResultSet object based on a dynamic query defined by an SQL statement. The query may contain parameters (values substituted at runtime) within its WHERE clause. These parameters are specified using the ? character. The <CSP:SQLQUERY> tag defines a server-side variable, whose name is specified by the tag's name attribute, that refers to a %ResultSet object. The %ResultSet object is automatically prepared and executed (by calling its Execute method using the parameter values given by the various Pn attributes of the tag) and is ready for use within the page.

This tag is identical to the <SCRIPT LANGUAGE=SQL> tag except that it may be used to redirect the query to an external database using the Caché SQL Gateway.

The following example creates an unordered list by running a query:

```
<csp:SQLQUERY NAME='query' P1='A'>
SELECT ID,Name FROM IscPerson WHERE Name %STARTSWITH ? Order By Name
</csp:SQLQUERY>
<ul>
<csp:WHILE CONDITION="query.Next()">
    <li>#(query.Get("Name"))#
</csp:WHILE>
</ul>
```

Specifying an External Database

When the optional DATASOURCE attribute is specified, it redirects the query to an external database using the Caché Relational Gateway.

```
<CSP:SQLQUERY DATASOURCE>...</CSP:SQLQUERY>
```

<CSP:TEXT>

<CSP:TEXT>

Marks localizable text

```
<CSP:TEXT textid="MyText">...</CSP:TEXT>
```

Attributes

CSPText Attributes

Attribute	Description	Value
ARG1	Replaces %1 in the message text.	A string.
ARG2	Replaces %2 in the message text.	A string.
ARG3	Replaces %3 in the message text.	A string.
ARG4	Replaces %4 in the message text.	A string.
DOMAIN	The optional application domain for looking up this text. *%response.Domain* is used if not specified.	A string.
LANGUAGE	The optional RFC 1766 format language name for looking up this text. %response.Language is used if not specified.	A string.
TEXTID	The text string identifier within the domain.	A string.

Description

This tag is used to localize CSP applications. You can place the CSP:TEXT tag around sections of text that you want to replace with text from a localization file.

The CSP:TEXT tag replaces itself and its contents with text identified by TextId in the %MessageDictionary specified by the Language and Domain attributes.

The values of the attributes ARGn, where *n* is an integer, are substituted for occurrences of "%n" in the message text.

For more information, refer to the Localization chapter in the CSP Programming Guide.

<CSP:WHILE>

Delimits the body of a WHILE loop.

```
<CSP:WHILE>...</CSP:WHILE>
```

Attributes

General Attributes

Attribute	Description	Value
CONDITION	A server-side expression evaluated after each iteration. If the expression evaluated to true, then the loop is iterated again.	A server-side expression.
COUNTER	The name of a local variable that is automatically incremented upon each iteration.	A valid variable name.
CURSOR	For use with embedded SQL only. An SQL cursor that gets the row for the next iteration.	A valid SQL cursor name.
INTO	For use with embedded SQL only. Comma-separated INTO list for the SQL FETCH of the next row. Specifies the variables to receive the row's data.	A comma-separated list of variables..

Description

The CSP:WHILE tag repeatedly executes its contents while the server-side expression specified by the CONDITION attribute is true. Upon each iteration, a local variable, specified by the COUNTER attribute, is incremented. The counter variable is initialized to 0 before the loop and is incremented at the beginning of each iteration. If the counter attribute is not specified, no counter will be generated. The CSP:WHILE tag may also be used to loop over a cursor defined for embedded SQL using the SCRIPT LANGUAGE=SQL CURSOR= tag.

The basic structure of a CSP WHILE loop is:

```
<CSP:WHILE attributes>
content
</CSP:WHILE>
```

where *attributes* are the attributes of the CSP:WHILE tag (listed above) and *content* is the content to display during each iteration of the loop.

WHILE Loop Condition

At the end of each iteration of a WHILE loop, a condition is evaluated to determine whether the loop will execute again. If the condition is true, another iteration of the loop is performed, but if the condition evaluates to false the loop is exited. The relevant condition is specified using the CONDITION attribute of the CSP:WHILE tag:

```
<CSP:WHILE CONDITION="cond">
```

where *cond* is the expression to evaluate at the end of each iteration.

You must specify a CONDITION attribute for every CSP:WHILE tag.

<CSP:WHILE>

Counter in a WHILE Loop

A WHILE loop can maintain a counter in a local variable. This counter is incremented by 1 upon each iteration of the loop. The local variable used as a counter is specified by the COUNTER attribute:

```
<CSP:WHILE CONDITION="cond" COUNTER="count">
```

where *count* is the name of the counter. The initial value of the counter is always 0.

If you do not specify a COUNTER attribute, then the WHILE loop will not maintain a counter variable.

Using SQL in a WHILE Loop

You can define a static SQL cursor using the <SCRIPT> tag and then use a WHILE loop to display the results of the query.

For example, the following code defines a static SQL cursor named *query*:

```
<SCRIPT LANGUAGE=SQL CURSOR="query">
SELECT Name,SSN FROM Sample.Person ORDER BY Name
</SCRIPT>
```

You can use a CSP:WHILE tag to iterate over this cursor as follows:

```
<CSP:WHILE CURSOR="query" INTO="name,ssn">
    Name: #(name)#, SSN: #(ssn)# <BR>
</CSP:WHILE>
```

The CURSOR attribute specifies the name of an SQL cursor defined using a <SCRIPT> tag while the INTO attribute specifies a comma-delimited list of local variables into which the column values retrieved by the query are placed in their respective order.

<CSP:WHILE> Example

This simple WHILE loop displays the value of the counter during each iteration of the loop:

```
<UL>
<CSP:WHILE COUNTER="i" CONDITION="i<10">
    <LI>The value of the counter is #(i)#.
</CSP:WHILE>
</UL>
```

Note that the < (less than) operator is represented using the HTML < entity as HTML does not allow <, >, or &, within an attribute value. This entity is interpreted as "<" by the CSP page compiler when it generates code for the WHILE loop.

<SQL:QUERY>

Microsoft SQL tag

```
<SQL:QUERY>...</SQL:QUERY>
```

Attributes

General Attributes

Attribute	Description	Value
XMLNS:SQL	Must be URN:SCHEMAS-MICROSOFT-COM:XML-SQL for CSP support of Microsoft.	A string.

Description

Microsoft SQL tag

HTML Tags

<A>

Anchor Tag

```
<A>...</A>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONBLUR	The element lost the focus	JavaScript code.
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONFOCUS	The element got the focus	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ACCESSKEY	Accessibility key character	
CHARSET	Char encoding of linked resource	A string.
COORDS	For use with client-side image maps	A string.
HREF	URI for linked resource	A URI.
HREFLANG	Language code	A string.
NAME	Named link end	A string.

<A>

Attribute	Description	Value
REL	Forward link types	A string.
REV	Reverse link types	A string.
SHAPE	For use with client-side image maps	A string.
TABINDEX	Position in tabbing order	A numeric value.
TARGET	Render in this frame	A string.
TYPE	Advisory content type	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Anchor Tag

<ADDRESS>

Author information

```
<ADDRESS>...</ADDRESS>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Author information

<APPLET>

<APPLET>

Java applet tag

```
<APPLET>...</APPLET>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"top", "middle", "bottom", "left", or "right".
CODE	Applet class file	A string.
CODEBASE	Base URI for classid, data, archive	A URI.
HEIGHT	Initial height	A numeric value.
HSPACE	Horizontal gutter	A numeric value.
NAME	Name used for applet	A string.
OBJECT	Serialized applet file	A string.
VSPACE	Vertical gutter	A numeric value.
WIDTH	Initial width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ALT	Short description	A string.
ARCHIVE	Space-separated list of URIs	A string.

Description

Java applet tag

<AREA>

<AREA>

Client-side image map area

```
<AREA>...</AREA>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONBLUR	The element lost the focus	JavaScript code.
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONFOCUS	The element got the focus	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ACCESSKEY	Accessibility key character	
ALT	Short description	A string.
COORDS	For use with client-side image maps	A string.
HREF	URI for linked resource	A URI.
NAME	Name of map	A string.
NOHREF	This region has no action	No value: enabled if attribute is present.
SHAPE	For use with client-side image maps	A string.
TABINDEX	Position in tabbing order	A numeric value.
TARGET	Render in this frame	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Client-side image map area

<B>

<B>

Boldface Tag

```
<B>...</B>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Boldface Tag

<BASEFONT>

base font size

```
<BASEFONT>
```

Attributes

General Attributes

Attribute	Description	Value
COLOR	Text color	An HTML color value.
FACE	Comma-separated list of font names	A string.
ID	Id	A string.
SIZE	Base font size	A string.

Description

base font size

<BDO>

<BDO>

Overrides bidirectional algorithms for content display

```
<BDO>...</BDO>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
DIR	Text direction	"rtl", or "ltr".
LANG	Language	A string.

Description

Overrides bidirectional algorithms for content display

<BLOCKQUOTE>

long quotation

```
<BLOCKQUOTE>...</BLOCKQUOTE>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CITE	URI for source document or message	A URI.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<BLOCKQUOTE>

Description

long quotation

<BODY>

Body Tag

```
<BODY>...</BODY>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONLOAD	The document has been loaded	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.
ONUNLOAD	The document has been removed	JavaScript code.

General Attributes

Attribute	Description	Value
ALINK	Color of selected links	An HTML color value.
BACKGROUND	Texture tile for document background	A URI.
BGCOLOR	Document background color	An HTML color value.
LINK	Color of links	An HTML color value.
TEXT	Document text color	An HTML color value.
VLINK	Color of visited links	An HTML color value.

<BODY>

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Body Tag

\

Forced line break

```
<BR>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CLEAR	Control of text flow	"left", "all", "right", or "none".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Forced line break

<BUTTON>

BUTTON Tag

```
<BUTTON>...</BUTTON>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	String.
ID	Unique identifier.	String.
STYLE	Associated style info.	String.
TITLE	Advisory title.	String.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.
ONFOCUS	Script to be run when the element gets focus.	JavaScript code.
ONBLUR	Script to be run when the element loses focus.	JavaScript code.

<BUTTON>

General Attributes

Attribute	Description	Value
DISABLED	Disables the button. The button won't work when clicked and it cannot receive focus and will be skipped when tabbing.	No value: enabled if attribute is present.
NAME	Name of the button.	String.
TYPE	What kind of button is needed	"SUBMIT", "BUTTON", "RESET", .
VALUE	Assigns an initial value to the button.	String.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	`ltf` or `rtl`.
LANG	Language code.	String.

Description

Button tag

<CAPTION>

Table Caption Tag

```
<CAPTION>...</CAPTION>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment of row relative to table	"left", "center", or "right".
VALIGN	Vertical alignment of row relative to table	"top", "center", "bottom", or "baseline".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<CAPTION>

Description

Table Caption Tag

<CENTER>

Centered block

```
<CENTER>...</CENTER>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Centered block

<DEL>

<DEL>

deleted text

```
<DEL>...</DEL>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CITE	Reason for change	A URI.
DATETIME	Date and time of the change	

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

deleted text

<DIV>

<DIV>

DIV Tag

```
<DIV>...</DIV>
```

Attributes

CSPText Attributes

Attribute	Description	Value
ARG1	Replaces %1 in the message text.	A string.
ARG2	Replaces %2 in the message text.	A string.
ARG3	Replaces %3 in the message text.	A string.
ARG4	Replaces %4 in the message text.	A string.
DOMAIN	The optional application domain for looking up this text. %response.Domain is used if not specified.	A string.
LANGUAGE	The optional RFC 1766 format language name for looking up this text. %response.Language is used if not specified.	A string.
TEXTID	The text string identifier within the domain.	A string.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Text alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

DIV Tag

<EM>

<EM>

Emphasis Tag

```
<EM>...</EM>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Emphasis Tag

<FONT>

Local change to font

```
<FONT>...</FONT>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
COLOR	Text color	An HTML color value.
FACE	Comma-separated list of font names	A string.
SIZE	Font size	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Local change to font

<FORM>

FORM Tag

```
<FORM>...</FORM>
```

Attributes

CSPBind Attributes

Attribute	Description	Value
CSPBIND	The name of a CSP:OBJECT tag to which this form is bound.	A string.
CSPEVENT	The type of call to be used for HyperEvents: server (default) or call.	"server", or "call".
CSPJS	Specifies which Javascript code is to be generated. Possibilities are All (default, new and save buttons and validation code), Validate (validation code only), None (No Javascript).	"All", "Validate", or "None".

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

<FORM>

Attribute	Description	Value
ONRESET	The form was reset	JavaScript code.
ONSUBMIT	The form was submitted	JavaScript code.

General Attributes

Attribute	Description	Value
ACCEPT	List of MIME types for file upload	A string.
ACCEPT-CHARSET	List of supported charsets	A string.
ACTION	Server-side form handler	A URI.
ENCTYPE	Data encoding scheme	"application/x-www-form-urlencoded", or "multipart/form-d".
METHOD	HTTP method used to submit the form	"GET", or "POST".
NAME	Name of form for scripting	A string.
TARGET	Render in this frame	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

An HTML FORM tag that may contain a CSPBIND attribute to represent a data-bound form. This tag with CSPBIND will automatically generate save, search, and validation functionality for the form.

<FRAME>

Frame Tag

```
<FRAME>...</FRAME>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
FRAMEBORDER	Request frame borders	A numeric value.
LONGDESC	Link to long description	A URI.
MARGINHEIGHT	Margin height in pixels	A numeric value.
MARGINWIDTH	Margin width in pixels	A numeric value.
NAME	Name of frame for targeting	A string.
NORESIZE	Allow users to resize frames?	No value: enabled if attribute is present.
SCROLLING	Scrollbar or no	"yes", "no", or "auto".
SRC	Source of frame content	A URI.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Frame Tag

<FRAMESET>

Frame set Tag

```
<FRAMESET>...</FRAMESET>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONLOAD	All the frames have been loaded	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.
ONUNLOAD	All the frames have been removed	JavaScript code.

General Attributes

Attribute	Description	Value
COLS	List of sizes	A string.
ROWS	List of sizes	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Frame set Tag

<H1>

Heading 1

```
<H1>...</H1>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<H1>

Description

Heading 1

\<H2\>

Heading 2

```
<H2>...</H2>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Heading 2

<H3>

Heading 3

```
<H3>...</H3>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Heading 3

<H4>

Heading 4

```
<H4>...</H4>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Heading 4

\<H5\>

Heading 5

```
<H5>...</H5>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<H5>

Description

Heading 5

<H6>

Heading 6

```
<H6>...</H6>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<H6>

Description

Heading 6

<HEAD>

Defines an HTML document header.

```
<HEAD>...</HEAD>
```

Attributes

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Defines an HTML document header.

<HR>

<HR>

Horizontal line

```
<HR>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "right", or "center".
NOSHADE	No shading	No value: enabled if attribute is present.
SIZE	Size	A numeric value.
WIDTH	Override width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Horizontal line

<HTML>

<HTML>

Defines a complete HTML document.

```
<HTML>...</HTML>
```

Attributes

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Defines a complete HTML document.

<I>

Italics Tag

```
<I>...</I>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Italics Tag

<IFRAME>

<IFRAME>

Inline Frame Tag

```
<IFRAME>...</IFRAME>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment of frame	"top", "middle", or "bottom".
FRAMEBORDER	Request frame borders	A numeric value.
HEIGHT	Frame height	A numeric value.
LONGDESC	Link to long description	A URI.
MARGINHEIGHT	Margin height in pixels	A numeric value.
MARGINWIDTH	Margin width in pixels	A numeric value.
NAME	Name of frame for targeting	A string.
SCROLLING	Scrollbar or no	"yes", "no", or "auto".
SRC	Source of frame content	A URI.
WIDTH	Frame width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Inline Frame Tag

<ILAYER>

<ILAYER>

Handles URL rewriting for the <ILAYER SRC> tag for Netscape compatibility

```
<ILAYER>...</ILAYER>
```

Attributes

General Attributes

Attribute	Description	Value
SRC	URL for HTML page.	A string.

Description

This rule handles URL rewriting for the <ILAYER SRC> tag for Netscape compatibility.

<IMG>

image tag

```
<IMG>
```

Attributes

CSPBind Attributes

Attribute	Description	Value
CSPBIND	The name of the object property to be bound.	A string.
CSPCAPTION	Name to use for property in error messages.	A string.
CSPNOTRIM	If present, do not blank trim object values.	No value: enabled if attribute is present.
CSPREQUIRED	If present, indicates that a value must be supplied.	No value: enabled if attribute is present.
CSPVALID	Client-side JavaScript code to run to validate the element's contents.	A string.
DELIMITER	Delimiter to use between elements of a list.	A string.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"top", "middle", "bottom", "left", or "right".
BORDER	Link border width	A numeric value.
HEIGHT	Override height	A numeric value.
HSPACE	Horizontal gutter	A numeric value.
ISMAP	Use server-side image map	No value: enabled if attribute is present.
LONGDESC	Link to long description	A URI.
NAME	Name of image	A string.
SRC	For fields with images	A URI.
USEMAP	Use client-side image map	A URI.
VSPACE	Vertical gutter	A numeric value.
WIDTH	Override width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ALT	Short description	A string.

Description

image tag

<IMAGE>

<IMAGE>

Handles URL rewriting for the <IMAGE SRC> tag.

```
<IMAGE>...</IMAGE>
```

Attributes

General Attributes

Attribute	Description	Value
SRC	URL for HTML file.	A string.

Description

This rule handles URL rewriting for the <IMAGE SRC> tag.

<INPUT>

INPUT Tag

```
<INPUT>
```

Attributes

CSPBind Attributes

Attribute	Description	Value
CSPBIND	The name of the object property to be bound.	String.
CSPCAPTION	Name to use for property in error messages.	String.
CSPNOTRIM	If present, do not blank trim object values.	No value: enabled if attribute is present.
CSPREQUIRED	If present, indicates that a value must be supplied.	No value: enabled if attribute is present.
CSPVALID	Client-side JavaScript code to run to validate the element's contents.	String.
DELIMITER	Delimiter to use between elements of a list.	String.

CSPText Attributes

Attribute	Description	Value
ARG1	Replaces %1 in the message text.	String.
ARG2	Replaces %2 in the message text.	String.
ARG3	Replaces %3 in the message text.	String.
ARG4	Replaces %4 in the message text.	String.
DOMAIN	The optional application domain for looking up this text. %response.Domain is used if not specified.	String.
LANGUAGE	The optional RFC 1766 format language name for looking up this text. %response.Language is used if not specified.	String.
TEXTID	The text string identifier within the domain.	String.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	String.
ID	Unique identifier.	String.
STYLE	Associated style info.	String.
TITLE	Advisory title.	String.

Event Attributes

Attribute	Description	Value
ONBLUR	The element lost the focus	JavaScript code.
ONCHANGE	The element value was changed	JavaScript code.
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONFOCUS	The element got the focus	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.
ONSELECT	Some text was selected	JavaScript code.

General Attributes

Attribute	Description	Value
CHECKED	For radio buttons and check boxes	No value: enabled if attribute is present.
DISABLED	Unavailable in this context	No value: enabled if attribute is present.
MAXLENGTH	Max chars for text fields	Numeric value.
NAME	Submit as part of form	String.
READONLY	For text and passwd	No value: enabled if attribute is present.
SIZE	Specific to each type of field	Numeric value.
SRC	For fields with images	URI.
TYPE	What kind of widget is needed	"TEXT", "PASSWORD", "CHECKBOX", "RADIO", "SUBMIT", "BUTTON", "RESET", "FILE", or "HID".
VALUE	Specify for radio buttons and check boxes	String.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	String.

Other Attributes

Attribute	Description	Value
ACCEPT	List of MIME types for file upload	String.
ACCESSKEY	Accessibility key character	String.
ALIGN	Vertical or horizontal alignment	"top", "middle", "bottom", "left", or "right".
ALT	Short description	String.
ISMAP	Use server-side image map	No value: enabled if attribute is present.
TABINDEX	Position in tabbing order	Numeric value.
USEMAP	Use client-side image map	A URI.

Description

INPUT Tag

<INS>

<INS>

inserted text

```
<INS>...</INS>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CITE	Reason for change	A URI.
DATETIME	Date and time of the change	

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

inserted text

<LAYER>

<LAYER>

Handles URL rewriting for the <LAYER SRC> tag for Netscape compatibility.

```
<LAYER>...</LAYER>
```

Attributes

General Attributes

Attribute	Description	Value
SRC	URL for HTML file.	A String.

Description

This rule handles URL rewriting for the <LAYER SRC> tag for Netscape compatibility.

<LINK>

media-independent link

```
<LINK>...</LINK>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

<LINK>

General Attributes

Attribute	Description	Value
CHARSET	Char encoding of linked resource	A string.
HREF	URI for linked resource	A URI.
HREFLANG	Language code for linked resource	A string.
MEDIA	For rendering on these media	A string.
REL	Forward link types	A string.
REV	Reverse link types	A string.
TARGET	Render in this frame	A string.
TYPE	Advisory content type	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

media-independent link

<MAP>

Client-side image map

```
<MAP>...</MAP>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
NAME	Name of map	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

<MAP>

Description

Client-side image map

<META>

Supply additional information about a document.

```
<META>
```

Attributes

General Attributes

Attribute	Description	Value
CONTENT	The value of the meta data for http-equiv or name.	A string.
HTTP-EQUIV	Type of information supplied	"content-type", "expires", "refresh", or "set-cookie".
NAME	Name of the meta data being defined.	A string.
SCHEME	The format of the meta data for name.	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Supplies information that a HTTP-server can use to generate extra HTTP headers, from the HTML data. CSP supports http-equiv=content-type and http-equiv-expires.

<NOBR>

<NOBR>

Define a non-breaking region

```
<NOBR>
```

Description

Define a non-breaking region

<NOFRAMES>

No frames Tag

```
<NOFRAMES>...</NOFRAMES>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

No frames Tag

<OBJECT>

<OBJECT>

object tag

```
<OBJECT>...</OBJECT>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"top", "middle", "bottom", "left", or "right".
BORDER	Link border width	A numeric value.
CLASSID	Identifies an implementation	A URI.
CODEBASE	Base URI for classid, data, archive	A URI.
DATA	Reference to object's data	A URI.
DECLARE	Declare but don't instantiate flag	No value: enabled if attribute is present.

Attribute	Description	Value
HEIGHT	Override height	A numeric value.
HSPACE	Horizontal gutter	A numeric value.
NAME	Name for submit	A string.
USEMAP	Use client-side image map	A URI.
VSPACE	Vertical gutter	A numeric value.
WIDTH	Override width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ARCHIVE	Space-separated list of URIs	A string.
CODETYPE	Content type for code	A string.
STANDBY	Text to show while loading	A string.
TABINDEX	Position in tabbing order	A numeric value.
TYPE	Content type for data	A string.

Description

object tag

<OL>

<OL>

Ordered List Tag

```
<OL>...</OL>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
START	Starting value for list	A numeric value.
TYPE	Numbering style for list	" ".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Ordered List Tag

<OPTGROUP>

OPTGROUP Tag

```
<OPTGROUP>...</OPTGROUP>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
DISABLED	Unavailable in this context	No value: enabled if attribute is present.
LABEL	Group label	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

OPTGROUP Tag

<OPTION>

<OPTION>

OPTION Tag

```
<OPTION>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CHECKED	For radio buttons and check boxes	No value: enabled if attribute is present.
LABEL	Group label	A string.
SELECTED	Selected item	No value: enabled if attribute is present.
VALUE	Value	A string.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

OPTION Tag

Variations

MultichoiceOption

<P>

<P>

Paragraph

```
<P>...</P>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment	"left", "center", "right", or "justify".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Paragraph

<PARAM>

<PARAM>

named property value

```
<PARAM>...</PARAM>
```

Attributes

General Attributes

Attribute	Description	Value
ID	Id	A string.
NAME	Property name	A string.
TYPE	Content type for value when valuetype=ref	A string.
VALUE	Property value	A string.
VALUETYPE	How to interpret value	"DATA", "REF", or "OBJECT".

Description

named property value

<PRE>

Define a region with no formatting

```
<PRE>...</PRE>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Define a region with no formatting

<Q>

<Q>

inline quotes

```
<Q>...</Q>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
CITE	URI for source document or message	A URI.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

inline quotes

<SCRIPT>

<SCRIPT>

Server and client script tag

```
<SCRIPT>...</SCRIPT>
```

Attributes

General Attributes

Attribute	Description	Value
LANGUAGE	Script language	"cache", "sql", "esql", or "basic".

Caché or Basic Attributes

Attribute	Description	Value
RUNAT	When to run Caché inline script.	"server" or "compiler".
METHOD	Name of Caché method being defined.	String.
PROCEDUREBLOCK	If METHOD is specified, indicates whether this method can use ObjectScript procedureblocks. (Ignored for a Basic script.)	1 – if script can use procedureblocks. 0 — if script cannot use procedureblocks. Default.
ARGUMENTS	If METHOD is specified, the argument list for the method.	Comma-separated list of arguments in the form *P1=value, P2=value,.... Pn=value*
RETURNTYPE	If METHOD is specified, the data type of the value returned by the method.	String.

SQL Attributes

Attribute	Description	Value
MODE	Runtime mode of the query.	"LOGICAL", "ODBC", "DISPLAY", or "SYSTEM".
NAME	For dynamic SQL, the name of local variable to hold reference to %ResultSet object.	String.
P1 ... Pn	For dynamic SQL, value query parameters.	Comma-separated strings in the form *P1, P2, ... Pn*.

Description

The SCRIPT tag is used to define server-side Caché scripts, server-side SQL scripts, or client side JavaScript scripts. The *runat* or *method* attribute is used with Caché. The *name* or *cursor* attributes are used with SQL. No attributes are used with ESQL. The remaining attributes are used with Javascript.

Note: Note that only Javascript scripts run on the client. Caché scripts and SQL scripts run on the server.

Using Embedded SQL

The <SCRIPT LANGUAGE=ESQL> tag inserts the contents of the tag as embedded SQL in the class generated by the CSP page.

```
<SCRIPT LANGUAGE=ESQL>...</SCRIPT>
```

Specifying an SQL Query

The <SCRIPT LANGUAGE=SQL> tag creates a %ResultSet object based on an SQL query defined within the inner text of this tag. The query may contain parameters (values substituted at runtime) within its WHERE clause. These parameters are specified using the ? character. This tag defines a server-side variable, whose name is specified by the tag's NAME attribute, that refers to a %ResultSet object. The %ResultSet object is automatically prepared and executed (by calling its **Execute** method using the parameter values given by the *Pn* attributes of the tag) and is ready for use within the page. The following example creates an unordered list by running a query:

```
<SCRIPT LANGUAGE='SQL' NAME='query' P1='A'>
SELECT ID,Name FROM IscPerson
WHERE Name %STARTSWITH ? Order By Name
</SCRIPT>

<ul>
<csp:WHILE>
    <li>#(query.Get("Name"))#
</csp:WHILE>
</ul>
```

<SELECT>

<SELECT>

SELECT Tag

```
<SELECT>...</SELECT>
```

Attributes

CSPBind Attributes

Attribute	Description	Value
CLASSNAME	The class from which values will be obtained to fill a select list.	String.
CSPBIND	The name of the object property to be bound.	String.
CSPCAPTION	Name to use for property in error messages.	String.
CSPNOTRIM	If present, do not blank trim object values.	No value: enabled if attribute is present.
CSPREQUIRED	If present, indicates that a value must be supplied.	No value: enabled if attribute is present.
CSPVALID	Client-side JavaScript code to run to validate the element's contents.	String.
DELIMITER	Delimiter to use between elements of a list.	String.
FIELD	The property of the class specified by classname whose values will appear in the select list.	String.
MODE	Used with CSPBIND and QUERY. Specifies the runtime output mode of the query. Valid values are: DISPLAY, ODBC, LOGICAL and SYSTEM.	String.
QUERY	The query to be run to fill a select list. Must be present if field or classname is present.	String.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	String.
ID	Unique identifier.	String.
STYLE	Associated style info.	String.
TITLE	Advisory title.	String.

Event Attributes

Attribute	Description	Value
ONBLUR	The element lost the focus	JavaScript code.
ONCHANGE	The element value was changed	JavaScript code.
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONFOCUS	The element got the focus	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
DISABLED	Unavailable in this context	No value: enabled if attribute is present.
MULTIPLE	Allow multiple choices	No value: enabled if attribute is present.
NAME	Submit as part of form	String.
SIZE	Number of visible rows	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	String.

Other Attributes

Attribute	Description	Value
TABINDEX	Position in tabbing order	A numeric value.
DEFAULTTEXT	Text to use as default generated for a property that is not required.	Text string.

Description

The QUERY attribute associated with a <SELECT CSPBIND> tag creates a %ResultSet object based on the specified query that is defined within a Caché class from the CLASSNAME attribute. The %ResultSet object is automatically executed

<SELECT>

(by calling its Execute method using the parameter values given by the various Pn attributes of the tag) and is used to populate the option list from the property given by the FIELD attribute. The first column of the QUERY attribute is used to generate the value attributes for the <OPTION> tags. Make sure ID is the first column if that is how the object is linked.

Example:

```
<select name='DefaultPeerReviewer' cspbind='DefaultPeerReviewer' classname='CCR.Usr' query='UsersByOrg'
 field='Name' P1="#(activeOrgID)#"></select>
```

The FIELD attribute can specify 2 fields. Example:

```
<select name="Spouse" cspbind="Spouse" classname="Sample.Person" query="ByName" field="ID,Name"
separator=" -- "></select>
```

<SPAN>

SPAN Tag

```
<SPAN>...</SPAN>
```

Attributes

CSPText Attributes

Attribute	Description	Value
ARG1	Replaces %1 in the message text.	A string.
ARG2	Replaces %2 in the message text.	A string.
ARG3	Replaces %3 in the message text.	A string.
ARG4	Replaces %4 in the message text.	A string.
DOMAIN	The optional application domain for looking up this text. %response.Domain is used if not specified.	A string.
LANGUAGE	The optional RFC 1766 format language name for looking up this text. %response.Language is used if not specified.	A string.
TEXTID	The text string identifier within the domain.	A string.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

<SPAN>

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

SPAN Tag

<STRONG>

Strong Tag

```
<STRONG>...</STRONG>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Strong Tag

<STYLE>

<STYLE>

Handles URL rewriting for the STYLE SRC tag.

```
<STYLE>...</STYLE>
```

Attributes

General Attributes

Attribute	Description	Value
SRC	URL for HTML file.	A string.

Description

This rule handles URL rewriting for the STYLE SRC tag.

<SUB>

Subscript Tag

```
<SUB>...</SUB>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Subscript Tag

<SUP>

<SUP>

Superscript Tag

```
<SUP>...</SUP>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Superscript Tag

<TABLE>

Table Tag

```
<TABLE>...</TABLE>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

<TABLE>

General Attributes

Attribute	Description	Value
ALIGN	Table position relative to window	"left", "center", or "right".
BGCOLOR	Background color for cells	An HTML color value.
BORDER	Controls frame width around table	A numeric value.
CELLPADDING	Spacing within cells	A numeric value.
CELLSPACING	Spacing between cells	A numeric value.
FRAME	Which parts of frame to render	A string.
RULES	Rulings between rows and cols	A string.
SUMMARY	Purpose/structure for speech output	A string.
WIDTH	Table width	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Table Tag

<TD>

TD Tag

```
<TD>...</TD>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

<TD>

General Attributes

Attribute	Description	Value
ALIGN	Alignment of row relative to table	"left", "center", or "right".
BGCOLOR	Background color for cells	An HTML color value.
COLSPAN	Number of columns spanned by cell	A numeric value.
HEIGHT	Height of cell	A numeric value.
NOWRAP	Suppress word wrap	No value: enabled if attribute is present.
ROWSPAN	Number of rows spanned by cell	A numeric value.
VALIGN	Vertical alignment of row relative to table	"top", "center", "bottom", or "baseline".
WIDTH	Width of cell	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ABBR	Abbreviation for header cell	A string.
AXIS	Comma-separated list of related headers	A string.
CHAR	Alignment character	A string.
CHAROFF	Offset for alignment char	A numeric value.
HEADERS	List of id's for header cells	A string.
SCOPE	Scope covered by header cells	A string.

Description

TD Tag

\<TEXTAREA\>

TEXTAREA Tag

```
<TEXTAREA>...</TEXTAREA>
```

Attributes

CSPBind Attributes

Attribute	Description	Value
CSPBIND	The name of the object property to be bound.	A string.
CSPCAPTION	Name to use for property in error messages.	A string.
CSPNOTRIM	If present, do not blank trim object values.	No value: enabled if attribute is present.
CSPREQUIRED	If present, indicates that a value must be supplied.	No value: enabled if attribute is present.
CSPVALID	Client-side JavaScript code to run to validate the element's contents.	A string.
DELIMITER	Delimiter to use between elements of a list.	A string.

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONBLUR	The element lost the focus	JavaScript code.
ONCHANGE	The element value was changed	JavaScript code.
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONFOCUS	The element got the focus	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.

<TEXTAREA>

Attribute	Description	Value
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.
ONSELECT	Some text was selected	JavaScript code.

General Attributes

Attribute	Description	Value
COLS	Number of columns	A numeric value.
DISABLED	Unavailable in this context	No value: enabled if attribute is present.
NAME	Submit as part of form	A string.
READONLY	For text and passwd	No value: enabled if attribute is present.
ROWS	Number of rows	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ACCESSKEY	Accessibility key character	A string.
TABINDEX	Position in tabbing order	A numeric value.

Description

TEXTAREA Tag

<TH>

TH Tag

```
<TH>...</TH>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment of row relative to table	"left", "center", or "right".
BGCOLOR	Background color for cells	An HTML color value.
COLSPAN	Number of columns spanned by cell	A numeric value.
HEIGHT	Height of cell	A numeric value.
NOWRAP	Suppress word wrap	No value: enabled if attribute is present.
ROWSPAN	Number of rows spanned by cell	A numeric value.
VALIGN	Vertical alignment of row relative to table	"top", "center", "bottom", or "baseline".
WIDTH	Width of cell	A numeric value.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
ABBR	Abbreviation for header cell	A string.
AXIS	Comma-separated list of related headers	A string.
CHAR	Alignment character	A string.
CHAROFF	Offset for alignment char	A numeric value.
HEADERS	List of id's for header cells	A string.
SCOPE	Scope covered by header cells	A string.

Description

TH Tag

\<TITLE\>

Defines an HTML document title.

```
<TITLE>...</TITLE>
```

Attributes

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Defines an HTML document title.

<TR>

<TR>

TR Tag

```
<TR>...</TR>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

General Attributes

Attribute	Description	Value
ALIGN	Alignment of row relative to table	"left", "center", or "right".
BGCOLOR	Background color for cells	An HTML color value.
VALIGN	Vertical alignment of row relative to table	"top", "center", "bottom", or "baseline".

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Other Attributes

Attribute	Description	Value
CHAR	Alignment character	A string.
CHAROFF	Offset for alignment char	A numeric value.

Description

TR Tag

<UL>

<UL>

Unordered List Tag

```
<UL>...</UL>
```

Attributes

Core Attributes

Attribute	Description	Value
CLASS	Space-separated list of classes.	A string.
ID	Unique identifier.	A string.
STYLE	Associated style info.	A string.
TITLE	Advisory title.	A string.

Event Attributes

Attribute	Description	Value
ONCLICK	A pointer button was clicked.	JavaScript code.
ONDBLCLICK	A pointer button was double clicked.	JavaScript code.
ONKEYDOWN	A key was pressed down.	JavaScript code.
ONKEYPRESS	A key was pressed and released.	JavaScript code.
ONKEYUP	A key was released.	JavaScript code.
ONMOUSEDOWN	A pointer button was pressed down.	JavaScript code.
ONMOUSEMOVE	A pointer was moved within.	JavaScript code.
ONMOUSEOUT	A pointer was moved away.	JavaScript code.
ONMOUSEOVER	A pointer was moved onto.	JavaScript code.
ONMOUSEUP	A pointer button was released.	JavaScript code.

Lang Attributes

Attribute	Description	Value
DIR	Direction for weak/neutral text.	"ltr", or "rtl".
LANG	Language code.	A string.

Description

Unordered List Tag

Studio Template Tags

<CSP:StudioGenerateTemplate>

Studio template final page

```
<CSP:StudioGenerateTemplate>
```

Description

If you are creating a text or new document template within Studio, insert this tag at the top of the final page of the template (the page that generates the actual template text to be inserted within Studio).

This tag ensures that the page will output the correct tags for the Studio to know this is the final template page and that its output should be inserted at the current cursor position.

For example, the final page of the HTML Color Template (see /cachesys/dev/studio/HTMLColor2.csp), looks like this:

```
<csp:StudioGenerateTemplate>#($G(%request.Data("COLOR",1),"#FFFFFF"))#
```

The <csp:StudioGenerateTemplate> tag indicate that this is the final page of the template; the text following the tag is inserted at the cursor point (in this case, an expression is evaluated to generate the text).

For more information refer to the Studio Templates documentation.

<CSP:StudioInteractiveTemplate>

<CSP:StudioInteractiveTemplate>

Studio interactive template

```
<CSP:StudioInteractiveTemplate name="name">
```

Attributes

General Attributes

Attribute	Description	Value
DESCRIPTION	Descriptions of this Studio template type.	A string.
NAME	Name of the template to show in Studio. This name should be unique.	A string.
MODE	Specifies the operating mode of this template. If not specified, then this is a text template; If its value is "new", then this template is for new documents; If its value is "addin", then this template is an add-in template.	"template" (the default), "new", or "addin".
TYPE	A comma-separated list of one or more types. This specifies the type of code this template generates. For text templates, this determines the type of document window that can invoke the template; For new document templates, this indicates the type of document created. *TYPE* is ignored by add-in templates.	"CSP", "CSR", "MAC", "INT", "INC", "BAS", or "CLS".

Description

This tag is used to define an interactive template within Studio.

If you wish to create an interactive template within Studio, create a CSP document and place this tag at the top of the document with the appropriate attributes set.

For more information refer to the Studio Templates documentation.

<CSP:StudioSimpleTemplate>

Simple Studio template

```
<CSP:StudioSimpleTemplate name="name">
```

Attributes

General Attributes

Attribute	Description	Value
DESCRIPTION	Descriptions of this Studio template type.	A string.
NAME	Name of the template to show in Studio.	A string.
MODE	Specifies the operating mode of this template. If not specified, then this is a text template; If its value is "new", then this template is for new documents; If its value is "addin", then this template is an add-in template.	"template" (the default), "new", or "addin".
TYPE	A comma-separated list of one or more types. This specifies the type of code this template generates. For text templates, this determines the type of document window that can invoke the template; For new document templates, this indicates the type of document created. *TYPE* is ignored by add-in templates.	"CSP", "CSR", "MAC", "INT", "INC", "BAS", or "CLS".

Description

This tag is used to define a simple template within Studio. A simple template presents no user interface within Studio.

If you wish to create a simple template within Studio, create a CSP document and place this tag at the top of the document with the appropriate attributes set.

For more information refer to the Studio Templates documentation.