

FOX Schema Attribute Reference

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-

FOX:Schema:action

fox:action

Description

fox:action=*Literal String*

FOX:Schema:actionClass

fox:actionClass

Description

```
fox:actionClass=Literal String
```

Assigns one or more CSS classes to an action's widget

Note: Some widget types (e.g. button) will overwrite the class attribute, so setting an actionClass on elements with these widgets has no effect.

Values

A space-separated string of CSS classes

FOX:Schema:actionSpell

fox:actionSpell

Description

```
fox:actionSpell="XPath Boolean"
```

Specifies whether an action/phantom requires a spell check before being run.

Values

Default: false

FOX:Schema:actionSpellOk

fox:actionSpellOk

Description

```
fox:actionSpellOk="XPath String"
```

The message to display after a successful spell check. For use on phantoms or actions.

Values

Default: "Spell Checking Complete."

FOX:Schema:actionStyle

fox:actionStyle

Description

```
fox:actionStyle="Literal String"
```

Defines the style applied to an action's widget.

Values

A semi-colon (;) separated string of CSS property declarations in the form "name: value" (this is the same syntax as HTML inline styles ^[1]).

References

[1] <http://www.w3.org/TR/REC-html40/present/styles.html#h-14.2.2>

FOX:Schema:case

fox:case

Description

```
fox:case="Literal String"
```

Values

- upper
- lower
- initCap

FOX:Schema:change-action

fox:change-action

Description

```
fox:change-action="Literal String"
```

Specifies an action that will run during a page-churn if FOX detects that the value has changed. change-actions are executed before any other actions, as the posted form values are reconciled with the most recent copy of the data DOMs.

The `:{item}` and `:{itemrec}` contexts can be used within XPaths in a change-action action. They refer to the edited node and its parent element respectively.

Values

Action name.

FOX:Schema:clean

fox:clean

Description

```
fox:clean="Literal String"
```

Values

- trim
- no-trim

FOX:Schema:clear

fox:clear

Description

fox:clear=*Literal String*

FOX:Schema:col

fox:col

Description

```
fox:col="Literal String"
```

Values

Column name.

FOX:Schema:compare-id

fox:compare-id

Description

fox:compare-id=*XPath String*

FOX:Schema:confirm

fox:confirm

Description

```
fox:confirm="XPath String"
```

Shows an OK/Cancel dialog to the user before an action is run. If the user clicks Cancel or closes the dialog, the action does not run.

Values

Message shown in dialog box.

FOX:Schema:contextParams

fox:contextParams

Description

Only applicable for widget links schema elements, this will open up a new window with additional parameters.

```
fox:contextParams="'Literal String'"
```

Values

- true
- false

Default: "false"

FOX:Schema:displayOrder

fox:displayOrder

Description

fox:displayOrder=*Integer*

FOX:Schema:edit

fox:edit

Description

fox:edit=*XPath Boolean*

FOX:Schema:email

fox:email

Description

fox:email=*Literal String*

FOX:Schema:emptyText

fox:emptyText

Description

```
fox:emptyText="Literal String"
```

Used in place of fox:prompt when it is an xpath that returns null or a blank string.

FOX:Schema:error-url

fox:error-url

Description

```
fox:error-url="Literal String"
```

FOX:Schema:externalUrl

fox:externalUrl

Description

```
fox:externalUrl="XPath String"
```

FOX:Schema:fieldClass

fox:fieldClass

Description

fox:fieldClass="*Literal String*"

FOX:Schema:fieldGroup

fox:fieldGroup

Description

```
fox:fieldGroup="Literal String"
```

Declares the field to be part of the group determined by the attribute value.

Field grouping causes mutual exclusion. Only one value should exist for that group during a transaction cycle. An application error will occur if this is violated.

Notes

Internally fields belong to the same group on the fieldset. Currently only text format widgets are supported (FOXr4.04.01 onwards) with support for ValueID formats outstanding.

Supported Widgets

- Input
 - Input+
 - Date
 - Date+
 - Datetime
 - Datetime+
 - Resizable
-

FOX:Schema:fieldHeight

fox:fieldHeight

Description

fox:fieldHeight=*Integer*

FOX:Schema:fieldStyle

fox:fieldStyle

Description

fox:fieldStyle=*Literal String*

FOX:Schema:fieldWidth

fox:fieldWidth

Description

fox:fieldWidth=*Integer*

FOX:Schema:fieldxlock

fox:fieldxlock

Description

fox:fieldxlock=*Integer*

FOX:Schema:fielgylock

fox:fielgylock

Description

fox:fielgylock=*Integer*

FOX:Schema:file-storage-location

fox:file-storage-location

Description

fox:file-storage-location=*Literal String*

Values

fm:file-storage-location name.

Widget Requirements

- file
 - file-new
-

FOX:Schema:flow

fox:flow

Description

```
fox:flow="Literal String"
```

Values

- across
- down

Default: "across"

FOX:Schema:formatDate

fox:formatDate

Description

```
fox:formatDate="Literal String"
```

Specify an Oracle date format mask to apply to the field. This will only be applied when the field is read-only and has a type of xs:date, xs:dateTime or xs:time.

Values

Date mask.

Default:

- xs:date - "DD-MON-YYYY"
- xs:dateTime - "DD-MON-YYYY hh:mm:ss"
- xs:time - "hh:mm:ss"

xs:type Requirements

- xs:date
 - xs:dateTime
 - xs:time
-

FOX:Schema:formColChars

fox:formColChars

Description

```
fox:formColChars="Integer"
```

Number of characters allowed per form layout display grid column. Allowed against Collection Type schema elements.

FOX:Schema:formMaxCols

fox:formMaxCols

Description

```
fox:formMaxCols="Integer"
```

Number of columns allowed in form layout display grid. Allowed against Collection Type schema elements.

FOX:Schema:formTableClass

fox:formTableClass

Description

```
fox:formTableClass="Literal String"
```

FOX:Schema:formTableStyle

fox:formTableStyle

Description

fox:formTableStyle=*Literal String*

FOX:Schema:hint

fox:hint

Description

```
fox:hint="XPath String"
```

The text shown when hovering over an element's hint icon. Hint text can contain HTML markup but `<t;` must be used in place of `<` and attributes must be enclosed in single-quotes. The hint icon is shown next to the element's widget in forms and next to the column heading in lists.

FOX:Schema:hint-url

fox:hint-url

Description

```
fox:hint-url=Literal String
```

The URL to navigate to when an element's hint icon is clicked. Defining a hint-url causes a blank line and "Click here for more help." to be appended to the hint text. The URL will open in a new window with no toolbar, address bar, status bar or menu bar (when allowed by the browser).

FOX:Schema:hintWidth

fox:hintWidth

Description

```
fox:hintWidth="XPath Integer"
```

The width, in pixels, of an element's hint.

Values

Default: 200

FOX:Schema:href

fox:href

Description

```
fox:href="XPath String"
```

FOX:Schema:image

fox:image

Description

```
fox:image="Literal String"
```

FOX:Schema:image-display-height

fox:image-display-height

Description

```
fox:image-display-height="XPath Integer"
```

Widget Requirement

- image

FOX:Schema:image-display-size

fox:image-display-size

Description

```
fox:image-display-size="XPath String"
```

Values

- Extra Large
- Large
- Medium
- Small
- Thumbnail

Widget Requirement

- image
-

FOX:Schema:image-display-width

fox:image-display-width

Description

```
fox:image-display-width="XPath Integer"
```

Widget Requirement

- image

FOX:Schema:image-enable-preview

fox:image-enable-preview

Description

```
fox:image-enable-preview="XPath Boolean"
```

Widget Requirement

- image
-

FOX:Schema:image-enable-rotate

fox:image-enable-rotate

Description

```
fox:image-enable-rotate="XPath Boolean"
```

Widget Requirement

- image

FOX:Schema:image-only

fox:image-only

Description

```
fox:image-only="XPath Boolean"
```

Widget Requirement

- image
-

FOX:Schema:imageUrl

fox:imageUrl

Description

```
fox:imageUrl="XPath String"
```

Combines a list of images on top of each other to create a composite image.

Values

A semi-colon (;) separated string of images to layer on top of each other, with the first image listed being at the bottom and the last at the top.

Note: Images must be the same size and data type, and must exist in the database or FOX internal component image collection.

Note: Java 1.4 cannot write GIFs, so it is necessary to use PNG or other image formats with transparency at the moment.

Example

```
fox:image="img/clockface"
```



```
fox:image="img/clock_layer3"
```



```
fox:image="img/clockface7"
```



```
fox:imageUrl="img/clockface;img/clock_layer3"
```



```
fox:imageUrl="img/clockface;img/clock_layer7"
```



FOX:Schema:init-db-interface

fox:init-db-interface

Description

```
fox:init-db-interface="Literal String"
```

The name of the db-interface to run when initialising this element, used in conjunction with fox:init-query.

FOX:Schema:init-query

fox:init-query

Description

```
fox:init-query="Literal String"
```

The name of the query to run when initialising this element, used in conjunction with fox:init-db-interface.

The query results are inserted as child elements of this element. For instance:

```
<ELEMENT />
```

Becomes

```
<ELEMENT>  
  <DUMMY>X</DUMMY>  
</ELEMENT>
```

For the query "SELECT * FROM dual".

You can specify a target-path on the query if you wish, to initialise a list.

N.B. Consider the performance impact of running an init-query multiple times. In many cases it is probably more efficient to run a single query which generates all the XML you require.

See also the fm:init command.

FOX:Schema:init-xpath

fox:init-xpath

Description

fox:init-xpath="*XPath String*"

FOX:Schema:inputSpellWidget

fox:inputSpellWidget

Description

```
fox:inputSpellWidget="XPath Boolean"
```

Specifies whether a spell check icon should be displayed for the current element.

Values

Default: false

FOX:Schema:key-false

fox:key-false

Description

```
fox:key-false="Literal String"
```

The display key for false in boolean selector widgets.

Values

Default: "No"

FOX:Schema:key-missing

fox:key-missing

Description

```
fox:key-missing="Literal String"
```

The display key for null content selector widgets. This is only used for mand elements. Optional elements use key-null.

Values

Default: "Select One"/"Select Many"

FOX:Schema:key-null

fox:key-null

Description

```
fox:key-null="Literal String"
```

The display key for null content selector widgets. This is only used for optional elements. mand elements use key-missing.

Values

Default: "None"

FOX:Schema:key-true

fox:key-true

Description

```
fox:key-true=Literal String
```

The display key for true in boolean selector widgets.

Values

Default: "Yes"

FOX:Schema:key-unrecognised

fox:key-unrecognised

Description

```
fox:key-unrecognised=Literal String
```

The display key for unrecognised content selector widgets.

Values

Default: Content string (if simple) otherwise "Unrecognised".

FOX:Schema:listSortKey

fox:listSortKey

Description

fox:listSortKey="*Single Node Complex XPath*"

FOX:Schema:listTableClass

fox:listTableClass

Description

fox:listTableClass="*Literal String*"

FOX:Schema:listTableStyle

fox:listTableStyle

Description

fox:listTableStyle="*Literal String*"

FOX:Schema:listxgap

fox:listxgap

Description

fox:listxgap="Integer"

FOX:Schema:listygap

fox:listygap

Description

fox:listygap="Integer"

FOX:Schema:mand

fox:mand

Description

```
fox:mand="XPath Boolean"
```

Specifies that an element's text contents is mandatory. If the element itself does not exist in the DOM, the mand attribute is not enforced.

To assert *mand* attributes, an element must be targeted with the fm:validate command.

Note: fox:mand does **NOT** obey the Evaluate Context rule. The attach point ('.') of the XPath is always the current element and not the closest complex element like with other attribute XPaths. However, the HTML generation which determines whether an asterisk should display next to the field does obey the evaluate context rule. To mitigate this bug, it is suggested that the ancestor-or-self XPath axis is used for conditional mand attributes, i.e.:

```
fox:mand="/ancestor-or-self::VALIDATE_FIELD/text() = 'true'"
```

FOX:Schema:map-set

fox:map-set

Description

```
fox:map-set="Literal String"
```

Specifies the name of a map-set to be associated with this schema element. When displayed with an appropriate Widget, any data value in this element which matches a `data` node in the map-set will be set out as the corresponding `key`.

Use `fox:map-set` in conjunction with a selector, tickbox or radio widget in order to display the map-set on the screen as a list. See also: FOX:Schema:selector.

Values

The name of a mapset.

FOX:Schema:navAction

fox:navAction

Description

```
fox:navAction="Literal String"
```

The action that navigates to the screen to edit the value if an error occurs.

Values

Action name.

FOX:Schema:nestedTableClass

fox:nestedTableClass

Description

fox:nestedTableClass=*Literal String*

FOX:Schema:nestedTableStyle

fox:nestedTableStyle

Description

fox:nestedTableStyle=*Literal String*

FOX:Schema:phantom-data-xpath

fox:phantom-data-xpath

Description

fox:phantom-data-xpath=*XPath*

Used to display data in the current schema element that is located in the same or another DOM at the location specified by the XPath. This data is not stored/duplicated by elements with the *phantom-data-xpath* attribute set.

Both relative and absolute XPaths can be used and they can be simple or complex.

In order to use *phantom-data-xpath* on a schema element, the element must have the *type="phantom"* attribute set and the *fox:edit* attribute must not be present (the element must be read only). If either of these conditions are not met an error will be thrown.

The *phantom-data-xpath* functionality will work with the following widget types:

- date
- date+
- datetime
- datetime+
- input
- input+
- selector
- selector+
- tickbox

It will also work when no widget type is specified (implicit input).

Please note that all other fox attributes and formatting can be used on phantom-data-xpath elements as they behave the same as their given widget type.

See the WIDGETTEST module for examples of usage.

Use with single value widget types

When the *phantom-data-xpath* attribute is used with inputs that display one value (input[+], date[+], datetime[+]) you must specify an XPath that returns one value, otherwise an error will be thrown.

Use with repeating elements (selectors and tickbox)

When the *phantom-data-xpath* attribute is used with widgets that can handle multiple elements (selector[+], tickbox) you may specify an XPath that returns multiple elements.

When multiple elements are targeted with a selector[+] then a multiselect box will be displayed (all elements selected).

When multiple elements are targeted with a tickbox then one tickbox will be displayed (ticked) for each targeted element and the label will be the text content of the targeted element.

Automatic date[time][+] formatting

When the *phantom-data-xpath* attribute is used with date[time][+] widget types, FOX will automatically format the data appropriately. If the targeted value is not in an appropriate date/time format the value will be displayed as is.

Mapset behavior

When the *phantom-data-xpath* attribute is used with the *fox:map-set* attribute, any values targeted by the XPath will be mapped and the appropriate key displayed. If a targeted value is not contained in the mapset then the value will be displayed as is.

If a map set is used with a selector[+] or a tickbox then only the targeted elements will be displayed and the rest of the values in the mapset will not.

Values

An XPath targeting the data you wish to set out using the *phantom-data-xpath* element.

FOX:Schema:prompt

fox:prompt

Description

```
fox:prompt="XPath String"
```

The prompt to display for this element.

Values

Default: `initCap(replace("_", " ",elementName))`

FOX:Schema:prompt-short

fox:prompt-short

Description

```
fox:prompt-short="XPath String"
```

FOX:Schema:prompt-shortStyle

fox:prompt-shortStyle

Description

```
fox:prompt-shortStyle="Literal String"
```

FOX:Schema:prompt2

fox:prompt2

Description

fox:prompt2=*Literal String*

FOX:Schema:promptAlignX

fox:promptAlignX

Description

```
fox:promptAlignX=Literal String
```

Values

- left
- right
- center

FOX:Schema:promptAlignY

fox:promptAlignY

Description

```
fox:promptAlignY=Literal String
```

Values

- top
 - bottom
 - center
-

FOX:Schema:promptClass

fox:promptClass

Description

fox:promptClass=*Literal String*

FOX:Schema:promptFieldGapX

fox:promptFieldGapX

Description

fox:promptFieldGapX=*Integer*

FOX:Schema:promptFieldGapY

fox:promptFieldGapY

Description

fox:promptFieldGapY=*Integer*

FOX:Schema:promptLayout

fox:promptLayout

Description

```
fox:promptLayout="Literal String"
```

Specifies whether an element's prompt is shown above ("north") or to the left ("west") of its widget in form layouts

Values

- north
- west

Default: "west"

FOX:Schema:promptStyle

fox:promptStyle

Description

```
fox:promptStyle="Literal String"
```

Defines the style applied to the table cell containing an element's prompt.

Values

A semi-colon (;) separated string of CSS property declarations in the form "name: value" (this is the same syntax as HTML inline styles ^[1]).

FOX:Schema:promptWidth

fox:promptWidth

Description

fox:promptWidth=*Integer*

FOX:Schema:radio-group

fox:radio-group

Description

```
fox:radio-group=Literal String
```

Label string that associates distinct items to form a logical radio group. This default value is the absolute path of the item in the schema definition. This attribute allows radio groups to be defined across items. When used with radio-owner, across records can also be achieved. See also radio-owner.

FOX:Schema:radio-owner

fox:radio-owner

Description

```
fox:radio-owner=Single Node Complex XPath
```

XPath expression that locates an element that when common with another radio item, and the same radio-group label is in use, the item joins the logical radio set. The default is "." indicating the current record. This allows radio groups to be defined across records (i.e. within a common parent or super-parent list e.g. ".." See also radio-group.

FOX:Schema:ro

fox:ro

Description

fox:ro="XPath Boolean"

FOX:Schema:run

fox:run

Description

fox:run="XPath Boolean"

FOX:Schema:selector

fox:selector

Description

XPath targeting one nested node which specifies cardinality generator for multi-select map-set widgets.

fox:selector="Single Node Complex XPath"

FOX:Schema:spell

fox:spell

Description

```
fox:spell="XPath Boolean"
```

Specifies whether spell checking should be enabled for an element.

Values

Default: false

FOX:Schema:subject

fox:subject

Description

```
fox:subject="Literal String"
```

Used with fox:email.

FOX:Schema:superPrompt

fox:superPrompt

Description

fox:superPrompt=*Literal String*

FOX:Schema:upload-button-flow

fox:upload-button-flow

Description

```
fox:upload-button-flow=Literal String
```

Values

- horizontal
- vertical

Default: "horizontal"

FOX:Schema:upload-button-position

fox:upload-button-position

Description

```
fox:upload-button-position=Literal String
```

Values

- north
- east
- south

Default: "north"

FOX:Schema:upload-capture-field

fox:upload-capture-field

Description

fox:upload-capture-field="Literal String"

FOX:Schema:upload-choose-prompt

fox:upload-choose-prompt

Description

fox:upload-choose-prompt="XPath String"

FOX:Schema:upload-display-field

fox:upload-display-field

Description

fox:upload-display-field="Literal String"

FOX:Schema:upload-enable-description

fox:upload-enable-description

Description

fox:upload-enable-description="*XPath Boolean*"

FOX:Schema:upload-enable-download

fox:upload-enable-download

Description

fox:upload-enable-download="*XPath Boolean*"

FOX:Schema:upload-enable-view

fox:upload-enable-view

Description

fox:upload-enable-view="*XPath Boolean*"

FOX:Schema:upload-fail-action

fox:upload-fail-action

Description

```
fox:upload-fail-action="Literal String"
```

Values

Action name.

FOX:Schema:upload-field-flow

fox:upload-field-flow

Description

```
fox:upload-field-flow="Literal String"
```

Values

- horizontal
- vertical

Default: "horizontal"

FOX:Schema:upload-file-type

fox:upload-file-type

Description

fox:upload-file-type="*XPath String*"

FOX:Schema:upload-metadata

fox:upload-metadata

Description

fox:upload-metadata="*Single Node Complex XPath*"

FOX:Schema:upload-mode

fox:upload-mode

Description

fox:upload-mode="*Literal String*"

Values

- interrupt-on-module-push-pop-upload-target-any
 - no-interrupt-upload-target-storage-location
 - no-interrupt-modal-upload-window
-

FOX:Schema:upload-prompt

fox:upload-prompt

Description

fox:upload-prompt="*XPath String*"

FOX:Schema:upload-prompt-field

fox:upload-prompt-field

Description

```
fox:upload-prompt-field="Literal String"
```

Used with fox:upload-display-field.

FOX:Schema:upload-save-prompt

fox:upload-save-prompt

Description

fox:upload-save-prompt="*Literal String*"

FOX:Schema:upload-success-action

fox:upload-success-action

Description

```
fox:upload-success-action="Literal String"
```

Values

Action name.

FOX:Schema:upload-view-prompt

fox:upload-view-prompt

Description

```
fox:upload-view-prompt="Literal String"
```

FOX:Schema:upload-window-type

fox:upload-window-type

Description

```
fox:upload-window-type="Literal String"
```

Values

- modeless
- modal

Default: "modeless"

FOX:Schema:validate-general-msg

fox:validate-general-msg

Description

```
fox:validate-general-msg="Literal String"
```

The error message to display when a fox:mand validation fails.

Values

Default: "You must enter this item"

FOX:Schema:validate-map-set

fox:validate-map-set

Description

```
fox:validate-map-set="Literal String"
```

Validate this element against its fox:map-set. A custom message can be displayed with fox:validate-map-set-msg.

Values

- Y
- N

Default: "Y"

FOX:Schema:validate-map-set-msg

fox:validate-map-set-msg

Description

```
fox:validate-map-set-msg="Literal String"
```

The error message to display when an element fails validation against its fox:map-set.

FOX:Schema:validate-xpath

fox:validate-xpath

Description

```
fox:validate-xpath="XPath Boolean"
```

Used to enforce high level validation rules on the associated schema element. If the XPath returns 'true' then the element is considered valid. 'false' is invalid. A custom message can be displayed with fox:validate-xpath-msg.

To assert *validate-xpath* attributes, an element must be targeted with the fm:validate command.

Note: a validate-xpath is only run if the associated element has text content. If the element does not exist or is empty, validate-xpath is ignored.

Note: a validate-xpath is only run in the default 'fox' namespace.

FOX:Schema:validate-xpath-msg

fox:validate-xpath-msg

Description

```
fox:validate-xpath-msg="Literal String"
```

The error message to display when a fox:validate-xpath fails validation.

FOX:Schema:visitOrder

fox:visitOrder

Description

```
fox:visitOrder="Integer"
```

FOX:Schema:widget

fox:widget

Description

```
fox:widget="Literal String"
```

The widget to use to display the schema element.

Values

- alive
 - alive+
 - button
 - button+
 - cartographic
 - date
 - date+
 - datetime
 - datetime+
 - file
 - file-new
 - file-upload
 - html
 - html+
 - icon
-

-
- iconprompt
 - input
 - input+
 - input-resizable
 - image
 - link
 - link+
 - mailto
 - mailto-btn
 - obscure
 - password
 - print
 - radio
 - selector
 - selector+
 - static-text
 - tickbox
 - timer+
 - url
 - url-btn
-