

Widget Class Reference

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Events

endEdit

Description

Triggered when Edit Preference dialog box is closed (save or cancel buttons are pushed).

Callback argument

There is no argument.



onEdit

Description

Triggered when edition of preferences begins.

Callback argument

There is no argument.



onKeyboardAction

Description

Triggered when a key is pressed within the widget's area.

Callback argument

Name	Type	Description
key	String	The pressed key's code.



onLoad

Description

Triggered when the widget is launched.

Callback argument

There is no argument.



onRefresh

Description

Triggered when the widget is refreshed (manually or programmatically).

Callback argument

There is no argument.



onResize

Description

Triggered when the widget size (height and width values) changes. It can happen if the end-user resizes the widget's window, or if the widget's contents increases/decreases the window's height.

Callback argument

There is no argument.



onViewChange

Description

Triggered when the widget is windowed, maximized or minimized.

Callback argument

Name	Type	Description
Event Object If you use <code>event.type</code> , you get which action has triggered the event. It is a string with "windowed", "maximized" or "minimized" as possible values.		

Properties

body

Description

It is the `widget`'s body similar to `document.body`. The main HTML element of the `widget`. Value is null until the `widget` is fully registered in the Environment. Should not be used before `onLoad` event is fired.

Type

HTMLElement

Example

```
var myElt=createElement('div');
myElt.innerHTML = '<h1>Welcome!</h1>';
widget.body.innerHTML = '';
widget.body.appendChild(myElt);
```

Whatever the previous body's contents, it's contents is now:

```
<body>
<div>
<h1>Welcome!</h1>
</div>
</body>
```

id

Description

Unique identifier of the `widget`. The value depends on the execution environment, but once the widget is instantiated in a given environment, its id will never change anymore.

Type

a String

metas

Description

Stores the `widget`'s metadata.

Type

Object

Example

```
<meta name="description" content="CAA Web Apps basic use case " />
....
var myDataDescription= widget.metas.description;
```

lang

Description

The ISO code associated with the current language selected by the end user in the Dashboard top bar.

Type

string. The value can be:

- en, for English
- fr, for French
- de, for German
- ja, for Japanese
- zh, for Chinese

Methods

addEvent

```
addEvent(name, listener, bind, priority)
```

Description

Adds a listener related to the given event name.

Input Parameters

Name	Type	Description
name	String	The event's name. It can be one among those listed on the top of this document, or your own.

listenerFunction The listener function that will be executed when event is triggered.
bind Object (optional) Context on which listener will be executed (object that should represent the this variable inside listener function). If left undefined, the context on which listener will be executed will be the one passed to "dispatchEvent", which defaults to this widget.
priority Number (optional) The priority level of the listener. Listeners with higher priority will be executed before listeners with lower priority. Listeners with same priority level will be executed in the same order they were added. (default = 0)

Return

an object type

The current widget instance.

Example

```
var MyWidget = {  
    onLoadCB: function() {  
        ...  
    },  
    onMyOwnEventCB: function() {  
        ...  
    }  
};  
...  
widget.addEvent('onLoad', MyWidget.onLoadCB);  
widget.addEvent('onMyOwnEvent', MyWidget.onMyOwnEventCB);  
...
```

For your own event, use the dispatchEvent method to send the event.



dispatchEvent

dispatchEvent(name, args, bind)

Description

Executes the listener method related to the given event name.

Input Parameters

Name	Type	Description
name	String	The event's name. It can be one among those listed on the top of this document, or your own.
args	Array	Array of parameters that should be passed to each listener.
bind	Object	Context on which listener will be executed (object that should represent the this variable inside listener function)

Return

an object type

The current widget instance.

Example

```
...  
var paramList= ["FirstName", "LastName", age] ;  
widget.dispatchEvent('onMyOwnEvent', paramList);  
...
```



getValue

getValue(name)

Description

Returns the value of a given user preference.

- The non null|undefined value, if any
- The default value, and if any
- undefined.

Input Parameters

Name	Type	Description
name	String	The name of the user preference we want the value of

If name is not the name of a user preference defined by XML tag, the behavior of the API is not guaranteed.

Return

a void type

Example

```
<widget:preferences>  
    <widget:preference name="OperationChoice" type="list" label="Operation Choices" defaultValue="NFirst" >  
        <widget:option label="NFirst" value="NFirst"></widget:option>  
        <widget:option label="Abs" value="Abs"></widget:option>  
    </widget:preference>  
</widget:preferences>  
...  
var operation= widget.getValue('OperationChoice');  
if ( operation === 'NFirst' ) {  
...
```



setValue

```
SetValue(name,value)
```

Description

Sets the value of a given user preference.

Input Parameters

Name	Type	Description
------	------	-------------

name String The name of the user preference

value String The value (as string) of the user preference. For a non string preference, the value can be not a string, but at the end the method stringifies it.

In case of bad inputs:

- If `name` is not the name of a user preference defined by XML tag, the next `getValue` is not guaranteed. The Preferences edition dialog box will not take into account this name.
- For a valid `name`, if `value` is invalid, the next `getValue` is not guaranteed. The value displayed in the Preferences dialog box is not guaranteed.

Return

a `String` type

The new value of the user preference.

Example

```
<widget:preferences>
  <widget:preference name="OperationChoice" type="list" label="Operation Choices" defaultValue="NFirst" >
    <widget:option label="NFirst" value="NFirst"></widget:option>
    <widget:option label="Abs" value="Abs"></widget:option>
  </widget:preference>
</widget:preferences>
...
var valSet= widget.SetValue('OperationChoice','Abs');
...
```



getTitle

```
getTitle()
```

Description

Returns the contextual part of the widget title.

Return

a `String` type



setTitle

```
setTitle(name)
```

Description

Sets up the contextual part of the widget title.

The title of a widget app is the concatenation of two strings separated by the hyphen char:

widget app name + '-' + a contextual string

This method enables you to set up the contextual string. See the widget title section of the referenced article for complete details about the widget title construction.

Input Parameters

Name	Type	Description
------	------	-------------

name String The contextual part of the widget title. All blanks before the first char, and the ones after the last char are removed. The HTML tags are injected as text instead HTML to prevent XSS attacks.

Return

a `String` type

The string passes as input argument.

Example

Let's suppose the widget app name is 'My App'.

```
...
widget.setTitle("  Communities");
...
```

The final widget title is as follows:



The hyphen is automatically added. The first blanks are removed.

```
...
widget.setTitle("<a href='http://www.3ds.com'>3DS</a>");
...
```

The final widget title is as follows:



addPreference

addPreference(preference)

Description

Adds a single preference to the existing preferences of the widget, or replaces the previous preference if a preference of the same name is already defined.

Input Parameters

Name	Type	Description
preference Object A preference in its JSON serialization.		

Example

```
widget.addPreference({  
    name: "paging",  
    type: "boolean",  
    label: "Enable pagination",  
    defaultValue: "false"  
});
```

The keys are the attributes you retrieve in the HTML preference definition User Preferences Reference .



getPreference

getPreference(name)

Description

Returns the preference definition with it's current value.

Input Parameters

Name	Type	Description
name String The name of the preference		

Return

A preference in its JSON serialization with it's current value.

Example

For this preference:

```
...  
<widget:preference name="limit" type="range" label="Number of items to display" defaultValue="5" step="1" min="1" max="25" />  
...
```

The code :

```
...  
widget.getPreference("limit"),  
...
```

will return:

```
{  
    name: "limit",  
    type: "range",  
    label: "Number of items to display",  
    defaultValue: "5",  
    step: "1",  
    min: "1",  
    max: "25",  
    value: "5"  
}
```

The current value is 5, while the end user, or a setValue, has not changed the current value.



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Triggered when Edit Preference dialog box is closed (save or cancel buttons are pushed).

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Description

Triggered when a key is pressed within the widget's area.

Callback argument

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Triggered when the widget is launched.

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Description

Triggered when the widget is refreshed (manually or programmatically).

Callback argument

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onResize

Description

Triggered when the widget size (height and width values) changes. It can happen if the end-user resizes the widget's window, or if the widget's contents increases/decreases the window's height.

Callback argument

There is no argument.



onViewChange

Description

Triggered when the widget is windowed, maximized or minimized.

Callback argument

Name	Type	Description
Event Object If you use <code>event.type</code> , you get which action has triggered the event. It is a string with "windowed", "maximized" or "minimized" as possible values.		

Properties

body

Description

It is the `widget`'s body similar to `document.body`. The main HTML element of the `widget`. Value is null until the `widget` is fully registered in the Environment. Should not be used before `onLoad` event is fired.

Type

HTMLElement

Example

```
var myElt=createElement('div');
myElt.innerHTML = '<h1>Welcome!</h1>';
widget.body.innerHTML = '';
widget.body.appendChild(myElt);
```

Whatever the previous body's contents, it's contents is now:

```
<body>
<div>
<h1>Welcome!</h1>
</div>
</body>
```

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Description

Unique identifier of the `widget`. The value depends on the execution environment, but once the widget is instantiated in a given environment, its id will never change anymore.

Type

a String

metas

Description

Stores the `widget`'s metadata.

Type

Object

Example

```
<meta name="description" content="CAA Web Apps basic use case " />
....
var myDataDescription= widget.metas.description;
```

lang

Description

The ISO code associated with the current language selected by the end user in the Dashboard top bar.

Type

string. The value can be:

- en, for English
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- de, for German
- ja, for Japanese
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addEvent

```
addEvent(name, listener, bind, priority)
```

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Input Parameters

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name	String	The event's name. It can be one among those listed on the top of this document, or your own.

listenerFunction The listener function that will be executed when event is triggered.
bind Object (optional) Context on which listener will be executed (object that should represent the this variable inside listener function). If left undefined, the context on which listener will be executed will be the one passed to "dispatchEvent", which defaults to this widget.
priority Number (optional) The priority level of the listener. Listeners with higher priority will be executed before listeners with lower priority. Listeners with same priority level will be executed in the same order they were added. (default = 0)

Return

an object type

The current widget instance.

Example

```
var MyWidget = {  
    onLoadCB: function() {  
        ...  
    },  
    onMyOwnEventCB: function() {  
        ...  
    }  
};  
...  
widget.addEvent('onLoad', MyWidget.onLoadCB);  
widget.addEvent('onMyOwnEvent', MyWidget.onMyOwnEventCB);  
...
```

For your own event, use the dispatchEvent method to send the event.



dispatchEvent

dispatchEvent(name, args, bind)

Description

Executes the listener method related to the given event name.

Input Parameters

Name	Type	Description
name	String	The event's name. It can be one among those listed on the top of this document, or your own.
args	Array	Array of parameters that should be passed to each listener.
bind	Object	Context on which listener will be executed (object that should represent the this variable inside listener function)

Return

an object type

The current widget instance.

Example

```
...  
var paramList= ["FirstName", "LastName", age] ;  
widget.dispatchEvent('onMyOwnEvent', paramList);  
...
```



getValue

getValue(name)

Description

Returns the value of a given user preference.

- The non null|undefined value, if any
- The default value, and if any
- undefined.

Input Parameters

Name	Type	Description
name	String	The name of the user preference we want the value of

If name is not the name of a user preference defined by XML tag, the behavior of the API is not guaranteed.

Return

a void type

Example

```
<widget:preferences>  
    <widget:preference name="OperationChoice" type="list" label="Operation Choices" defaultValue="NFirst" >  
        <widget:option label="NFirst" value="NFirst"></widget:option>  
        <widget:option label="Abs" value="Abs"></widget:option>  
    </widget:preference>  
</widget:preferences>  
...  
var operation= widget.getValue('OperationChoice');  
if ( operation === 'NFirst' ) {  
...
```



setValue

```
SetValue(name,value)
```

Description

Sets the value of a given user preference.

Input Parameters

Name	Type	Description
------	------	-------------

name String The name of the user preference

value String The value (as string) of the user preference. For a non string preference, the value can be not a string, but at the end the method stringifies it.

In case of bad inputs:

- If `name` is not the name of a user preference defined by XML tag, the next `getValue` is not guaranteed. The Preferences edition dialog box will not take into account this name.
- For a valid `name`, if `value` is invalid, the next `getValue` is not guaranteed. The value displayed in the Preferences dialog box is not guaranteed.

Return

a `String` type

The new value of the user preference.

Example

```
<widget:preferences>
  <widget:preference name="OperationChoice" type="list" label="Operation Choices" defaultValue="NFirst" >
    <widget:option label="NFirst" value="NFirst"></widget:option>
    <widget:option label="Abs" value="Abs"></widget:option>
  </widget:preference>
</widget:preferences>
...
var valSet= widget.SetValue('OperationChoice','Abs');
...
```



getTitle

```
getTitle()
```

Description

Returns the contextual part of the widget title.

Return

a `String` type



setTitle

```
setTitle(name)
```

Description

Sets up the contextual part of the widget title.

The title of a widget app is the concatenation of two strings separated by the hyphen char:

widget app name + '-' + a contextual string

This method enables you to set up the contextual string. See the widget title section of the referenced article for complete details about the widget title construction.

Input Parameters

Name	Type	Description
------	------	-------------

name String The contextual part of the widget title. All blanks before the first char, and the ones after the last char are removed. The HTML tags are injected as text instead HTML to prevent XSS attacks.

Return

a `String` type

The string passes as input argument.

Example

Let's suppose the widget app name is 'My App'.

```
...
widget.setTitle("  Communities");
...
```

The final widget title is as follows:

A screenshot of a mobile application interface showing the title "My App - Communities".

The hyphen is automatically added. The first blanks are removed.

```
...
widget.setTitle("<a href='http://www.3ds.com'>3DS</a>");
...
```

The final widget title is as follows:



addPreference

addPreference(preference)

Description

Adds a single preference to the existing preferences of the widget, or replaces the previous preference if a preference of the same name is already defined.

Input Parameters

Name	Type	Description
------	------	-------------

preference Object A preference in its JSON serialization.

Example

```
widget.addPreference({  
    name: "paging",  
    type: "boolean",  
    label: "Enable pagination",  
    defaultValue: "false"  
});
```

The keys are the attributes you retrieve in the HTML preference definition User Preferences Reference .



getPreference

getPreference(name)

Description

Returns the preference definition with it's current value.

Input Parameters

Name	Type	Description
------	------	-------------

name String The name of the preference

Return

A preference in its JSON serialization with it's current value.

Example

For this preference:

```
...  
<widget:preference name="limit" type="range" label="Number of items to display" defaultValue="5" step="1" min="1" max="25" />  
...
```

The code :

```
...  
widget.getPreference("limit"),  
...
```

will return:

```
{  
    name: "limit",  
    type: "range",  
    label: "Number of items to display",  
    defaultValue: "5",  
    step: "1",  
    min: "1",  
    max: "25",  
    value: "5"  
}
```

The current value is 5, while the end user, or a setValue, has not changed the current value.



Widget Object

Technical Article

Abstract

Previously you have learnt dashboard apps [1] point to widget applications which must be UWA based [2]. The first chapter recalls the widget html page format, and introduces the **widget object** which is an instance of the Widget class [3]. The second chapter details the capabilities offered by this class.

- Widget based UWA protocol
 - Widget Template
 - Widget Object
 - Widget View Mode
 - Widget Life Cycle
- Widget Class Use
 - User Preferences
 - Events
 - DOM Access
 - Meta Data
 - Identification
 - Title
- In Short
- References
- History

Widget based UWA protocol

A widget to be loaded in a **3DEXPERIENCE** dashboard must be UWA based. This chapter explains what it implies.

Widget Template

The structure of the widget is an html page containing at least those lines:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:widget="http://www.netvibes.com/ns/">
  <head>
    ...
  </head>
  <body>
    ...
  </body>
</html>
```

The first three lines are mandatory:

1. Extensible Markup Language (**HTML**) is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable. It is defined in the **HTML 1.0 Specification** produced by the W3C, and several other related specifications, all free open standards. The encoding is **utf-8** to support unicode characters.
2. The **DOCTYPE** is an instruction to the web browser about what version of HTML the page is written in.
3. The last line is about the **namespaces**. You can see the **w3** namespace, and the one of Netvibes

head section

The contents of the `head` section is your widget application. You are free to use your favorite libraries, since DS do not provide, or neither recommend, a specific JavaScript framework.

Among the `head` section you can find several `script` sections, but at least one. Inside such a section you can reach the object **widget** which is automatically instantiated by 3DDashboard when the page is loaded [2].

In the example just below, the `body` property of the `widget` object is used to change the DOM contents:

```
<head>
...
<script>
  widget.body.innerHTML= "Hello World!";
</script">
...
</head>
```

The complete list of the DS exposed APIs applicable on the `widget` object is available in the [Widget Class Reference article](#) [3]. In the next chapter [Widget Class Use](#) we introduce them.

body section

The `body` section is usually empty. Your JavaScript code will fill it in.

By default, if your code (within script sections) does not change the widget body contents, the widget body shows "Loading ...".

Note: If you see this string instead your expected display, the widget loading has certainly failed. The use of a browser debugger [12] can be helpful to solve the issues.

Widget Object

We have seen that the widget is an html page loading in a dashboard. In this context you can use the `widget` object - an instance of the Widget class. This object is used to manage the widget lifecycle, and to interact with the 3DDashboard frame.

We draw your attention on the fact this `widget` object must only be used inside the `<script>` section of the html page. Do not use the object in an external JavaScript file, and do not pass it as an argument of JavaScript function.

Correct Example:

```
<script>
  require(['DS/CAAWebAppsUserPreference/CAAWebAppsUPMngt'], function (CAAWebAppsUPMngt) {
    'use strict';
    var MyWidget = {
      onLoad: function() {
        var line = CAAWebAppsUPMngt.displayUP(widget.getValue('username'),
```

```

        widget.getValue('category'),
        widget.getValue('openfile'),
        widget.getValue('nb_max_item'));
...

```

In this example the purpose of the `displayUP` method exported by an AMD module [4] is to generate a string containing the user preference values (let's see the referenced use case [9] to understand the complete context). The values of the user preferences are passed as argument of the function. The `displayUP` method builds the string using the input strings, and does no use the `widget` object to retrieve itself the values, like the following two examples.

Wrong Example:

```

define('DS/CAAWebAppsUserPreference/CAAWebAppsUPMngt', function () {
    'use strict';
    var exports;
    exports = {
        displayUP : function ( ) {
            var line = '';
            var txt_up = widget.getValue('username') ;
            line = line + 'User Name: ' + txt_up + '<br>';
...

```

In this example the external JavaScript file use `widget` object as a global object. It will not work in 3DDashboard context.

Other wrong Example:

```

define('DS/CAAWebAppsUserPreference/CAAWebAppsUPMngt', function () {
    'use strict';
    var exports;
    exports = {
        displayUP : function ( widgetarg ) {
            var line = '';
            var txt_up = widgetarg.getValue('username') ;
            line = line + 'User Name: ' + txt_up + '<br>';
...

```

In this example, the `widget` is passed as argument. It is possible, but strongly not recommended to enforce loose coupling.



Widget View Mode

A widget can have four view modes :

- **windowed**
It is the normal mode. The widget is instantiated with this mode in a dashboard. The end user can resize it.
- **maximized**
The widget takes all the place is the page of the dashboard, all the other widgets are no more visible while one is maximized.
- **minimized**
When a widget is minimized, its widget body is hidden, only stay its top banner.
- **fullscreen**
When a widget is fullscreen, the widget body takes all place in the 3DDashboard application. The end user leaves it with the Escape key.

Note that **whatever the widget view mode**, it receives 3DDashboard **events** such as `onLoad`, `onRefresh`, `onViewChange` and `onResize`, even in minimized mode. But the view mode can lead to different behaviors to the others 3DEXPERIENCE components, as for the `6WTagger` [11].

There is no obligation to change the widget contents according to its view mode. Nevertheless, for at least the following reasons you can adapt the widget behavior:

- Once maximized, you can take benefit of the place to show more UI Elements
- Once minimized, since your widget is still running, you can remove/hide some UI components which are time creation/refresh consuming.

With the `onViewChange` event, the widget can be informed after each state change.



Widget Life Cycle

The widget instantiated in a dashboard must react to events sent by 3DDashboard. The event list is published in the [3] article. The way the widget must set the event callback (to react to the events) is explained in the Events section below in this article.

This array sums up for each lifecycle event what triggers it:

Event Name	When
<code>onLoad</code>	There are several contexts where this event is sent: <ul style="list-style-type: none"> • The widget is instantiated in a dashboard, • The widget is manually reloaded by the end-user, • The widget is automatically reloaded when the end-user changes the platform language, • The widget is refreshed using the Refresh item of the widget action menu, and the Refresh event is not declared by the widget. • The user preference dialog box is closed pushing Save button, and the Refresh event is not declared by the widget.
<code>onRefresh</code>	There are several contexts where this event is sent: <ul style="list-style-type: none"> • The widget is refreshed by the end user using the Refresh menu item, • The user preference dialog box is closed pushing Save button.

When the widget is deleted from a dashboard, its deletion as well the deletion of other DS components (as `6WTagger` proxies [10]).

Note: Do not handle the `widget` object - except for `addEvent` - before the `onLoad` event is triggered. When the `onLoad` event is triggered you are sure the widget is fully ready to be used.



Widget Class Use

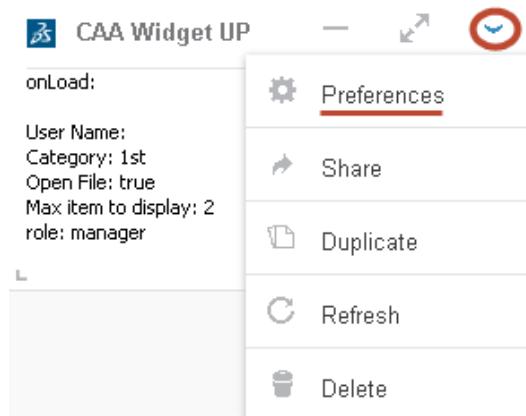
The `widget` object, automatically instantiated by the 3DDashboard, and accessible in the widget html page, is a `Widget` class instance. This chapter is an introduction of its contents.

Important: Whatever UWA level you are using for testing standalone your widget, once loaded by 3DDashboard, the level is the one injected by the 3DEXPERIENCE service.

The current Developer Assistance sections proposes technical and use cases articles to go further. They described - as well this introduction - behaviors of UWA API injected by 3DDashboard.

User Preferences

User preferences are widget attributes that the end user is able to edit. Once a widget declares at least one "preference", the Preferences menu shows up in the widget command sub-menu:



In this example extracted from the referenced use case [9], the dialog box contains all visible preference types (text, list, boolean, range):

Edit preferences

User Name

Possible Categories

 First category ▾

Open File

Max items to display

 2 ▾

Save

Cancel

The preference values are kept by 3DDashboard.

The referenced technical article [5] explains how to declare and manage preference elements in a widget. You will learn that they can be created statically as dynamically.

If you already know the principle, do not forget the reference article [6] describing each kind of preference type.

Events

The event mechanism is based on the DOM event protocol. Your code can add a listener for exposed events [3], as for yours. In this latter case, your code will dispatch your own event.

Event Listener

The method to add a listener for an event is `addEvent`.

```
...
<script>
  'use strict';

  var MyWidget = {
    onLoadCB:function () {
      ...
    },
    onViewChangeCB:function (TheViewArg) {
      ...
    },
    onMyOwnEventCB:function () {
      ...
    }
  };
  widget.addEvent('onLoad', MyWidget.onLoadCB);
  widget.addEvent('onViewChange', MyWidget.onViewChangeCB);
  widget.addEvent('onMyOwnEvent', MyWidget.onMyOwnEventCB);
```

```
...
</script>
...
Some events can have arguments like onViewChange. For 3DDashboard events, the arguments are described for each exposed event [3].  
The onMyOwnEvent event is a custom event that you will send yourself.
```

Event Dispatcher

The method to send an event is `dispatchEvent`

```
...
<script>
...
widget.dispatchEvent('onMyOwnEvent');
...
var ObjectArg= [...,...];
widget.dispatchEvent('onMyOwnEventWithArgs', ObjectArg);
...
</script>
...

```

The first event is dispatched without argument, while the second has a argument.

DOM Access

We strongly recommend the developer to use the exposed API to get and handle the DOM (Document Object Model). You get it through the `body` property of the `widget` object.

```
widget.body.innerHTML=textToDisplay;
```

`body` is an `HTMLElement` you handle with standard DOM APIs.

For more details refer to the referenced article [7].

Meta Data

The widget can have static data we call meta data

```
...
<meta name="description" content="CAA Web Apps basic use case" />
<meta name="keywords" content="CAA Use Case" />
...
```

You get the value of a meta data using the `metas` property of the `widget` object.

```
...
var myDataDescription= widget.metas.description;
...
```

The name after metas is the meta data name.

Identification

The widget once instantiated in a dashboard is assigned an identifier. This id is a random value, but once associated with the `widget` instance, it stays constant. You access it through the `id` property of the `widget` object.

Title

The title of a widget loaded in the 3DDashboard is built with two strings separated with an hyphen. The first string is the widget name, and the second is the string set with the `setTitle` method.

```
widget.name + '-' + a contextual string
```

About the widget name it depends on the widget instantiation in a dashboard [8]:

- If the widget is loaded through Run Your App, it is the value of the `title` tag. If the tag does not exist, the first part of the title is empty.
- If the widget is instantiated from the Compass, it is the short name of the third party app which is used. The `title` tag is ignored.

If the widget name is constant, the second part evaluated by a method is contextual. This string can be internationalized for example.

Note: If there is no widget name, or no second part, the hyphen is not added.

In Short

This article has presented the basic structure of a 3DEXPERIENCE platform widget, and introduced the APIs to handle the `widget` object automatically instantiated by the UWA environment in which the widget is running.

References

- [1] 3DEXPERIENCE Applications
- [2] Widget Principles
- [3] Widget Class Reference
- [4] AMD Concepts
- [5] User Preferences
- [6] User Preference Reference
- [7] About DOM Elements
- [8] Widget Dashboard Integration

- [9] Using User Preferences
- [10] 6WTagger Integration - API
- [11] 6WTagger Integration - Principles
- [12] Widget Development Troubleshooting

History

Version: 1 [Feb 2017] Document created from a previous article



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User Preferences Reference

Technical Article

- Declare a User Preference Section
- Text Preference
- Boolean Preference
- List Preference
- Range Preference
- Hidden Preference

Declare a User Preference Section

A user preference section is declared with the `widget:preferences` tag itself included in the `head` tag

```
<head>
...
<widget:preferences>
</widget:preferences>
...
</head>
```

Inside this section one or several preferences can be declared, each one using the `widget:preference` tag

```
<head>
<widget:preferences>
  <widget:preference name="preference_name" [ + others attribut list ] >
  </widget:preference>
  ...
</widget:preferences>
</head>
```

There is at least the `name` attribute. For the others, please refer to the section associated with the type of the preference (text, boolean,...).

Examples:

```
<widget:preferences>
  <widget:preference name="my_text"      type="text"      label="My text pref"      defaultValue="MyDefaulttext"></widget:preference>
  <widget:preference name="my_checkbox" type="boolean"   label="My checkbox pref" defaultValue=""></widget:preference>
</widget:preferences>
```

To be valid, the XML preference declarations should follow these requirements:

- About `widget:preferences` tag
 - There MUST be only one such tag per widget
 - The tag and its content MUST be well-formed XML. Notably, XHTML entities SHOULD be escaped.
 - The tag MUST be placed within the XHTML file's `head` tag.
- About `widget:preference` tag
 - The tag MUST be within a `widget:preferences` tag.
 - Each preference MUST be defined within a single `widget:preference` tag within the `widget:preferences` tag.
 - Each preference MUST use a unique value for its `name` attribute.
 - Each preference tag MUST be closed with `</widget:preference>` element.

About the **default value**, we strongly recommend to associate an explicit value with the user preference before the first open of the Preferences dialog box by the end user. The valuation can be done through the XML tag, or by API. See the *APIs* section in the article User Preferences

About **NLS**, only the `label` attribute is translatable as explained in the Widget Internationalization article.

We draw the attention to the reader that if the **pictures illustrating** each kind of preference can be slightly different from the current user experience it does not mean the explanations are wrong.



Text Preference

Simple text input.

XML Syntax

```
<widget:preference type="text" name="user_name" label="User name" defaultValue="John Doe" onchange="evtname" ></widget:preference>
```

Where the attributes for `widget:preference` are:

Name	Value	Description	Mandatory
type	text	the preference type is text	yes
name	a string	the identifier of the preference	yes
label	a string	the string to display above the editor. If no label, the name's value is used.	no
defaultValue	a string	the initial value while the end user does not have entered a value, or a value has not been set by API.	no
onchange	a string	The name of an event triggered when interactively the user preference is changed. The callback function has two arguments. First the user preference name, and then the new value.	no

Rendering

User name

John Doe

An input editor fills in with current text.



Boolean Preference

Simple checkbox input.

XML Syntax

```
<widget:preference type="boolean" name="Open" label="Open File" defaultValue="true" onchange="evtname" ></widget:preference>
```

Where the attributes for `widget:preference` are:

Name	Value	Description	Mandatory
type	boolean	the preference type is boolean	yes
name	a string	the identifier of the preference	yes
label	a string	the string to display on the left of the check box. If no label, the name's value is used.	no
defaultValue	"true" "false"	the initial value while the end user does not have entered a value, or a value has been set by API.	no
onchange	a string	The name of an event triggered when interactively the user preference is changed. The callback function has two arguments. First the user preference name, and then the new value.	no

Rendering

On the left, the false value rendering, and on the right the true rendering.



Using

```
var theBooleanPref=widget.getValue("MyBool");
if ( theBooleanPref === "true" ) {
    ...
}
if ( theBooleanPref === "false" ) {
    ...
}
```



List Preference

Simple select input.

XML Syntax

```
<widget:preference type="list" name="category" label="Possible Category" defaultValue="1st" onchange="evtname" >
    <widget:option value="all" label="all"></widget:option>
    <widget:option value="1st" label="First category"></widget:option>
    <widget:option value="2nd" label="Second category"></widget:option>
    <widget:option value="3rd" label="Third category"></widget:option>
</widget:preference>
```

Where the attributes for `widget:preference` are:

Name	Value	Description	Mandatory
type	list	the preference type is list	yes
name	a string	the identifier of the preference	yes
label	a string	the string to display above the list. If no label, the name's value is used.	no
defaultValue	a value of one <code>value</code> attribute among all <code>widget:option</code> tags	the initial value while the end user does not have entered a value, or a value has been set by API. If the value is invalid, read the Default Value section of the technical article for the UI/API behavior.	no
onchange	a string	The name of an event triggered when interactively the user preference is changed. The callback function has two arguments. First the user preference name, and then the new value.	no

Where the attributes for `widget:option` are:

Name	Value	Description	Mandatory
value	a string	the internal value of the element of the list	yes
label	a string	the displayed value of the element of the list. If no label, the value's value is used.	no

Rendering

Possible Category



A combo, where the element in the editor is the current value.



Range Preference

Simple range input.

XML Syntax

```
<widget:preference type="range" name="nb_max_items" label="Max items to display" step="1" min="1" max="7" defaultValue="5" onchange="evtname" ></widget:preference>
```

Where the attributes for `widget:preference` are:

Name	Value	Description	Mandatory
type	list	the preference type is range	yes
name	a string	the identifier of the preference	yes
label	a string with	the string to display above the list. If no label, the name's value is used.	no
step	an integer	the gap between two values in the combo.	yes

min	an integer	the minimal value. Always start with this value.	yes
max	an integer	the maximal value. It can not be reached according the step value.	yes
defaultValue	a value of one <code>value</code> attribute among all <code>widget:option</code> tags	A value between min and max. If the value is invalid, read the Default Value section of the technical article for the UI/API behavior.	no
onchange	a string	The name of an event triggered when interactively the user preference is changed. The callback function has two arguments. First the user preference name, and then the new value.	no

Example

Step	min	max	displayed values
1	3	5	3,4,5
2	3	5	3,5
2	3	4	3
2	1	10	1,3,5,7,9

Rendering

Max items to display

Using

```
var theRangePref=widget.getValue("MyRange");
var valAsInt=parseInt(theRangePref) ;
if ( valAsInt == 3 ) {
}
```



Hidden Preference

A preference without visualization.

XML Syntax

```
<widget:preference type="hidden" name="MyPrefValue" defaultValue="3" ></widget:preference>
```

Where the attributes for `widget:preference` are:

Name	Value	Description	Mandatory
type	hidden	the preference type is hidden	yes
name	a string	the identifier of the preference	yes
defaultValue	a string	The initial value of the preference	no

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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4. Mateusz Kwiatkowski Workaround for bug 62258 in libstdc++

GPL 3.0 with GCC Runtime Library Exception 3.1

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Version 3.1, 31 March 2009

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oneTBB 2021.5.0

oneAPI Threading Building Blocks (oneTBB) Third Party Programs File

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4. Mateusz Kwiatkowski Workaround for bug 62258 in libstdc++

GPL 3.0 with GCC Runtime Library Exception 3.1

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Version 3, 29 June 2007

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given-names: Sanjay
- family-names: Goodfellow
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given-names: Geoffrey
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given-names: Michael
- family-names: Jozefowicz
given-names: Rafal
- family-names: Jia
given-names: Yangqing
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given-names: Fernanda
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Files:

src/jogamp/graph/geom/plane/AffineTransform.java
src/jogamp/graph/geom/plane/IllegalPathStateException.java
src/jogamp/graph/geom/plane/NoninvertibleTransformException.java
src/jogamp/graph/geom/plane/PathIterator.java
src/jogamp/graph/geom/plane/Path2D.java
src/jogamp/graph/math/plane/Crossing.java
src/org/apache/harmony/misc/HashCode.java

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=====

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<<https://java.net/projects/typecast>>

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Files:

src/jogl/classes/jogamp/graph/font/typecast/ot/*
src/jogl/classes/jogamp/graph/font/typecast/ot/table/*
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src/jogl/classes/jogamp/graph/font/typecast/ot/mac/*
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Files:

src/jogamp/graph/font/fonts/ubuntu/*

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Files:

make/stub_includes/cg/CG/**

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====

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<<http://code.google.com/p/pngj/>>

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src/jogl/classes/jogamp/opengl/util/pngj/**

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-

from compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes

1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

2.0.1 2.0+1.6.1 2001 PSF yes

2.1.1 2.1+2.0.1 2001 PSF yes

2.2 2.1.1 2001 PSF yes

2.1.2 2.1.1 2002 PSF yes

2.1.3 2.1.2 2002 PSF yes

2.2.1 2.2 2002 PSF yes

2.2.2 2.2.1 2002 PSF yes

2.2.3 2.2.2 2003 PSF yes

2.3 2.2.2 2002-2003 PSF yes

2.3.1 2.3 2002-2003 PSF yes

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2.3.4 2.3.3 2004 PSF yes

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2.4 2.3 2004 PSF yes

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2.6.2 2.6.1 2009 PSF yes

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1> #

It contains the certificates in PEM format and therefore

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Mesa 3-D graphics library

Version: 7.0

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jscript_hash

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**zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.3, July 9th, 1998**

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).

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Written by James Roskind

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py4j

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Python Console

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Sobol Sequence Primitives

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SQLite-ODBC

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curl

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became

Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2 1991-1995 CWI yes

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1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

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2.1.1 2.1+2.0.1 2001 PSF yes

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pywin32

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