Safari Extensions Reference

User Experience



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Introduction

Technology area:Safari ExtensionsCompanion guidesSafari ExtensionsCompanion guidesSafari Extensions

Safari Extensions Development Guide Safari Extensions Conversion Guide

Safari extensions provide a way for you to add features to the Safari browser and extend the browsing experience. Extensions can add custom buttons to the Safari toolbar, create additional bars, add contextual menu items, display content, and inject scripts and style sheets into webpages.

INTRODUCTION

Introduction

PART I

Classes

PART I Classes

SafariApplication Class Reference

Inherits from
Technology area:
Availability

SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariApplication class allows a Safari extension to interact with the Safari application.

Tasks

Creating Browser Windows

openBrowserWindow (page 12) Opens a new browser window in front of all other windows.

Accessing Browser Windows

activeBrowserWindow (page 11) The active browser window. browserWindows (page 12) The current browser windows, in order from front to back.

Properties

activeBrowserWindow

The active browser window.

readonly attribute SafariBrowserWindow activeBrowserWindow

Discussion

If there are no open browser windows, the value of this attribute is null.

CHAPTER 1 SafariApplication Class Reference

Availability Available in Safari 5.0 and later.

browserWindows

The current browser windows, in order from front to back.

readonly attribute array browserWindows

Discussion If there are no browser windows, the array is empty.

Using activeBrowserWindow (page 11) is more efficient if you only want the frontmost window.

Availability

Available in Safari 5.0 and later.

Methods

openBrowserWindow

Opens a new browser window in front of all other windows.

SafariBrowserWindow openBrowserWindow (void);

Return Value The newly opened window.

Availability Available in Safari 5.0 and later.

SafariBrowserTab Class Reference

Technology area:SafaAvailabilityAvai

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariBrowserTab class represent tabs in the user's browser window.

Tasks

Getting Information About Browser Tabs

browserWindow (page 14) The browser window containing this tab.

page (page 14)

A proxy object for the the web content displayed in the tab.

- title (page 14) The tab's current title.
- url (page 14) The URL loaded in this tab.
- visibleContentsAsDataURL (page 15) Returns a data URL for an image of the visible contents of the tab.

Working with Browser Tabs

activate (page 15) Selects the tab.

close (page 15) Requests that the tab should close.

Properties

browserWindow

The browser window containing this tab.

readonly attribute SafariBrowserWindow browserWindow

Availability Available in Safari 5.0 and later.

page

A proxy object for the the web content displayed in the tab.

readonly attribute SafariWebPageProxy page

Availability Available in Safari 5.0 and later.

title

The tab's current title.

readonly attribute DOMString title

Discussion

The tab's title is the same as the title of the webpage in most cases. For example, the title of the webpage may be truncated for display, but the value of this property is not truncated.

Availability

Available in Safari 5.0 and later.

url

The URL loaded in this tab.

attribute DOMString url

Discussion

Setting this attribute to a new value loads the page at the new URL in the tab.

Availability

Available in Safari 5.0 and later.

Methods

activate

Selects the tab.

void activate (void);

Discussion

Depending on the content that is currently loaded in the tab, this method may change the keyboard focus.

Availability

Available in Safari 5.0 and later.

close

Requests that the tab should close.

void close (void);

Discussion

This method behaves like clicking the tab's close button—it does not necessarily cause the tab to close. After a tab closes, the value of all of its properties is undefined and all of its prototype's methods return undefined.

Availability

Available in Safari 5.0 and later.

visibleContentsAsDataURL

Returns a data URL for an image of the visible contents of the tab.

DOMString visibleContentsAsDataURL (void);

Return Value

A data URL for an image of the visible contents of the tab.

Discussion

The image is returned as a base-64 encoded PNG.

Availability

Available in Safari 5.0 and later.

SafariBrowserTab Class Reference

SafariBrowserWindow Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariBrowserWindow class represent browser windows. Each window contains one or more tabs, which display web content.

Tasks

Getting Information About Windows

tabs (page 18)
 The tabs in the window.
visible (page 18)
 A Boolean value that indicates whether the window is visible.

Interacting With Windows

- activate (page 18) Brings the window to the front and gives it keyboard focus. activeTab (page 18) The tab currently being displayed in the window. close (page 19)
 - Requests that the window should close.
- openTab **(page 19)**

Opens a new tab in the window.

insertTab (page19)

Inserts a tab into the window.

Properties

activeTab

The tab currently being displayed in the window.

readonly attribute SafariBrowserTab activeTab

Availability Available in Safari 5.0 and later.

tabs

The tabs in the window.

readonly attribute array tabs

Discussion The tabs are ordered in the array from left to right.

Availability Available in Safari 5.0 and later.

visible

A Boolean value that indicates whether the window is visible.

readonly attribute boolean visible

Discussion

This attribute is true if the window is being displayed, even if it is covered by other windows. It is false if the window has been minimized.

Availability

Available in Safari 5.0 and later.

Methods

activate

Brings the window to the front and gives it keyboard focus.

void activate (void);

Availability

Available in Safari 5.0 and later.

SafariBrowserWindow Class Reference

close

Requests that the window should close.

void close (void);

Discussion

This method behaves like clicking the window's close button—it does not necessarily cause the window to close. After a window closes, the value of all of its properties is undefined and all of its prototype's methods return undefined.

Availability

Available in Safari 5.0 and later.

insertTab

Inserts a tab into the window.

void insertTab (in SafariBrowserTab tab, in long index);

Parameters

tab

The tab being inserted.

index

The location where the tab is being inserted.

Availability

Available in Safari 5.0 and later.

openTab

Opens a new tab in the window.

SafariBrowserTab openTab (in DOMString visibility, in long index);

Parameters

visibility

Either foreground if the tab should be opened in the foreground, or background if it should be opened in the background. Optional.

index

The desired location of the new tab. Optional.

Return Value

A new tab.

Discussion

The default visibility is foreground, used when visibility is omitted or undefined. An invalid value causes an exception.

Tab indexes start at 0 on the far left and increases going to the right. The default location is at the far right. If index is negative, the tab is inserted at the far left; if index is greater than the number of tabs currently open, the tab is inserted at the far right.

SafariBrowserWindow Class Reference

Availability Available in Safari 5.0 and later.

SafariCommandEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariCommandEvent class represent events being used to send a command.

The event type for this class is command.

Tasks

Getting the Command Identifier

command (page 21) The command identifier of the target being dispatched.

Properties

command

The command identifier of the target being dispatched.

readonly attribute DOMString command

Availability Available in Safari 5.0 and later.

SafariCommandEvent Class Reference

SafariContentBrowserTabProxy Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariContentBrowserTabProxy class serve as proxy objects, allowing scripts injected in the web content to communicate with SafariBrowserTab objects and the rest of the extension.

The counterpart class, SafariWebPageProxy, is used to pass messages from outside the web content to the scripts injected into it.

Tasks

Sending Messages

canLoad (page 23)
 Dispatches a canLoad message to the browser window tab.
dispatchMessage (page 24)
 Dispatches a message to the browser window tab.
setContextMenuEventUserInfo (page 24)
 Sets the user info to the appropriate context information.

Methods

canLoad

Dispatches a canLoad message to the browser window tab.

any canLoad (in BeforeLoadEvent event, in any message);

Parameters

event

The before-load event you are responding to.

SafariContentBrowserTabProxy Class Reference

message

The body of the message. Optional.

Discussion

Use this method to set up an observer for before-load events and call this method from the observer. Then use the return value to respond to the before-load event, permitting or blocking the resource from being loaded.

This message is sent synchronously, unlike all other messages.

dispatchMessage

Dispatches a message to the browser window tab.

void dispatchMessage (in DOMString name, in any message);

Parameters

name

The name of the message.

message

The body of the message. Optional.

Discussion

All messages except for canLoad messages are dispatched asynchronously. To send a canLoad message, you should use the canLoad (page 23) method.

Availability

Available in Safari 5.0 and later.

setContextMenuEventUserInfo

Sets the user info to the appropriate context information.

```
void setContextMenuEventUserInfo (in MouseEvent event, in any userInfo);
```

Parameters

event

The event you are responding to.

```
userInfo
```

The context information.

Discussion

The context information in userInfo is carried along through the entire event-handling process. It enables you to provide your event handlers with contextual information, such as the user interface element with which the user interacted.

Availability

Available in Safari 5.0 and later.

See Also

SafariExtensionContextMenuEvent SafariExtensionContextMenuItemValidateEvent

SafariContentExtension Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariContentExtension class represents your extension to scripts running inside the web content; an instance of the class is accessible as safari.extension. Its counterpart class outside of the web content is SafariExtension.

Tasks

Getting the Base URI

baseURI (page 25) The URI that corresponds to the root of the extension's bundle.

Properties

baseURI

The URI that corresponds to the root of the extension's bundle.

readonly attribute DOMString baseURI

Availability Available in Safari 5.0 and later.

SafariContentExtension Class Reference

SafariContentNamespace Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariContentNamespace class is a namespace that provides access to the Safari Extensions functionality inside of a web content area.

The corresponding class, SafariNamespace, is used outside of web content areas.

Tasks

Accessing Functionality

self (page 27)
The associated page object.
extension (page 27)
The current Safari extension.

Properties

extension

The current Safari extension.

readonly attribute SafariContentExtension extension

Availability

Available in Safari 5.0 and later.

self

The associated page object.

SafariContentNamespace Class Reference

readonly attribute SafariContentWebPage self

Availability Available in Safari 5.0 and later.

SafariContentWebPage Class Reference

Inherits from
Technology area:
Availability

SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariContentWebPage class represent a web content area.

Tasks

Working with Tabs

tab (page 29) A proxy object for the tab containing the web content.

Properties

tab

A proxy object for the tab containing the web content.

readonly attribute SafariContentBrowserTabProxy tab

Availability Available in Safari 5.0 and later.

SafariContentWebPage Class Reference

SafariEvent Class Reference

Technology area:

Safari Extensions

Overview

The SafariEvent class is a base class used to encapsulate events. Developers who are familiar with DOM events will notice many similarities in design and behavior.

Events are sent to their target and its ancestors in three phases. In order, they are as follows:

- 1. **Capturing.** The event is sent to every ancestor of the its target, starting with the most distant ancestor, and ending with the parent of the event's target.
- 2. Targeting. The event is sent to its target.
- **3. Bubbling.** The event is sent to every ancestor of its target, starting with the parent of the event's target, and ending with its most distant ancestor.

You can tell which phase an event is in from its eventPhase property. When you register for an event notification, you specify whether you want to be notified during the capturing phase or not, so you may not always need to check what phase the event is in.

Tasks

Targeting Events

type (page 33)

The type of the event.

target (page 33)

The target of the event.

currentTarget (page 32)

The object that the event is currently being sent to.

timeStamp (page 33)

Interacting with Event Propagation

Preventing the Default Action

preventDefault (page 33)
 Prevents the browser from performing the default action for the event.
defaultPrevented (page 33)
 A Boolean value that indicates whether the default action has been prevented.

Properties

bubbles

A Boolean value that indicates whether the event goes through the bubbling phase.

readonly attribute boolean bubbles

cancelable

A Boolean value that indicates whether the event can be canceled.

```
readonly attribute boolean cancelable
```

See Also stopPropagation (page 34)

currentTarget

The object that the event is currently being sent to.

readonly attribute SafariEventTarget currentTarget

Discussion

This attribute varies as the event progresses through the phases, changing as the event moves through the event-dispatch hierarchy.

defaultPrevented

A Boolean value that indicates whether the default action has been prevented.

readonly attribute boolean defaultPrevented

eventPhase

A number that indicates which event-handling phase the event is in.

readonly attribute unsigned short eventPhase

Discussion

The values for this property are the same as the values used by Webkit to identify the event-handling phases.

target

The target of the event.

readonly attribute SafariEventTarget target

Discussion

This attribute stays the same as the event moves through the event-dispatch hierarchy. Its value is the same as the object that the event is sent to during the targeting phase.

timeStamp

The time and date that the event was created.

readonly attribute DOMTimeStamp timeStamp

type

The type of the event.

readonly attribute DOMString type

Discussion

The string used to identify a particular type of event is documented in the reference for that class.

Methods

preventDefault

Prevents the browser from performing the default action for the event.

```
void preventDefault()
```

CHAPTER 9 SafariEvent Class Reference

Discussion

Use this method to indicate that your extension has already fully handled the event; you don't want the browser to do anything. Note that preventing the default action does not stop an event from propagating.

In the current implementation, there are no Safari Extensions events that have default actions associated with them.

stopPropagation

Prevents the event from any further propagation.

void stopPropagation()

Discussion

Propagation can only be stopped if an event is can be canceled. After propagation is stopped, the event is not sent to any other targets.

See Also cancelable (page 32)

SafariEventTarget Class Reference

Technology area:

Safari Extensions

Overview

The SafariEventTarget class serves as a base class for all objects that participate in the event-dispatch hierarchy.

Tasks

Registering Event Listeners

addEventListener (page 35)
 Starts listening for the specified type of event.
removeEventListener (page 36)
 Stops listening for the specified type of event.

Methods

addEventListener

Starts listening for the specified type of event.

Parameters

type

The type of event to listen for.

listener

The function to call when the event occurs.

useCapture

Pass true if you want to listen during the capturing phase; otherwise, false.

Discussion

For the string used to identify the type of an event, see the reference for the class used to represent that event.

SafariEventTarget Class Reference

removeEventListener

Stops listening for the specified type of event.

void removeEventListener(in DOMString type, in SafariEventListener listener, in boolean useCapture);

Parameters

type

The type of event to listen for.

listener

The function to call when the event occurs.

useCapture

Pass true if you want to listen during the capturing phase; otherwise, false.

Discussion

For the listener to be removed, the parameters must be exactly the same as the parameters that were passed to addEventListener (page 35) to add the listener.

SafariExtension Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariExtension class represents your extension outside of the web content; an instance of the class is accessible as safari.extension. Its counterpart class for scripts running within the web content is SafariContentExtension.

Adding and removing style sheets and scripts. Adding or removing a content style sheet applies to pages immediately. Adding or removing a content script applies only to pages opened or reloaded after that point. Removing a style sheet or a script that is in the Info.plist file only removes it from the current browser session.

Whitelists and blacklists. A content script or style sheet may specify a blacklist and a whitelist; both are optional. See "The Extension Builder Interface" in *Safari Extensions Development Guide* for a description of the pattern format. The script or style sheet will be applied to a page only in the following cases:

- The whitelist and blacklist are both empty.
- The whitelist is empty, and the page's URL does not match anything on the blacklist.
- The page's URL matches a pattern on the whitelist, and the blacklist is empty.
- The page's URL matches a pattern on the whitelist and it does not match anything on the blacklist.

Tasks

Working with Extensions

bars (page 38)	
All of the extension's bars.	
baseURI (page 39)	
The URI that corresponds to the root of the extension's	bundle.
globalPage (page 39)	
The extension's global page, or null if the extension do	oesn't have a global page.
toolbarItems (page 39)	
All of the extension's toolbar items.	

Adding and Removing Scripts and Style Sheets

addContentScript (page 40) Adds a content script from a string. addContentScriptFromURL (page 40) Adds a content script from a URL. addContentStyleSheet (page 41) Adds a content style sheet from a string. addContentStyleSheetFromURL (page 41) Adds a content style sheet from a URL. removeContentScript (page 42) Removes the specified content script. removeContentScripts (page 42) Removes all content scripts added by this extension. removeContentStyleSheet (page 42) Removes the specified content style sheet. removeContentStyleSheets (page 43) Removes all content style sheets added by this extension.

Storing Settings

Properties

bars

All of the extension's bars.

readonly attribute array bars

Discussion

If there are no bars, the array is empty.

If multiple windows are open, there might be duplicates. Each bar appears separately for every window it appears in. When updating a bar, you should usually update it in every window.

Availability

CHAPTER 11 SafariExtension Class Reference

baseURI

The URI that corresponds to the root of the extension's bundle.

readonly attribute DOMString baseURI

Availability

Available in Safari 5.0 and later.

globalPage

The extension's global page, or null if the extension doesn't have a global page.

readonly attribute SafariExtensionGlobalPage globalPage

Availability

Available in Safari 5.0 and later.

secureSettings

A storage object for the extension's secure settings.

readonly attribute SafariExtensionSecureSettings secureSettings

Discussion

Use settings (page 39) for normal settings.

Availability

Available in Safari 5.0 and later.

settings

A storage object for the extension's normal settings.

readonly attribute SafariExtensionSettings settings

Discussion

Do not store sensitive information with this method, such as passwords or credit card numbers. Use secureSettings (page 39) instead.

Availability

Available in Safari 5.0 and later.

toolbarItems

All of the extension's toolbar items.

readonly attribute array toolbarItems

Discussion If there are no toolbar items, this is an empty array.

SafariExtension Class Reference

If multiple windows are open, there might be duplicates. Each toolbar item appears separately for every window it appears in. When updating a toolbar item, you should usually update it in every window.

Availability

Available in Safari 5.0 and later.

Methods

addContentScript

Adds a content script from a string.

```
DOMString addContentScript (in DOMString source, in array whitelist, in array
blacklist, in boolean runAtEnd);
```

Parameters

source

The source code of the script.

whitelist

A list of patterns matching URLs of pages that the script should be run on.

blacklist

A list of patterns matching URLs of pages that the script should not be run on.

runAtEnd

If true, the script waits until the page is fully loaded before running.

Return Value

If the script was successfully added, a generated URL that can be used to remove the script; otherwise, null.

Discussion

If runAtEnd is true, the script is run as soon as the page has completely finished loading. Otherwise, it is run as soon as the DOM is ready, before loading subresources such as images and the contents of frames, which allows you to block resources from being loaded.

Availability

Available in Safari 5.0 and later.

addContentScriptFromURL

Adds a content script from a URL.

```
DOMString addContentScriptFromURL (in DOMString url, in array whitelist, in array
blacklist, in boolean runAtEnd);
```

Parameters

ur1

The URL of the script.

whitelist

A list of patterns matching URLs of pages that the script should be run on.

SafariExtension Class Reference

blacklist

A list of patterns matching URLs of pages that the script should not be run on.

runAtEnd

If true, the script waits until the page is fully loaded before running.

Return Value

If the script was successfully added, the supplied URL; otherwise, null.

Discussion

If runAtEnd is true, the script is run as soon as the page has completely finished loading. Otherwise, it is run as soon as the DOM is ready, before loading subresources such as images and the contents of frames, which allows you to block resources from being loaded.

Availability

Available in Safari 5.0 and later.

addContentStyleSheet

Adds a content style sheet from a string.

```
DOMString addContentStyleSheet (in DOMString source, in array whitelist, in array
blacklist);
```

Parameters

source

The source code of the style sheet.

whitelist

A list of patterns matching URLs of pages that the script should be applied to.

blacklist

A list of patterns matching URLs of pages that the script should not be applied to.

Return Value

If the style sheet was successfully added, a generated URL that can be used to remove it; otherwise, null.

Discussion

The style sheet behaves like a user-level style sheet. It is loaded after user-level style sheets, so it can override them, as well as overriding page-level style sheets.

Pages that are already loaded are updated to use the style sheet after it is added.

Availability

Available in Safari 5.0 and later.

addContentStyleSheetFromURL

Adds a content style sheet from a URL.

Parameters

ur1

The URL of the style sheet.

CHAPTER 11 SafariExtension Class Reference

whitelist

A list of patterns matching URLs of pages that the script should be applied to.

blacklist

A list of patterns matching URLs of pages that the script should not be applied to.

Return Value

If the style sheet was successfully added, the supplied URL; otherwise, null.

Discussion

The style sheet behaves like a user-level style sheet. It is loaded after user-level style sheets, so it can override them, as well as overriding page-level style sheets.

Pages that are already loaded are updated to use the style sheet after it is added.

Availability

Available in Safari 5.0 and later.

removeContentScript

Removes the specified content script.

void removeContentScript (in DOMString ur1);

Parameters

ur1

The URL of the script being removed.

Discussion

Content scripts specified in the Info.plist are removed only for the current browser session.

Availability

Available in Safari 5.0 and later.

removeContentScripts

Removes all content scripts added by this extension.

```
void removeContentScripts (void);
```

Discussion

Content scripts specified in the Info.plist are removed only for the current browser session.

Availability

Available in Safari 5.0 and later.

removeContentStyleSheet

Removes the specified content style sheet.

```
void removeContentStyleSheet (in DOMString url);
```

SafariExtension Class Reference

Parameters

ur1

The URL of the style sheet being removed.

Discussion

Content style sheets specified in the Info.plist are removed only for the current browser session.

Availability

Available in Safari 5.0 and later.

removeContentStyleSheets

Removes all content style sheets added by this extension.

void removeContentStyleSheets (void);

Discussion

Content style sheets specified in the Info.plist are removed only for the current browser session.

Availability

CHAPTER 11 SafariExtension Class Reference

SafariExtensionBar Class Reference

Inherits from Technology area: Availability SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionBar class represent a bar that your extension provides. An extension can add any number of bars to Safari. Adding bars is optional.

Safari creates a separate instance of the bars from your extensions for every window. Thus, if the user opens multiple Safari windows, there are multiple SafariExtensionBar objects representing the same bar — one in each window. Also, if the user doesn't have any Safari windows open, there are no SafariExtensionBar objects.

To access the array of all bars added by your extension, use the SafariExtension method bars (page 38).

Tasks

Bar Visibility

visible (page 47)

A Boolean value that indicates whether the bar is visible.

hide (page 47)

Hides the bar.

show (page 47) Shows the bar.

Accessing Windows

browserWindow (page 46) The browser window containing the bar. contentWindow (page 46) The DOM window object of the bar.

Identifying Bars

identifier (page 46) The unique identifier of the bar.

label (page 46) The title of the bar.

Properties

browserWindow

The browser window containing the bar.

readonly attribute SafariBrowserWindow browserWindow

Availability Available in Safari 5.0 and later.

contentWindow

The DOM window object of the bar.

readonly attribute DOMWindow contentWindow

Availability Available in Safari 5.0 and later.

identifier

The unique identifier of the bar.

readonly attribute DOMString identifier

Availability Available in Safari 5.0 and later.

label

The title of the bar.

attribute DOMString label

Discussion

Setting an empty string, null, or undefined has no effect.

Availability

CHAPTER 12 SafariExtensionBar Class Reference

visible

A Boolean value that indicates whether the bar is visible.

readonly attribute boolean visible

Availability

Available in Safari 5.0 and later.

Methods

hide

Hides the bar.

void hide (in boolean doNotRemember);

Parameters

doNotRemember

If true, new bars with the same identifier should be also be hidden in the future. Defaults to false.

Discussion

If the bar is already hidden, does nothing.

Availability

Available in Safari 5.0 and later.

show

Shows the bar.

void show (in boolean doNotRemember);

Parameters

doNotRemember

If true, new bars with the same identifier should also be shown. Defaults to false.

Discussion

If the bar is already being shown, does nothing.

Availability

SafariExtensionBar Class Reference

SafariExtensionContextMenu Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionContextMenu class represent a contextual menu that is populated by the extension. Safari displays the contents of this menu as part of its contextual menu.

Each time a contextual menu is about to be displayed, Safari creates a new menu, populated with the default menu items from your extension's Info.plist file. Next, a SafariExtensionContextMenuEvent event is sent, and its listeners add menu items to the menu. Then a SafariExtensionContextMenuItemValidateEvent is sent for each menu item, and its listeners have

the opportunity to prevent items in the context menu from being displayed by marking them as disabled.

Your extension has access only to context menu items that it has added; there is no way to change or count menu items from Safari or other extensions. Therefore, it is important to limit the menu items that your extension adds to a reasonable number, to avoid displaying an unusably long contextual menu.

Tasks

Adding Menu Items

appendContextMenuItem (page 50) Appends a menu item to the contextual menu.

insertContextMenuItem (page 50)
Inserts a menu item at a specific index in the contextual menu.

Accessing Menu Items

contextMenuItems (page 50) Returns a list of the context menu items from this extension.

Properties

contextMenuItems

Returns a list of the context menu items from this extension.

readonly attribute array contextMenuItems

Discussion Only menu items from your extension are returned.

Availability Available in Safari 5.0 and later.

Methods

appendContextMenuItem

Appends a menu item to the contextual menu.

```
SafariExtensionContextMenuItem appendContextMenuItem (in DOMString identifier, in
DOMString title, in DOMString command);
```

Parameters

identifier

The unique identifier of the menu item.

title

The title of the menu item.

command

The command identifier that the context menu item sends when activated. Optional.

Return Value

The context menu item that was appended.

Discussion

If another menu item with the same identifier already exists, it is removed before appending the menu item. If command is not supplied, identifier is used as the command identifier.

Availability

Available in Safari 5.0 and later.

insertContextMenuItem

Inserts a menu item at a specific index in the contextual menu.

SafariExtensionContextMenuItem insertContextMenuItem (in unsigned int *index*, in DOMString *identifier*, in DOMString *title*, in DOMString *command*);

SafariExtensionContextMenu Class Reference

Parameters

index

The index where the menu item is being inserted.

identifier

The unique identifier of the menu item.

title

The title of the menu item.

command

The command identifier that the context menu item sends when activated. Optional.

Return Value

The context menu item that was inserted.

Discussion

If another menu item with the same identifier already exists, it is removed before appending the menu item. If command is not supplied, identifier is used as the command identifier.

Availability

SafariExtensionContextMenu Class Reference

SafariExtensionContextMenuEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionContextMenuEvent class are used to notify listeners when a context menu is about to be displayed.

Each time a contextual menu is about to be displayed, Safari creates a new menu, populated with the default menu items from your extension's Info.plist file. Next, a SafariExtensionContextMenuEvent event is sent, and its listeners add menu items to the menu. Then a SafariExtensionContextMenuItemValidateEvent event is sent for each menu item, and its listeners have the opportunity to prevent items in the context menu from being displayed by marking them as disabled.

The event type for this class is contextmenu.

Tasks

Determining the Context

userInfo (page 54) Information about the current context menu event. contextMenu (page 53) The context menu being built up.

Properties

contextMenu

The context menu being built up.

CHAPTER 14 SafariExtensionContextMenuEvent Class Reference

readonly attribute SafariExtensionContextMenu contextMenu

Availability

Available in Safari 5.0 and later.

userInfo

Information about the current context menu event.

readonly attribute any userInfo

Discussion

From within the web content area, you listen for a DOM context menu event, and then call the setContextMenuEventUserInfo (page 24) method. The value you provide is used as the userInfo property by the SafariExtensionContextMenuEvent and SafariExtensionContextMenuItemValidateEvent events when they are sent.

Availability

SafariExtensionContextMenuItem Class Reference

Inherits from	
Technology area:	
Availability	

SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionContextMenuItem class represent individual menu items within an extension's context menu.

Tasks

Setting Up a Menu Item

command (page 55)
The command identifier that the context menu item sends when activated.
disabled (page 56)
A Boolean value that indicates whether a context menu item is disabled.
identifier (page 56)
The unique identifier of the context menu item.
title (page 56)

The title displayed in the context menu.

Properties

command

The command identifier that the context menu item sends when activated.

attribute DOMString command

Discussion

Setting an empty string, null, or undefined has no effect.

This attribute is optional; the value defaults to the value of identifier.

CHAPTER 15 SafariExtensionContextMenuItem Class Reference

Availability Available in Safari 5.0 and later.

disabled

A Boolean value that indicates whether a context menu item is disabled.

attribute boolean disabled

Discussion Disabled menu items are not displayed in the context menu.

Availability Available in Safari 5.0 and later.

identifier

The unique identifier of the context menu item.

readonly attribute DOMString identifier

Discussion This attribute is required.

Availability Available in Safari 5.0 and later.

title

The title displayed in the context menu.

attribute DOMString title

Discussion This attribute is required.

Setting an empty string, null, or undefined has no effect.

Availability Available in Safari 5.0 and later.

SafariExtensionContextMenuItemCommandEvent Class Reference

Inherits from	
Technology area:	
Availability	

SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionContextMenuItemCommandEvent class are used to send command events from a context menu item.

The event type for this class is command.

Tasks

Getting Context Information

userInfo (page 57) The user info object for this context menu event.

Properties

userInfo

The user info object for this context menu event.

readonly attribute any userInfo

Availability Available in Safari 5.0 and later.

SafariExtensionContextMenuItemCommandEvent Class Reference

SafariExtensionContextMenuItemValidateEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionContextMenuItemValidateEvent class are used to notify listeners when a context menu is about to be displayed.

Each time a contextual menu is about to be displayed, Safari creates a new menu, populated with the default menu items from your extension's Info.plist file. Next, a SafariExtensionContextMenuEvent event is sent, and its listeners add menu items to the menu. Then a SafariExtensionContextMenuItemValidateEvent event is sent for each menu item, and its listeners have the opportunity to prevent items in the context menu from being displayed by marking them as disabled.

The event type for this class is validate.

Tasks

Determining the Context

userInfo (page 59) Information about the current context menu event.

Properties

userInfo

Information about the current context menu event.

SafariExtensionContextMenuItemValidateEvent Class Reference

readonly attribute any userInfo

Discussion

From within the web content area, you listen for a DOM context menu event, and then call the setContextMenuEventUserInfo (page 24) method. The value you provide is used as the userInfo property by the SafariExtensionContextMenuEvent and

SafariExtensionContextMenuItemValidateEvent events when they are sent.

Availability

SafariExtensionGlobalPage Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Safari extensions have a global page, represented by the SafariExtensionGlobalPage class. The global page is loaded once when the extension is loaded, but it is never displayed to the user. It can contain resources such as scripts, images, and HTML content.

The global page is a good place to run scripts that that should be run only once for all of Safari and to store data that is displayed in multiple locations. For example, a stock ticker extension could use a script on its global page fetch and store the stock prices. This makes it easier to keep the user interface consistant by allowing the extension to maintain only one source data; this also uses less memory than making a copy of the data for each window.

Tasks

Accessing the Global Page

contentWindow (page 61) The DOM window object of the extension's global page.

Properties

contentWindow

The DOM window object of the extension's global page.

readonly attribute DOMWindow contentWindow

Availability

SafariExtensionGlobalPage Class Reference

SafariExtensionMessageEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionMessageEvent encapsulate a message being passed. Message passing is the only way to communicate information from inside the web content area to scripts running outside of it, and vice versa.

The event type for this class is message.

Tasks

Working with Messages

name (page 64) The name of the message. message (page 63) The message data.

Properties

message

The message data.

attribute any message

Discussion

This attribute is optional; if you don't need it you can set it to undefined or null, or not set any value.

The data can be any scalar value, or any object that conforms to the W3C standard for safe passing of structured cloned data.

SafariExtensionMessageEvent Class Reference

name

The name of the message.

readonly attribute DOMString name

Discussion

There is no fixed meaning to the name of a message; it is up to the programmer to decide how messages should be named within an extension.

A message's name must not be the empty string. The message name canLoad is used by the SafariContentBrowserTabProxy method canLoad (page 23); you should not send messages with this name.

SafariExtensionSecureSettings Class Reference

Inherits from Technology area: Availability SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariExtensionSecureSettings class provides a place for your extension to securely store settings that should persist between sessions. You interact with it in exactly the same way as you interact with the SafariExtensionSettings class.

Tasks

Reading and Writing Settings

getItem (page 66)
 Returns the current value of a key.
setItem (page 66)
 Sets the value of a key.

Removing Settings

removeItem (page 66) Removes a key.

clear (page 65) Removes all key-value pairs.

Methods

clear

Removes all key-value pairs.

void clear (void);

SafariExtensionSecureSettings Class Reference

Discussion

If there is nothing to remove, this method does nothing.

On success, this method dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

Available in Safari 5.0 and later.

getItem

Returns the current value of a key.

any getItem (in DOMString key);

Parameters

key

The key whose value is being returned.

Return Value If the key exists, its current value; otherwise, null.

Availability Available in Safari 5.0 and later.

removeltem

Removes a key.

void removeItem (in DOMString key);

Parameters

key

The key being removed.

Discussion

If there is no value with the given key, this method does nothing.

On success, this method dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

Available in Safari 5.0 and later.

setItem

Sets the value of a key.

voidsetItem (in DOMString key, in any value);

Parameters

key

The key whose value is being set.

SafariExtensionSecureSettings Class Reference

value

The value being set.

Discussion

The behavior of this method is undefined if value cannot be serialized to a JSON value.

On success, this method dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

SafariExtensionSecureSettings Class Reference

SafariExtensionSettings Class Reference

Inherits from Technology area: Availability SafariEventTarget

Safari Extensions Available in Safari 5.0 and later.

Overview

The SafariExtensionsSettings class provides a place for your extension to store settings that should persist between sessions.

Important: Use SafariExtensionSecureSettings to store sensitive settings, such as passwords or credit card numbers.

You can access settings using the provided methods or using JavaScript's built-in syntax, as follows:

```
// Get a value.
safari.extension.settings.someProperty
safari.extension.settings["someProperty"]
safari.extension.settings.getItem("someProperty")
// Set a value.
safari.extension.settings["someProperty"] = 42;
safari.extension.settings.setItem("someProperty", 42");
// Delete a value.
delete safari.extension.someProperty;
delete safari.extension["someProperty"];
safari.extension.removeItem("someProperty");
```

Note that there is a minor difference for properties that don't exist: JavaScript's build-in syntax returns undefined, but the getItem method returns null.

Tasks

Reading and Writing Settings

getItem (page 70) Returns the current value of a key. setItem (page 71) Sets the value of a key.

Removing Settings

removeItem (page 70) Removes a key. clear (page 70) Removes all key-value pairs.

Methods

clear

Removes all key-value pairs.

void clear (void);

Discussion

If there is nothing to remove, this method does nothing.

On success, dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

Available in Safari 5.0 and later.

getItem

Returns the current value of a key.

any getItem (in DOMString key);

Parameters

key

The key whose value is being returned.

Return Value

If the key exists, its current value; otherwise, null.

Availability

Available in Safari 5.0 and later.

removeltem

Removes a key.

```
void removeItem (in DOMString key);
```

SafariExtensionSettings Class Reference

Parameters

key

The key being removed.

Discussion

If there is no value with the given key, this method does nothing.

On success, this method dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

Available in Safari 5.0 and later.

setItem

Sets the value of a key.

void setItem (in DOMString key, in any value);

Parameters

key

The key whose value is being set.

value

The value being set.

Discussion

The behavior of this method is undefined if value cannot be serialized to a JSON value.

On success, this method dispatches a SafariExtensionSettingsChangeEvent event describing the change.

Availability

SafariExtensionSettings Class Reference

SafariExtensionSettingsChangeEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionsSettingsChangeEvent class are used to provide a description of a change made to the extension's settings. A settings change event is sent when your extension changes a setting as well as when a setting is changed outside your extension (for example, a setting changed in the Safari preferences).

These events do not bubble; their target is the settings or secure settings object that changed.

The event type for this class is change.

Note: Take special care to leave the settings unchanged while handling to a settings-change event. Otherwise you can create an infinite loop, in which each settings-change event triggers another settings-change event.

Tasks

Getting Information About Changes to Settings

key (page 74)

The key identifier of the setting that was changed.

newValue (page 74)

The value after the settings change.

oldValue (page 74) The value before the settings change.

Properties

key

The key identifier of the setting that was changed.

readonly attribute DOMString key

Discussion If all of the settings have been removed, this value is null.

Availability Available in Safari 5.0 and later.

newValue

The value after the settings change.

readonly attribute any newValue

Discussion

If the key was removed or all settings have been removed, this value is null.

Availability

Available in Safari 5.0 and later.

oldValue

The value before the settings change.

readonly attribute any oldValue

Discussion

If the key was added or all settings have been removed, this value is null.

Availability

SafariExtensionToolbarltem Class Reference

Inherits from

SafariEventTarget

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariExtensionToolbarItem represent items that your extension adds to the Safari toolbar. Users can select which toolbar items are shown by selecting Customize Toolbar in the same way they can add and remove toolbar items that are provided by Safari.

Tasks

Setting Up the Appearance

badge (page 76) The current badge number. image (page 77)

The current image URL.

- label (page 77)
 The label of the toolbar item, as shown in the toolbar's overflow menu.
 paletteLabel (page 77)
 The label of the toolbar item, as shown in the Customize palette.
- toolTip (page 78)

The tooltip (help tag) of the toolbar item.

Handling Click Events

browserWindow (page 76) The containing browser window. command (page 76) The command identifier that the toolbar item sends when it is clicked. disabled (page 76) A Boolean value that indicates whether the toolbar item is disabled.

SafariExtensionToolbarItem Class Reference

identifier (page 77)

The unique identifier of the toolbar item.

validate (page 78)

Dispatches a validate event for this toolbar item.

Properties

badge

The current badge number.

attribute long badge

Discussion

The default value is 0, which hides the badge. If you set a value that is too long, the beginning and end of the value will be shown with an ellipsis in the middle.

Setting a value of NaN or Infinity is treated as 0. Non-integer values are rounded to the nearest integer.

Availability

Available in Safari 5.0 and later.

browserWindow

The containing browser window.

readonly attribute SafariBrowserWindow browserWindow

Availability

Available in Safari 5.0 and later.

command

The command identifier that the toolbar item sends when it is clicked.

attribute DOMString command

Discussion

This attribute is optional; its value defaults to the value of identifier.

Setting a value of null, undefined, or the empty string has no effect.

Availability

Available in Safari 5.0 and later.

disabled

A Boolean value that indicates whether the toolbar item is disabled.

SafariExtensionToolbarItem Class Reference

attribute boolean disabled

Discussion

The default value is false. Nothing happens when the user tries to interact with a toolbar item that is disabled.

Availability

Available in Safari 5.0 and later.

identifier

The unique identifier of the toolbar item.

readonly attribute DOMString identifier

Discussion This attribute is required.

Availability Available in Safari 5.0 and later.

image

The current image URL.

attribute DOMString image

Discussion

This attribute can be changed to the URL of an image in the extension bundle. Setting a value of null, undefined, or the empty string has no effect.

Availability

Available in Safari 5.0 and later.

label

The label of the toolbar item, as shown in the toolbar's overflow menu.

attribute DOMString label

Discussion

This attribute is required. Setting a value of null, undefined, or the empty string has no effect.

Availability

Available in Safari 5.0 and later.

paletteLabel

The label of the toolbar item, as shown in the Customize palette.

SafariExtensionToolbarItem Class Reference

readonly attribute DOMString paletteLabel

Discussion

This attribute is optional; its value defaults to the value of label.

Availability

Available in Safari 5.0 and later.

toolTip

The tooltip (help tag) of the toolbar item.

attribute DOMString toolTip

Discussion

This attribute is optional; its value defaults to the value of label.

Setting a value of null, undefined, or the empty string has no effect.

Availability

Available in Safari 5.0 and later.

Methods

validate

Dispatches a validate event for this toolbar item.

void validate (void);

Discussion

You should call this method after a state change occurs that is relevant to your validate-event listeners. Safari also automatically sends validate events for many common browser actions, such as switching tabs and navigating to a new page.

Availability

SafariNamespace Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

The Safari Namespace class is a namespace that provides access to the Safari Extensions functionality outside of the web content area.

The corresponding class, SafariContentNamespace, is used from inside a web content area.

Tasks

Accessing Functionality

application (page 79) The Safari application.

extension (page 80)

The current Safari extension.

self (page 80)

The SafariExtensionGlobalPage or SafariExtensionBar object that owns the DOM window that this instance of the SafariNamespace class was accessed from.

Properties

application

The Safari application.

readonly attribute SafariApplication application

Availability

CHAPTER 24 SafariNamespace Class Reference

extension

The current Safari extension.

readonly attribute SafariExtension extension

Availability

Available in Safari 5.0 and later.

self

The SafariExtensionGlobalPage or SafariExtensionBar object that owns the DOM window that this instance of the SafariNamespace class was accessed from.

readonly attribute any self

Discussion

For example, the following is always true:

window.safari.self.contentWindow === window;

Availability Available in Safari 5.0 and later.

SafariValidateEvent Class Reference

Inherits from Technology area: Availability SafariEvent

Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariValidateEvent class encapsulate a validate event. User interface elements such as contextual menu items and toolbar buttons send a validate event when they are about to display. You can prevent the element from displaying by listening for validate events and marking the element as disabled.

The event type for this class is validate.

Tasks

Working with Validation Events

command (page 81) The command identifier of the target being validated.

Properties

command

The command identifier of the target being validated.

readonly attribute DOMString command

Availability

SafariValidateEvent Class Reference

SafariWebPageProxy Class Reference

Technology area: Availability Safari Extensions Available in Safari 5.0 and later.

Overview

Instances of the SafariWebPageProxy class serve as a proxy objects, allowing objects outside of the web content to communicate with the SafariContentWebPage object.

The counterpart class, SafariContentBrowserTabProxy, is used to pass messages from the web content to objects outside of the web content.

Tasks

Dispatching Messages

dispatchMessage (page 83) Dispatches a message to the web content area.

Methods

dispatchMessage

Dispatches a message to the web content area.

void dispatchMessage (in DOMString name, in any message);

Parameters

name

The name of the message.

message

The body of the message. Optional.

Availability

SafariWebPageProxy Class Reference