Extending Fireworks

macromedia

Acknowledgments

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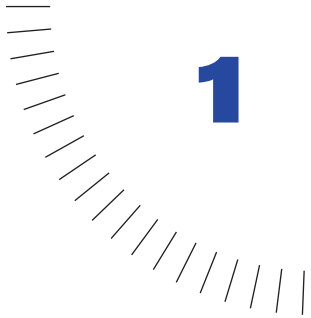


CHAPTER 1
Extending Fireworks Overview

To extend Fireworks, you must write JavaScript code. You can use JavaScript to write your own objects, behavior actions, and commands that affect Fireworks documents and the elements within them. To accomplish these tasks, you must be proficient in JavaScript and in Fireworks.

This manual describes the Fireworks Object Model and the Fireworks JavaScript apllication programming interface (API)—the custom JavaScript functions that are built into Fireworks.

Prerequisites

Because Fireworks extensions must be written in JavaScript, this manual assumes that readers are familiar with JavaScript syntax and with basic programming concepts such as functions, arguments, and data types. It also assumes that readers understand the concept of working with objects and properties. This manual does not attempt to teach programming in general or JavaScript in particular.

Anyone who wants to extend Fireworks should have a good JavaScript reference to help with syntax questions (for example, is it substring() or subString()?). Useful JavaScript references include *JavaScript Bible* by Danny Goodman (IDG), *JavaScript: The Definitive Guide* by David Flanagan (O'Reilly), and *Pure JavaScript* by R. Allen Wyke, Jason D. Gilliam, and Charlton Ting (Sams). For a free JavaScript reference, see Netscape's DevEdge Online Web site at http://developer.netscape.com:80/docs/manuals/javascript.html.

Formatting nonstandard data types

In addition to the standard data types that can be passed to functions as arguments, such as integer, string, and so on, Fireworks accepts other data types for certain functions.

- Some functions take values that are Fireworks objects. These objects are explained in "The Fireworks Object Model" on page 9.
- Some functions take a string in a specific format. Others take value types that are not Fireworks objects but are JavaScript object types specific to Fireworks. These types of arguments are described next, in alphabetical order.

Color string

Functions that take colors as arguments use the HTML syntax of "#rrggbb". You can specify a color with an alpha (transparency) component by passing a longer string of the form "#rrggbbaa".

Mask

The format for mask is {*maskBounds:* rectangle, *maskKind:* string, *maskEdgeMode:* string, *featherAmount:* int, *maskData:* hex-string}.

- *maskBounds* specifies the bounding rectangle of the mask area.
- Acceptable values for *maskKind* are "rectangle", "oval", "zlib compressed", "rle compressed", or "uncompressed".
- If *maskKind* is "*rectangle*" or "oval", the *maskData* string is ignored, and a mask of the right shape is constructed that fills *maskBounds* and that has the edge specified by *maskEdgeMode* and *featherAmount*.
- If *maskKind* is "zlib compressed", "rle compressed", or "uncompressed", the *maskData* string is presumed to contain 8-bit mask data in hexadecimal format that precisely matches the *maskBounds* to define the mask.

Matrix

The format for a matrix is {*matrix:* [float, float, float, float, float, float, float, float, float]}. This manual assumes that you know how to use these nine values to construct a three-by-three transformation matrix; discussion of the construction of transformation matrices is beyond the scope of this manual.

Point

The format for a point is {*x:* float, *y:* float}. For example, dom.addNewLine(*startPoint, endPoint*) could look this this:

```
fw.getDocumentDOM().addNewLine({x:64.5, y:279.5}, {x:393.5, y:421.5});
```

Rectangle

The format for a rectangle is {*left:* float, *top:* float, *right:* float, *bottom:* float}. For example, dom.addNewOval(*boundingRectangle*) could look like this:

```
fw.getDocumentDOM().addNewOval({left:72, top:79, right:236, bottom:228});
```

Resolution

The format for resolution is {*pixelsPerUnit:* float, *units:* string}. Acceptable values for units are "inch" or "cm". For example, dom.setDocumentResolution*(resolution)* could look like this:

```
fw.getDocumentDOM().setDocumentResolution({pixelsPerUnit:72, units:"inch"});
```

CHAPTER 2
The Fireworks Object Model

If you want to extend Fireworks by writing or modifying a JavaScript extensibility file, you must become familiar with the objects that Fireworks makes accessible through JavaScript. The following components together make up the Fireworks Object Model:

- Five global methods that are available from any part of the application and need not be declared as methods of a particular object. These are described in "Global methods" on page 12.
- Four core objects: Document, Errors, Files, and Find. These objects and their properties and methods are described in detail in "Core objects" on page 12. (The App object, used in Fireworks 3, is supported for backward compatibility, but its use is deprecated in favor of the Fireworks object.)
- The Fireworks object, described in "The Fireworks object" on page 23.
- Numerous objects associated with Fireworks documents, such as ExportOptions, Guides, Path, Image, and Text. These objects and their properties are described in "Objects within Fireworks documents" on page 27.
- A set of objects that you can use to specify the format of HTML source code to use when exporting from Fireworks. These are described in "HTML export objects" on page 57.

How to use the Fireworks Object Model

You send calls to the Fireworks Object Model to determine or change the current settings for a Fireworks document. For example, the following command returns the path to the Export Settings directory, expressed as a file:// URL; fw references the Fireworks global object, of which appExportSettingsDir is a property (see "The Fireworks object" on page 23).

```
var expSetDir = fw.appExportSettingsDir;
```

Accessing a Fireworks document

All of the functions listed in "Document functions" on page 68 are methods of Document object, which is an object that represents a Fireworks document. To perform a function on a Document object, you must first get the Document Object Model, or DOM, of the document. You then call the functions as methods of that DOM.

Note: You can use methods that operate on a document's DOM only on open documents.

- To use a DOM function with a document other than the active document, use the following syntax; note that *documentIndex* is a zero-based integer that specifies which document the command will affect.

  fw.documents[*documentIndex*].functionName();

- To use a DOM function with the active document, use fw.getDocumentDOM().functionName(), described next.

fw.getDocumentDOM()

Availability Fireworks 3.0

Description Returns the Document object for the active document (see "Document" on page 13). After the object is returned, you can edit its properties to make changes to the document.

Arguments None.

Returns A Document object that represents the DOM of the active document. If there is no active document, returns null.

Passing values

For all properties that are not read-only, you can pass values to change elements of a document. For example, the following command sets the fifth brush in the third open document to a square shape:

```
fw.documents[2].brushes[4].shape = "square";
```

The preceding example includes the following properties:

- documents is a property of the Fireworks object and contains an array of Document objects.
- brushes is a property of the Document object and contains an array of Brush objects.
- shape is a property of the Brush object.

Note: Throughout this manual, optional arguments are enclosed in {braces}.

Fireworks Object Model calls or API calls?

In some cases, you can use Fireworks Object Model calls or API calls to perform the same functions. In other cases, a certain function may be available in either the Fireworks Object Model or the API, but not in both.

For example, if the first open document is the current document, the first code snippet below has the same effect as the two code snippets that follow it. (As explained in "Accessing a Fireworks document" on page 10, fw.getDocumentDOM() references the current document.)

```
fw.getDocumentDOM().setDocumentResolution({pixelsPerUnit:72, units:"inch"});
fw.documents[0].resolution =72;
fw.documents[0].resolutionUnits ="inch";
```

Global methods

The following table lists the global Fireworks methods, along with their data types and, where appropriate, acceptable values and notes.

Method	Data type	Notes
alert(*message*)	string	Displays a string in a modal alert box, along with an OK button. Returns nothing.
confirm(*message*)	string	Displays a string in a modal alert box, along with OK and Cancel buttons. Returns true if OK is clicked, false if Cancel is clicked.
prompt(*caption*, *text*)	string, string	Prompts the user (with the string specified by *text*) to enter a string in a modal dialog box; the dialog box is titled with the string specified by *caption*. Returns the string entered if OK is clicked, null if Cancel is clicked.
write(*arg1*, *arg2*, ..., *argN*)	strings	Same as WRITE_HTML. WRITE_HTML was created to let you differentiate HTML output calls from other JavaScript calls in your code.
WRITE_HTML(*arg1*, *arg2*, ..., *argN*)	strings	Available only when exporting. Converts each argument to a string and writes it to the HTML output file. To enter an end-of-line character, use "\n"; this is converted to the correct line ending for the platform you are using. For more information, see "HTML export objects" on page 57.

Core objects

This section describes the four core objects that are always available: Document, Errors, Files, and Find.

Note: For information on how to format nonstandard data types, such as rectangle or point, see "Formatting nonstandard data types" on page 6.

Document

The following table lists the properties and methods of the Document object, along with their data types and, where appropriate, acceptable values and notes. Read-only properties are marked with a bullet (•). You can also use many API calls to work with documents. For more information, see "Document functions" on page 68.

Property	Data type	Notes
backgroundColor	string	A color string specifying the document canvas color (see "Color string" on page 6).
brushes •	array	Array of Brush objects available for use in the document (see "Brush" on page 28).
currentFrameNum	zero-based integer	The index of the current frame.
currentLayerNum	zero-based integer	The index of the current layer.
defaultAltText	string	Default Alt text for the output images. It works for single and sliced images. Sliced images all get the default, unless specific text is specified for a slice. Corresponds to the text specified in File > HTML Properties > ImageMap > AltImageDescription.
exportFormatOptions	object	Identical to exportOptions (below). Included for backward compatibility with Fireworks 2.
exportOptions	object	ExportOptions object (see "ExportOptions" on page 41).
exportSettings	object	ExportSettings object (see "ExportSettings" on page 44).
filePathForRevert	string	The path to the file from which this document was opened, expressed as a file:// URL, or null if created from scratch.
filePathForSave	string	The location to which this document was saved, expressed as a file:// URL, or null if never saved.
fills •	array	Array of Fill objects available for use in the document (see "Fill" on page 46).
frameCount	integer	The number of frames in the current document.

Property	Data type	Notes
frameLoopingCount	integer	–1 — don't repeat 0 — repeat forever > 0 — repeat this number of times
frames •	array	Array of Frame objects in the document (see "Frame" on page 47).
gammaPreview	boolean	If true, the document should be previewed in opposite-platform gamma. If false, the document colors are unadjusted.
gradients •	array	Array of Gradient objects available for use in the document (see "Gradient" on page 48).
gridColor	string	A color string specifying the color of the grid display (see "Color string" on page 6).
gridOrigin	point	Used to set the origin of the grid. Corresponds to the point set when dragging the ruler-origin out from the upper left of the document when rulers are visible.
gridSize	point	gridSize.x is the horizontal grid size; gridSize.y is the vertical grid size.
guides •	object	Guides object (see "Guides" on page 49).
height	integer	Total height of the document, in pixels. To find the bottom edge of the document, use document.top + document.height.
isDirty	boolean	true if the document was modified since the last time it was saved.
isPaintMode •	boolean	true if the document is currently in paint-mode editing, false otherwise.
isSymbolDocument •	boolean	true if the document is a Symbol or Button document, false if it is a normal document. You may see this when walking through the list of open documents and one is a symbol-editing window.

Property	Data type	Notes
isValid	boolean	true if the document is open in Fireworks, false otherwise. (Occasionally the JavaScript object associated with a document lingers after the document is closed; this property lets you check for that case.)
lastExportDirectory	string	The path to the last directory to which the file was exported, expressed as a file:// URL, or null if the file was never exported. For instance, if the document was last exported to "file:///files/current/logo.gif", returns "file:///files/current".
lastExportFile	string	The name used the last time the file was exported, or null if the file was never exported. For instance, if the document was last exported to "file:///files/current/logo.gif", returns "logo.gif".
layers •	array	An array of Layer objects in the document (see "Layer" on page 50).
left	integer	Coordinate of the left edge of the document, in pixels. To find the right edge of the document, use document.left + document.width.
mapType	string	Acceptable values are "client", "server", and "both". Corresponds to the imagemap type selected in File > HTML Properties > ImageMap.
matteColor	string	A color string that corresponds to the matte color specified in the "Optimize" panel (see "Color string" on page 6). Is used by the useMatteColor property.
onionSkinAfter	integer	Number of frames after the current frame to show via onion skinning. Corresponds to the onion-skin controls in the left edge of the Frames panel. A value of 0 indicates no onion skinning; a very large value (such as 99999) indicates onion skinning of all frames after the current frame.
onionSkinBefore	integer	Similar to onionSkinAfter (above), but refers to number of frames to onion skin before the current frame.

Property	Data type	Notes
pathAttributes	object	PathAttrs object (see "PathAttrs" on page 51). This object specifies default attributes—those that will be applied to all newly created objects.
pngText	object	A structure that can be used to store various chunks of text in a well-known format. For more information, see "Using the pngText object" on page 17.
resolution	float	Document resolution, in pixels-per-unit (see resolutionUnits, below). The range is 1 to 5000.
resolutionUnits	string	The units to be used with the resolution property, above. Acceptable values are "inch" and "cm".
textures •	array	Array of Texture objects available for use in the document (see "Texture" on page 57).
top	integer	Coordinate of the top edge of the document, in pixels. To find the bottom edge of the document, use document.top + document.height.
useMatteColor	boolean	If true, the matteColor property is used when exporting documents with transparent backgrounds. If false, the matteColor property is ignored in this situation, and the exported file is matted against the document's canvas color.
width	integer	The width of the document, in pixels. To find the right edge of the document, use document.left + document.width.

Using the pngText object

Fireworks maintains the following fields for use with the pngText object:

Field name	Value
CreationTime	The date and time the document was created.
Software	The software used to create the document. Fireworks always sets this to "Macromedia Fireworks 4.0".

You can edit these or add your own fields, and they will be preserved across file saves.

The pngText object corresponds directly to the 'tEXt' chunk of the document's PNG structure; for more information, see the PNG file format spec at http://www.cdrom.com/pub/png/spec/.

Errors

All Errors properties are read-only strings used to make localization of scripts easier. They return localized error messages appropriate to the error in question. For example, the English version of Fireworks returns "Memory is full." for the EOutOfMem property.

Below is an alphabetical list of the properties of the Errors object:

EAppAlreadyRunning, EAppNotSerialized, EArrayIndexOutOfBounds, EBadFileContents, EBadJsVersion, EBadNesting, EBadParam, EBadParamType, EBadSelection, EBufferTooSmall, ECharConversionFailed, EDatabaseError, EDeletingLastMasterChild, EDiskFull, EDuplicateFileName, EFileIsReadOnly, EFileNotFound, EGenericErrorOccurred, EGroupDepth, EIllegalThreadAccess, EInternalError, ELowOnMem, ENoActiveDocument, ENoFilesSelected, ENoNestedMastersOrAliases, ENoNestedPasting, ENoSliceableElems, ENoSuchElement, ENotImplemented, ENotMyType, EOutOfMem, EResourceNotFound, ESharingViolation, EUnknownReaderFormat, EUserCanceled, EUserInterrupted, EWrongType

Files

The following table lists the methods of the Files object, along with their data types and, where appropriate, acceptable values and notes.

Method	Data type	Notes
close()	none	Closes the file referred to by this Files object. You are not required to call this (the file is closed when the Files object is destroyed), but it is useful for controlling the access to a file.
copy(*docname1*, *docname2*)	string, string	Copies the file specified in the first argument to the file specified in the second argument. Each argument must be expressed as a file:// URL. Only files (not directories) may be copied. The files need not reside on the same drive, and the method does not overwrite a file if it already exists. Returns true if the copy is successful, false otherwise.
createDirectory(*dirname*)	string	Creates the specified directory. Returns true if successful, false otherwise.
createFile(*fileURL*, {*macType* {,*macCreator*}})	string, string, string	Creates the specified file. The file must not already exist. The first argument is the name of the file expressed as a file:// URL. The last two optional arguments let you specify the Macintosh file type and file creator fields. If used, the *macType* and *macCreator* strings should each be strings of exactly four characters in length.
deleteFile(*docOrDir*)	string	Deletes the specified file or directory. Returns true if successful, false if the file or directory does not exist or cannot be deleted. Compare with deleteFileIfExisting(), next.
deleteFileIfExisting (*docOrDir*)	string	Deletes the specified file or directory. Returns true if successful, false if the file or directory cannot be deleted. Unlike deleteFile(), this method returns true if the file or directory does not exist.
enumFiles(*docOrDir*)	string	Returns an array of file URLs. If *docOrDir* is a directory, the array contains an entry for every file or directory contained in the specified directory. If *docOrDir* is a file, the array contains a single entry (the file passed in).
exists(*docOrDir*)	string	Returns true if *docOrDir* refers to a directory or file that exists; false otherwise.

Method	Data type	Notes
getDirectory(*docname*)	string	Returns just the directory name from *docname*, which must be expressed as a file:// URL. For example, Files.getDirectory("file:///work/logo.png") returns "file:///work".
getExtension(*docname*)	string	Returns the file name extension, if any, of *docname*. For example, Files.getExtension("birthday.png") returns ".png". If the file name has no extension, an empty string is returned. A file name expressed as a file:// URL is acceptable here.
getFilename(*docname*)	string	Returns just the file name from *docname*, which must be expressed as a file:// URL. For example, Files.getFilename("file:///work/logo.png") returns "logo.png".
getLastErrorString()	none	If the last call to a method in a Files object resulted in an error, returns a string describing the error. If the last call succeeded, returns null.
getTempFilePath ({*dirname*})	string	The argument, if used, must be expressed as a file:// URL. Returns a file URL in the Temporary Files directory or in the specified directory. This method does not create a file; it simply returns a unique file URL that does not conflict with existing files in the directory. If *dirname* is passed and is not null, the URL returned indicates a file in the specified directory rather than in the Temporary Files directory.
isDirectory(*dirname*)	string	The argument must be expressed as a file:// URL. Returns true if the specified URL refers to a directory that exists; false otherwise.
makePathFromDirAndFile (*dirname, plainFilename*)	string, string	The first argument must be expressed as a file:// URL. Concatenates the two arguments to return a file URL that references the specified file name in the specified directory. For example, Files.makePathFromDirAndFile("file:///work/reports", "logo.png") returns "file:///work/reports/logo.png".
open(*docname, bWrite*)	string, boolean	The first argument must be expressed as a file:// URL. Opens the specified file for reading or writing. If the second argument is true, the file is opened for writing; otherwise it is opened for reading. If the file cannot be opened, null is returned; otherwise a Files object is returned.

Method	Data type	Notes
readline()	none	Reads the next line from the file referred to by the current Files object and returns it as a string. The end-of-line character(s) are not included in the string. Returns null if end-of-file is reached or if the line is more than 2048 characters long.
rename(*docname, newPlainFilename*)	string, string	The first argument must be expressed as a file:// URL. Renames *docname* on disk. For example, Files.rename("file:///work/logo.png", "oldlogo.png") renames "file:///work/logo.png" to "file:///work/oldlogo.png". Returns true if the rename is successful, false otherwise.
setFilename(*docname, newPlainFilename*)	string, string	The first argument must be expressed as a file:// URL. Returns a file URL with *docname* replaced by *newPlainFilename*. For example, Files.setFilename("file:///work/logo.png", "oldlogo.png") returns "file:///work/oldlogo.png". This method does not affect the file on disk; it simply provides a convenient way to manipulate file URLs. To change the name on disk, use rename().
swap(*docname1, docname2*)	string, string	Each argument must be expressed as a file:// URL. Swaps the contents of the two specified files, so that each file contains the contents of the other file. Only files (not directories) may be swapped, and both files must reside on the same drive. Returns true if the swap is successful, false otherwise.
write(*textString*)	string	Writes the specified string to the file referred to by the current Files object. No end-of-line characters are appended; to include one, use "\n".

Find

There are several different ways a Find object can be specified, depending on what you want to find and replace. Use the whatToFind property to specify the type of find operation, along with the properties associated with each legal value for whatToFind. These properties are listed in the following tables. Read-only properties are marked with a bullet (•).

To find and replace text

Property	Data type	Notes
whatToFind	string	"text"
find	string	Text to find.
matchCase	boolean	If true, the search is case-sensitive. Defaults to false.
regExp	boolean	If true, the find and replace text is interpreted as a Regular Expression. Defaults to false.
replace	string	Text to use as replacement text.
wholeWord	boolean	If true, only whole words matching the search text will be found. Defaults to false.

To find and replace fonts and styles

Property	Data type	Notes
whatToFind	string	"font"
find	string	Name of font to find.
replace	string	Name of font to use as replacement.
findStyle	integer	Number that represents the style to find: AnyStyle = -1 Plain = 0 Bold = 1 Italic = 2 BoldItalic = 3 Underline = 4 BoldUnderline = 5 ItalicUnderline = 6 BoldItalicUnderline = 7
replaceStyle	integer	Number that represents the style to be used as replacement.
findMinSize	integer	0 to 9999
findMaxSize	integer	0 to 9999
replaceSize	integer	0 to 9999, or pass -1 to leave size as is

To find and replace colors, fills, strokes, and effects

Property	Data type	Notes
whatToFind	string	"color"
find	string	A color string specifying the color to find (see “Color string” on page 6).
replace	string	A color string specifying the color to use as replacement (see “Color string” on page 6).
fills	boolean	If true, fills that match the specified colors are replaced.
strokes	boolean	If true, strokes that match the specified colors are replaced.
effects	boolean	If true, effects that match the specified colors are replaced.

To find and replace URLs

Property	Data type	Notes
whatToFind	string	"url"
find	string	URL to find, expressed as a file:// URL.
replace	string	URL to use as replacement text, expressed as a file:// URL.
wholeWord	boolean	If true, only whole words matching the search text will be found. Defaults to false.
matchCase	boolean	If true, the search is case-sensitive. Defaults to false.
regExp	boolean	If true, the find and replace text is interpreted as a Regular Expression. Defaults to false.

To find and replace non-websafe colors with the closest websafe color

Property	Data type	Notes
whatToFind	string	"nonwebcolor"
effects	boolean	If true, colors in effects are replaced. Default value is false.
fills	boolean	If true, colors in fills are replaced. Default value is false.
strokes	boolean	If true, colors in strokes are replaced. Default value is false.

The Fireworks object

The Fireworks object is the global object, which you can use to set or retrieve properties relating to the current operating environment. (The App object, used in Fireworks 3, is supported for backward compatibility, but its use is deprecated in favor of the Fireworks object.)

The following table lists the properties and methods of the Fireworks object, along with their data types and, where appropriate, acceptable values and notes. Read-only properties are marked with a bullet (•).

Note: For information on how to format nonstandard data types, such as rectangle or point, see "Formatting nonstandard data types" on page 6.

Refer to the Fireworks object by using fw.propertyName or fireworks.propertyName. Note that fireworks must be lowercase.

Property or Method	Data type	Notes
appBatchCodeDir •	string	The path to the Batch Code directory, expressed as a file:// URL.
appDir •	string	The path to the directory containing the Fireworks application, expressed as a file:// URL.
appExportSettingsDir •	string	The path to the Export Settings directory, expressed as a file:// URL.
appFavoritesDir •	string	The path to the URL Libraries directory, expressed as a file:// URL.
appHelpDir •	string	The path to the directory containing the Fireworks Help File, expressed as a file:// URL.

Property or Method	Data type	Notes
appHtmlCodeDir •	string	The path to the HTML Code directory, expressed as a file:// URL.
appJsCommandsDir •	string	The path to the Commands directory, expressed as a file:// URL.
appJsExtensionsDir •	string	The path to the JSExtensions directory, expressed as a file:// URL.
appMacCreator •	string	"MKBY"
appMacJsfFileType •	string	"TEXT"
appPatternsDir •	string	The path to the Patterns directory, expressed as a file:// URL.
appPresetsDir •	string	The path to the Presets directory, expressed as a file:// URL.
appSettingsDir •	string	The path to the Settings directory, expressed as a file:// URL.
appStylesDir •	string	The path to the Styles directory, expressed as a file:// URL.
appSymbolLibrariesDir •	string	The path to the Libraries directory, expressed as a file:// URL.
appTexturesDir •	string	The path to the Textures directory, expressed as a file:// URL.
appXtrasDir •	string	The path to the Xtras directory, expressed as a file:// URL.
batchStatusString	string	The string currently displayed in the Batch Progress dialog box. Set this property to change the string being displayed. Use with progressCountCurrent and progressCountTotal.
chooseScriptTarget Dialog(*formatlist*)	string	Displays a dialog box that lets the user choose the target document(s) for an operation. This dialog box lets you specify the files currently open, the files in the project list, or the files explicitly selected by the user. The argument and return value are similar to locateDocDialog(), except that *formatlist* is a string rather than an array, and you cannot specify a maximum number of documents.
dismissBatchDialog WhenDone	boolean	If true, the Batch Progress dialog box closes automatically (without user intervention) when the script finishes running. Has no effect if the Batch Progress dialog box is not displayed.

Property or Method	Data type	Notes
dismissBatchDialog WhenDone	boolean	Largely obsolete, used for backward compatibility with Fireworks 2.
documentList •	array	Array of the current open Document objects (see "Document" on page 13). If no document is open, it returns an array of length zero.
documents •	array	Array of the current open Document objects (see "Document" on page 13). If no document is open, returns an array of length zero.
findOpenDocument (*docname*)	string	The argument specifies the name of the document, expressed as a file:// URL. Checks whether Fireworks already has *docname* open in a document window. If it does, returns that Document object; otherwise returns null.
getPref(*prefkey*)	string	Returns the preference value (string or numeric) associated with the specified preference key. A complete list of these values is beyond the scope of this manual, but the format of *prefkey* exactly matches that in the Fireworks Preferences file. To set a preference value, use setPref().
historyPalette •	object	History panel object. There are no DOM properties for the History panel, only API calls. For more information, see "History panel functions" on page 155.
locateDocDialog (*maxnumdocs, formatArray*)	integer, array	Displays a dialog box that lets the user choose one or more files. *maxnumdocs* is the maximum number of documents to be chosen; *formatArray* is an array of acceptable file types to open. The return value is an array of file:// URLs, or null if the dialog box is canceled. For syntax details, see "Using fw.locateDocDialog()" on page 27.
platform •	string	The string "mac" if Fireworks is running on the Macintosh, and "win" if running in Windows.
progressCountCurrent	integer	The first number (x) displayed in the Batch Progress dialog box, in the "File x of y" field. Set this property to change the number being displayed.
progressCountTotal	integer	The second number (y) displayed in the Batch Progress dialog box, in the "File x of y" field. Set this property to change the number being displayed.

Property or Method	Data type	Notes
quit()	none	Quits Fireworks. Prompts to save files that have changed since the last time they were saved. Returns nothing.
screenRect •	rectangle	The size of the main screen on this computer, in pixels. Useful for positioning windows or panels.
selection	array	Array of the selected objects in the active document. If nothing is selected. returns an array of length zero. If no document is open, returns null.
setPref(*prefkey*, *prefval*)	string, string	Sets the value associated with the specified preference key. A complete list of these values is beyond the scope of this manual, but the format of *prefkey* and *prefval* exactly matches those in the Fireworks Preferences file. Returns nothing; to return the value associated with a preference key, use getPref().
styles •	array	Array of the Style object currently loaded in the Style panel (see "Style" on page 54).

Using fw.locateDocDialog()

The *formatArray* argument of the locateDocDialog() method is an array of strings like the following:

["formatname1","formatname2","formatname3",..."formatnameN"]

The following table lists acceptable values for formatname and the file type each value represents.

Value	File type
"ADOBE AI3"	Adobe® Illustrator®
"Fireworks JavaScript"	Fireworks JSF
"kMoaCfFormat_BMP"	bitmap
"kMoaCfFormat_FreeHand7and8"	Macromedia FreeHand® 7.0 or 8.0
"kMoaCfFormat_GIF"	GIF
"kMoaCfFormat_JPEG"	JPEG
"kMoaCfFormat_PICT"	Macintosh PICT
"kMoaCfFormat_RTF"	Rich Text
"kMoaCfFormat_Text"	plain text
"kMoaCfFormat_TIFF"	TIFF
"PNG"	PNG
"PS30"	Photoshop® PSD

Objects within Fireworks documents

This section describes the objects that provide access to elements within a Fireworks document. For syntax on accessing Fireworks documents and elements within them, see "Accessing a Fireworks document" on page 10 and "Passing values" on page 11.

Note: For information on how to format nonstandard data types, such as rectangle or point, see "Formatting nonstandard data types" on page 6.

Behavior

The following table lists the properties of the Behavior object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
call	string	The JavaScript call for the behavior. For legal values, see “Using the addBehavior() function” on page 175.
event	string	Acceptable values are "onMouseOver", "onClick", "onMouseOut", "onLoad", and "**ANY**" (the **ANY** argument is used as a wildcard value in some situations).

Brush

The following table lists the properties of the Brush object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
alphaRemap	string	Acceptable values are "none", "white neon", "harsh wet", "smooth neon", "wavy gravy", and "white neon edge".
angle	integer	0 to 360
antiAliased	boolean	If true, the brush edges are antialiased.
aspect	float	0 to 100
blackness	float	0 to 100
category	string	Determines which subsection of the Stroke panel the brush will appear in (for example, Pencil, Airbrush, and so on).
concentration	float	0 to 100
diameter	integer	0 to 1000
feedback	string	Acceptable values are "none", "brush", and "background".
flowRate	float	0 to 100
maxCount	integer	0 to 64
minSize	float	0 to 100
name	string	The name of the brush, visible in the Stroke panel.

Property	Data type	Notes
sensitivity_x_y	integer	0 to 100, where x is one of pressure, speed, hDir, vDir, random; and y is one of: size, angle, opacity, blackness, scatter, hue, lightness, saturation. For example, sensitivity_pressure_size.
shape	string	Acceptable values are "circle" and "square".
softenMode	string	Acceptable values are "bell curve" and "linear".
softness	float	0 to 100
spacing	float	0 to 500 (a percentage, up to 500%)
textureBlend	float	0 to 100
textureEdge	float	0 to 100
tipColoring	string	Acceptable values are "random", "uniform", "complementary", "hue", and "shadow".
tipCount	integer	1 to 32
tipSpacing	float	0 to 100
tipSpacingMode	string	Acceptable values are "random", "diagonal", and "circular".
type	string	Acceptable values are "natural" and "simple".

Contour

The following table lists the properties of the Contour object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
isClosed	boolean	If true, the path is closed by connecting the final point in the contour with the first point.
nodes	array	Array of ContourNode objects on the contour (see ContourNode, next).

ContourNode

The following table lists the properties of the ContourNode object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
dynamicInfo	array	Array of ContourNodeDynamicInfo objects on this ContourNode object (see "ContourNodeDynamicInfo" on page 30).
isCurvePoint	boolean	If true, this point's control points are constrained to be linear with the main point, thus forcing a smooth curve. If false, there are no constraints on the control points.
isSelectedPoint	boolean	If true, this point was subselected (for example, by the subselection tool).
predX	float	The *x* coordinate of the contour node's preceding control point.
predY	float	The *y* coordinate of the contour node's preceding control point.
randomSeed	integer	0 to 65535
succX	float	The *x* coordinate of the contour node's following control point.
succY	float	The *y* coordinate of the contour node's following control point.
x	float	The *x* coordinate of the contour node's main control point.
y	float	The *y* coordinate of the contour node's main control point.

ContourNodeDynamicInfo

The following table lists the properties of the ContourNodeDynamicInfo object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
duration	float	0.0 to 65535.0 milliseconds
pressure	float	0.0 to 1.0
velocity	float	0.0 to 255.9999 pixels -per -millisecond

Effect

Each Effect object has a different set of properties because every effect has different attributes that can be set. The properties for various Effect objects are listed in the following tables, in alphabetical order.

Note: In addition to the properties listed, each Effect object has two optional string properties: category and name.

Bevel

Use the BevelType property of this effect to set a bevel as inner, outer, raised embossed, inset embossed, or glow effect.

Property	Data type	Notes
EffectMoaID	string	"{7fe61102-6ce2-11d1-8c76000502701850}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
AngleSoftness	integer	Specifies the blur, or feather amount, for the shadow and highlight colors of the bevel.
BevelContrast	integer	0 to 100 percent
BevelType	integer	InnerBevel = 0 OuterBevel = 1 RaiseEmboss = 2 InsetEmboss = 3 GlowEffect = 4
BevelWidth	integer	The width of the bevel, in pixels.
ButtonState	integer	BevelButtonUp = 0 BevelButtonOver = 1 BevelButtonDown = 2 BevelButtonHit = 3
DownBlendColor	string	A color string specifying the color that is blended on top of the image if ButtonState = 2 (BevelButtonDown) (see "Color string" on page 6).
EdgeThreshold	integer	Controls the opacity at which the edge of the effect is defined. Use 1 if BevelType = 4 (for GlowEffect); otherwise, use 0.
EmbossFaceColor	string	A color string specifying the color that is blended onto the face of the object when embossing (see "Color string" on page 6).

Property	Data type	Notes
GlowStartDistance	integer	Specifies how far away from the object the glow starts, in pixels. Specify a negative value to create "ring" type glows and a positive value to create "halo" type glows.
GlowWidth	integer	The width of the glow, in pixels.
HiliteColor	string	A color string specifying the color blended to provide the specular lighting type effect (see "Color string" on page 6). Used by beveling only. Currently white is always used for internally created effects (though any value should work). This is the complement of ShadowColor.
HitBlendColor	string	A color string specifying the color that is blended on the face of the image if ButtonState = 3 (BevelButtonHit) (see "Color string" on page 6).
LightAngle	integer	The light angle, in degrees, used to create the light and shadow effects for the bevel.
MaskSoftness	integer	The feather amount on the glow edge, in pixels.
OuterBevelColor	string	A color string specifying the color of the outer bevel effect (see "Color string" on page 6).
ShadowColor	string	A color string specifying the color blended to provide the bevel shadow effect (see "Color string" on page 6). Currently black is always used for internally created effects (though any value should work). This is the complement of HiliteColor.
ShowObject	boolean	Default value is false.
SlopeMultiplier	float	A multiplier used to calculate the magnitude of the bevel slope. Default effects all use 1, but other values should work. For example, 0.5 gives a more subtle slope while 2.0 gives a sharper slope.
SlopeType	integer	flat slope = 0 smooth slope = 1 inverted smooth slope = 2 frame 1 slope = 3 frame 2 slope = 4 ring slope = 5 ruffle slope = 6

Blur

Property	Data type	Notes
EffectMoaID	string	"{f1cfce41-718e-11d1-8c8200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Blur More

Property	Data type	Notes
EffectMoaID	string	"{f1cfce42-718e-11d1-8c8200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Brightness/Contrast

Property	Data type	Notes
EffectMoaID	string	"{3439b08c-1921-11d3-9bde00e02910d580}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
brightness_amount	integer	-100 to 100
contrast_amount	integer	-100 to 100

Convert to Alpha

Property	Data type	Notes
EffectMoaID	string	"{2932d5a2-ca48-11d1-8561000502701850}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Curves

Property	Data type	Notes
EffectMoaID	string	"{3439b08e-1923-11d3"-9bde00e02910d580}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
rgb_points red_points green_points blue_points	vector of points	Each of these properties is a vector of points where x = input level and y = output level. All *x* and *y* values must be between 0 and 255, and the points must be sorted in ascending order of *x* coordinate.

Drop Shadow

Property	Data type	Notes
EffectMoaID	string	"{a7944db8-6ce2-11d1-8c76000502701850}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
ShadowAngle	float	The angle of the shadow, in degrees.
ShadowBlur	integer	The feathering amount of the shadow edges, in pixels.
ShadowColor	string	A color string specifying the color of the shadow (see "Color string" on page 6).
ShadowDistance	integer	The offset of the shadow, in pixels.
ShadowType	integer	0 = normal shadow 1 = knockout shadow

Find Edges

Property	Data type	Notes
EffectMoaID	string	"{fc7093f1-f95c-11d0-8be200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Gaussian Blur

Property	Data type	Notes
EffectMoaID	string	"{d04ef8c0-71b3-11d1-8c8200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
gaussian_blur_radius	float	0.1 to 250

Hue/Saturation

Property	Data type	Notes
EffectMoaID	string	"{3439b08d-1922-11d3-9bde00e02910d580}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
hue_amount	integer	-180 to 180 if hls_colorize is false; 0 to 360 if hls_colorize is true.
saturation_amount	integer	-100 to 100 if hls_colorize is false; 0 to 100 if hls_colorize is true.
lightness_amount	integer	0 to 100
hls_colorize	boolean	Specifies whether the effect should automatically colorize. Default value is false.

Inner Shadow

Property	Data type	Notes
EffectMoaID	string	"{5600f702-774c-11d3-baad0000861f4d01}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Property	Data type	Notes
ShadowAngle	integer	The angle of the shadow, in degrees.
ShadowBlur	integer	The feathering amount of the shadow edges, in pixels.
ShadowColor	string	A color string specifying the color of the shadow (see “Color string” on page 6).
ShadowDistance	integer	The offset of the shadow, in pixels.
ShadowType	integer	0 = normal shadow 1 = knockout shadow

Invert

Property	Data type	Notes
EffectMoaID	string	"{d2541291-70d6-11d1-8c8000a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Levels

Property	Data type	Notes
EffectMoaID	string	"{d04ef8c1-71b4-11d1-8c8200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
source_low_rgb	integer	These values are all input levels to the filter, with values of 0 to 255.
source_high_rgb		
source_low_red		
source_high_red		
source_low_green		
source_high_green		
source_low_blue		
source_high_blue		

Property	Data type	Notes
dest_low_rgb	integer	These values are all output levels to the filter, with values of 0 to 255.
dest_high_rgb		
dest_low_red		
dest_high_red		
dest_low_green		
dest_high_green		
dest_low_blue		
dest_high_blue		
gamma_rgb	float	These values are all gamma levels to the filter, with values of 0.1 to 10.0.
gamma_red		
gamma_green		
gamma_blue		

Sharpen

Property	Data type	Notes
EffectMoaID	string	"{c20952b1-fc76-11d0-8be700a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Sharpen More

Property	Data type	Notes
EffectMoaID	string	"{1f2f2591-9db7-11d1-8cad00a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.

Unsharp Mask

Property	Data type	Notes
EffectMoaID	string	"{f1cfce44-718e-11d1-8c8200a024cdc039}"
EffectIsVisible	boolean	If FALSE, the effect is included but temporarily hidden. Default value is TRUE.
unsharp_mask_amount	integer	1 to 500
unsharp_mask_radius	float	0.1 to 250
unsharp_mask_threshold	integer	0 to 255

EffectList

The following table lists the properties of the EffectList object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
category	string	Specifies which subheading in the Effects panel to use.
effects	array	Array of Effect objects (see "Effect" on page 31).
name	string	The name displayed in the Effects panel.

Element

Element is an abstract or base class; nothing of class Element ever exists. However, it is useful for simplifying the other class descriptions. Read-only properties are marked with a bullet (•).

Property	Data type	Notes
blendMode	string	Acceptable values are "normal", "multiply", "screen", "darken", "lighten", "difference", "hue", "saturation", "color", "luminosity", "invert", "tint", and "erase".
effectList	object	EffectList object (see "EffectList" on page 38).
height •	float	Read-only in the base class; other properties or API calls are used to resize specific types of elements.
left	float	May round to an integer.
mask	object	ElementMask object (see "ElementMask" on page 40). Returns null if the element has no element mask.
name	string	May be null (removes any existing name).
opacity	float	Acceptable values, 0 to 100, represent percent opacity.
top	float	May round to an integer.
visible	boolean	If false, the element is hidden. Default value is true.
width •	float	Read-only in the base class; other properties or API calls are used to resize specific types of elements.

ElementMask

The following table lists the properties of the ElementMask object, new in Fireworks 4, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
autoExpandImages	boolean	If true, and the element mask is an image, the image is always auto-expanded to fill the entire document, with areas "outside" the image showing through. If false (or if the element mask is not an image), areas "outside" the element mask are knocked out.
element	object	Element object (see "ElementMask" on page 40).
enabled	boolean	If true, the mask applies to the element. If false, the mask remains present but does not visually affect the element in any way. Default value is true.
linked	boolean	If true, moving the mask moves the element that owns it, and vice versa. If false, moving the mask does not affect the element that owns it (and moving the element does not affect the mask). Default value is true.
mode	string	Acceptable values are "mask to image" and "mask to path".
showAttrs	boolean	If true, and mode is "mask to path", the mask element's fill and stroke (if any) are drawn. If false, the mask element's fill and stroke are ignored.

ExportFrameInfo

The following table lists the properties of the ExportFrameInfo object, along with their data type and, where appropriate, acceptable values and notes.

Property	Data type	Notes
delayTime	integer	For GIF animations, the delay time between frames, in 1/100ths of a second. For example, if you set delayTime to 200, two seconds elapse before the next frame in the animation appears. Default value is 7.
frameHidden	boolean	If false (the default), the frame is exported. If true, the frame is hidden and not exported.
frameName	string	The name of the frame displayed in the Frames panel. Default is null.
gifDisposalMethod	string	GIF89a frame disposal method. See the GIF89a specification for details. Acceptable values are "unspecified" (the default), "none", "background", and "previous".

ExportOptions

Note: When using this object to set properties, the only required property is exportFormat. If other properties are not specified, their default values are used.

The following table lists the properties of the ExportOptions object, along with their data types and, where appropriate, acceptable values and notes.

In addition, use the following information to understand the rules for determining scaling in this object.

If useScale is true (the default), percentScale is used to uniformly scale the export, and applyScale is ignored.

If useScale is false and applyScale is false (the default), no scaling is done on export.

If useScale is false and applyScale is true, then xSize and ySize determine scaling as follows:

- If the value is positive, it specifies the exact size for the axis.
- If the value is zero, it specifies that the axis varies without limit.
- If the value is negative, it specifies that the axis varies, but may be no larger than “abs(value)"

If one value is positive and one is negative, the positive value is always used. Thus, this gives the following possibilities:

- xSize < 0, ySize < 0 – use min(xSize, ySize) scaling
- xSize < 0, ySize = 0 – use xSize scaling
- xSize < 0, ySize > 0 – use ySize scaling
- xSize = 0, ySize < 0 – use ySize scaling
- xSize = 0, ySize = 0 – illegal, use scale of 1.0
- xSize = 0, ySize > 0 – use ySize scaling
- xSize > 0, ySize < 0 – use xSize scaling
- xSize > 0, ySize = 0 – use xSize scaling
- xSize > 0, ySize > 0 – do not use; instead, use useScale = true and percentScale = 0 to 100

Property	Data type	Notes
animAutoCrop	boolean	Default value is true.
animAutoDifference	boolean	Default value is true.
applyScale	boolean	Default value is false.
colorMode	string	Acceptable values are "indexed" (the default), "24 bit", and "32 bit".
crop	boolean	Default value is false.
cropBottom	integer	Default value is 0.
cropLeft	integer	Default value is 0.
cropRight	integer	Default value is 0.
cropTop	integer	Default value is 0.
ditherMode	string	Acceptable values are "none" (the default), "diffusion", and "2 by 2".
ditherPercent	integer	0 to 100; default value is 100.
exportFormat	string	Acceptable values are "GIF", "JPEG", "PNG", "custom", and "GIF animation". There is no default—this value must be specified.
frameInfo	array	Array of ExportFrameInfo objects (see "ExportFrameInfo" on page 41); can be null. Default value is null.
interlacedGIF	boolean	Default value is false.

Property	Data type	Notes
jpegQuality	integer	1 to 100; default value is 80.
jpegSmoothness	integer	0 to 8; default value is 0.
jpegSubsampling	integer	0 to 4; default value is 1.
localAdaptive	boolean	Default value is true.
lossyGifAmount	integer	0 to 100; default value is 0.
macFileCreator	string	Default value is "" (an empty string).
macFileType	string	Default value is "" (an empty string).
name	string	Default value is "" (an empty string).
numCustomEntries	integer	0 to 256; default value is 0.
numEntriesRequested	integer	0 to 256; default value is 128.
numGridEntries	integer	0 to 256; default value is 6.
optimized	boolean	Default value is true.
paletteEntries	array	Array of color strings (see "Color string" on page 6); default value is null.
paletteInfo	array	Array of ExportPaletteInfo objects, or null if all entries in the array are default values (see "ExportPaletteInfo" on page 44); default value is null.
paletteMode	string	Acceptable values are "adaptive" (the default), "custom", "grid", "monochrome", "Macintosh", "Windows", "exact", and "Web 216".
paletteTransparencyType	string	Acceptable values are "none" (the default), "index", "index alpha", and "rgba".
percentScale	integer	1 to 100000; default value is 100.
progressiveJPEG	boolean	Default value is false.
savedAnimationRepeat	integer	Default value is 0.
sorting	string	Acceptable values are "none" (the default), "luminance", and "popularity".
transparencyIndex	zero-based integer	-1 to 255; pass -1 to use the background color's index; default value is –1.
useScale	boolean	Default value is true.
webSnapAdaptive	boolean	Default value is true.

Property	Data type	Notes
webSnapTolerance	integer	Default value is 14.
xSize	integer	-100000 to 100000; default value is 0. See "ExportOptions" on page 41 for details on using xSize and ySize.
ySize	integer	-100000 to 100000; default value is 0. See "ExportOptions" on page 41 for details on using xSize and ySize.

ExportPaletteInfo

The following table lists the properties of the ExportPaletteInfo object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
colorLocked	boolean	true if the color is locked in the palette. Default value is false.
colorModified	boolean	true if the color was edited. Default value is false.
colorSelected	boolean	true if the color is selected in the palette (selection is a temporary attribute). Default value is false.
colorTransparent	boolean	true if the color is exported as transparent. Default value is false.
newColorValue	string	If colorModified is true, specifies the color that will actually be used. Default value is "#000000".

ExportSettings

The following table lists the properties of the ExportSettings object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
discardUnspecifiedSlices	boolean	If true, omits undefined slices from export operations.
generateDemoHtml	boolean	If true, generates multiple HTML pages for button export.
htmlDestination	string	Acceptable values are "same", "custom", and "clipboard".

Property	Data type	Notes
setByUser	boolean	If true, the user specified the export settings. If false, the first time the file is exported, Fireworks chooses settings based on the data.
shimGeneration	string	Acceptable values are "none" (no shims), "transparent" (one-pixel transparent shims), and "nested tables" (no shims, but nested tables).
sliceAlongGuides	boolean	If true, use guides for slicing (and sliceUsingUrls should be false).
sliceAutoNaming1 through sliceAutoNaming6	string	Used to generate a name by concatenating six strings. If you need fewer than six, fill in the remaining strings with "none". Acceptable values are: "none" - generates nothing. "row_col" - generates a unique row and column index; 0_0 is first, 0_1 is second, and so on. "ALPHA" - generates a unique uppercase letter; A is first, B is second, and so on. "alpha" - generates a unique lowercase letter; a is first, b is second, and so on. "numeric1" - generates a unique number; 1 is first, 2 is second, and so on. "numeric01" - generates a unique two-digit number; 01 is first, 02 is second, and so on. "doc.name" - name of the file being exported, without path or extension, such as "image". "slice" - the string "slice". "underscore" - the underscore character "_" "period" - the period character "." "space" - the space character " " "hyphen" - the dash character "-" For example, to generate names of "image_slice01", "image_slice02" (and so on) from a document named "image", set the following properties: sliceAutoNaming1: "doc.name" sliceAutoNaming2: "underscore" sliceAutoNaming3: "slice" sliceAutoNaming4: "numeric01" sliceAutoNaming5: "none" sliceAutoNaming6: "none"

Property	Data type	Notes
sliceFrameNaming1 and sliceFrameNaming2	string	Used to generate a name by concatenating two strings; the resulting string is concatenated to the name specified by sliceAutoNaming. If you need fewer than two, fill in the remaining string with "none". Acceptable values are: "none" - generates nothing. "frameNumber" - generates frame number preceded by f, for example, f2. "number" - generates frame number, for example, 2. "state" - generates frame state, for example, "over", "down", or "overdown". "abbreviation" - generates abbreviated state, for example, "o", "d", or "od". "underscore" - the underscore character "_" "period" - the period character "." "space" - the space character " " "hyphen" - the dash character "-"
sliceUsingUrls	boolean	If true, use slice objects for slicing (and sliceAlongGuides should be false).
templateName	string	HTML style to be used during export. Acceptable values are "Dreamweaver", "Generic", "FrontPage", "GoLive", or a user-created HTML style.

Fill

The following table lists the properties of the Fill object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
category	string	Specifies where this Fill appears in the Fill panel.
ditherColors	array	Array of two color strings (see "Color string" on page 6).
edgeType	string	Acceptable values are "hard" and "antialiased".
feather	integer	0 to 1000, representing the feathering value in pixels (0 means no feathering).
gradient	object	Gradient object (see "Gradient" on page 48).
name	string	The name displayed in the Fill panel.
pattern	object	Pattern object (see "Pattern" on page 52).

Property	Data type	Notes
shape	string	Acceptable values are "solid", "linear", "radial", "conical", "satin", "pinch", "folds", "elliptical", "rectangular", "bars", "ripple", "waves", "pattern", and "web dither".
stampingMode	string	Acceptable values are "blend" and "blend opaque".
textureBlend	float	0 to 100
webDitherTransparent	boolean	If true (and shape is "web dither"), then the second color in the ditherColors array is ignored and transparent is used instead.

Frame

The following table lists the properties of the Frame object, along with their data types and, where appropriate, acceptable values and notes. Read-only properties are marked with a bullet (•).

Property	Data type	Notes
layers •	array	Array of FrameNLayerIntersection objects in the document (see "FrameNLayerIntersection" on page 47).
delay	integer	Hundredths of a second.
disposal	string	Acceptable values are "unspecified", "none", "background", and "previous".
visible	boolean	If false, this frame is hidden. Default value is true.

FrameNLayerIntersection

The following table lists the properties of the FrameNLayerIntersection object, along with their data types and, where appropriate, acceptable values and notes. Read-only properties are marked with a bullet (•).

Property	Data type	Notes
elements •	array	Array of Element objects (see "Element" on page 39).
locked	boolean	If true, this FrameNLayerIntersection is locked. Default value is false.
visible	boolean	If false, this FrameNLayerIntersection is hidden. Default value is true.

Gradient

The following table lists the properties of the Gradient object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
name	string	The name displayed in the Fill panel.
nodes	array	Array of GradientNode objects (see "GradientNode" on page 48).

GradientNode

The following table lists the properties of the GradientNode object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
color	string	A color string specifying the color at this position in the gradient (see "Color string" on page 6).
position	float	0.0 to 1.0

Group

Group is a subclass of the base class Element and contains the following properties in addition to those in Element (see "Element" on page 39).

Property	Data type	Notes
elements	array	Array of Element objects in the group (see "Element" on page 39).
groupType	string	Acceptable value is "normal". ("mask to image" and "mask to path" are deprecated in Fireworks 4.)

Guides

The following table lists the properties of the Guides object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
color	string	A color string specifying the color used for the guides (see "Color string" on page 6).
hGuides	array	Array of floating-point numbers specifying horizontal guide locations.
locked	boolean	If true, the user cannot select or move the guides. Default value is false.
vGuides	array	Array of floating-point numbers specifying vertical guide locations.

Hotspot

A Hotspot generates an image map during HTML export. Hotspot is a subclass of the base class Element and contains the following properties in addition to those in Element (see "Element" on page 39).

Property	Data type	Notes
altText	string	Text written into the HTML Alt tag when exporting.
behaviors	array	Array of Behavior objects for the hotspot"Behavior" on page 28.
color	string	Color in which the hotspot is drawn in the document window. Default value is "#00FFFF".
contour	object	Contour object for the hotspot"Contour" on page 29. Used only if shape="polyline"; otherwise null.
shape	string	Acceptable values are "rectangle", "circle", and "polyline".
targetText	string	Text written into the HTML Target tag when exporting.
urlText	string	Text written into the HTML Href tag when exporting.

Image

Image is a subclass of the base class Element (see "Element" on page 39). It contains no properties or methods of its own in addition to those in Element.

Instance

Instance is a subclass of the base class Element and contains the following properties in addition to those in Element (see "Element" on page 39). Read-only properties are marked with a bullet (•).

Property	Data type	Notes
symbolID •	string	An arbitrary string used to uniquely identify the symbol owning this instance.
transformMode	string	Acceptable values are "paths" and "pixels".

Layer

The following table lists the properties of the Layer object, along with their data types and, where appropriate, acceptable values and notes. Read-only properties are marked with a bullet (•).

Property	Data type	Notes
disclosure	boolean	If true, the Layers list displays all the objects in the layer. If false, only the name of the layer itself is displayed.
frames •	array	An array of FrameNLayerIntersection objects (see "FrameNLayerIntersection" on page 47).
layerType •	string	Acceptable values are "normal" and "web".
name	string	May be null (removes any existing name).
sharing	string	Acceptable values are "shared" and "not shared".

Path

Path is a subclass of the base class Element and contains the following properties in addition to those in Element (see "Element" on page 39).

Property	Data type	Notes
contours	array	Array of Contour objects on this Path object (see "Contour" on page 29).
pathAttributes	object	PathAttrs object (see "PathAttrs" on page 51).
randSeed	float	A 32-bit integer. JavaScript integers hold only 31-bit numbers, so it is stored as a floating-point number.
textureOffset	point	If the path has a textured brush or fill, specifies the offset of the texture's origin.

PathAttrs

The following table lists the properties of the PathAttrs object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
brush	object	Brush object (see "Brush" on page 28).
brushColor	string	A color string specifying the color used for rendering the Brush object, if any (see "Color string" on page 6).
brushPlacement	string	Acceptable values are "inside", "center", and "outside".
brushTexture	object	Texture object (see "Texture" on page 57).
fill	object	Fill object (see "Fill" on page 46).
fillColor	string	A color string specifying the color used for rendering the Fill object, if any (see "Color string" on page 6).
fillHandle1	point	The three fillHandle properties are used by Gradient and Pattern fills to set the angle and size of the gradient/pattern.
fillHandle2	point	
fillHandle3	point	
fillOnTop	boolean	If true, the fill is drawn on top of the brush; if false (the default), the fill is drawn beneath the brush.
fillTexture	object	Texture object (see "Texture" on page 57).

Pattern

The following table lists the properties of the Pattern object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
name	string	The name displayed in the Fill panel.

RectanglePrimitive

The following table lists the properties and methods of the RectanglePrimitive object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
roundness	float	A float value between 0 and 1 that specifies the "roundness" to use for the corners (0 is no roundness, 1 is 100% roundness).
originalSides	rectangle	A rectangle specifying the original sides of the primitive (see "Rectangle" on page 7). Because rectangle primitives remember transformations, the user may see something very different from the original sides.
transform	matrix	A matrix indicating all the transformations that were applied to the primitive (see "Matrix" on page 6).
pathAttributes	object	A PathAttrs object indicating the path attributes of the primitive (see "PathAttrs" on page 51).

SingleTextRun

The following table lists the properties of the SingleTextRun object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
changedAttrs	object	TextAttrs object (see "TextAttrs" on page 56).
characters	string	The text contained in this run.

SliceHotspot

A SliceHotspot generates an image slice during HTML export. SliceHotspot is a subclass of the base class Hotspot and contains the following properties in addition to those in Hotspot (see "Hotspot" on page 49). Read-only properties are marked with a bullet (•).

Property	Data type	Notes
baseName	string	Base name for slice file names, or null for auto-name.
exportOptions	object	ExportOptions object (see "ExportOptions" on page 41); null if using current document defaults.
htmlText	string	If sliceKind is "empty", this text is exported instead of the image. The default is an empty string.
sliceID •	string	An arbitrary string used to uniquely identify this slice.
sliceKind	string	"image" generates an image; "empty" generates the text specified by htmlText.

Style

The following table lists the properties of the Style object, along with their data types and, where appropriate, acceptable values and notes. All Style properties are read-only.

Property (read-only)	Data type	Notes
effectList	object	EffectList object (see "EffectList" on page 38).
name	string	The name displayed in the Style panel.
pathAttributes	object	PathAttrs object (see "PathAttrs" on page 51).
textBold	boolean	Whether to make the affected text bold; used only if use_textStyles is true.
textFont	string	The font to apply to text; used only if use_textFont is true.
textItalic	boolean	Whether to make the affected text italic; used only if use_textStyles is true.
textSize	string	String of the form "#pt", where # is a numeric value.
textUnderline	boolean	Whether to underline the affected text; used only if use_textStyles is true.
use_brush	boolean	If true, applies the brush property from the pathAttributes object when applying the style. If false, ignores the brush property. Default value is false.
use_brushColor	boolean	If true, applies the brushColor property from the pathAttributes object when applying the style. If false, ignores the brushColor property. Default value is false.
use_effectList	boolean	If true, applies the effects property from the effectList object when applying the style. If false, ignores the effects property. Default value is false.
use_fill	boolean	If true, applies the fill property from the pathAttributes object when applying the style. If false, ignores the fill property. Default value is false.
use_fillColor	boolean	If true, applies the fillColor property from the pathAttributes object when applying the style. If false, ignores the fillColor property. Default value is false.

Property (read-only)	Data type	Notes
use_textFont	boolean	If true, applies the textFont property from the pathAttributes object when applying the style. If false, ignores the textFont property. Default value is false.
use_textSize	boolean	If true, applies the textSize property from the pathAttributes object when applying the style. If false, ignores the textSize property. Default value is false.
use_textStyles	boolean	If true, applies the textStyles property from the pathAttributes object when applying the style. If false, ignores the textStyles property. Default value is false.

Text

Text is a subclass of the base class Element and contains the following properties in addition to those in Element (see "Element" on page 39).

Property	Data type	Notes
antiAliased	boolean	If true (the default), anti-alias the text.
antiAliasMode	string	Acceptable values are "smooth", "crisp", and "strong". This value is ignored if the antiAliased property is false.
autoKern	boolean	If true, use pair kerning information in the font(s) to kern the text. If false, pair kerning information in the font(s) is ignored. Default value is true.
orientation	string	Acceptable values are "horizontal left to right" (the default), "vertical right to left", "horizontal right to left", and "vertical left to right".
pathAttributes	object	PathAttrs object (see "PathAttrs" on page 51).
randSeed	float	A 32-bit integer. JavaScript integers hold only 31-bit numbers, so it is stored as a floating point-number.
textRuns	object	TextRuns object (see "TextRuns" on page 57).
textureOffset	point	If the text has a textured brush or fill, specifies the offset of the texture's origin.
transformMode	string	Acceptable values are "paths" and "pixels".

TextAttrs

The following table lists the properties of the TextAttrs object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
alignment	string	Acceptable values are "left", "center", "right", "justify", and "stretch".
baselineShift	integer	The number of pixels above (positive numbers) or below (negative numbers) the baseline by which the characters are shifted.
bold	boolean	true for bold text, false for normal text.
face	string	The name of the font, such as "Arial".
fillColor	string	A color string specifying the color of the text (see "Color string" on page 6).
horizontalScale	float	The relative width of the characters. 1.0 — normal width < 1 — thinner than normal > 1 — wider than normal
italic	boolean	true for italic text, false for normal text.
kerning	float	Also known as "pair kerning", it is the percentage of an em square by which to separate two characters, in addition to the amount the font specifies. Applies to only one pair or characters. To specify kerning for a range of text, use the rangeKerning property. 0 — normal kerning < 0 — move the two characters closer together > 0 — move the two characters farther apart
leading	float	The spacing between two lines of text, measured from baseline to baseline. Larger numbers place more space between lines of text. Smaller numbers move the lines closer together. The exact effect of this property number depends on the value of the leadingMode property.
leadingMode	string	The only acceptable value is "percentage", which specifies that the leading property is a percentage of the text's point size. A leading property of 1.0 would mean 100% or single-spaced, 2.0 would mean 200% or double-spaced, and so on.

Property	Data type	Notes
rangeKerning	float	The same as kerning, but applies to a range of text, not just two characters.
size	string	String of the form "#pt", where # is a numeric value.
underline	boolean	true for underlined text, false for normal text.

TextRuns

The following table lists the properties of the TextRuns object, along with their data types and, where appropriate, acceptable values and notes.

Property	Data type	Notes
initialAttrs	object	TextAttrs object (see "TextAttrs" on page 56).
textRuns	array	Array of SingleTextRun objects on this TextRuns object (see "SingleTextRun" on page 53).

Texture

Texture is a subclass of the base class Element and contains the following read-only property in addition to those in Element (see "Element" on page 39).

Property (read-only)	Data type	Notes
name	string	The name displayed in the Brush or Fill panels.

HTML export objects

Fireworks provides several object types that support the output of HTML and sliced images from Fireworks. These objects let you write JavaScript scripts that create templates to output the "flavor" of HTML that suits your specific requirements: generic HTML, Dreamweaver-compatible HTML, and so on. For each HTML template, you use a Slices.htt file that generates the HTML for that particular template. For more information, refer to the Slices.htt and Metafile.htt files that are installed with Fireworks.

Note: For information on how to format nonstandard data types, such as rectangle or point, see "Formatting nonstandard data types" on page 6.

BehaviorInfo

The BehaviorInfo object describes a behavior assigned to an element. There are seven behaviors: Status Message, Swap Image, Button Down, Swap Image Restore, Button Highlight, Button Restore, and Popup Menu (new in Fireworks 4). The following table lists the properties of the BehaviorInfo object, along with their data types and, where appropriate, acceptable values and notes. All BehaviorInfo properties are read-only.

Property (read-only)	Data type	Notes

action	integer	Specifies the type of behavior: 1 is Status Message, 2 is Swap Image, 4 is Button Down, 5 is Swap Image Restore, 6 is Button Highlight, 7 is Button Restore, and 9 is Popup Menu. In the standard templates, these values are defined:
		var kActionStatusMessage = 1;
		var kActionSwapImage = 2;
		var kActionButtonDown = 4;
		var kActionSwapImageRestore = 5;
		var kActionButtonHighlight = 6;
		var kActionButtonRestore = 7;
		var kActionPopupMenu = 9;

downHighlight	boolean	For Button Highlight behaviors, true if there is a down highlight image.

event	integer	Specifies the type of event: 0 is Mouse Over, 1 is On Click, 2 is Mouse Out, and 3 is On Load. In the standard templates, these values are defined:
		var kEventMouseOver = 0;
		var kEventOnClick = 1;
		var kEventMouseOut = 2;
		var kEventOnLoad=3;

hasHref	boolean	For Swap Image behaviors, true if the swap image swaps in an external file. The value of hasHref is always the opposite of hasTargetFrame; you cannot swap from two sources.
hasStatusText	boolean	For Status Message behaviors, true if the status text is not empty.
hasTargetFrame	boolean	For Swap Image behaviors, true if the swap image swaps in another frame in the Fireworks file. The value of hasTargetFrame is always the opposite of hasHref; you cannot swap from two sources.
horzOffset	integer	If action is set to 9 (Popup Menu), horzOffset specifies the horizontal pixel offset for the menu.

Property (read-only)	Data type	Notes
href	string	The argument must be expressed as a file:// URL. For Swap Image behaviors, the file URL for an external swap image file.
preload	boolean	For Swap Image behaviors, true if the image is to be preloaded.
restoreOnMouseout	boolean	If true, the original image for a SwapImage behavior is restored on mouse out.
statusText	string	For Status Message behaviors, the status message text.
targetColumnNum	zero-based integer	For Swap Image behaviors, the column in the slices table that is swapped.
targetFrameNum	zero-based integer	For Swap Image behaviors, if hasTargetFrame is true, this frame number is swapped.
targetRowNum	zero-based integer	For Swap Image behaviors, the row in the slices table that is swapped.
vertOffset	integer	If action is set to 9 (Popup Menu), vertOffset specifies the vertical pixel offset for the menu.

BehaviorsList

The BehaviorsList object is an array of BehaviorInfo objects that describe the behaviors in an image map (see "BehaviorInfo" on page 58). The BehaviorsList object does not occur by itself. That is, all occurrences of BehaviorsList objects are members of other objects. In the following example,

```
var curBehavior = slices[i][j].behaviors[k];
```

behaviors is an object of type BehaviorsList, and curBehavior is an object of type BehaviorInfo.

The BehaviorsList object has only one property, shown in the following table.

Property (read-only)	Data type	Notes
numberOfBehaviors	integer	The number of BehaviorInfo objects in the BehaviorsList array (0 or more) (see "BehaviorInfo" on page 58).

exportDoc

The following table lists the properties of the exportDoc object, along with their data types and, where appropriate, acceptable values and notes. All exportDoc properties are read-only.

Note: This object type does not start with a capital letter.

Property (read-only)	Data type	Notes
altText	string	The Alt text description for the Fireworks document.
backgroundColor	string	The hex color of the document canvas, without the # character; for example, "FF0000" for red background.
backgroundIsTransparent	boolean	true if the Fireworks canvas color is transparent, or if the export settings specify a transparent GIF format; false otherwise.
backgroundLink	string	The background URL, expressed as a file:// URL.
docID	integer	A number assigned to a document to help identify HTML generated from it. The docID does not change when you change the name of a file. However, if you use File > Save As, you can get multiple files with the same docID.
docSaveName	string	The file name used when the document was saved, without path information, such as "nav.gif".
emptyCellColor	string	A color string specifying the color of empty table cells (see "Color string" on page 6).
emptyCellContents	integer	Specifies what to put into empty cells. Acceptable value are 1 (nothing), 2 (spacer image), and 3 (nonbreaking space).
emptyCellUsesCanvas Color	boolean	If true (the default), empty cells are set to the backgroundColor property. If false, they are set to the emptyCellColor property.
filename	string	URL for the exported image, relative to the HTML output; for example, "images/ Button.gif" . In Slices.htt, it is the base image name plus the base extension. Unless there is only one slice, Slices.htt produces file names such as "Button_r2_c2.gif".
generateHeader	boolean	true if an HTML file is generated, false if the output goes to the Clipboard.
hasAltText	boolean	true if the Fireworks document has an Alt text description.

Property (read-only)	Data type	Notes
hasBackgroundLink	boolean	true if the Fireworks document has a background URL.
height	integer	Height of the image being exported, in pixels. In Slices.htt, it is the total height of the output images.
htmlOutputPath	string	File that the HTML is being written to, including file name, expressed as a file:// URL; for example, "file:///C|/top/nav/navbar.htm".
imagename	string	Name of the image that is being exported, without extension; for example, "Button".
includeHTMLComments	boolean	The value of the Include HTML Comments preference, which the export script interprets as appropriate. For example, if this value is false, the Dreamweaver export script removes all nonessential comments.
numFrames	integer	Number of frames being exported from the Fireworks document. This value is not zero-based; the value is 1 or more.
pathBase	string	Path of the image that is being exported; for example, "images/Button".
pathSuffix	string	File name extension of the image that is being exported, including a period; for example, ".gif".
startColumn	integer	Used only in Metafile.htt for generating HTML for one slice. Specifies the column of the slice.
startRow	integer	Used only in Metafile.htt for generating HTML for one slice. Specifies the row of the slice.
style	string	The HTML style used to export the data, such as "Dreamweaver", "Generic", or "FrontPage".
width	integer	Width of the image being exported, in pixels. In Slices.htt, it is the total width of the output images.

ImageMap

The following table lists the properties and methods of the ImageMap object, along with their data types and, where appropriate, acceptable values and notes. All ImageMap properties are read-only.

Property (read-only) or Method	Data type	Notes
altText	string	The Alt text description for this slice, if any.
behaviors	object	BehaviorsList object containing the behaviors for this slice (see "BehaviorsList" on page 59).
hasAltText	boolean	true if the slice has an Alt text description.
hasHref	boolean	true if the slice has a URL.
hasTargetText	boolean	true if the target text is not empty.
href	string	The URL link for this slice. The argument must be expressed as a file:// URL.
numCoords	integer	Number of coordinates in the area. A circle always has 1 (the center), a rectangle has 2 (top left and bottom right), and a polygon has 1 or more.
radius	integer	Radius of the area, if shape is "circle".
shape	string	Acceptable values are "circle", "poly", and "rect".
targetText	string	Target text for this image, if any.

xCoord(*index*)	zero-based integer	Returns the *x* coordinate for the specified point, in pixels. For example, the following commands return the coordinates for the first point:
		var x = imagemap.xCoord(0);
		var y = imagemap.yCoord(0);
		It is possible to have negative values if the imagemap area is drawn such that it crosses the left or top sides of the image (or sliced image).

yCoord(*index*)	zero-based integer	Returns the *y* coordinate for the specified point, in pixels. See xCoord().

ImagemapList

The ImagemapList is an array of ImageMap objects that describe the areas in an image map (see "ImageMap" on page 62). To access imageMap objects, use the ImagemapList array, as shown below:

```
var curImagemap = ImagemapList[i];
```

The ImagemapList object has only one property, shown in the following table.

Property (read-only)	Data type	Notes
numberOfURLs	integer	The number of image map areas in the image map list (0 or more).

SliceInfo

The following table lists the properties and methods of the SliceInfo object, along with their data types and, where appropriate, acceptable values and notes. All SliceInfo properties are read-only.

Property (read-only) or Method	Data type	Notes
altText	string	The Alt text description for this slice.
behaviors	object	BehaviorsList object containing the behaviors for this slice (see "BehaviorsList" on page 59).
cellHeight	integer	Height of this table row in pixels.
cellWidth	integer	Width of this table column in pixels.
downIndex	zero-based integer	The index for this slice as a button if it is a multiple file export down button.
getFrameFileName (*frameIndex*)	zero-based integer	Returns a string that is the file name for the slice on the specified frame, without directory or extension information. For example, when exporting a file base named Button, Slices[0][0].getFrameFileName(0) returns "Button_r1_c1". Generally all slices that have images have a frame file name. For frames 1 and up, only slices that are rollovers or that are targeted by a swap image have names.
hasAltText	boolean	true if the slice has an Alt text description.
hasHref	boolean	true if the slice has a URL.
hasHtmlText	boolean	true if the cell is a text-only slice.

Property (read-only) or Method	Data type	Notes
hasImage	boolean	true if this cell has an image. For text-only slices, this is false.
hasImagemap	boolean	true if there are image map hotspots in this image slice.
hasTargetText	boolean	true if the target text is not empty.
height	integer	Height of the image in pixels, including row spans.
href	string	The URL link for this slice. The argument must be expressed as a file:// URL.
htmlText	string	Text for a text-only slice.
imagemap	object	ImagemapList object containing the image map information for this slice (see "ImagemapList" on page 63).
imageSuffix	string	Extension for the image in this cell, including a period; for example, ".gif".
isUndefined	boolean	true if the slice does not have a slice object drawn over it. If you draw two slices that don't cover your document, Fireworks automatically generates slices to cover the rest of the document. These slices are the undefined slices.
left	integer	Left side of the cell in pixels. The left starts at 0.
nestedTableSlices	object	Slices object that describes a nested table occupying the current table cell (see "Slices" on page 65). null if the cell does not contain a nested table.
setFrameFileName (*frameIndex*)	zero-based integer	Sets the file name for the slice on the specified frame, without directory or extension information. You can stop an image from exporting by setting its name to "" (an empty string).
skipCell	boolean	true if this cell in the table is covered by a previous row span or column span.
targetText	string	Target text for this image, if any.
top	integer	Top of the cell in pixels. The top starts at 0.
width	integer	Width of the image in pixels, including column spans.

Slices

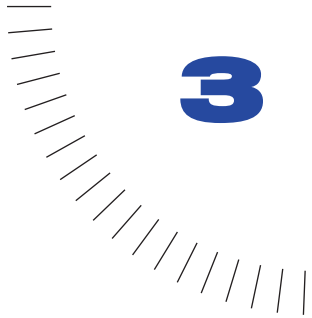
Slices is an object that has some properties and is also a two-dimensional array of SliceInfo objects (see "SliceInfo" on page 63). For example, Slices[0][0] is the SliceInfo for the first cell at row 0, column 0. The first array is rows, the second columns.

A fairly common way to access the table is:

```
var curRow;
var curCol;
for (curRow = 0; curRow<slices.numRows; curRow++) {
   for (curCol=0; curCol<slices.numColumns; curCol++) {
      var curSlice = slices[curRow][curCol]; // curSlice is the slice info for the cell at this row &
      column.
      // do whatever processing with curSlice.
   }
}
```

The following table lists the properties of the Slices object, along with their data types and, where appropriate, acceptable values and notes. All Slices properties are read-only.

Property (read-only)	Data type	Notes
demoIndex	zero-based integer	Index for each file generated for multiple button file export.
doDemoHTML	boolean	true for multiple file button rollover export.
doShimEdges	boolean	true if Table Shims are set to Transparent Image in Document properties.
doSkipUndefined	boolean	true if Export Undefined Slices is NOT checked in Document Properties.
imagesDirPath	string	Relative URL to the images folder. For Example, "images/", or "../site_images", or "" (an empty string) if the images and the HTML are in the same directory.
numColumns	integer	Number of columns that are present in the HTML table. Does not include shim column.
numRows	integer	Number of rows that are present in the HTML table. Does not include shim row.
shimPath	string	Relative URL to the shim GIF file; for example, "images/shim.gif".



CHAPTER 3
Fireworks JavaScript API

To make it possible to create useful Fireworks extensions and customized Fireworks menus, Fireworks supports the JavaScript functions listed in this chapter. Almost any task that the user can accomplish in Fireworks with the menus, tools, or floating panels can now be done with JavaScript.

Using Fireworks API functions

Three categories of API functions are described in this chapter: Document functions, History panel functions, and Fireworks functions. The following rules apply to all functions.

Zero-based indexes

functions that take an *index* argument zero-one-dimensional array. That is, a value of 0 represents the first item in the array, 1 represents the second item, and so on. For example, the following command deletes the third layer of the active Fireworks document:

```
fw.getDocumentDOM().deleteLayer2;
```

that take a *frameIndex* argument may be passed –1 to indicate the current frame. Similarly, functions that take a *layerIndex* argument may be passed –1 to indicate the current layer.

Passing null values

In general, passing a `null` value to a function causes an exception to be thrown. A few functions do allow `null` as an argument; this is noted in the function descriptions.

Operating on a selection

Many API functions in this chapter refer to a "selection" or to "selected items." These terms refer to Fireworks elements, such as text boxes or images, that are currently selected. In most cases, the functions work even if only one item is selected. If a function requires more than one selected item, this is noted in the description of the function.

or panel

Several API functions reference the History palette (see "History panel functions" on page 155). Throughout the Fireworks documentation and online help, the term "palette" is reserved for discussions of a color palette, and the term "panel" is used to refer to the floating windows available within Fireworks. Therefore, although the function name contains "palette," the descriptions refer to a "panel."

Document functions

As discussed in "Accessing a Fireworks document" on page 10, you get and set document properties by calling functions as methods of the document's DOM (Document Object Model). Methods that operate on a document's DOM are listed in this section as dom.functionName(). However, you cannot simply type dom.functionName(). In place of dom, you must type fw.getDocumentDOM() or fw.documents[documentIndex]. For example:

- How a function looks in this manual: dom.addNewHotspot()
- How you must type it:

  fw.getDocumentDOM().addNewHotspot(); // operates on active document

  or

  fw.documents[*documentIndex*].addNewHotspot(); // operates on specified document

dom.addBehavior()

Availability Fireworks 3.0

Description Adds a specified behavior to the selected hotspots and slices.

Arguments *action, event, eventIndex*

- The first argument is a string that specifies the behavior to be added, such as "MM_swapImageRestore()". For a list of all behaviors that can be added, see "Using the addBehavior() function" on page 175.
- The second argument specifies the event that triggers the behavior. Acceptable values are "onMouseOver", "onMouseOut", "onLoad", and "onClick".
- The last argument is a zero-based integer that specifies the location where the behavior should be added. To specify the end location, pass –1 here.

Returns Nothing.

Example This command adds a simple rollover behavior at the end of the selected slice or hotspot.

```
fw.getDocumentDOM().addBehavior("MM_simpleRollover()", "onMouseOver", -1);
```

Related Functions dom.removeBehavior()

dom.addElementMask()

Availability Fireworks 4.0

Description Adds a new, empty mask to the selected element. If the selection already has an element mask, it will be replaced with the new one. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown.

Arguments *mode, {bEnterMaskEditMode}*

- Acceptable values for *mode* are "reveal all", "hide all", "reveal selection", and "hide selection". If the user is not in bitmap mode, or if there is no pixel selection, "reveal selection" and "hide selection" operate like "reveal all" and "hide all", respectively.
- If the second (optional) argument is true, Fireworks enters mask-edit mode on the newly added mask; if omitted, it defaults to false.

Returns Nothing.

dom.addFrames()

Availability Fireworks 3.0, enhanced in 4.0

Description Adds one or more frames to the document.

Arguments *howMany, where,* {*bAdvanceActiveFrame*}

- The first argument is an integer that specifies how many frames to add.
- The second argument specifies where to add the frames. Acceptable values for *where* are "beginning", "before current", "after current", and "end".
- The third argument (*bAdvanceActiveFrame*), added in Fireworks 4, specifies whether to change the active frame. If it is omitted or true, this function sets the currently active frame to the first frame added. If false, the currently active frame does not change. For example, if the user is adding frames at the end of a document that has two frames and *bAdvanceActiveFrame* is omitted or true, then the third frame becomes the active frame.

Returns Nothing.

Example This command adds one frame after the current frame but does not change the active frame.

```
fw.getDocumentDOM().addFrames(1, "after current", false);
```

dom.addGuide()

Availability Fireworks 3.0

Description Adds a guide to the document. If a guide already exists at the specified position, this function has no effect.

Arguments *position, guidekind*

- The first argument is a float value that specifies the *x* or *y* coordinate at which to add the guide.
- Acceptable values for *guidekind* are "horizontal" and "vertical". If *guidekind* is "horizontal", it is assumed that *position* is a *y* coordinate; if "vertical", an *x* coordinate.

Returns Nothing.

Example This command adds a vertical guide at the x coordinate of 217.

```
fw.getDocu mentDOM().addGuide(217, "vertical");
```

dom.addNewHotspot()

Availability Fireworks 3.0

Description Adds a new hotspot fitting into the specified bounding rectangle.

Arguments *hotspot-kind, hotspot-shape, boundingRectangle*

- Acceptable values for the first argument are "hotspot" and "slice".
- Acceptable values for the second argument are "rectangle" and "oval".
- The third argument is a rectangle that specifies the bounds within which the hotspot is placed (see "Rectangle" on page 7).

Returns Nothing.

Example This command adds a new rectangle slice with the specified coordinates.

```
fw.getDocumentDOM().addNewHotspot("slice","rectangle",{left:0, top:0, right:50,
bottom:100});
```

dom.addNewImage()

Availability Fireworks 3.0

Description Adds a new, empty (transparent) image to the document.

Arguments *boundingRectangle, bEnterPaintMode*

- The first argument is a rectangle that specifies the bounds of the image to be added (see "Rectangle" on page 7). You cannot create an image larger than the document; therefore, if you pass in a rectangle with bounds larger than the document size, you can create an image constrained to the document size.
- If the second argument is true, the application immediately enters bitmap mode for the new image.

Returns Nothing.

Example This command adds an empty image that is 500 by 500 pixels in size, and then enters bitmap mode.

```
fw.getDocumentDOM().addNewImage({left:0, top:0, right:500, bottom:500}, true);
```

dom.addNewLayer()

Availability Fireworks 3.0

Description Adds a new layer to the document and makes it the current layer.

Arguments *name, bShared*

- The first argument is a string that specifies the name for the new layer. If *name* is null, a new layer name is generated.
- The second argument is a Boolean value that specifies whether the new layer is shared.

Returns A string value containing the name of the new layer.

Example This command adds a new, unshared layer with a default name generated by Fireworks.

```
fw.getDocumentDOM().addNewLayer(null, false);
```

dom.addNewLine()

Availability Fireworks 3.0

Description Adds a new path between two points. The new path uses the document's current default path attributes and is added on the current frame and layer.

Arguments *startPoint, endPoint*

The arguments are points that specify the *x,y* coordinates between which the path is added (see "Point" on page 6).

Returns Nothing.

Example This command adds a new line between the specified coordinates.

```
fw.getDocumentDOM().addNewLine({x:64.5, y:279.5}, {x:393.5, y:421.5});
```

dom.addNewOval()

Availability Fireworks 3.0

Description Adds a new oval fitting into the specified bounding rectangle. The oval uses the document's current default path attributes and is added on the current frame and layer.

Arguments *boundingRectangle*

The argument is a rectangle that specifies the bounds of the oval to be added (see "Rectangle" on page 7).

Returns Nothing.

Example This command adds a new oval within the specified coordinates.

```
fw.getDocumentDOM().addNewOval({left:72, top:79, right:236, bottom:228});
```

dom.addNewRectangle()

Availability Fireworks 3.0

Description Adds a new rectangle or rounded rectangle fitting into the specified bounds. The rectangle uses the document's current default path attributes and is added on the current frame and layer.

Arguments *boundingRectangle, roundness*

- The first argument is a rectangle that specifies the bounds within which the new rectangle is added (see "Rectangle" on page 7).
- The second argument is a float value between 0 and 1 that specifies the "roundness" to use for the corners (0 is no roundness, 1 is 100% roundness).

Returns Nothing.

Example This command adds a new rectangle with no round corners within the specified coordinates.

```
fw.getDocumentDOM().addNewRectangle({left:0, top:0, right:100, bottom:100}, 0);
```

Related Functions dom.addNewRectanglePrimitive()

dom.addNewRectanglePrimitive()

Availability Fireworks 4.0

Description Adds a new rectangle primitive fitting into the specified bounds. The rectangle primitive uses the documents's current default path attributes, is added on the current frame and layer, and has several editable properties, such as corner roundness and transformation. The difference between a rectangle and a rectangle primitive is that a rectangle is just a path that happens to be shaped like a rectangle, while a rectangle primitive remembers its "rectangleness"; that is, if you try to drag a corner, it remains a rectangle, rather than deforming into a quadrilateral.

Arguments *boundingRectangle, roundness*

- The first argument is a rectangle that specifies the bounds within which the new rectangle primitive is added (see "Rectangle" on page 7).
- The second argument is a float value between 0 and 1 that specifies the "roundness" to use for the corners (0 is no roundness, 1 is 100% roundness).

Returns Nothing.

Example This command adds a new rectangle primitive with no round corners within the specified coordinates.

```
fw.getDocumentDOM().addNewRectanglePrimitive({left:0, top:0, right:100, bottom:100}, 0);
```

Related Functions dom.addNewRectangle(), fw.ungroupPrimitives()

dom.addNewSinglePointPath()

Availability Fireworks 3.0

Description Adds a new path consisting of a single Bézier point. The path uses the default fill, stroke, and so on, and is added on the current frame and layer. The point is selected after it is added.

Arguments *controlPointFirst, mainPoint, controlPointLast, bCopyAttrs*

- The first three arguments are points that specify the *x,y* coordinates of the preceding control point, the main point, and the following control point of the Bézier path (see "Point" on page 6).
- If *bCopyAttrs* is false, the path's stroke and fill are copied directly from the document's current stroke and fill settings. If it is true, then the path's fill is set to "none", and the brush is set to something other than "none".

Returns Nothing.

Example This command adds a new path consisting of a single Bézier point at the specified coordinates, and copies the path's stroke and fill from the document's current stroke and fill settings.

```
fw.getDocumentDOM().addNewSinglePointPath({x:150, y:63}, {x:150, y:63},
{x:150, y:63}, false);
```

dom.addNewStar()

Availability Fireworks 3.0

Description Adds a new star- or polygon-shaped path.

Arguments *numSides, spikiness, bIsStar, centerPoint, outsidePoint*

- The first argument is an integer that specifies the number of sides of the new path.
- The second argument is a float value that controls the regularity of the star or polygon. Pass –1 to have Fireworks calculate a good value, or pass a value between 0 and 1 for manual control.
- If the third argument is true, a star with the specified number of points is created. If it is false, a regular polygon with the specified number of sides is created.
- The fourth argument specifies the center point of the star or polygon (see "Point" on page 6).
- The fifth argument specifies a point on the radius of the star or polygon.

Returns Nothing.

Example This command adds a five-sided star.

```
fw.getDocumentDOM().addNewStar(5, -1, true, {x:186, y:72}, {x:265, y:89});
```

dom.addNewSymbol()

Availability Fireworks 3.0

Description Adds a new symbol to the Library and opens the symbol document for editing. Optionally adds an instance of the symbol to the document.

Arguments *type, name, bAddToDoc*

- Acceptable values for the first argument are "graphic", "button", and "animation".
- The second argument is a string that specifies the name of the symbol.
- If *bAddToDoc* is true, then an instance of the symbol is inserted into the center of the document. If false, the symbol is created in the document's Library, but no instance of the symbol is inserted into the document.

Returns Nothing.

Example This command adds a new graphic symbol called text to the Library and places an instance of it in the document.

```
fw.getDocumentDOM().addNewSymbol("graphic", "text", true);
```

dom.addNewText()

Availability Fireworks 3.0

Description Adds a new, empty text block within the specified bounding rectangle. (To place text in the box, use dom.setTextRuns().)

Arguments *boundingRectangle, bInitFromPrefs*

- The first argument is a rectangle that specifies the bounds within which to place the new text box (see "Rectangle" on page 7).
- If the second argument is false, the default values for all style properties are used. If it is true, the most recent values set by the user are used.

Returns Nothing.

Example This command adds a text box with the style properties most recently used.

```
fw.getDocumentDOM().addNewText({left:43, top:220, right:102, bottom:232}, true);
```

dom.addSwapImageBehaviorFromPoint()

Availability Fireworks 3.0

Description If a single hotspot or slice is selected, this function adds to it a swap-image behavior from the hotspot or slice located at *where* in the document.

Arguments *where*

The argument is a point that specifies the *x,y* coordinates of the hotspot or slice containing the swap-image behavior to be added (see "Point" on page 6).

Returns true if the swap-image behavior was added, false if no suitable hotspot was at the specified location.

dom.adjustExportToSize()

Availability Fireworks 3.0

Description Adjusts the export settings as specified.

Arguments *sizeInBytes, bOkToIncreaseSize*

The first argument is an integer that specifies the size to be used for exporting. It is used as follows:

- If a document has no slices, adjusts the export settings for the current frame so that the image is less than or equal to *sizeInBytes*.
- If a document has slices, adjusts the size of all exported images so that the sum of the sizes is greater than or equal to *sizeInBytes*.

The second argument specifies whether the export file size can be increased:

- If *bOkToIncreaseSize* is true, and the current size is less than *sizeInBytes*, increases the quality of the export settings as much as possible, making the export size larger if necessary.
- If *bOkToIncreaseSize* is false, increases the quality of the export settings as much as possible without increasing the export size.

dom.align()

Availability Fireworks 3.0

Description Aligns the selection.

Arguments *alignmode*

Acceptable values for *alignmode* are "left", "right", "top", "bottom", "center vertical", and "center horizontal".

Returns Nothing.

dom.appendPointToHotspot()

Availability Fireworks 3.0

Description Appends a point to the selected unclosed polygon hotspot. If an unclosed polygon hotspot is not selected, then a new polygon hotspot is created with a single point (the one passed in).

Arguments *pt, tolerance*

- The first argument is a point that specifies the *x,y* coordinates of the point to be added (see "Point" on page 6).
- The second argument is a float value > = 0 that specifies the tolerance between the new point and the starting point of the polyline path. If the new point is within *tolerance* of the starting point, the polyline path is closed.

Returns Nothing.

dom.appendPointToPath()

Availability Fireworks 3.0

Description Appends a Bézier point to the selected path.

Arguments *contourIndex, ptToInsertBefore, controlPointFirst, mainPoint, controlPointLast*

- The first argument is a zero-based integer that specifies the contour to which the Bézier point is appended. For paths with multiple contours, the contours are in an arbitrary order.
- The second argument is a zero-based integer that specifies where on the path the new point should be placed. The new point is appended before (in front of) the point represented by this integer. To add a point to the beginning of the path, pass 0 here; to add a point to the end of the path, pass a very large number here.
- The last three arguments are points that specify the *x,y* coordinates of the preceding control point, the main point, and the following control point of the new point (see "Point" on page 6).

Returns Nothing.

Related Functions dom.insertPointInPath()

dom.appendPointToSlice()

Availability Fireworks 3.0

Description Appends a point to the selected unclosed polygon slice. If an unclosed polygon slice is not selected, then a new polygon slice is created with a single point (the one passed in).

Arguments *pt, tolerance*

- The first argument is a point that specifies the *x,y* coordinates of the point to be added (see "Point" on page 6).
- The second argument is a float value > = 0 that specifies the tolerance between the new point and the starting point of the polyline path. If the new point is within *tolerance* of the starting point, the polyline path is closed.

Returns Nothing.

dom.applyCharacterMarkup()

Availability Fireworks 3.0, enhanced in 4.0

Description Applies the specified character markup to the selected text.

Arguments *tag*

Acceptable values for *tag* are "b", "i", and "u", for bold, italic, and underline: and "fwplain", added in Fireworks 4, for text with no character markup.

Returns Nothing.

dom.applyCurrentFill()

Availability Fireworks 3.0

Description Applies the document's current fill to the selection.

Arguments *bNoNullFills*

If *bNoNullFills* is true and the current fill is "none", then a default fill is applied instead of no fill.

Returns Nothing.

Example This command applies the current fill to the selection.

```
fw.getDocumentDOM().applyCurrentFill(true);
```

dom.applyEffects()

Availability Fireworks 3.0

Description Applies the specified effects to the selection.

Arguments *effectList*

- The argument is an EffectList object (see "EffectList" on page 38).
- If *effectList* is null, this function removes all effects from the selection.

Returns Nothing.

Example This command applies a drop shadow with an angle of 315, a blur of 4, a color of black, and a distance of 7 (see "Drop Shadow" on page 34).

```
fw.getDocumentDOM().applyEffects({ category:"Untitled", effects:[ { EffectIsVisible:true,
EffectMoaID:"{a7944db8-6ce2-11d1-8c76000502701850}", ShadowAngle:315,
ShadowBlur:4, ShadowColor:"#000000a6", ShadowDistance:7, ShadowType:0,
category:"Shadow and Glow", name:"Drop Shadow" } ], name:"Untitled" });
```

dom.applyFontMarkup()

Availability Fireworks 3.0

Description Applies the specified font markup attribute to the selected text.

Arguments *fontAttribute, value*

- Acceptable values for *fontAttribute* are "size" and "face".
- If *fontAttribute* is "size", *value* must be of the form "XXXpt" to specify a point size; a simple numeric value is not allowed.

Returns Nothing.

dom.applyStyle()

Availability Fireworks 3.0

Description Applies the specified style to the selection.

Arguments *styleName, styleIndex*

- The first argument is a string that specifies the style name to be applied.
- *styleIndex* is generally always zero. However, if there are multiple styles with the same name, *styleIndex* is used to resolve the ambiguity (0 references the first style with that name, 1 references the second, and so on).

Returns Nothing.

Example This command applies the first style Fireworks encounters named "Style 7", which in this case is a default style.

```
fw.getDocumentDOM().applyStyle("Style 7", 0);
```

dom.arrange()

Availability Fireworks 3.0

Description Arranges the selection.

Arguments *arrangemode*

Acceptable values for *arrangemode* are "back", "backward", "forward", and "front".

Returns Nothing.

Example This command brings the selected items to the front.

```
fw.getDocumentDOM().arrange("front");
```

dom.attachTextToPath()

Availability Fireworks 3.0

Description Attaches the selected text to the selected path. If no text and path are selected, no action is performed.

Arguments None.

Returns Nothing.

Example When there are two items selected, one a text block and the other a shape, this command attaches the text block to the shape's path.

```
fw.getDocumentDOM().attachTextToPath();
```

dom.changeGuide()

Availability Fireworks 3.0

Description Moves a guide's position to a new location.

Arguments *currentPosition, newPosition, guidekind*

- The first argument is a float value that specifies the current position of the guide to be moved.
- The second argument is a float value that specifies the new position of the guide.
- Acceptable values for *guidekind* are "horizontal" and "vertical". If *guidekind* is "horizontal", it is assumed that the specified positions are *y* coordinates; if "vertical", *x* coordinates.

Returns Nothing.

Example This command moves a vertical guide from position 135 to position 275.

```
fw.getDocumentDOM().changeGuide(135, 275, "vertical");
```

dom.clearJPEGMask()

Availability Fireworks 4.0

Description Clears the "Selective JPEG mask" for the document.

Arguments None.

Returns Nothing.

dom.clipCopy()

Availability Fireworks 3.0

Description Copies the selection to the Clipboard.

Arguments None.

Returns Nothing.

Example This command copies the selected items to the Clipboard.

```
fw.getDocumentDOM().clipCopy();
```

dom.clipCut()

Availability Fireworks 3.0

Description Cuts the selection to the Clipboard.

Arguments None.

Returns Nothing.

Example This command cuts the selected items and places them on the Clipboard.

```
fw.getDocumentDOM().clipCut();
```

dom.clipPaste()

Availability Fireworks 3.0, enhanced in 4.0

Description Pastes the Clipboard into the document.

Arguments {*whatIfResolutionDifferent, whatIfPastingIntoElementMask*}

- The first argument is an optional string that specifies how resampling should be done if the resolution of the Clipboard doesn't match the resolution of the document. Acceptable values for *whatIfResolutionDifferent* are "resample", "do not resample", and "ask user" (displays a dialog box to let the user decide). If *whatIfResolutionDifferent* is omitted or null, "ask user" is assumed.
- The second optional argument, added in Fireworks 4, applies only if the user is editing an element mask, and that element mask is an empty image mask. In this case, the pasted elements will replace the existing mask (since it is essentially a mask that doesn't mask anything). If the image mask isn't empty, then the pasted elements are added to the existing mask, rather than replacing it.
- Acceptable values for *whatIfPastingIntoElementMask* are "image", "vector", and "ask user". If *whatIfPastingIntoElementMask* is omitted or null, "ask user" is assumed.

Returns Nothing.

Example This command pastes the Clipboard contents into the document. If there is a need for resampling, Fireworks asks the user to decide how to resample.

```
fw.getDocumentDOM().clipPaste();
```

dom.clipPasteAsMask()

Availability Fireworks 4.0

Description Pastes the Clipboard contents into the document as an element mask. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown. An exception is also thrown if there is nothing on the Clipboard.

Arguments *whatIfResolutionDifferent, masktype, maskReplaceOptions*

- The first argument is a string that specifies how resampling should be done if the resolution of the Clipboard doesn't match the resolution of the document. Acceptable values for *whatIfResolutionDifferent* are "resample", "do not resample", and "ask user" (displays a dialog box to let the user decide). If *whatIfResolutionDifferent* is omitted or null, "ask user" is assumed.
- The second argument specifies how to paste the mask. Acceptable values are "image" (always paste as an image mask), "vector" (always paste as a vector mask), and "ask" (displays a dialog box to let the user decide). Note that if the Clipboard contains a single image, it is pasted as an image mask, even if you pass "vector".
- Acceptable values for *maskReplaceOptions* are "replace" (if an element mask already exists, replace it with the pasted one), "add" (if an element mask already exists, add the pasted mask to it), and "ask" (displays a dialog box to let the user decide).

Returns Nothing.

dom.clipPasteAttributes()

Availability Fireworks 3.0

Description Pastes the attributes from the Clipboard onto the selection.

Arguments None.

Returns Nothing.

Example This command applies the attributes that were copied to the Clipboard onto the selected items.

```
fw.getDocumentDOM().clipPasteAttributes();
```

dom.clipPasteInside()

Availability Fireworks 3.0, deprecated in 4.0 in favor of dom.clipPasteAsMask() (see "dom.clipPasteAsMask()" on page 82).

Description Pastes the Clipboard contents into the selection, then makes the selected element into the element mask for the pasted element(s). If the selected element already has a mask, this function groups the pasted elements with the selected element and applies the existing element mask to the group.

Arguments {*whatIfResolutionDifferent*}

- The argument is an optional string that specifies how resampling should be done if the resolution of the Clipboard doesn't match the resolution of the document. Acceptable values for *whatIfResolutionDifferent* are "resample", "do not resample", and "ask user" (displays a dialog box to let the user decide).
- If *whatIfResolutionDifferent* is omitted or null, "ask user" is assumed.

Returns Nothing.

Example This command pastes the Clipboard contents inside the selected items. If the resolution of the Clipboard doesn't match the resolution of the document, Fireworks resamples the Clipboard contents to match the document.

```
fw.getDocumentDOM().clipPasteInside("resample");
```

dom.cloneSelection()

Availability Fireworks 3.0

Description Makes exact duplicates of the selection, placing the duplicated items directly on top of the originals.

Arguments None.

Returns Nothing.

Example Copies the selected items on top of the originals.

```
fw.getDocumentDOM().cloneSelection();
```

Related Functions dom.duplicateSelection()

dom.close()

Availability Fireworks 3.0

Description Closes the document.

Arguments *bPromptToSaveChanges*

If *bPromptToSaveChanges* is true, and the document was changed since the last time it was saved, the user is prompted to save any changes to the document. If *bPromptToSaveChanges* is false, the user is not prompted, and changes to the document are discarded.

dom.convertAnimSymbolToGraphicSymbol()

Availability Fireworks 4.0

Description If a single animation symbol is selected, this function converts it from an animation symbol to a graphics symbol.

Arguments None.

Returns Nothing.

Related Functions dom.convertToAnimSymbol(), dom.convertToSymbol()

dom.convertToAnimSymbol()

Availability Fireworks 4.0

Description Converts the selected item(s) to a new animation symbol.

Arguments *name, numFrames, offsetDistPt, rotationAmount, scaleAmount, startOpacity, endOpacity*

- The first argument is a string that specifies a name for the new animation symbol.
- The second argument (*numFrames*) is an integer that specifies the number of frames through which the symbol animates.
- The next argument (*offsetDistPt*) is a point that specifies the distance the animation will move in pixels (see "Point" on page 6). For example, passing ({x:100, y:25}) animates the symbol right 100 pixels and down 25 pixels.
- The next argument (*rotationAmount*) is a float value that specifies the degrees of rotation to be applied to the animation symbol. For example, passing 720 specifies an animation that does two complete clockwise rotations. To rotate the animation counter-clockwise, pass a negative number.
- The next argument (*scaleAmount*) is a positive float value that specifies the amount of scaling to be applied to the animation symbol. For example, passing 50 scales the symbol to 50% of its current size, while passing 200 scales it to twice its current size. To specify no scaling, pass 100.
- The last two arguments (*startOpacity* and *endOpacity*) are float values between 0 and 100 that specify the starting and ending opacity for the animation symbol.

Returns Nothing.

Related Functions dom.convertAnimSymbolToGraphicSymbol(), dom.convertToSymbol(), dom.setAnimInstanceNumFrames()

dom.convertToPaths()

Availability Fireworks 3.0

Description Converts the selected text items into editable paths.

Arguments None.

Returns Nothing.

Example This command converts the selected text items into editable paths.

```
fw.getDocumentDOM().convertToPaths();
```

dom.convertToSymbol()

Availability Fireworks 3.0

Description Converts the selected item(s) to a new symbol.

Arguments *type, name*

- Acceptable values for *type* are "graphic", "button", and "animation".
- The second argument specifies a name for the new symbol.

Returns Nothing.

Example This command creates a graphic symbol from the selected item and names it “star”.

```
fw.getDocumentDOM().convertToSymbol("graphic", "star");
```

Related Functions dom.convertToAnimSymbol(), dom.convertAnimSymbolToGraphicSymbol()

dom.copyToHotspot()

Availability Fireworks 3.0

Description Creates one or more hotspots from the selection.

Arguments *hotspotType, {whatIfMultipleSelected}*

- Acceptable values for *hotspotType* are "hotspot" and "slice".
- The second argument is an optional string that specifies how to create hotspots if multiple items are selected. Acceptable values for *whatIfMultipleSelected* are "single" (creates a single hotspot having the same bounding rectangle as the selection), "multiple" (creates one hotspot for each item), and "ask user" (displays a dialog box to let the user decide).
- If *whatIfMultipleSelected* is omitted or null, "ask user" is assumed.

Returns Nothing.

Example This command adds a hotspot to the selected item. If more than one item is selected, Fireworks creates one hotspot for each item.

```
fw.getDocumentDOM().copyToHotspot("hotspot", "multiple");
```

dom.cropSelection()

Availability Fireworks 3.0

Description Crops the selection to the specified rectangle.

Arguments *boundingRectangle*

The argument is a rectangle that specifies the bounds within which the selection should be cropped (see "Rectangle" on page 7).

Returns Nothing.

dom.deleteFrames()

Availability Fireworks 3.0

Description Deletes one or more frames.

Arguments *frameIndex, howMany*

- The first argument is a zero-based integer that specifies the location at which to begin deleting frames. To specify the current frame, pass –1.
- The second argument specifies how many frames to delete.

Returns Nothing.

dom.deleteLayer()

Availability Fireworks 3.0

Description Deletes a layer.

Arguments *layerIndex*

The argument is a zero-based integer that specifies the layer to be deleted. To specify the current layer, pass –1.

Returns Nothing.

Example This command deletes the current layer.

```
fw.getDocumentDOM().deleteLayer(-1);
```

dom.deletePointOnPath()

Availability Fireworks 4.0

Description Deletes the specified point on the currently selected path. If the point is the only one on its contour, the entire contour is deleted. If the point is the only one in the path, the entire path is deleted. The specified point does not need to be selected.

Arguments *contourIndex, pointIndex*

- The first argument is a zero-based integer that specifies the contour that contains the point to be deleted. To specify the current contour, pass –1.
- The second argument is a zero-based integer that specifies the point to be deleted. To specify the current point, pass –1.

Returns Nothing.

Example This command deletes the currently selected point.

```
fw.getDocumentDOM().deletePointOnPath(-1, -1);
```

dom.deleteSelection()

Availability Fireworks 3.0

Description Deletes the selection, or the pixel-selection if Fireworks is in bitmap mode.

Arguments *bFillDeletedArea*

- The argument is ignored if you are not in bitmap mode.
- If Fireworks is in bitmap mode and *bFillDeletedArea* is true, the deleted pixels are filled with the current fill color. If false, the deleted pixels are filled to transparent.

Returns Nothing.

Example If Fireworks is not in bitmap mode, this command deletes the selected items. If Fireworks is in bitmap mode, this command fills the selected items to transparent.

```
fw.getDocumentDOM().deleteSelection(false);
```

dom.deleteSymbol()

Availability Fireworks 3.0

Description Deletes the specified symbols from the Library.

Arguments *symbolName*

The argument is the name of the symbol to be deleted from the Library. If more than one symbol exists with this name, only the first symbol is deleted.

- To delete all selected symbols from the Library (not document), pass null.
- If the deleted symbols contain any active instances in the document, the instances are also deleted.

Returns Nothing.

Example This command deletes the selected symbols from the Library as well as any active instances from the document.

```
fw.getDocumentDOM().deleteSymbol(null);
```

dom.detachInstanceFromSymbol()

Availability Fireworks 3.0

Description Breaks the links between the selected instances and the owning symbols.

Arguments None.

Returns Nothing.

dom.detachTextFromPath()

Availability Fireworks 3.0

Description Splits the selected text-on-a-path into its original text and path items.

Arguments None.

Returns Nothing.

dom.distribute()

Availability Fireworks 3.0

Description Distributes the selection along a vertical or horizontal dimension.

Arguments *dimension*

Acceptable values for *dimension* are "vertical" and "horizontal".

Returns Nothing.

dom.distributeLayerToFrames()

Availability Fireworks 3.0

Description Distributes the items on the specified layer to the frames of the document, adding frames if necessary. The first item on the layer goes to the first frame, the second item to the second frame, and so on. New frames are added to the document, if necessary. If there is only one item in the specified layer, this function has no effect.

Arguments *layerIndex*

The argument is a zero-based integer that specifies the layer containing the items to be distributed. To specify the current layer, pass –1.

Returns Nothing.

dom.distributeSelectionToFrames()

Availability Fireworks 3.0

Description Distributes the selected items to the frames of the document, adding frames if necessary. The first item goes to the current frame, the second item to the next frame, and so on. If only one item is selected, this function has no effect.

Arguments None.

Returns Nothing.

dom.duplicateFrame()

Availability Fireworks 3.0

Description Duplicates a frame.

Arguments *frameIndex, howMany, where, bDupeSelectionOnly*

- The first argument is a zero-based integer that specifies the frame to duplicate. To specify the current frame, pass –1.
- The second argument is an integer that specifies how many copies of the frame to make.
- Acceptable values for *where* are "beginning", "before current", "after current", and "end".
- If *bDupeSelectionOnly* is true, then only items in the specified frame that are selected are duplicated to the new frame.

Returns Nothing.

Example This command makes one copy of the current frame and places the new frame after the current frame.

```
fw.getDocumentDOM().duplicateFrame(-1, 1, "after current", false);
```

dom.duplicateLayer()

Availability Fireworks 3.0

Description Duplicates a layer.

Arguments *layerIndex, {howMany}, {where}*

- The first argument is a zero-based integer that specifies the layer to duplicate. To specify the current layer, pass –1.
- The second argument is an optional integer that specifies how many times to duplicate the layer. If omitted, the layer is duplicated once.
- The third (optional) argument specifies where to put the new layer(s) in relation to the source layer. Acceptable values are "beginning", "before current", "after current", and "end". If omitted, "before current" is assumed.

Returns Nothing.

Example This command places three copies of the current layer at the end of the document.

```
fw.getDocumentDOM().duplicateLayer(-1, 3, "end");
```

dom.duplicateSelection()

Availability Fireworks 3.0

Description Makes an exact duplicate of the selection, offsetting it slightly from the original.

Arguments None.

Returns Nothing.

Example This command duplicates the selected items.

```
fw.getDocumentDOM().duplicateSelection();
```

Related Functions dom.cloneSelection()

dom.duplicateSelectionToFrameRange()

Availability Fireworks 3.0

Description Duplicates the selection to a range of frames of the document.

Arguments *frameIndexFirst, frameIndexLast*

The arguments are zero-based integers that specify the range of frames (inclusive) to which the items should be copied. To specify the current frame, pass –1.

- If both arguments are the same, copies are placed only on that frame.
- If the range includes the current frame, copies are not placed on that frame.

Returns Nothing.

dom.duplicateSelectionToFrames()

Availability Fireworks 3.0

Description Duplicates the selection to specified frames of the document.

Arguments *whichFrames*

- Acceptable values for *whichFrames* are "all", "previous", "next", and "end".
- Note that "end" means the last frame of the document; it does not add a new frame.

Returns Nothing.

dom.duplicateSymbol()

Availability Fireworks 3.0

Description Duplicates the specified symbol.

The argument is a the symbol to be duplicated.

- To duplicate all selected symbols in the Library (not document), pass a value null.
- Duplicating a linked symbol results in a nonlinked duplicate.

Returns Nothing.

dom.duplicateSymbolForAlias()

Availability Fireworks 3.0

Description If any symbol instances are selected, this function makes duplicate symbols of all symbols pointed to by those instances. The selected instances are updated to point to the new duplicate copies of the symbols. Duplicate symbols always result in nonlinked duplicates. (The use of the word “alias” in the function name corresponds to an “instance” in a Fireworks document.)

Arguments None.

Returns Nothing.

dom.enableElementMask()

Availability Fireworks 4.0

Description Enables or disables the element mask on the selected element. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown.

Arguments *bEnabled*

If *bEnabled* is true, the element mask is enabled; if false, it is disabled.

Returns Nothing.

dom.enterElementMaskEditMode()

Availability Fireworks 4.0

Description Places Fireworks in element-mask edit mode for the selection. If the selection contains no mask elements, an exception is thrown.

Arguments None.

Returns Nothing.

dom.enterPaintMode()

Availability Fireworks 3.0

Description Enters bitmap mode on the selected items. Has no effect if nothing is selected or if a non-image item is selected.

Arguments None.

Returns Nothing.

dom.exitElementMaskEditMode()

Availability Fireworks 4.0

Description Takes Fireworks out of element-mask edit mode. If Fireworks is not in this mode, this function has no effect.

Arguments None.

Returns Nothing.

dom.exitPaintMode()

Availability Fireworks 3.0

Description Leaves bitmap mode. Has no effect if Fireworks is not in bitmap mode.

Arguments None.

Returns Nothing.

dom.exportOptions.loadColorPalette()

Availability Fireworks 3.0

Description Replaces the values in dom.exportOptions.paletteEntries with those in the specified GIF or ACT file. This function also sets dom.exportOptions.paletteMode to "custom". For more information, see "ExportOptions" on page 41.

Arguments *fileURL*

The argument is a string, expressed as a file:// URL, that specifies the GIF or ACT file to be used to replace the color palette.

Returns true if the file was read successfully, false if the file was not of the expected format or was not read successfully for any other reason.

dom.exportOptions.saveColorPalette()

Availability Fireworks 3.0

Description Saves the values in dom.exportOptions.paletteEntries to the specified color palette (ACT file). This function does not modify the document. For more information, see "ExportOptions" on page 41.

Arguments *fileURL*

The argument is a string, expressed as a file:// URL, that specifies the name of the file to which the color palette should be saved. Do not specify a file extension; the .act extension is added automatically.

Returns Nothing.

dom.exportTo()

Availability Fireworks 3.0

Description Exports the document as specified.

Arguments *fileURL, {exportOptions}*

- The first argument is a string, expressed as a file:// URL, that specifies the name of the exported file.
- The second (optional) argument is an ExportOptions object (see "ExportOptions" on page 41). If this argument is omitted or null, the document's current export options settings are used. If values are passed in with *exportOptions*, they are used for this export operation only; they do not change the document's exportOptions property.

Returns true if the file was successfully exported, false otherwise.

dom.fillSelectedPixels()

Availability Fireworks 3.0

Description When the selection is an image and Fireworks is in bitmap mode, fills the selected pixels with the current fill or generates a new pixel selection.

Arguments *clickPt, p1, p2, p3, bFillSelectionOnly, tolerance, edgemode, featherAmt*

- The first argument is a point that specifies the *x,y* coordinates of the pixel to be filled or generated (see "Point" on page 6).
- The second, third, and fourth arguments are points that specify the fill-vector. These arguments are ignored if the current fill does not use a fill-vector.
- If the fifth argument (*bFillSelectionOnly*) is true, the remaining arguments are ignored. If it is false, then the current pixel selection is ignored, and a new one is generated using the values passed for *tolerance*, *edgemode*, and *featherAmt*. (This behavior is the same as if the magic wand tool were used at location *clickPt*.)
- The sixth argument (*tolerance*) is an integer between 0 and 255 inclusive that specifies the tolerance for selecting pixels.
- Acceptable values for *edgemode* are "hard edge", "antialias", and "feather".
- The last argument (*featherAmt*) is an integer between 0 and 32000 inclusive that specifies the number of pixels to feather. This value is ignored if *edgemode* is not "feather".

Returns Nothing.

Example This command fills the selection with a hard edge, tolerance set to 32.

```
fw.getDocumentDOM().fillSelectedPixels({x:207, y:199}, {x:207, y:199}, {x:207, y:199},
{x:207, y:199}, false, 32, "hard edge", 0);
```

dom.filterSelection()

Availability Fireworks 3.0

Description Applies the specified pixel filter to the selection. Non-image items are converted into images before the filter is applied. Only external filters that are capable of also being Live Effects can be applied using this function. To apply other types of external filters, use dom.filterSelectionByName().

Arguments *LiveEffect*

The argument is an Effect object (see "Effect" on page 31).

Returns Nothing.

Example This command runs the selected pixels through the hue/saturation filter and then sets hue to 30 and saturation to 20.

```
fw.getDocumentDOM().filterSelection({
    EffectMoaID:"{3439b08d-1922-11d3-9bde00e02910d580}",
    hls_colorize:true, hue_amount:30, lightness_amount:0, saturation_amount:20
});
```

dom.filterSelectionByName()

Availability Fireworks 3.0

Description Applies the specified pixel filter to the selection. This is applied as a permanent (but undoable) action, not as a Live Effect. (To apply filters that can also be Live Effects, you can use dom.filterSelection().) This function always displays a dialog box.

Arguments *category, name*

- The first argument is a string that specifies the category of the pixel filter to be applied. Acceptable values depend on which filters you have installed.
- The second argument is a string that specifies the name of the pixel filter to be applied. Acceptable values depend on which filters you have installed.

Returns Nothing.

dom.findExportFormatOptionsByName()

Availability Fireworks 3.0

Description Looks for a set of export settings that were saved with the specified name.

Arguments *name*

The argument is a string that specifies the name of the set of export settings to look for.

Returns If there is a set of export settings with the specified name, returns an object representing it; otherwise returns null.

dom.findNamedElements()

Availability Fireworks 4.0

Description Looks for elements that have the specified name.

Arguments *name*

The argument is a case-sensitive string that specifies the exact element name to look for. To specify elements that have no name, pass null.

Returns An array of elements that have the specified name, or null if no objects have the specified name.

Related Functions dom.setElementName()

dom.flattenDocument()

Availability Fireworks 3.0

Description Flattens the entire document into a single pixel image. This is the same behavior as the Merge Layers command.

Arguments None.

Returns Nothing.

dom.flattenSelection()

Availability Fireworks 3.0

Description Flattens the selection into a single pixel image. This is the same behavior as the Merge Images command.

Arguments None.

Returns Nothing.

dom.getFontMarkup()

Availability Fireworks 3.0

Description Gets a font markup attribute for the selected text.

Arguments *fontAttribute*

Acceptable values for *fontAttribute* are "size", "color", and "face".

Returns A string specifying the markup value. Returns null if the text has multiple attributes or if the selection contains no text.

dom.getPixelMask()

Availability Fireworks 3.0, deprecated in 4.0

Description Gets the current pixel-selection mask.

Arguments None.

Returns The mask for the current pixel selection. Returns null if Fireworks is not in bitmap mode, or if there is no pixel selection. For information on the format of mask variables, see "Mask" on page 6.

dom.getSelectionBounds()

Availability Fireworks 3.0

Description Gets the bounding rectangle of the selection.

Arguments None.

Returns A rectangle (see "Rectangle" on page 7). Returns null if nothing is selected.

dom.getShowGrid()

Availability Fireworks 3.0

Description Determines if the grid is visible.

Arguments None.

Returns true if the grid is visible, false if it is not.

dom.getShowRulers()

Availability Fireworks 3.0

Description Determines if the rulers are visible.

Arguments None.

Returns true if the rulers are visible, false if they are not.

dom.getSnapToGrid()

Availability Fireworks 3.0

Description Determines if the Snap to Grid function is active.

Arguments None.

Returns true if the Snap to Grid function is active, false if it is not.

dom.getTextAlignment()

Availability Fireworks 3.0

Description Gets the alignment of selected text.

Arguments None.

Returns One of the following strings: "left", "center", "right", "justify", "stretch", "vertical left", "vertical center", "vertical right", "vertical justify", or "vertical stretch". Returns null if the text has multiple alignments or if the selection contains no text.

dom.group()

Availability Fireworks 3.0, argument deprecated in 4.0

Description Groups the selection. To ungroup elements use dom.ungroup() (see "dom.ungroup()" on page 154).

Arguments {*type*}

The argument is an optional string that specifies how to group the items. Acceptable values are "normal", "mask to image", and "mask to path". If the argument is omitted, "normal" is assumed. "mask to image" and "mask to path" are deprecated in Fireworks 4.

Returns Nothing.

Example This command sets the selected group to mask to the image.

```
replace with fw.getDocumentDOM().group("normal");
```

dom.hasCharacterMarkup()

Availability Fireworks 3.0, enhanced in 4.0

Description Determines if the selected text has the specified character markup.

Arguments *tag*

Acceptable values for *tag* are "b", "i", and "u", for bold, italic, and underline; and "fwplain", added in Fireworks 4, for text with no character markup.

Returns true if the text has the specified character markup, false if it does not or if only part of the text has the markup.

dom.hideSelection()

Availability Fireworks 3.0

Description Hides the selection. To redisplay it, use dom.showAllHidden().

Arguments None.

Returns Nothing.

dom.importFile()

Availability Fireworks 3.0

Description Imports the specified file at the specified location.

Arguments *fileURL, boundingRectangle, bMaintainAspectRatio*

- The first argument is the file name, expressed as a file:// URL, of the file to be imported.
- The second argument is a rectangle that specifies the size to make the imported file (see "Rectangle" on page 7). If *boundingRectangle* is specified with left == right and top == bottom, the file is brought in unscaled with its top-left corner at that point, and the third argument is ignored.
- If the third argument (*bMaintainAspectRatio*) is true, the file is scaled to the largest size that fits within *boundingRectangle* while retaining the file's current aspect ratio. (This is a handy option for creating thumbnails.) If it is false, the file is scaled to fill *boundingRectangle*.

Returns Nothing.

Example This command imports the specified file and maintains its aspect ratio.

```
fw.getDocumentDOM().importFile("file:///C|/images", {left:25, top:50, right:100,
bottom:250}, true);
```

dom.importSymbol()

Availability Fireworks 3.0

Description Imports the specified external graphics file (for example, GIF, JPEG, or Fireworks document) into the Library of the document.

Arguments *fileURL, bAddToDoc, bAllowUI*

- The first argument is the name of the file to be imported into the Library, expressed as a file:// URL.
- If the second argument (*bAddToDoc*) is true, then the symbol is added to the Library and an instance of the symbol is inserted into the center of the document. If it is false, the symbol is added only to the Library.
- If the third argument (*bAllowUI*) is true, and *fileURL* is a Fireworks document containing symbols, then a dialog box allows the user to specify which symbols to import from the external file. If it is false, then all symbols in the external file are imported.

Returns Nothing.

dom.insertPointInPath()

Availability Fireworks 3.0

Description Inserts a Bézier point in the selected path. This function is similar to dom.appendPointToPath() but includes a t-parameter argument, which gives you finer control over where the point is inserted.

Arguments *contourIndex, ptToInsertBefore, tParameter, controlPointFirst, mainPoint, controlPointLast*

- The first argument is a zero-based integer that specifies the contour into which the Bézier point is inserted. For paths with multiple contours, the contours are in an arbitrary order.
- The second argument is a zero-based integer that specifies where on the path the new point should be placed. The new point is appended before (in front of) the point represented by this integer: To add a point to the beginning of the path, pass 0 here; to add a point to the end of the path, pass a very large number here.
- The third argument is a float value between 0 and 1 that specifies where in the Bézier segment to insert the new point.
- The last three arguments are points that specify the *x,y* coordinates of the preceding control point, the main point, and the following control point of the new point (see “Point” on page 6).

Returns Nothing.

Related Functions dom.appendPointToPath()

dom.joinPaths()

Availability Fireworks 3.0

Description Joins the selected paths.

Arguments None.

Returns Nothing.

dom.knifeElementsFromPoint()

Availability Fireworks 3.0

Description When the user clicks a single point while using the knife tool, this function knifes additional items within the specified tolerance. This is similar to using the knife tool with a single click.

Arguments *from, tolerance*

- The first argument is a point that specifies the *x,y* coordinates of the point that the user clicked (see "Point" on page 6).
- The second argument is a float value > = 0 that specifies the tolerance within which items are knifed.

Returns true if anything was knifed, false otherwise.

Related Functions dom.knifeElementsFromPoints()

dom.knifeElementsFromPoints()

Availability Fireworks 3.0

Description When the user drags while using the knife tool, this function knifes additional items within the specified tolerance. This is similar to using the knife tool with a drag operation.

Arguments *from, to, tolerance*

- The first argument is a point that specifies the *x,y* coordinates of the point where the user clicked and started to drag (see "Point" on page 6).
- The second argument is a point that specifies the *x,y* coordinates of the point where the user ended the drag operation.
- The last argument is a float value > = 0 that specifies the tolerance within which items are knifed.

Returns true if anything was knifed, false otherwise.

Related Functions dom.knifeElementsFromPoint()

dom.linkElementMask()

Availability Fireworks 4.0

Description Links or unlinks the element mask on the selected element. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown. An exception is also thrown if the element has no element mask.

Arguments *frame, layer, element, bLink*

- The first argument is a zero-based integer that specifies the frame containing the element. To specify the current frame, pass –1.
- The second argument is a zero-based integer that specifies the layer containing the element. To specify the current layer, pass –1.
- The third argument is a zero-based integer that specifies the element. To specify the current element, pass –1.
- If *bLink* is true, the element masks are linked to their elements; if false, they are unlinked from their elements.

Returns Nothing.

dom.makeFind()

Availability Fireworks 3.0

Description Creates an object of class Find to do a find-and-replace operation in this document.

Arguments *findSpec*

The argument is a Find object (see "Find" on page 20).

dom.makeGoodNativeFilePath()

Availability Fireworks 3.0

Description Ensures that the specified file URL ends in a .png extension. Does not affect the name of the file on disk.

Arguments *fileURL*

The argument is the name of the file, expressed as a file:// URL, whose extension should be changed to .png, if necessary.

Returns A string containing the file URL with a .png extension.

Example The following command returns "file:///My Documents/image01.png".

```
fw.getDocumentDOM().makeGoodNativeFilePath("file:///My Documents/image01.ping")
```

dom.makeActive()

Availability Fireworks 3.0

Description Makes the selected document active for editing.

Arguments None.

Returns Nothing.

dom.modifyPointOnPath()

Availability Fireworks 3.0

Description Modifies an existing point on the selected path.

Arguments *contourIndex, ptToModify, controlPointFirst, mainPoint, controlPointLast, dReapplyAttrs, bClosePath*

- The first argument is a zero-based integer that specifies the contour into which the Bézier point is inserted. For paths with multiple contours, the contours are in an arbitrary order.
- The second argument is a zero-based integer that specifies the point to be modified.
- The next three arguments are points that specify the *x,y* coordinates of the preceding control point, the main point, and the following control point of the new point (see "Point" on page 6).
- If the sixth argument (*dReapplyAttrs*) is true, the path has the document's current fill, stroke, and so on reapplied to it. If it is false, then the path attributes are not changed.
- If the last argument (*bClosePath*) is true, the path is marked as closed after modifying the point. If it is false, then the path retains its original open or closed value.

Returns Nothing.

dom.moveBezierHandleBy()

Availability Fireworks 3.0

Description Moves the specified point's Bézier handles by a certain amount.

Arguments *whichPath, contourIndex, ptToModify, deltaControlPointFirst, deltaControlPointLast*

- The first argument is a zero-based integer that specifies an index into the list of selected items, indicating which item contains the Bézier handles to be moved.
- The second argument is a zero-based integer that specifies the contour containing the handles to be moved. For paths with multiple contours, the contours are in an arbitrary order.
- The third argument is a zero-based integer that specifies the point whose handles are moved.
- The last two arguments are points that specify the *x,y* coordinate values by which the preceding control point and the following control point of *ptToModify* are moved. For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.moveElementMaskBy()

Availability Fireworks 4.0

Description For all elements in the selection that have element masks (linked or unlinked), moves the element masks by the specified amount. Elements without element masks are ignored. If no elements in the selection have element masks, an exception is thrown.

Arguments *delta*

The argument is a point that specifies the *x,y* coordinate values by which the element masks are moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.moveFillVectorHandleBy()

Availability Fireworks 3.0

Description If the selection has a fill that uses a fill vector (for example, a gradient fill of some sort), this function adjusts the handles of the fill vector. If it does not, this function has no effect.

Arguments *delta, whichHandle, bConstrain, bMoveJustOne*

- The first argument is a point that specifies the *x,y* coordinate values by which the handle is moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.
- The second argument specifies which handle to move and can be one of the following values: "start", "end1", "end2", "rotate1", or "rotate2". (Some fills ignore "end2".) Use "rotate1" or "rotate2" to rotate the end1 or end2 point around the start point.
- If the third argument (*bConstrain*) is true, movement is constrained to 45-degree increments.
- If the last argument (*bConstrain*) is true, then only the specified handle is moved. If it is false, other handles may move in sync when the specified handle is moved.

Returns Nothing.

dom.moveMaskGroupContentsBy()

Availability Fireworks 3.0

Description If the selection is a mask group, this function moves the contents within the mask group by the specified amount. If the selected element has an element mask, this function moves the element (not the element mask) by the specified amount.

Arguments *delta*

The argument is a point that specifies the *x,y* coordinate values by which the element is moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

Related Functions dom.moveElementMaskBy()

dom.movePixelMaskBy()

Availability Fireworks 4.0

Description Moves a bitmap mode selection by the specified amount, without moving the pixels that are within the selection.

Arguments *delta*

The argument is a point that specifies the *x,y* coordinate values by which the bitmap mode selection is moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.movePointOnHotspotBy()

Availability Fireworks 3.0

Description If the selection is a hotspot or slice of the polyline variety, this function moves a point on the hotspot's path by the specified amount.

Arguments *ptToModifyIndex, delta*

- The first argument is a zero-based integer that specifies which point on the path is to be moved.
- The second argument is a point that specifies the *x,y* coordinate values by which the point is moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.moveSelectedBézierPointsBy()

Availability Fireworks 3.0

Description If the selection contains at least one path with at least one Bézier point selected, this function moves all selected Bézier points on all selected paths by the specified amount.

Arguments *delta*

The argument is a point that specifies the *x,y* coordinate values by which the selected Bézier points are moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.moveSelectionBy()

Availability Fireworks 3.0

Description Moves the selected items by the specified amount or makes a copy of them offset from the original by the specified amount.

Arguments *delta, bMakeCopy*

- The first argument is a point that specifies the *x,y* coordinate values by which the selection moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location one pixel and down .
- second argument is the items copied instead of moved.

Returns Nothing.

Example The following command moves the selected items 62 pixels to the right and 84 pixels down.

```
fw.getDocumentDOM().moveSelectionBy({x:62, y:84}, false, false);
```

dom.moveSelectionMaskBy()

Availability Fireworks 4.0

Description Moves the current pixel mask by the specified amount. If there is no pixel selection, an exception is thrown.

Arguments *delta*

The argument is a point that specifies the *x,y* coordinate values by which the mask is moved (see "Point" on page 6). For example, passing ({x:1,y:2}) specifies a location right by one pixel and down by two pixels.

Returns Nothing.

dom.moveSelectionTo()

Availability Fireworks 3.0

Description Moves or copies the selection to the specified location.

Arguments *location, bMakeCopy*

- The first argument is a point that specifies the *x,y* coordinate values of the location to which the selection moved or copied (see "Point" on page 6).
- second argument is the copied instead of moved.

Returns Nothing.

dom.moveSelectionToFrame()

Availability Fireworks 3.0

Description Moves or copies the selection to the specified frame.

Arguments *frameIndex, bMakeCopy*

- The first argument is a zero-based integer that specifies the frame to which the selection is moved or copied. To specify the current frame, pass –1.
- If the second argument is true, the selection is copied instead of moved.

Returns Nothing.

dom.moveSelectionToLayer()

Availability Fireworks 3.0, enhanced in 4.0

Description Moves or copies the selection to the specified layer.

Arguments *layerIndex, bMakeCopy,* {*whatIfMultipleSelected*}, {*elementIndex*}

- The first argument is a zero-based integer that specifies the layer to which the selection should be moved or copied. To specify the current layer, pass -1.
- If the second argument is true, the selection is copied instead of moved.
- The third argument (*whatIfMultipleSelected*) is an optional string that is used only if the destination is a Web layer and *bMakeCopy* is true. It specifies how to create hotspots if multiple items are selected. Acceptable values for *whatIfMultipleSelected* are "single" (creates a single hotspot having the same bounding rectangle as the selection), "multiple" (creates one hotspot for each item), and "ask user" (displays a dialog box to let the user decide). If *whatIfMultipleSelected* is omitted or null, "ask user" is assumed.
- The fourth argument (*elementIndex*), added in Fireworks 4, is a zero-based index that specifies the element before which the moved or copied selection should be inserted. If *elementIndex* is omitted, the selection is placed at the top of the layer (before any other elements). Otherwise, it is an index within the existing elements in the layer, where 0 is the topmost, and (n-1) is the last element (for a layer with n elements). The maximum value is the number of elements previously in the layer—meaning that the elements are moved to the bottom of the specified layer.

Returns Nothing.

dom.moveSelectionToNewLayer()

Availability Fireworks 3.0

Description Makes a new layer with a default name, then moves or copies the selection to that new layer.

Arguments *bMakeCopy*

If the argument is true, the selected items are copied instead of moved.

Returns Nothing.

dom.pathCrop()

Availability Fireworks 3.0

Description Performs a Crop operation on the selected paths.

Arguments None.

Returns Nothing.

dom.pathExpand()

Availability Fireworks 3.0

Description Performs an Expand operation on the selected paths.

Arguments *width, miter, cap, join*

- The first argument is a float value that specifies the new width of the selected paths, in pixels.
- The second argument is a float value that specifies the new miter angle of the selected paths, in pixels. This argument is ignored if *join* is not "miter".
- Acceptable values for *cap* are "butt", "square", and "round".
- Acceptable values for *join* are "bevel", "round", and "miter".

Returns Nothing.

dom.pathInset()

Availability Fireworks 3.0

Description Performs an Inset operation on the selected paths.

Arguments *width, miter, join*

- The first argument is a float value that specifies the new width of the selected paths, in pixels.
- The second argument is a float value that specifies the new miter angle of the selected paths, in pixels. This argument is ignored if *join* is not "miter".
- Acceptable values for *join* are "bevel", "round", and "miter".

Returns Nothing.

dom.pathIntersect()

Availability Fireworks 3.0

Description Performs an Intersect operation on the selected paths.

Arguments None.

Returns Nothing.

dom.pathPunch()

Availability Fireworks 3.0

Description Performs a Punch operation on the selected paths.

Arguments None.

Returns Nothing.

dom.pathSimplify()

Availability Fireworks 3.0

Description Performs a Simplify operation on the selected paths.

Arguments *limit*

The argument is a float value that specifies how much to simplify. This value corresponds to the value in the Modify > Alter Path > Simplify dialog box.

Returns Nothing.

dom.pathUnion()

Availability Fireworks 3.0

Description Performs a Union operation on the selected paths.

Arguments None.

Returns Nothing.

dom.rebuildColorTable()

Availability Fireworks 3.0

Description Rebuilds the color table for the current export settings of the document. This is the same behavior as choosing Rebuild Color Table from the Color Table panel.

Arguments None.

Returns Nothing.

dom.redo()

Availability Fireworks 3.0

Description Redoes the last action that was undone in the document.

Arguments None.

Returns Nothing.

dom.reflectSelection()

Availability Fireworks 3.0

Description Reflects the selection vertically or horizontally, or both.

Arguments *bHoriz, bVert, opts*

- If the first value is true, the items are reflected horizontally.
- If the second value is true, the items are reflected vertically.
- Acceptable values for *opts* are "transformAttributes", "autoTrimImages", and "autoTrimImages transformAttributes".

Returns Nothing.

dom.removeAllGuides()

Availability Fireworks 3.0

Description Removes all guides of the specified type.

Arguments *guidekind*

Acceptable values for *guidekind* are "horizontal" and "vertical".

Returns Nothing.

dom.removeBehavior()

Availability Fireworks 3.0

Description Removes one or all behavior events from the selected hotspots and slices.

Arguments {*event*}, {*eventIndex*}

- Both arguments are optional; if they are omitted, this function removes all events from selected hotspots and slices.
- The first argument specifies the event that triggers the behavior. This argument is ignored by Fireworks.
- The second argument is a zero-based integer that specifies the location of the behavior to be removed. To specify the end location, pass –1 here.

Returns Nothing.

Related Functions dom.addBehavior()

dom.removeBrush()

Availability Fireworks 3.0

Description Sets the brush of the selection to None.

Arguments None.

Returns Nothing.

dom.removeCharacterMarkup()

Availability Fireworks 3.0

Description Reapplies the default value for the specified markup type to the text in the selection.

Arguments *tag*

Acceptable values for *tag* are "b", "i", and "u", for bold, italic, and underline.

Returns Nothing.

dom.removeElementMask()

Availability Fireworks 4.0

Description Removes the mask from the selected element. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown.

Arguments *whatIfElementIsAnImage*

- The argument is used only if the element (not the element mask) is an image. Acceptable values for *whatIfElementIsAnImage* are "apply" (apply the element mask to the image before discarding the element mask), "discard" (just discard the element mask), and "ask" (display a dialog box asking the user what to do).
- If you pass "ask" and the user cancels the dialog box, an error is reported.

Returns Nothing.

dom.removeFontMarkup()

Availability Fireworks 3.0

Description Reapplies the default value for the specified font attribute to the text in the selection.

Arguments *fontAttribute*

Acceptable values for *fontAttribute* are "size", "color", and "face".

Returns Nothing.

dom.removeFill()

Availability Fireworks 3.0

Description Sets the fill of the selection to None.

Arguments None.

Returns Nothing.

dom.removeGuide()

Availability Fireworks 3.0

Description Removes the specified guide. If no guide is at that position, this function has no effect.

Arguments *position, guidekind*

- The first argument is a float value that specifies the position of the guide to be removed.
- Acceptable values for *guidekind* are "horizontal" and "vertical". If *guidekind* is "horizontal", it is assumed that *position* is a *y* coordinate; if "vertical", an *x* coordinate.

Returns Nothing.

dom.removeTransformation()

Availability Fireworks 3.0

Description Removes the transformations, if any, from the selected text or instances.

Arguments None.

Returns Nothing.

dom.reorderFrame()

Availability Fireworks 3.0

Description Moves or copies the specified frame before another specified frame.

Arguments *frameToMove, frameToPutItBefore, bMakeCopy*

- The first argument is a zero-based integer that specifies which frame to move or copy.
- The second argument is a zero-based integer that specifies which frame you want to move or copy the frame before. That is, if you pass 1 for *frameToMove* and 0 for *frameToPutItBefore*, the second frame is placed before the first frame.
- If the third argument is true, the specified frame is copied instead of moved.

Returns Nothing.

Example This command moves the third frame before the first frame.

```
fw.getDocumentDOM().reorderFrame(2, 0, false);
```

dom.reorderLayer()

Availability Fireworks 3.0

Description Moves or copies the specified layer before another specified layer.

Arguments *layerToMove, layerToPutItBefore, bMakeCopy*

- The first argument is a zero-based integer that specifies which layer to move or copy.
- The second argument is a zero-based integer that specifies which layer you want to move or copy the layer before. That is, if you pass 1 for *layerToMove* and 0 for *layerToPutItBefore*, the second layer is placed before the first layer.
- If the third argument is true, the specified layer is copied instead of moved.

Returns Nothing.

dom.replaceButtonTextStrings()

Availability Fireworks 3.0

Description Replaces all text items within the document that are defined as button text items with the specified string. (Button text items are defined as the topmost text items on each frame.) Acts on both selected and unselected items.

Arguments *newString, uniformAttrs*

- The first argument specifies the string to be used as replacement text.
- If *uniformAttrs* is false, each character retains the attributes of the character formerly in its position; that is, Fireworks does its best to preserve the existing formatting. If *uniformAttrs* is true, all characters assume the attributes of the first character in the string being replaced.

Returns Nothing.

Related Functions dom.replaceButtonTextStringsInInstances()

dom.replaceButtonTextStringsInInstances()

Availability Fireworks 3.0

Description Replaces selected button text items with the specified string. (Button text items are defined as the topmost text items on each frame.)

Arguments *newString, uniformAttrs*

- The first argument specifies the string to be used as replacement text.
- If *uniformAttrs* is false, each character retains the attributes of the character formerly in its position; that is, Fireworks does its best to preserve the existing formatting. If *uniformAttrs* is true, all characters assume the attributes of the first character in the string being replaced.

Returns Nothing.

Related Functions dom.replaceButtonTextStrings()

dom.replaceTextString()

Availability Fireworks 3.0

Description Replaces the text of all selected text items with the specified string.

Arguments *newString, uniformAttrs*

- The first argument specifies the string to be used as replacement text.
- If *uniformAttrs* is false, each character retains the attributes of the character formerly in its position; that is, Fireworks does its best to preserve the existing formatting. If *uniformAttrs* is true, all characters assume the attributes of the first character in the string being replaced.

Returns Nothing.

dom.resizeSelection()

Availability Fireworks 3.0

Description Resizes the selection to the specified pixel width and height, keeping the top left corner of the selection in place.

Arguments *width, height*

The arguments are integers that specify the new width and height in pixels.

Returns Nothing.

dom.restoreJPEGMask()

Availability Fireworks 4.0

Description Restores the selection specified in dom.saveJPEGMask() (see "dom.saveJPEGMask()" on page 119).

Arguments None.

Returns Nothing.

Related Functions dom.saveJPEGMask()

dom.restoreSelection()

Availability Fireworks 4.0

Description Restores the selection specified in dom.saveSelection() (see "dom.saveSelection()" on page 119).

Arguments None.

Returns Nothing.

Related Functions dom.saveSelection()

dom.reversePathTextDirection()

Availability Fireworks 3.0

Description For all text-on-a-path items in the selection, reverses the direction of the text along the path.

Arguments None.

Returns Nothing.

dom.rotateDocument()

Availability Fireworks 3.0

Description Rotates the entire document 90, 180, or 270 degrees clockwise. Note that 270 degrees is the same behavior as rotating 90 degrees counterclockwise.

Arguments *rotationAmount*

Acceptable values for *rotationAmount* are 90, 180, and 270.

Returns Nothing.

dom.rotateSelection()

Availability Fireworks 3.0

Description Rotates the selection clockwise the specified number of degrees. Note that 270 degrees is the same behavior as rotating 90 degrees counterclockwise.

Arguments *rotationDegrees, opts*

- The first argument is a float value that specifies the number of degrees to rotate the selection.
- Acceptable values for *opts* are "transformAttributes", "autoTrimImages", and "autoTrimImages transformAttributes".

Returns Nothing.

dom.save()

Availability Fireworks 3.0

Description Saves the document in its default location. Upon a successful save, the document's isDirty flag is cleared.

Arguments {*bOkToSaveAs*}

If *bOkToSaveAs* is true or omitted and the file was never saved, then the Save As dialog box is displayed. If *bOkToSaveAs* is false and the file was never saved, the file is not saved.

Returns true if the Save operation completes successfully, false otherwise.

dom.saveCopyAs()

Availability Fireworks 3.0

Description Saves a copy of the document in a specified directory with a specified name. This function does not affect the document's filePathForSave or isDirty properties.

Arguments *fileURL*

The argument is a string, expressed as a file:// URL, specifying the directory and name under which the copy should be saved.

Returns true if the Save operation completes successfully, false otherwise.

dom.saveJPEGMask()

Availability Fireworks 4.0

Description Stores the current selection in bitmap mode as the "Selective JPEG mask". Use dom.restoreJPEGMask() to restore the mask (see "dom.restoreJPEGMask()" on page 117).

Arguments None.

Returns Nothing.

Related Functions dom.restoreJPEGMask()

dom.saveSelection()

Availability Fireworks 4.0

Description Stores the current selection in bitmap mode as the "saved selection". Use dom.restoreSelection() to restore the selection ("dom.restoreSelection()" on page 118).

Arguments None.

Returns Nothing.

Related Functions dom.restoreSelection()

dom.scaleSelection()

Availability Fireworks 3.0

Description Scales the selection in the horizontal and vertical axes.

Arguments *xScaleAmount, yScaleAmount, opts*

- The first two arguments are float values that specify the amount to scale the selection in the horizontal and vertical axes. Acceptable values are 0.0 or greater; a value of 1 represents 100%, 2 represents 200%, and so on.
- Acceptable values for *opts* are "transformAttributes", "autoTrimImages", and "autoTrimImages transformAttributes".

Returns Nothing.

Example This command scales the selected items to approximately two-thirds (67%) and turns on auto trim images and transform attributes.

```
fw.getDocumentDOM().scaleSelection(0.67, 0.67, "autoTrimImages transformAttributes");
```

dom.selectAdjustPixelSel()

Availability Fireworks 3.0

Description Grows or shrinks the pixel selection by the specified number of pixels, selects a border of pixels, or smooths the edge of the pixel selection.

Arguments *whatToDo, amount*

Acceptable values for *whatToDo* are "expand", "contract", "border", and "smooth". Any integer is acceptable for *amount*.

- Use "expand" to grow the pixel selection outward by the number of pixels specified by *amount*.
- Use "contract" to shrink the pixel selection inward by the number of pixels specified by *amount*.
- Use "border" to select a band of pixels the width of *amount* around the edge of the pixel selection.
- Use "smooth" to smooth out the edge of the pixel selection by *amount*.

Returns Nothing.

dom.selectAll()

Availability Fireworks 3.0

Description Selects all items in the current layer and frame.

Arguments None.

Returns Nothing.

dom.selectChildren()

Availability Fireworks 3.0

Description Selects the children, if any, of the selection. For example, if a group is selected, the selection changes from the group to the individual members of that group.

Arguments None.

Returns Nothing.

Related Functions dom.selectParents()

dom.selectFeather()

Availability Fireworks 3.0

Description If Fireworks is in bitmap mode and a pixel selection is active, this function feathers the selection by the specified number of pixels.

Arguments *featherAmount*

The argument is an integer that specifies the number of pixels by which to feather the selection.

Returns Nothing.

dom.selectInverse()

Availability Fireworks 3.0

Description If Fireworks is in bitmap mode and a pixel selection is active, this function inverts the pixel selection.

Arguments None.

Returns Nothing.

dom.selectNone()

Availability Fireworks 3.0

Description Deselects any selected items.

Arguments None.

Returns Nothing.

dom.selectParents()

Availability Fireworks 3.0

Description Selects the parents, if any, of the selection. That is, if all members of a group are selected, then the individual members are deselected and the group is selected.

Arguments None.

Returns Nothing.

Related Functions dom.selectChildren()

dom.selectSimilar()

Availability Fireworks 3.0

Description If Fireworks is in bitmap mode and a pixel selection is active, this function selects all pixels in the current image that are within the specified tolerance of the average color in the current pixel selection.

Arguments *tolerance, edgemode, featherAmt, combinemode*

- The first argument is an integer between 0 and 255 inclusive that specifies the tolerance for selecting pixels.
- Acceptable values for *edgemode* are "hard edge", "antialias", and "feather".
- The third argument (*featherAmt*) is an integer that specifies the number of pixels to feather. This value is ignored if *edgemode* is not "feather".
- The last argument (*combinemode*) specifies how to combine the new selection mask with the existing mask. Acceptable values are "replace", "add", "subtract", and "intersect".

Returns Nothing.

Related Functions dom.selectSimilarFromPoint()

dom.selectSimilarFromPoint()

Availability Fireworks 3.0

Description Behavior is almost identical to dom.selectSimilar(), except that the new mask is calculated from the color at the specified location in the image, rather than from the average color in the selection.

Arguments *where, tolerance, edgemode, featheramount, combinemode*

- The first argument is a point that specifies the *x,y* coordinates of the pixel whose color is used to calculate the new mask (see "Point" on page 6).
- The second argument is an integer between 0 and 255 inclusive that specifies the tolerance for selecting pixels.
- Acceptable values for *edgemode* are "hard edge", "antialias", and "feather".
- The fourth argument (*featherAmt*) is an integer that specifies the number of pixels to feather. This value is ignored if *edgemode* is not "feather".
- The last argument (*combinemode*) specifies how to combine the new selection mask with the existing mask. Acceptable values are "replace", "add", "subtract", and "intersect".

Returns Nothing.

Related Functions dom.selectSimilar()

dom.setAllLayersDisclosure()

Availability Fireworks 4.0

Description Specifies whether all elements in all layers are displayed in the Layers list.

Arguments *bDisclosed*

If the argument is true, all elements on all layers are displayed in the Layers list. If false, only layer names are displayed on the list.

Returns Nothing.

Related Functions "dom.setLayerDisclosure()" on page 139

dom.setAnimInstanceLoopCount()

Availability Fireworks 3.0, deprecated in 4.0 in favor of "dom.setAnimInstanceNumFrames()" on page 124.

Description Sets the loop count of the selected instances of multiframe image symbols.

Arguments *loopCount*

The argument is an integer that corresponds to the loop count value seen in the Objects panel when a multiframe image instance is selected.

Returns Nothing.

dom.setAnimInstanceNumFrames()

Availability Fireworks 4.0

Description Sets the number of frames to animate the currently selected animation element.

Arguments *numFrames*

The argument is an integer that specifies the number of frames through which the symbol animates.

Returns Nothing.

Related Functions dom.convertToAnimSymbol()

dom.setAnimInstanceOffsetDist()

Availability Fireworks 4.0

Description Sets the distance, in pixels, to animate the currently selected animation element.

Arguments *offsetDistPt*

The argument is a point (see page 2) that specifies the distance the animation will move in pixels. For example, passing ({x:100, y:25}) animates the symbol right 100 pixels and down 25 pixels.

Returns Nothing.

Related Functions dom.convertToAnimSymbol()

dom.setAnimInstanceRotationAmount()

Availability Fireworks 4.0

Description Sets the rotation amount, in degrees, to animate the currently selected animation element.

Arguments *rotationAmount*

The argument is a float value that specifies the degree of rotation to be applied to the animation symbol. For example, passing 720 specifies an animation that does two complete clockwise rotations. To rotate the animation counter-clockwise, pass a negative number.

Returns Nothing.

Related Functions dom.convertToAnimSymbol()

dom.setAnimInstanceScaleAmount()

Availability Fireworks 4.0

Description Sets the scale amount to animate the currently selected animation instance.

Arguments *scaleAmount*

The argument is a positive float value that specifies the amount of scaling to be applied to the animation symbol. For example, passing 50 scales the symbol to 50% of its current size, while passing 200 scales it to twice its current size. To specify no scaling, pass 100.

Returns Nothing.

Related Functions dom.convertToAnimSymbol()

dom.setAnimInstanceStartEndOpacity()

Availability Fireworks 4.0

Description Sets the start and end opacity of the currently selected animation symbol.

Arguments *startOpacity, endOpacity*

The arguments are float values between 0 and 100 that specify the starting and ending opacity for the animation symbol.

Returns Nothing.

Related Functions dom.convertToAnimSymbol()

dom.setAnimInstanceStartFrame()

Availability Fireworks 3.0, deprecated in 4.0 in favor of placing the animation symbol on the frame in which it should start

Description Sets the start frame of the selected instances of multiframe image symbols.

Arguments *startFrame*

The argument is an integer that corresponds to the start frame value seen in the Objects panel when a multiframe image instance is selected.

Returns Nothing.

dom.setBlendMode()

Availability Fireworks 3.0

Description Specifies the blend mode of the selection.

Arguments *mode*

Acceptable values for *mode* are "normal", "multiply", "screen", "darken", "lighten", "difference", "hue", "saturation", "color", "luminosity", "invert", "tint", and "erase".

Returns Nothing.

dom.setBrush()

Availability Fireworks 3.0

Description Sets the selection to the specified brush.

Arguments *brush*

The argument is a Brush object (see "Brush" on page 28).

Returns Nothing.

Related Functions dom.setBrushColor(), dom.setBrushName(), dom.setBrushNColorNTexture(), dom.setBrushPlacement()

dom.setBrushColor()

Availability Fireworks 3.0

Description Sets the brush color of the selection to the specified color.

Arguments *color*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

Related Functions dom.setBrushNColorNTexture()

dom.setBrushName()

Availability Fireworks 3.0

Description Renames a brush. Does not change the brush category.

Arguments *category, currentName, newName*

- The first argument is a string that specifies the category of the brush to be renamed.
- The second argument is a string that specifies the current name of the brush.
- The last argument is a string that specifies the new name of the brush.

Returns Nothing.

dom.setBrushNColorNTexture()

Availability Fireworks 3.0

Description Sets the selection to the specified brush, brush color, and brush texture.

Arguments *brush, color, texture-name*

- The first argument is a Brush object (see "Brush" on page 28).
- The second argument is a color string (see "Color string" on page 6).
- The last argument is the name of the texture to be applied.

Returns Nothing.

Related Functions dom.setBrushColor()

dom.setBrushPlacement()

Availability Fireworks 3.0

Description Specifies the brush placement of the stroke on the selection.

Arguments *placement*

Acceptable values for *placement* are "inside", "center", and "outside".

Returns Nothing.

dom.setButtonAutoSlice()

Availability Fireworks 3.0

Description If the user is editing a button document, this function turns autoslice on or off.

Arguments *bAutoSlice*

If the argument is true, autoslice is turned on. If false, it is turned off.

Returns Nothing.

dom.setButtonIncludeDownState

Availability Fireworks 3.0

Description If the user is editing a button document, this function specifies whether to include the down state in a button.

Arguments *bIncludeDownState*

If the argument is true, the down state is included in the button. If false, it is not.

Returns Nothing.

dom.setButtonIncludeOverWhileDownState

Availability Fireworks 3.0

Description If the user is editing a button document, this function specifies whether to include the over-while-down state in a button.

Arguments *bIncludeOverWhileDownState*

If the argument is true, the over-while-down state is included in the button. If false, it is not.

Returns Nothing.

dom.setButtonShowDownOnLoad

Availability Fireworks 3.0

Description If the user is editing a button document, this function specifies whether to show the down-state-on-load in a button.

Arguments *bShowDownOnLoad*

If the argument is true, the down-state-on-load is shown in the button. If false, it is not.

Returns Nothing.

dom.setButtonOptions

Availability Fireworks 3.0

Description Sets the button export options. If the user is editing a button, it sets options for the button being edited; if editing a normal document, it sets options for all selected buttons.

Arguments *exportOptions, URLString, altTagString, targetTagString, sliceName, statusMessage*

- The first argument is an ExportOptions object (see "ExportOptions" on page 41).
- The second argument is a string that specifies the URL for the button(s).
- The third and fourth arguments specify the text for the button alt tag and target tag.
- The fifth argument (*sliceName*) is a string that specifies the name to be assigned to the slice that is associated with the button. If it is null, the slice is set to autoname.
- The last argument is a string that specifies a status message to be displayed in the browser status line. If an empty string or null is passed, no status message is displayed.

Returns Nothing.

dom.setDefaultBrushAndFillColors()

Availability Fireworks 3.0

Description Resets the document's brush and fill color to the default.

Arguments None.

Returns Nothing.

dom.setDefaultFillVector()

Availability Fireworks 3.0

Description Sets the fill vector on the selection to the default.

Arguments None.

Returns Nothing.

dom.setDocumentCanvasColor()

Availability Fireworks 3.0

Description Sets the canvas color of the document to the specified color.

Arguments *color*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

Example This command sets the canvas color to blue.

```
fw.getDocumentDOM().setDocumentCanvasColor("#0000ff");
```

dom.setDocumentCanvasSize()

Availability Fireworks 3.0

Description Sets the document's canvas size to the specified rectangle.

Arguments *boundingRectangle*

The argument is a rectangle that specifies the new canvas size for the document, in pixels (see "Rectangle" on page 7). Any items outside the specified rectangle are removed.

Returns Nothing.

Example This command sets the canvas to a size of 200 by 200 pixels.

```
fw.getDocumentDOM().setDocumentCanvasSize({left:150, top:150, right:350,
bottom:350});
```

dom.setDocumentCanvasSizeToDocumentExtents()

Availability Fireworks 3.0

Description Calculates the size of all items in the document and resizes the document canvas to that size. This is the same behavior as Modify > Trim Canvas.

Arguments *bGrowCanvas*

If the argument is true, the canvas can grow or shrink in size. If false, it can only shrink.

Returns Nothing.

Example This command resizes the canvas to include all items in the document, enlarging the canvas if necessary.

```
fw.getDocumentDOM().setDocumentCanvasSizeToDocumentExtents(true);
```

Related Functions dom.setDocumentCanvasSizeToSelection()

dom.setDocumentCanvasSizeToSelection()

Availability Fireworks 3.0

Description Calculates the size of all items in the selection and resizes the document canvas to that size.

Arguments None.

Returns Nothing.

Related Functions dom.setDocumentCanvasSizeToDocumentExtents()

dom.setDocumentImageSize()

Availability Fireworks 3.0

Description Scales the document to fit in the specified rectangle at the specified resolution.

Arguments *boundingRectangle, resolution*

- The first argument is a rectangle that specifies the size to which the document should be scaled (see "Rectangle" on page 7).
- The second argument specifies the resolution for the scaled document (see "Resolution" on page 7).

Returns Nothing.

dom.setDocumentResolution()

Availability Fireworks 3.0

Description Sets the resolution of the document.

Arguments *resolution*

The argument specifies the resolution for the document (see "Resolution" on page 7).

Returns Nothing.

dom.setElementMaskMode()

Availability Fireworks 4.0

Description Sets the rendering mode on the selected element's element mask. There must be exactly one element selected when this is called. If there are more (or none), an exception is thrown. An error is also reported if the selected element has no element mask.

Arguments *mode*

Acceptable values for *mode* are "mask to image" and "mask to path".

Returns Nothing.

dom.setElementMaskShowAttrs()

Availability Fireworks 4.0

Description Specifies whether the currently selected vector mask shows the fill and stroke.

Arguments *bShow*

If the argument is true, the vector mask fill and stroke are visible. If false, they are hidden.

Returns Nothing.

dom.setElementName()

Availability Fireworks 3.0

Description Sets the name of the selected element(s).

Arguments *name*

The argument is a string that specifies the name to be assigned to the selected element(s). To specify that no name should be assigned or that an existing name should be removed, pass null.

Returns Nothing.

Related Functions dom.findNamedElements()

dom.setElementVisible()

Availability Fireworks 4.0

Description Shows or hides the specified element(s).

Arguments *frameIndex, layerIndex, elementIndex, bShow*

- The first argument is a zero-based integer that specifies the frame containing the element(s) to be shown or hidden. To specify the current frame, pass –1.
- The second argument is a zero-based integer that specifies the layer containing the element(s) to be shown or hidden. To specify the current layer, pass –1.
- The third argument is a zero-based integer that specifies the element(s) to show or hide, where 0 represents the topmost element in the specified layer. To show or hide all the elements in the specified layer, pass -1.
- If the last argument (*bShow*) is true, the element(s) are visible. If false, they are hidden.

Returns Nothing.

Example This command hides all the elements in the current frame and layer.

```
fw.getDocumentDOM().setElementVisible(-1, -1, -1, false)
```

Related Functions dom.setElementVisibleByName()

dom.setElementVisibleByName()

Availability Fireworks 4.0

Description Shows or hides all element(s) with the specified name. If no element has the specified name, an exception is thrown. Note that if the elements are hidden because, for example, they are on a hidden layer or frame, this function does not show them.

Arguments *name, bShow*

- The first argument is a string that specifies the name of the element(s) to be shown or hidden. If more than one element has the same name, this function shows or hides all of them.
- If the second argument (*bShow*) is true, the element(s) are visible. If false, they are hidden.

Returns An array of the elements(s) for which visibility was set.

Related Functions dom.findNamedElements(), dom.setElementName(), dom.setElementVisible()

dom.setExportOptions()

Availability Fireworks 3.0

Description Sets the document export options.

Arguments *exportOptions*

The argument is an ExportOptions object (see "ExportOptions" on page 41).

Returns Nothing.

dom.setExportSettings()

Availability Fireworks 3.0

Description Sets the document export settings.

Arguments *exportSettings*

The argument is an ExportSettings object (see "ExportSettings" on page 44).

Returns Nothing.

dom.setFill()

Availability Fireworks 3.0

Description Sets the selection to the specified fill.

Arguments *fill*

The argument is a Fill object (see "Fill" on page 46).

Returns Nothing.

dom.setFillColor()

Availability Fireworks 3.0

Description Changes the fill color of the selection to the specified color.

Arguments *color*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

dom.setFillEdgeMode()

Availability Fireworks 3.0

Description Sets the edge type for selected items with fills.

Arguments *edgemode, featherAmt*

- Acceptable values for *edgemode* are "hard edge", "antialias", and "feather".
- The second argument is an integer that specifies the number of pixels to feather. This value is ignored if *edgemode* is not "feather".

Returns Nothing.

dom.setFillNColorNTexture()

Availability Fireworks 3.0

Description Sets the selection to the specified fill, fill color, and fill texture.

Arguments *fill, color, texture-name*

- The first argument is a Fill object (see "Fill" on page 46).
- The second argument is a color string (see "Color string" on page 6).
- The last argument is the name of the texture to be applied.

Returns Nothing.

Example This command sets the selected items to a linear fill with a feather edge and no texture.

```
fw.getDocumentDOM().setFillNColorNTexture({ category:"fc_Linear", ditherColors:[
"#000000", "#000000" ], edgeType:"antialiased", feather:10, gradient:{
name:"cn_WhiteBlack", nodes:[ { color:"#ffffff", position:0 }, { color:"#000000", position:1 }
] }, name:"fn_Normal", pattern:null, shape:"linear", stampingMode:"blend opaque",
textureBlend:0, webDitherTransparent:false }, "#666666", "Grain");
```

dom.setFillPlacement()

Availability Fireworks 3.0

Description Sets the fill placement for selected items with fills.

Arguments *placement*

Acceptable values for *placement* are "top" and "bottom".

Returns Nothing.

dom.setFillVector()

Availability Fireworks 3.0

Description Sets the fill vectors of the selection to the specified absolute values.

Arguments *p1, p2, p3*

The arguments are points that specify the *x,y* coordinates of the three points to be used in calculating the fill vector (see "Point" on page 6).

Returns Nothing.

dom.setFillVectorStart()

Availability Fireworks 3.0

Description Modifies the fill vectors of the selection by moving the fill start to the specified point and then moving the two fill end handles to the same relative position.

Arguments *p1*

The argument is a point that specifies the *x,y* coordinates of the fill start and relative end handle placement to be used (see "Point" on page 6).

Returns Nothing.

dom.setGradientName()

Availability Fireworks 3.0

Description Renames a gradient.

Arguments *currentName, newName*

- The first argument is a string that specifies the current name of the gradient.
- The second argument is a string that specifies the new name of the gradient.

Returns Nothing.

dom.setGridOrigin()

Availability Fireworks 3.0

Description Sets the grid origin for the document.

Arguments *gridOrigin*

The argument is a point that specifies the *x,y* coordinates that should be used for the document's grid origin (see "Point" on page 6).

Returns Nothing.

dom.setGridSize()

Availability Fireworks 3.0

Description Sets the grid size for the document.

Arguments *gridSize*

The argument is a point that specifies the *x,y* coordinates that should be used for the document's grid size (see "Point" on page 6).

Returns Nothing.

dom.setGridColor()

Availability Fireworks 3.0

Description Sets the color used to display the grid.

Arguments *gridColor*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

dom.setGroupType()

Availability Fireworks 3.0, argument deprecated in 4.0

Description Changes the group type for the currently selected groups.

Arguments {*type*}

The argument is an optional string that specifies how to group the items. Acceptable values are "normal", "mask to image", and "mask to path". If the argument is omitted, "normal" is assumed. ("mask to image" and "mask to path" are deprecated in 4.0.)

Returns Nothing.

dom.setGuideColor()

Availability Fireworks 3.0

Description Sets the color used to display normal (nonslice) guides. To set the color of slice guides, use "dom.setSliceGuideColor()" on page 148.

Arguments *guideColor*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

dom.setHotspotAltTag()

Availability Fireworks 3.0

Description For the hotspots and slices in the selection, sets the alt tag text to the specified value.

Arguments *whatToSet, altTagString*

- Acceptable values for *whatToSet* are "hotspots", "slices", and "hotspots and slices".
- The second argument is a string that specifies the text to be used for the alt tag.

Returns Nothing.

Example This command sets the alt tag of the selected slices to "This is my alt tag".

```
fw.getDocumentDOM().setHotspotAltTag("slices","This is my alt tag");
```

dom.setHotspotColor()

Availability Fireworks 3.0

Description For the hotspots and slices in the selection, sets the color to the specified value.

Arguments *whatToSet, color*

- Acceptable values for *whatToSet* are "hotspots", "slices", and "hotspots and slices".
- The second argument is a color string (see “Color string” on page 6).

Returns Nothing.

Example This command sets the color of the selected hotspots to the specified value, which in this case is red.

```
fw.getDocumentDOM().setHotspotColor("hotspots", "#ff0000");
```

dom.setHotspotRectangle()

Availability Fireworks 3.0

Description If the selection is a single hotspot or slice, this function moves or copies it to the specified location and size.

Arguments *boundingRectangle, bMakeCopy*

- The first argument is a rectangle that specifies the size of the new hotspot or slice (see “Rectangle” on page 7).
- If the second argument is true, the selection is copied and resized instead of moved and resized.

Returns Nothing.

dom.setHotspotShape()

Availability Fireworks 3.0

Description For the hotspots and slices in the selection, sets the shape to the specified value.

Arguments *whatToSet, shape*

- Acceptable values for *whatToSet* are "hotspots", "slices", and "hotspots and slices".
- Acceptable values for *shape* are "rectangle", "oval", and "polyline".

Returns Nothing.

dom.setHotspotTarget()

Availability Fireworks 3.0

Description For the hotspots and slices in the selection, sets the target tag text to the specified value.

Arguments *whatToSet, targetTagString*

- Acceptable values for *whatToSet* are "hotspots", "slices", and "hotspots and slices".
- The second argument is a string that specifies the text to be used for the target tag.

Returns Nothing.

Example This command sets the currently selected slices to link to the parent window.

```
fw.getDocumentDOM().setHotspotTarget("slices", "_parent");
```

dom.setHotspotText()

Availability Fireworks 3.0

Description For the hotspots and slices in the selection, sets the hotspot text to the specified value.

Arguments *whatToSet, textString, urlToMatch, bUpdateAttributes*

- Acceptable values for *whatToSet* are "hotspots", "slices", and "hotspots and slices".
- The second argument is a string that specifies the text to be used for the hotspot or slice.
- The third argument (*urlToMatch*) is a string that specifies a URL that is already assigned to one or more hotspots in the document. If this value is not null, then the URLs of all hotspots or slices in the document that have *urlToMatch* as their URL are changed to *textString*. Note: The URLs of both selected and unselected hotspots or slices are changed.
- If the last argument (*bUpdateAttributes*) is true, changed hotspots inherit the color, target, and alt tag text that were most recently associated with the new text value. For example, suppose *textString* is "http://www.mywebsite.com", and the last time "http://www.mywebsite.com" was used, it was used with a color of blue, a target of none, and an alt tag of "Link to My Home Page". If *bUpdateAttributes* is true, then any hotspot or slice whose text is now being changed to "http://www.mywebsite.com" will also have a color of blue, a target of none, and an alt tag text of "Link to My Home Page".

Returns Nothing.

Example This command creates a slice and inserts the HTML text "I am HTML text".

```
fw.getDocumentDOM().setHotspotText("Slice ","I am HTML text", null, true);
```

dom.setLayerDisclosure()

Availability Fireworks 4.0

Description Specifies whether the elements on a specified layer are displayed in the Layers list. Note that disclosure affects the layer regardless of which frame is shown.

Arguments *layerIndex, bDisclosed*

- The first argument is a zero-based index that specifies the layer containing the elements to be displayed or hidden. To specify the current layer, pass -1.
- If the second argument is true, all elements on the specified layer are displayed in the Layers list. If false, only the layer name is displayed on the list.

Returns Nothing.

Related Functions dom.setAllLayersDisclosure()

dom.setLayerLocked()

Availability Fireworks 3.0

Description Locks or unlocks one or all layers on the specified frame.

Arguments *layerIndex, frameIndex, bLock, bAllLayers*

- The first argument is a zero-based integer that specifies the layer to be locked or unlocked. To specify the current layer, pass –1. (To lock/unlock all layers on a frame, use the *bAllLayers* argument.)
- The second argument is a zero-based integer that specifies the frame containing the layer to be locked or unlocked. To specify the current frame, pass –1.
- If the third argument (*bLock*) is true, the layer is locked. If false, it is unlocked.
- If the last argument (*bAllLayers*) is true, all layers on the specified frame are locked or unlocked, and any value passed for *layerIndex* is ignored.

Returns Nothing.

Example This command locks all layers on the first frame.

```
fw.getDocumentDOM().setLayerLocked(1, 0, true, true);
```

dom.setLayerName()

Availability Fireworks 3.0

Description Renames the specified layer. Layers aren't required to have unique names, so no duplicate checking is performed.

Arguments *layerIndex, layerName*

- The first argument is a zero-based integer that specifies the layer to be renamed. To specify the current layer, pass –1.
- The second argument is a string that specifies the new name for the layer.

Returns Nothing.

dom.setLayerSharing()

Availability Fireworks 3.0

Description Changes the "shared layer" status of a layer.

Arguments *layerIndex, sharedStatus, bUnshareCopiesToAllFrames, bWarnUser*

- The first argument is a zero-based integer that specifies the layer to be shared or not shared. To specify the current layer, pass –1.
- Acceptable values for *sharedStatus* are "shared" and "not shared".
- The third argument (*bUnshareCopiesToAllFrames*) is used only if *sharedStatus* is "not shared" and the document has multiple frames. If these conditions are met and *bUnshareCopiesToAllFrames* is true, then the items on the layer are duplicated to all frames of the layer; if false, the items are placed only on the current frame.
- If the last argument is true and *bUnshareCopiesToAllFrames* is enabled, the user is asked to confirm that data on other frames can be overwritten. If false, data on other frames of the layer is overwritten without warning.

Returns Nothing.

Example This command sets the selected layer to "Shared" and displays a warning that data loss is possible.

```
fw.getDocumentDOM().setLayerSharing(-1, "shared", false, true);
```

dom.setLayerVisible()

Availability Fireworks 3.0

Description Shows or hides a layer on the specified frame.

Arguments *layerIndex, frameIndex, bShow, bAllLayers*

- The first argument is a zero-based integer that specifies the layer that should be shown or hidden. To specify the current layer, pass –1. (To show/hide all layers on a frame, use the *bAllLayers* argument.)
- The second argument is a zero-based integer that specifies the frame containing the layer to be shown or hidden. To specify the current frame, pass –1.
- If the third argument (*bShow*) is true, the layer is visible. If false, it is hidden.
- If the last argument (*bAllLayers*) is true, all layers on the specified frame are shown or hidden, and any value passed for *layerIndex* is ignored.

Returns Nothing.

dom.setMatteColor()

Availability Fireworks 3.0

Description Sets or removes the document's matte color used for exporting.

Arguments *bUseMatteColor, matteColor*

- If the first argument is true, the document's matte color is set to the value specified by *matteColor*. If false, any matte color is removed from the document, and the second argument is ignored.
- The second argument is a color string (see "Color string" on page 6).

Returns Nothing.

Example This command sets the matte color to the specified value, which in this case is blue.

```
fw.getDocumentDOM().setMatteColor(true, "#0033ff");
```

dom.setPixelMask()

Availability Fireworks 3.0, deprecated in 4.0 in favor of dom.setSelectionMask() (see "dom.setSelectionMask()" on page 145).

Description If Fireworks is in bitmap mode, this function sets the pixel-selection mask of the current image to the specified mask.

Arguments *mask, howToCombineMasks*

- The first argument is a mask variable that specifies the mask to be applied (see "Mask" on page 6). If *mask* is null, then any existing pixel-selection mask is removed.
- If there was previously a mask and the new mask is also not null, then *howToCombineMasks* specifies how the two masks should be combined. Acceptable values for *howToCombineMasks* are "replace", "add", "subtract", and "intersect".

Returns Nothing.

dom.setOnionSkinning()

Availability Fireworks 3.0

Description Sets the onion-skin display options for the document.

Arguments *before, after*

- The arguments are integers that specify the number of frames to display before and after the current one.
- To disable onion skinning, pass zero for both arguments.
- To enable onion skinning for all frames, pass zero for the first argument and a very large number for the second argument (for example, 99999).

Returns Nothing.

Example This command turns on onion skinning two frames before the selected frame and zero frames after it.

```
fw.getDocumentDOM().setOnionSkinning(2, 0);
```

dom.setOpacity()

Availability Fireworks 3.0

Description Sets the opacity of the selection to the specified value.

Arguments *opacity*

The argument is a float variable between 0 and 100, inclusive.

Returns Nothing.

Example This command sets the selected item to an opacity of 55%.

```
fw.getDocumentDOM().setOpacity(55);
```

dom.setQuadrangle()

Availability Fireworks 3.0

Description Transforms the selection within a specified bounding quadrangle. The effect is the same as performing a Transform operation within Fireworks, and then replaying the Transform step from the History panel while other items are selected.

Arguments *pTopLeft, pTopRight, pBottomRight, pBottomLeft, options*

- The first four arguments are points that specify the *x,y* coordinates of the top left, top right, bottom right, and bottom left points of the bounding rectangle (see "Point" on page 6).
- Acceptable values for *options* are "transformAttributes", "autoTrimImages", and "autoTrimImages transformAttributes".

Returns Nothing.

Example This command transforms the selection as specified.

```
fw.getDocumentDOM().setQuadrangle({x:-0.300884962, y:0.207964599}, {x:1,
y:0.207964599}, {x:1, y:0.792035401}, {x:-0.300884962, y:0.792035401},
"autoTrimImages transformAttributes");
```

dom.setRectRoundness()

Availability Fireworks 4.0

Description Modifies the corner roundness of all selected rectangle primitives.

Arguments *roundness*

The argument is a float value between 0 and 1 that specifies the roundness to use for the corners (0 is no roundness, 1 is 100% roundness).

Returns Nothing.

Related Functions dom.addNewRectanglePrimitive(), dom.setRectSides()

dom.setRectSides()

Availability Fireworks 4.0

Description Modifies the untransformed sides of all selected rectangle primitives.

Arguments *newSides*

The argument is a rectangle that specifies the new untransformed sides of the rectangle primitive (see "Rectangle" on page 7). Rectangle primitives remember their transformations, so the user sees the transformed result of *newSides* displayed in the document.

Returns Nothing.

Related Functions dom.setRectRoundness(), dom.addNewRectanglePrimitive()

dom.setSelectionBounds()

Availability Fireworks 3.0

Description Moves and resizes the selection in a single operation.

Arguments *boundingRectangle, opts*

- The first argument is a rectangle that specifies the new location and size of the selection (see "Rectangle" on page 7).
- Acceptable values for *opts* are "transformAttributes", "autoTrimImages", and "autoTrimImages transformAttributes".

Returns Nothing.

dom.setSelectionMask()

Availability Fireworks 4.0

Description If Fireworks is in bitmap mode, this function sets the pixel-selection mask of the current image to the specified mask.

Arguments *mask, howToCombineMasks*

- The first argument is a mask that specifies the mask to be applied (see "Mask" on page 6). If *mask* is null, then an existing pixel-selection mask is removed.
- If there was previously a mask and *mask* is not null, the second argument specifies how the two masks should be combined. Acceptable values are "replace", "add", "subtract", and "intersect".

Returns Nothing.

dom.setShowEdges()

Availability Fireworks 3.0

Description Specifies whether "show edges" is on or off.

Arguments *bShowEdges*

If the argument is true, "show edges" is turned on. If false, it is turned off.

Returns Nothing.

dom.setShowGammaPreview()

Availability Fireworks 3.0

Description Specifies whether "Preview Gamma" is on or off.

Arguments *bPreviewGamma*

If the argument is true, "Preview Gamma" is turned on. If false, it is turned off.

Returns Nothing.

dom.setShowGrid()

Availability Fireworks 3.0

Description Specifies whether the grid is visible.

Arguments *bShow*

If the argument is true, the grid is visible. If false, it is not.

Returns Nothing.

dom.setShowGuides()

Availability Fireworks 3.0

Description Specifies whether normal guides are visible.

Arguments *bShow*

If the argument is true, the normal guides are visible. If false, they are not.

Returns Nothing.

dom.setShowRulers()

Availability Fireworks 3.0

Description Specifies whether rulers are visible.

Arguments *bShow*

If the argument is true, the rulers are visible. If false, they are not.

Returns Nothing.

dom.setShowSliceGuides()

Availability Fireworks 3.0

Description Specifies whether slice guides are visible.

Arguments *bShow*

If the argument is true, the slice guides are visible. If false, they are not.

Returns Nothing.

dom.setShowSliceOverlay()

Availability Fireworks 3.0

Description Specifies whether the slice overlay is visible.

Arguments *bShow*

If the argument is true, the slice overlay is visible. If false, it is not.

Returns Nothing.

dom.setSliceAutonaming()

Availability Fireworks 3.0

Description If a single slice is selected, this function turns slice autonaming on or off for the slice.

Arguments *bAutoname*

If the argument is true, autonaming is turned on for the slice. If false, it is turned off.

Returns Nothing.

dom.setSliceExportOptions()

Availability Fireworks 3.0

Description Sets the export options for the selected slices.

Arguments *exportOptions*

The argument is an ExportOptions object (see "ExportOptions" on page 41).

Returns Nothing.

dom.setSliceFilename()

Availability Fireworks 3.0

Description If a single slice is selected, this function turns off autonaming for the slice and sets its file name to the specified URL.

Arguments *fileURL*

The argument is a string, expressed as a file:// URL, specifying the name to be given to the slice.

Returns Nothing.

dom.setSliceGuideColor()

Availability Fireworks 3.0

Description Sets the color used to display slice guides. To set the color of normal guides, use dom.setGuideColor().

Arguments *color*

The argument is a color string (see "Color string" on page 6).

Returns Nothing.

dom.setSliceHtml()

Availability Fireworks 3.0

Description If a single slice is selected, this function sets the slice's HTML text.

Arguments *htmlText*

The argument is a string specifying the HTML text for the slice.

Returns Nothing.

dom.setSliceIsHtml()

Availability Fireworks 3.0

Description Sets the selected slices as HTML or Image.

Arguments *bHtml*

If the argument is true, sets the slices as HTML. If false, sets them to Image.

Returns Nothing.

dom.setSnapToGrid()

Availability Fireworks 3.0

Description Specifies whether tools snap to grid.

Arguments *bSnap*

If the argument is true, the tools snap to grid. If false, they do not.

Returns Nothing.

dom.setSnapToGuides()

Availability Fireworks 3.0

Description Specifies whether tools snap to guides.

Arguments *bSnap*

If the argument is true, the tools snap to all guides. If false, they do not.

Returns Nothing.

dom.setSymbolProperties()

Availability Fireworks 3.0

Description Sets the name and symbol type of the specified symbol.

Arguments *currentName, symbolType, newName*

- The first argument specifies the current name of the symbol in the Library. If more than one master exists with a name of *currentName*, then only the first master is changed. If null is passed in for *currentName*, then the name property is set for all selected symbols in the Library (not document).
- Acceptable values for *symbolType* are "graphic", "button", and "animation".
- The last argument specifies the new name for the symbol.

Returns Nothing.

dom.setTextAlignment()

Availability Fireworks 3.0

Description Sets the alignment of the selected text items to the specified setting.

Arguments *alignment*

Acceptable values for *alignment* are "left", "center", "right", "justify", "stretch", "vertical left", "vertical center", "vertical right", "vertical justify", and "vertical stretch".

Returns Nothing.

dom.setTextAntiAliasing()

Availability Fireworks 3.0

Description Sets the anti-aliasing level for the selected blocks of text.

Arguments *level*

Acceptable values for *level* are "crisp", "smooth", and "strong".

Returns Nothing.

dom.setTextAutoKern()

Availability Fireworks 3.0

Description Specifies whether autokerning is on or off for the selected text items.

Arguments *bKern*

If the argument is true, autokerning is on for the selected text items. If false, it is not.

Returns Nothing.

dom.setTextFlow()

Availability Fireworks 3.0

Description Sets the horizontal flow direction of the selected text items.

Arguments *flowDirection*

Acceptable arguments for *flowDirection* are "left to right" and "right to left".

Returns Nothing.

dom.setTextOnPathMode()

Availability Fireworks 3.0

Description Sets the mode of the selected text-on-a-path items to the specified value.

Arguments *mode*

Acceptable values for *mode* are "rotate", "vertical", "skew vertical", and "skew horizontal".

Returns Nothing.

dom.setTextOnPathOffset()

Availability Fireworks 3.0

Description Sets the offset for the selected text-on-a-path items to the specified distance.

Arguments *offset*

The argument is a float value that specifies the offset distance, in pixels.

Returns Nothing.

dom.setTextOrientation()

Availability Fireworks 3.0

Description Sets the horizontal/vertical text orientation of the selected text items.

Arguments *orientation*

Acceptable values for *orientation* are "horizontal left to right", "vertical right to left", "horizontal right to left", and "vertical left to right".

Returns Nothing.

dom.setTextRuns()

Availability Fireworks 3.0

Description Replaces the text in the selected text blocks with the styled text described by the object passed.

Arguments *textRuns*

The argument is a TextRuns object (see "TextRuns" on page 57).

Returns Nothing.

dom.setTransformMode()

Availability Fireworks 3.0

Description Sets the transform mode for the selected text or instance items, or both.

Arguments *mode*

Acceptable values for *mode* are "paths" and "pixels".

Returns Nothing.

dom.setTextRectangle()

Availability Fireworks 3.0

Description Changes the bounding rectangle for the selected text item to the specified size. This function causes the text to reflow inside the new rectangle; the text item is not scaled or transformed. Text that does not fit into the new rectangle is not displayed.

Arguments *boundingRectangle*

The argument is a rectangle that specifies the new size within which the text item should flow (see "Rectangle" on page 7).

Returns Nothing.

dom.setTextRectangleAuto()

Availability Fireworks 3.0

Description Recalculates the bounding rectangle for the selected text item, setting the rectangle to the smallest box that encloses the text.

Arguments None.

Returns Nothing.

Related Functions dom.setTextRectangleAutoFromPoint()

dom.setTextRectangleAutoFromPoint()

Availability Fireworks 3.0

Description Performs the same function as dom.setTextRectangleAuto(), but lets you pass a point to specify where the rectangle should be located.

Arguments *anchorPoint*

The argument is a point that specifies the *x,y* coordinates of the location at which the text box should be anchored (see "Point" on page 6). How the point is used depends on the left-to-right/up-to-down orientation of the text flow in the text block.

- Left-justified horizontal text is placed with its top and left edges at *anchorPoint*, and the text expands to the right.
- Centered horizontal text is centered horizontally around *anchorPoint* and expands equally to the left and right.
- Centered vertical text is centered vertically around *anchorPoint* and expands equally up and down.

Returns Nothing.

Related Functions dom.setTextRectangleAuto()

dom.showAllHidden()

Availability Fireworks 3.0

Description Shows all the items that were hidden by using dom.hideSelection().

Arguments None.

Returns Nothing.

dom.splitPaths()

Availability Fireworks 3.0

Description Splits the selected paths. Compound paths are split into separate contours.

Arguments None.

Returns Nothing.

dom.swapBrushAndFillColors()

Availability Fireworks 3.0

Description Swaps the current brush color and current fill color. This function has no effect on any selected items.

Arguments None.

Returns Nothing.

dom.transformSelection()

Availability Fireworks 3.0, enhanced in 4.0

Description Transforms the selection using the specified three-by-three matrix.

Arguments *matrix, options*

- The first argument is a three-by-three transformation matrix (see "Matrix" on page 6).
- Acceptable values for *options*, some of which were added in Fireworks 4, are "", "transformAttributes", "autoTrimImages", "autoTrimImages transformAttributes", "rememberQuad", "transformAttributes rememberQuad", "autoTrimImages rememberQuad", and "autoTrimImages transformAttributes rememberQuad".

Returns Nothing.

dom.tween()

Availability Fireworks 3.0

Description Tweens between the two selected instances.

Arguments *numSteps, bDistribute*

- The first argument is an integer that specifies how many new instances are generated.
- If *bDistribute* is true, the new instances are distributed to frames.

Returns Nothing.

dom.undo()

Availability Fireworks 3.0

Description Undoes the undoable step that was most recently performed. Most (but not all) JavaScript functions cause an undoable action to be executed.

Arguments None.

Returns Nothing.

dom.updateSymbol()

Availability Fireworks 3.0

Description Updates the specified linked symbol.

Arguments *name*

The argument specifies the name of the symbol in the Library. If more than one symbol exists with a name of *name*, then only the first symbol with that name is updated. If null is passed in for *name*, then all selected linked symbols in the Library (not document) are updated.

Returns Nothing.

dom.ungroup()

Availability Fireworks 3.0

Description Ungroups any grouped items in the selection. To group items, use dom.group().

Arguments None.

Returns Nothing.

History panel functions

In Fireworks 4, fw is synonymous with fireworks. Thus all methods of the fireworks object can be referred to as fireworks.*functionName()* or as fw.*functionName()*.

fw.historyPalette.clearSteps()

Availability Fireworks 3.0

Description Clears the undo/redo stack.

Arguments None.

Returns Nothing.

fw.historyPalette.copySteps()

Availability Fireworks 3.0

Description Copies the selected history steps to the Clipboard.

Arguments *array of indexes*

The argument is a zero-based array that specifies which steps from the History panel should be copied. If it is null, the currently selected steps are used.

Returns Nothing.

fw.historyPalette.getSelection()

Availability Fireworks 3.0

Description Determines which steps in the History panel are selected.

Arguments None.

Returns A zero-based array representing which History panel steps are selected.

fw.historyPalette.getStepCount()

Availability Fireworks 3.0

Description Returns the number of steps in the History panel.

Arguments None.

Returns The number of steps in the History panel (not a zero-based value).

fw.historyPalette.getStepsAsJavaScript()

Availability Fireworks 3.0

Description Gets the JavaScript equivalent of the selected steps.

Arguments *array of indexes*

The argument is a zero-based array that specifies which steps from the History panel should be returned as JavaScript. If the argument is null, the currently selected steps are returned.

Returns JavaScript string

Related Functions fw.historyPalette.replaySteps()

fw.historyPalette.getUndoState()

Availability Fireworks 3.0

Description Returns a string that indicates the current undo state to be used for later calls to fw.historyPalette.setUndoState().

Arguments None.

Returns String to be used with fw.historyPalette.setUndoState(). This string is designed to be used internally by Fireworks only and may change format in the future. Therefore, do not try to parse this string or to construct a custom string to pass to fw.historyPalette.setUndoState().

fw.historyPalette.replaySteps()

Availability Fireworks 3.0

Description Gets the JavaScript equivalent of the selected steps and executes them.

Arguments *array of indexes*

The argument is a zero-based array that specifies which steps from the History panel should be returned as JavaScript and then executed. If the argument is null, the currently selected steps are used.

Returns JavaScript string

Related Functions fw.historyPalette.getStepsAsJavaScript()

fw.historyPalette.saveAsCommand()

Availability Fireworks 3.0

Description Gets the JavaScript equivalent of the selected steps and saves them as a JSF command file.

Arguments *array of indexes, {filename}*

- The first argument indicates which steps from the History panel should be saved. For example, to save the first, third, and sixth step in the History panel, pass [0, 2, 5]. If this argument is null, the currently selected steps are used.
- The second argument is an optional string that specifies a name for the JSF command file. It can be any string, including a file:// URL. If *filename* is omitted or null, the user is prompted for a file name. If *filename* is not a file:// URL, then the file is saved in the Fireworks 4/Settings/Commands folder with the specified file name.

Returns Nothing.

fw.historyPalette.setSelection()

Availability Fireworks 3.0

Description Sets the portion of the History panel that is selected.

Arguments *array of indexes*

The argument specifies which steps in the History panel are selected. Values are zero-based. For example, to select the first, third, and sixth step in the History panel, pass [0, 2, 5].

Returns Nothing.

fw.historyPalette.setUndoState()

Availability Fireworks 3.0

Description Performs the correct number of undo or redo operations to arrive at the selected state.

Arguments *undoStateString*

The argument is the string returned by fw.historyPalette.getUndoState().

Returns Nothing.

Fireworks functions

In Fireworks 4, fw is synonymous with fireworks. Thus all methods of the fireworks object can be referred to as fireworks.*functionName()* or as fw.*functionName()*.

fw.browseDocument()

Availability Fireworks 3.0

Description Opens the user's primary browser and displays the specified URL.

Arguments *URL*

The argument is the URL of the page to be displayed in the browser. Any legal URL (including http://, ftp://, and so on) can be passed. Fireworks does not check this argument for syntax; if you pass an illegal value, the browser does not open the URL.

Returns Nothing.

fw.browseForFileURL()

Availability Fireworks 3.0

Description Displays an Open or Save dialog box for the user.

Arguments *browseType, title, previewArea*

- Acceptable values for *browseType* are "open", "select", and "save". The first two display an Open dialog box; they are both acceptable here for compatibility with Dreamweaver. The third value displays a Save dialog box.
- The second and third arguments are ignored by Fireworks but are accepted for compatibility with Dreamweaver.

Returns The file URL selected by the user, or null if the dialog box was canceled.

fw.browseForFolderURL()

Availability Fireworks 3.0

Description Displays a dialog box that lets a user select a particular directory.

Arguments {*title*}, {*startFolder*}

- The first argument is an optional string that specifies a title for the dialog box that is displayed. If it is omitted or null, a default title is displayed.
- The second argument is an optional string that serves as the root directory for the dialog box that is displayed. If it is omitted or null, the browse dialog box displays an unspecified directory, depending on your system configuration. Generally, it is the last directory used.

fw.checkFwJsVersion()

Availability Fireworks 3.0

Description Checks the JavaScript API for incompatibilities.

Arguments *version*

The argument is an integer that is reserved for future use; only a value of 0 is supported at this time. To use this function, put a call to *fw.checkFwJsVersion(0)* in your script.

Returns Nothing.

fw.chooseScriptTargetDialog()

Availability Fireworks 4.0

Description Displays a dialog box that lets the user choose the target document(s) for an operation. The dialog box lets the user specify the files currently open, the files in the project list, or files explicitly selected.

Arguments *formatlist*

The argument is similar to fw.locateDocDialog(), except that *formatlist* is required, and you cannot specify a maximum number of documents (see "fw.locateDocDialog()" on page 167).

Returns An array of file:// URLs, or null if the dialog box is canceled.

fw.closeDocument()

Availability Fireworks 3.0

Description Closes the specified document.

Arguments *document, {bPromptToSaveChanges}*

- The first argument is a Document object that specifies the document to close (see "Document" on page 13).
- If *bPromptToSaveChanges* is true or omitted, and the document was changed since the last time it was saved, the user is prompted to save changes to the document. If *bPromptToSaveChanges* is false, the user is not prompted, and any changes to the document are discarded.

Returns Nothing.

fw.createDocument()

Availability Fireworks 3.0

Description Opens a new document and selects it. Values for size, resolution, and color are the same as the current defaults. To specify values other than the defaults, use fw.createFireworksDocument().

Arguments None.

Returns The Document object for the newly created document (see "Document" on page 13).

fw.createFireworksDocument()

Availability Fireworks 3.0

Description Opens a new document and selects it. Values for size, resolution, and color are explicitly specified. To open a new document with default values, use fw.createDocument().

Arguments *size, res, backgroundColor*

- The first argument is a point whose *x* value specifies the document's width and whose *y* value specifies the document's height. Both values are pixels.
- The second argument specifies the resolution for the scaled document (see "Resolution" on page 7).
- The last argument is a color string (see "Color string" on page 6).

Returns The Document object for the newly created document (see "Document" on page 13).

Example This command creates a new document 500 by 500 pixels in size, with a resolution of 72 dpi and a solid white background color.

```
fw.createFireworksDocument({x:500,y:500},{pixelsPerUnit:72,units:"inch"}, "#ffffff");
```

fw.exportDocumentAs()

Availability Fireworks 3.0

Description Exports the specified document to the specified file.

Arguments *document, fileURL, exportOptions*

- The first argument is a Document object (for example, fw.documents[2]) that specifies the document to be exported. If *document* is null, the active document is exported.
- The second argument is a string, expressed as a file:// URL, that specifies the file name for the exported file. If *fileURL* is null, the Save As dialog box is displayed.
- The last argument is an ExportOptions object (see "ExportOptions" on page 41). If *exportOptions* is null, the document's current export options are used. If the file format specified by *exportOptions* conflicts with the file format specified by *fileURL*, then the extension of *fileURL* is changed to match the format specified by *exportOptions*.

Returns Nothing.

Related Functions fw.exportHtmlAndImages()

fw.exportFrames()

Availability Fireworks 4.0

Description Exports a document's frames as individual images. The images are named based on the names in the Frames panel.

Arguments *docObject, directoryURL*

- The first argument is a Document object that specifies the document containing the frames to be exported (see "Document" on page 13). To export frames from the current document, pass null.
- The second argument is the directory in which the images will be placed, expressed as a file:// URL.

Example This command exports the frames in the current document to the "C:\images" directory.

```
fw.exportFrames(null, "file:///C|/images");
```

fw.exportHtmlAndImages()

Availability Fireworks 4.0

Description Exports one image if the document contains no slice objects, and multiple images if the document contains one or more slice objects. Also optionally exports HTML. The document is exported using the current export settings and export options.

Arguments *doc, htmlUrl, imagesUrl*

- The first argument is a Document object that specifies the document to be exported (see "Document" on page 13). If *doc* is null, the active document is exported.
- The second argument is the file name for the exported HTML file, expressed as a file:// URL. If *htmlUrl* is null, no HTML is generated.
- The last argument is the file name for the exported image(s), expressed as a file:// URL, and may not be null. If a single image is generated, this function uses *imagesUrl* as the file name for the image. If multiple sliced images are exported, it uses *imagesURL* to generate autonamed images, and all images are placed in this directory.

Returns Nothing.

Example This command exports the current document as HTML and as one or more images.

```
fw.exportHtmlAndImages(null, "file:///C|/mysite/nav.htm", "file:///C|/mysite/images/nav.gif");
```

Related Functions fw.exportDocumentAs()

fw.exportLayers()

Availability Fireworks 4.0

Description Exports a document's layers as individual images. The images are named based on the names in the Layers panel. The layers from the current frame are exported.

Arguments *docObject, directoryURL*

- The first argument is a Document object that specifies the document containing the layers to be exported (see "Document" on page 13). To export layers from the current document, pass null.
- The second argument is the directory in which the images will be placed, expressed as a file:// URL.

Example This command exports the layers in the third open document to the "C:\images" directory.

```
fw.exportLayers(fw.documents[2], "file:///C|/images");
```

fw.exportPSD()

Availability Fireworks 4.0

Description Exports a Fireworks document as a Photoshop document.

Arguments *docObject, PSDDocumentURL*

- The first argument is a Document object that specifies the document to be exported (see "Document" on page 13). To export the current document, pass null.
- The second argument is the name of the Photoshop document to be created, expressed as a file:// URL.

Example The Photoshop writer is controlled by the values of several preferences. See the following example for allowed values. A well-behaved script should restore the original values after exporting the file.

```
var prevWarn = fw.getPref("PsdExport_Warn100"); // bool
fw.setPref("PsdExport_Warn100", false);  // don't warn.

var kObjToLayer = 1;
var kFlatten = 2;
var prevLayers = fw.getPref("PsdExport_Layers");
fw.setPref("PsdExport_Layers", kObjToLayer);  // flatten layers or not.

var kEffectEditable = 1;
var kEffectRender = 2;
var prevEffects = fw.getPref("PsdExport_Effects");
fw.setPref("PsdExport_Effects", kEffectEditable);

var kTextEditable = 1;
var kTextRender = 2;
var prevText = fw.getPref("PsdExport_Text");
fw.setPref("PsdExport_Text", kTextRender);

fw.exportPSD(null, "file:///C|/new folder/test.psd");

// Put the prefs back.
fw.setPref("PsdExport_Warn100", prevWarn);
fw.setPref("PsdExport_Layers", prevLayers);
fw.setPref("PsdExport_Effects", prevEffects);
fw.setPref("PsdExport_Text", prevText);
```

fw.exportSWF()

Availability Fireworks 4.0

Description Exports a Fireworks document as a Flash document.

Arguments *docObject, FlashDocumentURL*

- The first argument is a Document object that specifies the document to be exported (see "Document" on page 13). To export the current document, pass null.
- The second argument is the name of the Flash document to be created, expressed as a file:// URL.

Example The Flash writer is controlled by the values of several preferences. See the following example for allowed values. A well-behaved script should restore the original values after exporting the file.

```
var prevMaintainObjEditable = fw.getPref("SwfMaintainObjEditable");
fw.setPref("SwfMaintainObjEditable", true);
    // maintain non-text editability
    //at expense of appearance or not

var prevMaintainTextEditable = fw.getPref("SwfMaintainTextEditable");
fw.setPref("SwfMaintainTextEditable", false);
    // maintain text editability
    // at expense of appearance or not

var prevExportAllFrames = fw.getPref("SwfExportAllFrames");
fw.setPref("SwfExportAllFrames", true);
    // if true all frames are exported

var prevExportFromFrame = fw.getPref("SwfExportFromFrame");
fw.setPref("SwfExportFromFrame", 1);
    // from frame; only used ifSwfExportAllFrames is false
var prevExportToFrame = fw.getPref("SwfExportToFrame");
fw.setPref("SwfExportToFrame", 5);
    // from frame; only used if SwfExportAllFrames is false

var prevJpegQualit = fw.getPref("SwfJpegQuality");
fw.setPref("SwfJpegQuality", 85);  // JPEG quality

var prevFrameRate = fw.getPref("SwfFrameRate");
fw.setPref("SwfFrameRate", 5);  // frame rate

fw.exportSWF(null, "file:///C|/new folder/test.swf");

// Put the prefs back.
fw.setPref("SwfMaintainObjEditable", prevMaintainObjEditable);
fw.setPref("SwfMaintainTextEditable", prevMaintainTextEditable);
fw.setPref("SwfExportAllFrames", prevExportAllFrames);
fw.setPref("SwfExportFromFrame", prevExportFromFrame);
fw.setPref("SwfExportToFrame", prevExportToFrame);
fw.setPref("SwfJpegQuality", prevJpegQualit);
fw.setPref("SwfFrameRate", prevFrameRate);
```

fw.findNext()

Availability Fireworks 3.0

Description Finds the next instance of the current search string and selects that section of the document. To begin a search, use fw.setUpFindReplace().

Arguments None.

Returns The number of items replaced if the search is completed, or –1 if there are items in the document remaining to be searched.

fw.findOpenDocument()

Availability Fireworks 3.0

Description Determines whether the specified file is open in a Fireworks document window.

Arguments *docname*

The argument is a string that specifies the name of the document, expressed as a file:// URL.

Returns If the document is open, returns the Document object; otherwise returns null (see "Document" on page 13).

fw.getDocumentDOM()

Availability Fireworks 3.0

Description Returns the Document object for the active document (see "Document" on page 13).

Arguments {*which-string*}

The argument is an optional string included for compatibility with Dreamweaver. If specified here, it must be "document".

Returns The Document object for the active document, or null if no document is open.

fw.getDocumentPath()

Availability Fireworks 3.0

Description Gets the path and file name of the specified document.

Arguments *document*

The argument is a Document object (for example, fw.documents[2]) that specifies the document whose path and file name should be retrieved. If *document* is null, information about the active document is retrieved.

Returns The file URL for the document if it was saved, or an empty string if it was not yet saved.

fw.getFloaterGroupings()

Availability Fireworks 3.0

Description Gets an array of arrays that indicates the tab-grouping of the panels (even hidden ones).

Arguments None.

Returns An array looking something like this:

[["stroke", "fill", "effect"], ["layers", "frames", "object"], ["mixer", "options", "swatches", "info"], ["styles", "library"], ["find", "project log"], ["url"], ["optimize", "optimized colors"], ["behaviors"], ["history"]]

fw.getFloaterPosition()

Availability Fireworks 3.0

Description Gets the screen position and size of the specified panel.

Arguments *panelName*

Acceptable values for *panelName* are "find", "project log", "object", "info", "url", "effect", "history", "mixer", "fill", "stroke", "swatches", "layers", "frames", "behaviors", "optimize", "library", "styles", "optimized colors", "options", and "toolbox".

Returns A rectangle that specifies the bounds of the panel (see "Rectangle" on page 7).

fw.getFloaterVisibility()

Availability Fireworks 3.0

Description Checks to see if a specified panel is visible.

Arguments *panelName*

Acceptable values for *panelName* are "find", "project log", "object", "info", "url", "effect", "history", "mixer", "fill", "stroke", "swatches", "layers", "frames", "behaviors", "optimize", "library", "styles", "optimized colors", "options", and "toolbox".

Returns true if the specified panel is visible, false otherwise.

fw.getHideAllFloaters()

Availability Fireworks 3.0

Description Returns the hidden or visible status of the panels.

Arguments None.

Returns true if the panels are hidden, false otherwise.

fw.getPref()

Availability Fireworks 3.0

Description Returns the preference value (string or numeric) associated with the specified preference key.

Arguments *prefkey*

The argument is a string that specifies the preference value to return. A complete list of these values is beyond the scope of this manual, but the format of *prefkey* exactly matches that in the Fireworks Preferences file. To set a preference value, use fw.setPref().

Returns A string or numeric preference value.

fw.locateDocDialog()

Availability Fireworks 4.0

Description Displays a dialog box that lets the user choose one or more files. For syntax details, see "Using fw.locateDocDialog()" on page 27.

Arguments *maxnumdocs, formatlist*

- The first argument specifies the maximum number of documents to be chosen.
- The second argument is a list of acceptable file types to open.

Returns An array of file:// URLs, or null if the dialog box is canceled.

fw.openDocument()

Availability Fireworks 3.0, enhanced in 4.0

Description Opens the specified file(s) in new document windows. If a file is already open, it is opened again; to avoid redundant opens, call findOpenDocument() first.

Arguments {*fileURL*}, {*bOpenAsNew*}

- The first argument is a string or an array of strings, each expressed as a file:// URL, specifying the file(s) to be opened. If *fileURL* is omitted or null, the Open Document dialog box is displayed.
- If the second argument, added in Fireworks 4, is true, the document(s) are opened as unsaved and untitled. If false (the default value), they are opened under their original names.

Returns If any of the file(s) can be opened, returns the Document object for each file. Returns null if none of the documents can be opened.

fw.quit()

Availability Fireworks 4.0

Description Identical to fw.quitApplication().

fw.quitApplication()

Availability Fireworks 3.0

Description Quits Fireworks, prompting the user to save any changed documents.

Arguments None.

Returns Nothing.

fw.replace()

Availability Fireworks 3.0

Description Verifies that the selection matches the current search string and replaces it with the replacement string.

Arguments None.

Returns The number of items replaced, or –1 if there are items in the document remaining to be searched.

Related Functions fw.setUpFindReplace()

fw.replaceAll()

Availability Fireworks 3.0

Description Performs a Replace All operation on the active document, using the current search and replacement strings.

Arguments None.

Returns The number of items replaced, or –1 if the find is not yet complete.

Related Functions fw.setUpFindReplace()

fw.revertDocument()

Availability Fireworks 3.0

Description Reverts the specified document to its previously saved version.

Arguments {*document*}

The argument is a Document object (for example, fw.documents[2]) that specifies the document to be reverted. If *document* is omitted or null, the active document is reverted.

Returns Nothing.

fw.runScript()

Availability Fireworks 3.0

Description Executes a JavaScript file.

Arguments *filename*

The argument is the name of the script file to be executed. If *filename* is not a file URL (that is, it does not begin with "file:///"), it is assumed to be the name of a file in the Fireworks 4/Settings/Commands folder.

Returns Result of script.

Example This command runs a script found in the Commands folder called "Align Center to Document".

```
fw.runScript("Align Center to Document.jsf");
```

fw.saveAll()

Availability Fireworks 3.0

Description Saves all open documents, displaying the Save As dialog box for any documents that were not previously been saved.

Arguments None.

Returns Nothing.

fw.saveDocument()

Availability Fireworks 3.0

Description Saves the specified document as a native Fireworks PNG file with the specified name. To save a document to another format, such as GIF or JPEG, use fw.exportDocumentAs().

Arguments *document, {fileURL}*

- The first argument is a Document object (for example, fw.documents[2]) that specifies the document to be saved. If *document* is null, the active document is saved.
- The second argument is the name of the saved document expressed as a file:// URL. If *fileURL* is null or omitted, the document is saved with its current name; if the document was not yet saved, the Save As dialog box is displayed.

Returns Nothing.

fw.saveDocumentAs()

Availability Fireworks 3.0

Description Displays the Save As dialog box for the specified document, allowing it to be saved as a native Fireworks PNG file with the specified name. To save a document to another format, such as GIF or JPEG, use fw.exportDocumentAs().

Arguments *document*

The argument is a Document object (for example, fw.documents[2]) that specifies the document to be saved. If *document* is null, the active document is saved.

Returns The file URL for the saved document, or null if the dialog box was canceled.

fw.saveDocumentCopyAs()

Availability Fireworks 3.0

Description Saves a copy of the specified document as a native Fireworks PNG file with the specified name. To save a document to another format, such as GIF or JPEG, use fw.exportDocumentAs().

Arguments *document, fileURL*

- The first argument is a Document object (for example, fw.documents[2]) that specifies the document to be saved. If *document* is null, the active document is saved.
- The second argument is the file name for the saved file, expressed as a file:// URL. If *fileURL* is null, the Save As dialog box is displayed.

Returns The file URL for the saved document, or null if the dialog box was canceled.

fw.saveJsCommand()

Availability Fireworks 3.0

Description Saves the specified string of JavaScript code as a JSF command file.

Arguments *jscode, filename*

- The first argument specifies the string of code to be saved as a JSF command file.
- The second argument specifies the name in which the file should be saved. If *filename* is not a file URL (that is, it does not begin with "file:///"), the file is saved in the Fireworks 4/Settings/Commands folder.

Returns Nothing.

fw.setActiveWindow()

Availability Fireworks 3.0

Description Sets the specified document as the active document.

Arguments *document, {trueFalse}*

- The first argument is a Document object (for example, fw.documents[2]) that specifies which document should be made active.
- The second (optional) argument is ignored by Fireworks. It is included only for Dreamweaver compatibility.

Returns Nothing.

Example This command makes the fourth document the active document.

```
fw.setActiveWindow(fw.documents[3]);
```

fw.setFloaterGrouping()

Availability Fireworks 3.0

Description Moves the specified panel into another specified panel, changing it to a tab within that panel. This is the same behavior as dragging a tab from one panel to another, or to its own panel.

Arguments *panelNameToMove, panelNameToReceive*

- The first argument is a lowercase string that specifies the panel to be moved.
- The second argument is a lowercase string that specifies the panel into which *panelNameToMove* should be moved. If *panelNameToReceive* is null, then the *panelNameToMove* is moved into a new panel by itself.

Returns Nothing.

Example This command moves the Stroke tab from its current location into the panel named Object. Even though the panel name may be capitalized onscreen, it must be passed as lowercase.

```
fw.setFloaterGrouping("stroke", "object");
```

fw.setFloaterPosition()

Availability Fireworks 3.0

Description Sets the position and size of a panel.

Arguments *panelName, boundingRectangle*

- Acceptable values for *panelName* are "find", "project log", "object", "info", "url", "effect", "history", "mixer", "fill", "stroke", "swatches", "layers", "frames", "behaviors", "optimize", "library", "styles", "optimized colors", "options", and "toolbox".
- The second argument is a rectangle that specifies the size of the panel (see "Rectangle" on page 7). Some panels ignore the specified size but place the top left corner of the panel at the top left location of the specified rectangle.

Returns Nothing.

fw.setFloaterVisibility()

Availability Fireworks 3.0

Description Shows or hides the specified panel.

Arguments *panelName, bVisible*

- Acceptable values for *panelName* are "find", "project log", "object", "info", "url", "effect", "history", "mixer", "fill", "stroke", "swatches", "layers", "frames", "behaviors", "optimize", "library", "styles", "optimized colors", "options", and "toolbox".
- If the second argument is true, the specified panel is visible. If false, it is hidden.

Returns Nothing.

fw.setHideAllFloaters()

Availability Fireworks 3.0

Description Shows or hides the panels. This behavior is the same as the tab key functionality.

Arguments *bHide*

If the argument is true, the panels are hidden. If false, they are visible.

Returns Nothing.

fw.setPref()

Availability Fireworks 3.0

Description Sets the value associated with the specified preference key.

Arguments *prefname, prefval*

A complete list of these values is beyond the scope of this manual, but the format of *prefname* and *prefval* exactly matches those in the Fireworks Preferences file. To return the value associated with a preference key, use fw.getPref().

Returns Nothing.

fw.setUpFindReplace()

Availability Fireworks 3.0

Description Sets up a search.

Arguments *findSpec*

The argument is a Find object (see "Find" on page 20).

Returns Nothing.

fw.toggleFloater()

Availability Fireworks 3.0

Description Shows, hides, or makes topmost the specified panel.

- If the panel is not visible, makes it visible and topmost.
- If the panel is topmost, hides it.
- If the panel is visible but not topmost, makes it topmost.

Arguments *panelName*

Acceptable values for *panelName* are "find", "project log", "object", "info", "url", "effect", "history", "mixer", "fill", "stroke", "swatches", "layers", "frames", "behaviors", "optimize", "library", "styles", "optimized colors", "options", and "toolbox".

Returns Nothing.

fw.ungroupPrimitives()

Availability Fireworks 4.0

Description Replaces selected primitive objects with their equivalent paths. The new objects have all the attributes of the ones they replaced (mask, stroke, fill, and so on).

Arguments None.

Returns Nothing.

Related Functions dom.addNewRectanglePrimitive()

fw.updateHTML()

Availability Fireworks 4.0

Description Updates the HTML previously exported from Fireworks.

Arguments *doc, htmlUrl*, *bRecoverFromError*

- The first argument is a Document object that specifies the document to be used for updating the HTML (see "Document" on page 13). If *doc* is null, the active document is used.
- The second argument is the file name for the HTML file that will be updated, expressed as a file:// URL. To force Fireworks to display the Update HTML dialog box, pass null for *htmlUrl*. If you pass null for *htmlUrl*, *bRecoverFromError* is ignored.
- If the third argument (*bRecoverFromError*) is true and the HTML update encounters an error, Fireworks displays a Confirmation dialog box and attempts to recover. If it is false, Fireworks fails silently if it encounters an error.

Returns true if the HTML was updated, false otherwise.

Example This command updates the images in an HTML file, using the current document.

```
fw.updateHTML(null, "file:///C|/mysite/nav.htm", true);
```

Using the addBehavior() function

The syntax for dom.addBehavior() is:

fw.getDocumentDOM().addBehavior(*action, event, eventindex*);

where the first argument is a string that specifies the behavior to be added (see "dom.addBehavior()" on page 69). The information in this section describes the acceptable values for the first argument passed to dom.addBehavior().

MM_nbGroup [down]

Availability Fireworks 3.0

Description Sets a navigation bar down behavior.

Arguments *type, barName, target, swapFrame, fileName, preload*

- Pass "down" for *type*.
- Pass "navbar1" for the name of the navigation bar.
- The third argument (*target*) specifies the slice that the behavior is attached to. Pass –1 for this value; all other values are used internally by Fireworks.
- The fourth argument (*swapFrame*) is a zero-based integer that specifies the frame to swap. To use *fileName* as a URL, pass –1 here.
- The fifth argument (*fileName*) specifies the frame or file to be swapped. If you specified a frame to use in *swapFrame*, pass an empty text string here. If you want to specify a file name and you passed –1 for *swapFrame*, pass the string for the relative URL of the image here.
- The last argument (*preload*) is a binary value that specifies whether to preload the swapped image (pass 1) or not (pass 0).

Example

```
fw.getDocumentDOM().addBehavior("MM_nbGroup(\'down\',\'navbar1\',-1,2,\"\",1)",
"onClick", -1);
```

MM_nbGroup [highlight]

Availability Fireworks 3.0

Description Sets a navigation bar highlight behavior.

Arguments *type, target, swapFrame, fileName, preload, downHighlight, downHighlightFrame, downHighlightFilename*

- Pass "over" for *type*.
- The second argument (*target*) specifies the slice that the behavior is attached to. Pass –1 for this value; all other values are used internally by Fireworks.
- The third argument (*swapFrame*) is a zero-based integer that specifies the frame to swap. To use *fileName* as a URL, pass –1 here.
- The fourth argument (*fileName*) specifies the frame or file to be swapped. If you specified a frame to use in *swapFrame*, pass an empty text string here. If you want to specify a file name and you passed –1 for *swapFrame*, pass the string for the relative URL of the image here.
- The fifth argument (*preload*) is a binary value that specifies whether to preload the swapped image (pass 1) or not (pass 0).
- The sixth argument (*downHighlight*) is a binary value that specifies whether an image should be used for highlighting on mouse down (pass 1) or not (pass 0). If you pass 1, use the next two arguments to specify the frame or image to be used.
- The seventh argument (*downHighlightFrame*) is a zero-based integer that specifies the frame to use as a highlight image. To use *downHighlightFilename* as a URL, pass –1 here.
- The last argument (*downHighlightFilename*) specifies the frame or file to be used as the highlight image. If you specified a frame to use in *downHighlightFrame*, pass an empty text string here. If you want to specify a file name and you passed –1 for *downHighlightFrame*, pass the string for the relative URL of the image here.

Example

```
fw.getDocumentDOM().addBehavior("MM_nbGroup(\'over\',-1,1,\"\",1,0,3,\"\")",
"onMouseOver", -1);
```

MM_nbGroup [image]

Availability Fireworks 3.0

Description Sets a navigation bar image behavior.

Arguments *type, downHighlight, initiallyDown*

- Pass "all" for *type*.
- The second argument (*downHighlight*) is a binary value that specifies whether the image should be highlighted on mouse down (pass 1) or not (pass 0).
- The third argument (*initiallyDown*) is a binary value that specifies whether the image should initially appear as down (pass 1) or not (pass 0).

Example

```
fw.getDocumentDOM().addBehavior("MM_nbGroup(\'all\',1,0)", "onMouseOver", -1);
```

MM_nbGroup [out]

Availability Fireworks 3.0

Description Sets a navigation bar restore behavior.

Arguments *type*

Pass "out" for *type*.

Example

```
fw.getDocumentDOM().addBehavior("MM_nbGroup(\'out\')", "onMouseOut", -1);
```

MM_simpleRollover

Availability Fireworks 3.0

Description Adds a simple rollover behavior.

Arguments None.

Example

```
fw.getDocumentDOM().addBehavior("MM_simpleRollover()", "onMouseOver", -1);
```

MM_statusMessage

Availability Fireworks 3.0

Description Sets a status bar message.

Arguments *message*

The argument is a string that specifies the status message to be displayed.

Example

```
fw.getDocumentDOM().addBehavior("MM_statusMessage(\"Status Message!\")",
"onMouseOver", -1);
```

MM_swapImage

Availability Fireworks 3.0

Description Adds a swap image behavior.

Arguments *target, swapFrame, fileName, preload, restoreOnMouseOut*

- The first argument specifies the slice that the behavior is attached to. Pass –1 for this value; all other values are used internally by Fireworks.
- The second argument (*swapFrame*) is a zero-based integer that specifies the frame to swap. To use *fileName* as a URL, pass –1 here.
- The third argument (*fileName*) specifies the frame or file to be swapped. If you specified a frame to use in *swapFrame*, pass an empty text string here. If you want to specify a file name and you passed –1 for *swapFrame*, pass the string for the relative URL of the image here.
- The fourth argument (*preload*) is a binary value that specifies whether to preload the swapped image (pass 1) or not (pass 0).
- The last argument (*restore*) is a binary value that specifies whether to restore on mouse out (pass 1) or not (pass 0).

Example

```
fw.getDocumentDOM().addBehavior("MM_swapImage(-1,1,\"\",1,1)", "onMouseOver", -1);
```

MM_swapImgRestore

Availability Fireworks 3.0

Description Adds a swap image restore behavior.

Arguments None.

Example

```
fw.getDocumentDOM().addBehavior("MM_swapImgRestore()", "onMouseOut", -1);
```

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