

ADOBE PHOTOSHOP CC

APPLESCRIPT SCRIPTING REFERENCE



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Adobe® Photoshop® CC AppleScript Scripting Reference for Macintosh®.

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I Introduction

This reference describes the objects and commands in the Adobe® Photoshop® CC AppleScript dictionary. A companion document, *Photoshop CC Scripting Guide*, describes basic scripting concepts and the Photoshop object model. This document provides reference details of the Photoshop object model, and additional information on AppleScript-specific features.

This book contains the following sections:

- This introduction, which describes scripting support in Adobe Photoshop CC, and lists changes to the AppleScript interface since the previous release.
- AppleScript Objects, which provides a complete reference for all AppleScript Photoshop DOM objects.
- AppleScript Commands, which provides a complete reference for all AppleScript Photoshop DOM commands.

Changes Since Earlier Versions—CC Changes

The following changes have been made to the AppleScript object model and language support in Adobe Photoshop CC:

- bounds no effects property has been added to the art layer object.
- amount real parameter has been added to the resize image command.
- automatic, bicubic automatic and preserve details have been added to the resample method parameter of the resize image command.

AppleScript Objects

The objects of the AppleScript dictionary for Adobe Photoshop CC are presented alphabetically and in tabular format in this chapter. Where appropriate, the object class has two tables:

- Element Lists the classes that inherit from the current class, as well as the methods by which the classes can be referred.
- Property The properties you can use with the object, as well as each property's value type, input status, and description.

The commands that can be used with an object are listed below the object's Properties table.

Sample code for several object classes is given to help illustrate the syntax as well as usage of the object class.

The following sample tables and command list illustrate the format for this chapter.

Elements

Element	Refer to by	
channel	name, numeric index, as a range of elements, before	
	after another element, satisfying a test	

Properties

Property	Value Type	What it is
bits per channel	Valid values:	The number of bits per channel.
	eight one sixteen	
component channels	list of channels	Read-only. A list of the component color channels.
current channels	list of channel	The selected channels.
current layer	layer	The selected layer.
info	info-object	Read-only. The document metadata.

Valid Commands

change mode
close
convert
count

add noise

Options that may be supplied when applying an Add Noise filter.

The add noise class supplies properties for the <u>filter options</u> class. The add noise class is used only to define a record whose properties specify options when applying an Add Noise filter. add noise options can be supplied only in conjunction with the filter command. It is not possible to get or create an add noise object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
amount	real	(amount: 0.1% - 400%)
distribution	Valid values:	
	Gaussian uniform	
monochromatic	boolean	

The following code sample demonstrates how to apply the add noise filter using the filter command of the add noise class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using add noise ¬
     with options {class:add noise, amount:2.5, distribution:uniform, ¬
     monochromatic:false}
end tell
```

adjustment options

Options used with the adjust method. The following classes inherit properties from the adjustment options class: automatic contrast, automatic levels, brightness and contrast, color balance, curves, desaturate, equalize, inversion, levels adjustment, mix channels, photo filter, posterize, selective color, threshold adjustment.

Valid Commands

adjust

application

The Adobe Photoshop CC application object, which contains all other Adobe Photoshop CC objects.

Elements

Elements	Refer to by	
document	name, numeric index, as a range of elements, before/ after another element, satisfying a test	
font	name, numeric index, as a range of elements, before/ after another element, satisfying a test	
notifier	name, numeric index, as a range of elements, before/ after another element, satisfying a test	

Property	Value type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
properties	record	All of this object's properties returned in a single record.
background color	color value	The color for the document's background color.
build	string	Read-only. Information about the application build.
color settings	string or color object	The name of selected color setting's set.
current document	document	The frontmost document.
display dialogs	Valid Values: always error dialogs never	Controls whether and dialogs are displayed while the script is running.
foreground color	color value	The default foreground color (used to fill and stroke selections).
free memory	real	Read-only. The amount of unused memory available to Adobe Adobe Photoshop CC.
frontmost	boolean	Read-only. Indicates whether Adobe Photoshop CC is the frontmost application.
locale	string	Read-only. The language location of the application.
macintosh file types	list of Unicode text	Read-only. A list of file image types Adobe Photoshop CC can open.
measurement log	measurement log	The log of measurements taken.

Property	Value type	What it is (Continued)
name	Unicode text	Read-only. The application's name.
notifiers enabled	boolean	TIndicates whether all notifiers are enabled or disabled
preferences folder	alias	Read-only. The full path to the Preferences folder.
recent files	list of file specification	Read-only. Files in the Recent Files list.
scripting build date	Unicode text	Read-only. The build date of the scripting interface .
scripting version	Unicode text	Read-only. The scripting interface version.
settings	settings-object	Read-only. The application preference settings (equivalent to selecting Edit > Preferences in the Adobe Photoshop CC application in Windows® or Photoshop > Preferences in Mac OS®).
system information	string	Read-only. Runtime details of the application and system.
windows file types	list of Unicode text	Read-only. A list of file image types Adobe Photoshop CC can open.
version	Unicode text	Read-only. The Adobe Photoshop version.

The the first line of the following code sample directs Adobe Photoshop CC to carry out the script's commands. The second line uses the activate command to make Adobe Photoshop CC the frontmost application.

```
tell application "Adobe Photoshop CC"
  activate
  set fqColor to foreground color
  set bgColor to background color
  set foreground color to {class:RGB color, red:255, green:128, blue:128}
  set background color to {class:RGB color, red:0, green:50, blue:255}
  set foreground color to fqColor
  set background color to bgColor
  tell me to activate
  my dd("name:" & name)
  my dd("locale:" & locale)
  my dd("scripting version:" & scripting version)
  my dd("scripting build date:" & scripting build date)
  my dd("macintosh file types:" & macintosh file types)
  my dd("windows file types:" & windows file types)
end tell
on dd(msg)
  display dialog msg giving up after 1
end dd
```

Valid Commands

<u>purge</u> <u>quit</u> refresh

art layer, art layers

Any layer that can contain data. The art layer class inherits properties from the layer, laye

Property	Value Type	What it is
best type	type class	Read-only. (Inherited from the layer class) The best type for the object's value.
class	class	Read-only. (Inherited from the layer class) The object's class.
default type	type class	Read-only. (Inherited from the layer class) The default type for the object's value.
index	integer	Read-only. (Inherited from the layer class) The index of this instance of the object.
properties	record	(Inherited from the layer class) All of this object's properties returned in a single record.
all locked	boolean	(Inherited from the layer class) Indicates whether all of the layer's contents are locked or editable.
blend mode	Valid Values: color blend color burn color dodge darken darker color difference dissolve divide exclusion hard light hard mix hue blend lighter color linear burn linear dodge linear light luminosity multiply normal overlay pass through pin light saturation blend screen soft light subtract vivid light	(Inherited from the layer class) The mode used when compositing an object.

Property	Value Type	What it is (Continued)
bounds	list of real	Read-only. (Inherited from the layer class) A list of coordinates that describes the bounding rectangle of the layer.
bounds no effects	list of real	Read-only. (Inherited from the layer class) A list of coordinates that describes the bounding rectangle of the layer not including effects.
container	reference	Read-only. (Inherited from the layer class) The object's container.
linked layers	list of layers	Read-only. (Inherited from the layer class) The layers linked to this layer.
name	Unicode text	(Inherited from the layer class) The layer's name.
opacity	real	(Inherited from the layer class) The layer's master opacity (0.0 - 100.0).
visible	boolean	(Inherited from the layer class) Indicates whether the layer is visible.
background layer	boolean	Indicates whether the layer is a background layer.
fill opacity	real	The layer's interior opacity (0.0 - 100.0).
grouped	boolean	Indicates whether the layer is grouped with the layer below.
kind	Valid Values: blank and white layer brightness contrast layer channel mixer layer color balance layer curves layer exposure layer gradient fill layer gradient map layer hue saturation layer inversion layer levels layer normal pattern fill layer photo filter layer posterize layer smart object layer selective color layer solid fill layer text layer threeD layer threshold layer vibrance layer	Sets the layer's kind (such as 'text layer'). Note: You can use the kind property to make a background layer a normal layer; however, to make a layer a background layer, you must use background layer. Note: Valid only when the layer is empty and when background layer is false. See background layer.

Property	Value Type	What it is (Continued)
pixels locked	boolean	Indicates whether the pixels in the layer's image can be edited using the paintbrush tool.
position locked	boolean	Indicates whether the pixels in the layer's image can be moved within the layer.
text object	text-object	Read-only. The text item that is associated with the art layer. Note: Valid only when kind: text layer.
transparent pixels locked	boolean	Indicates whether editing is confined to the opaque portions of the layer.

Valid Commands

```
adjust
apply layer style
clear
сору
copy merged
count
cut
delete
duplicate
exists
filter
index
link
<u>make</u>
merge
move
<u>rasterize</u>
rotate
scale
<u>translate</u>
unlink
```

The following code creates a text layer by creating an art layer and setting its kind property to text layer.

```
tell application "Adobe Photoshop CC"
   activate

--create a variable named theDocRef
   --assign the current (active) document to it
   set theDocRef to the current document

--create a variable for the text layer, create the layer as an art layer object
   --and use the kind property of the art layer object to make it a text layer
   set theTextLayer to make new art layer in theDocRef with properties ¬
   {kind:text layer}
```

automatic contrast

The automatic contrast class supplies options properties for the adjustment options class to automatically adjust the overall contrast and mixture of colors in an RGB image.

The automatic contrast class, which is analogous to the Auto Contrast command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply an Auto Contrast adjustment to an image. The automatic contrast class can be used only in conjunction with the adjust command. It is not possible to get or create an automatic contrast object.

See the adjust command for additional details.

The following code sample demonstrates how to apply an Automatic Contrast adjustment using the adjust command of the automatic contrast class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"
  adjust current layer of the current document using automatic contrast
end tell
```

automatic levels

The automatic levels class supplies options properties for the <u>adjustment options</u> class to automatically adjust the black point and white point in an image.

The automatic levels class, which is analogous to the Auto Levels command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply an Auto Levels adjustment to an image. The automatic levels class can be used only in conjunction with the adjust command. It is not possible to get or create an automatic levels object.

See the adjust command for additional details.

The following code sample demonstrates how to apply an Automatic Levels adjustment using the adjust command of the automatic levels class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC" adjust current layer of the current document using automatic levels end tell
```

average

Options that may be supplied when applying an Average filter.

The average class supplies properties for the <u>filter options</u> class. The average class is used only to define a record when using the <u>filter</u> command to apply an Average filter. average options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create an average object.

See the <u>filter</u> command for additional details.

The following code sample demonstrates how to apply the average filter using the filter command of the average class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using average end tell
```

batch options

Options to specify when running a Batch command. See <u>batch</u>.

Property	Value type	What it is
destination	Valid values: folder no destination save and close	The type of destination for the processed files (default: no destination).
destination folder	alias	The folder location for the processed files. Note: Valid only when destination: folder. See destination.
error file	alias	The file in which to log errors encountered. Note: To display errors on the screen (and stop batch processing when errors occur) leave blank.
file naming	Valid values: ddmm ddmmyy document name lower document name mixed document name upper extension lower extension upper mmdd mmddyy serial letter lower serial letter upper serial number one serial number two serial number three serial number four yyddmm yymmdd yyyymmdd	A list of file naming options (maximum: 6). Note: Valid only when destination: folder. See destination.
macintosh compatible	boolean	Indicates whether to make the final file nameS Macintosh compatible (default: true). Note: Valid only when destination: folder. See destination.
override open	boolean	Indicates whether to override action open commands (default: false).

Property	Value type	What it is (Continued)
override save	boolean	Indicates whether to override save as action steps with the specified destination (default: false).
		Note: Valid only when destination:folder or destination:save and close. See destination.
starting serial	number (long)	The starting serial number to use in naming files (default: 1).
		Note: Valid only when destination: folder. See <u>destination</u> .
suppress open	boolean	Indicates whether to suppress the file open options dialogs (default: false).
suppress profile	boolean	Indicates whether to suppress the color profile warnings (default: false).
unix compatible	boolean	Indicates whether to make the final file name Unix compatible (default: true).
		Note: Valid only when destination: folder. See <u>destination</u> .
windows compatible	boolean	Indicates whether to make the final file names Windows compatible (default: true).
		Note: Valid only when destination: folder. See <u>destination</u> .

Bitmap mode options

Options that can be specified when changing the document mode to Bitmap using the change mode command. The bitmap mode class inherits properties from the change mode options class.

This class is used to define a record containing properties that specify options when changing a document's mode. Bitmap mode options can only be supplied in conjunction with the change mode command. It is not possible to get or create a Bitmap mode options object. See the change mode command for more details.

Properties	Value Type	What it is
angle	real	The angle (in degrees) at which to orient individual dots (-180 - 180). See screen shape .
		Note: Valid only when conversion method: halftone screen.
conversion method	Valid Values: custom pattern diffusion dither halftone screen conversion middle threshold pattern dither	The conversion method to use (default: diffusion dither).
frequency	real	The number of printer dots (per inch) to use (1.0 - 999.99).
		Note: Valid only when conversion method: halftone screen.
pattern name	Unicode text	The name of the pattern to use.
		Note: Valid only when conversion method: custom pattern.
		For information about pre-installed valid patterns, see Adobe Photoshop CC Help on the bitmap conversion command, or view the options availabe in the Custom Color drop down box after choosing the bitmap conversion command.
resolution	real	The output resolution (in pixels per inch) (default: 72.0).
screen shape	Valid values:	The dot shape to use.
	halftone cross halftone diamond halftone ellipse halftone line halftone round halftone square	Note: Valid only when conversion method: halftone screen.

blur

Options that may be supplied when applying a Blur filter.

The blur class supplies properties for the <u>filter options</u> class. The blur class is used only to define a record when using the <u>filter</u> command to apply a Blur filter. blur options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a blur object.

See the <u>filter</u> command for additional details.

The following code sample demonstrates how to apply the blur filter using the filter command of the blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
   filter current layer of the current document using blur
end tell
```

blur more

The blur more class supplies properties for the <u>filter options</u> class when using the <u>filter</u> command apply a Blur More filter. The blur more class is used only to define a record when using the <u>filter</u> command to apply a Blur More filter. The blur more option can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a blur more object.

See the <u>filter</u> command for additional details.

The following code sample demonstrates how to apply the blur more filter using the filter command of the blur more class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using blur more end tell
```

BMP save options

Options that can be specified when saving a document in BMP format. See the <u>save</u> command for additional details. The BMP save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a BMP file. BMP save options can only be supplied in conjunction with the save command. It is not possible to get or create a BMP save options object.

Property	Value Type	What it is
bits per sample	Valid values: A1R5G5B5 A4R4G4B4 A8R8G8B8 eight four one R5G6B5 R8G8B8 sixteen thirty two twenty four X1R5G5B5 X4R4G4B4 X8R8G8B8	The number of bits per channel (default: twenty four).
flipped row order	boolean	Indicates whether to write the image from top to bottom (default: false). Note: Available only when target operating system: windows. See target operating system.
RLE compression	boolean	Indicates whether to use RLE compression. Note: Available only when target operating system: windows. See target operating system.
save alpha channels	boolean	Indicates whether to save the alpha channels.
target operating system	OS2 Windows	The target OS (default: Windows).

The following code creates the myOptions variable to hold the BMP save options, then uses the <u>save</u> command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:BmpTest.bmp"
  set myOptions to {class:BMP save options, bits per sample:sixteen, ¬
      flipped row order:false, RLE compression:true, save alpha channels:true,¬
      target operating system:Windows}
  save current document in file myFile as BMP with options ¬
      myOptions appending no extension without copying
end tell
```

brightness and contrast

The brightness and contrast class supplies options properties for the <u>adjustment options</u> class to adjust the tonal range of an image.

The brightness and contrast class, which is analogous to the Brightness/Contrast command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when applying a Brightness/Contrast adjustment to an image. The brightness and contrast class can be used only in conjunction with the adjust command. It is not possible to get or create a brightness and contrast object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
brightness level	integer	(-100 - 100)
contrast level	integer	(-100 - 100)

The following code sample demonstrates how to apply a Brightness/Contrast adjustment using the adjust command of the brightness and contrast class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"

adjust current layer of the current document using brightness and contrast ¬

with options {class:brightness and contrast, brightness level:10, ¬

contrast level:10}

end tell
```

Camera RAW open options

Options that can be specified when opening a document in Camera RAW format. The Camera RAW open options class inherits properties from the open options class.

This class is used to define a record containing properties that specify options when opening a document in raw format. Camera RAW open options can be supplied only in conjunction with the open command. It is not possible to get or create a Camera RAW open options object.

Property	Value type	What it is
bits per channel	Valid values: eight one sixteen thirty two	The number of bits per channel.
blue hue	integer	The blue hue of the shot (-100 - 100).
blue saturation	integer	The blue saturation of the shot (-100 - 100).
brightness	integer	The brightness of the shot (0 - 150).
chromatic aberration by	integer	The chromatic aberration B/Y of the shot (-100 - 100).
chromatic aberration rc	integer	The chromatic aberration R/C of the shot (-100 - 100).
color noise reduction	integer	The color noise reduction of the shot (0 - 100).
color space	Valid values: Adobe RGB color match RGB ProPhoto Rgb sRGB	The colorspace for the image.
contrast	integer	The contrast of the shot (-50 - 100).
exposure	real	The exposure of the shot (4.0 - 4.0).
green hue	integer	The green hue of the shot (-100 - 100).
green saturation	integer	The green saturation of the shot (-100 - 100).
luminance smoothing	integer	The luminance smoothing of the shot (0 - 100).
red hue	integer	The red hue of the shot (-100 - 100).
red saturation	integer	The red saturation of the shot (-100 - 100).
resolution	real	The resolution of the document in pixels per inch (1 - 999).
saturation	integer	The saturation of the shot (-100 - 100).

Property	Value type	What it is (Continued)
settings	Valid values: camera default custom settings selected image	The global settings for all Camera RAW options. Default value: camera default.
shadows	integer	The shadows of the shot (0 - 100).
shadow tint	integer	The shadow tint of the shot (-100 - 100).
sharpness	integer	The sharpness of the shot (0 - 100).
size	Valid values: extra large large maximum medium minimum small	The size of the new document. extra large=5120 x 3413 large=4096 x 2731 maximum=6144 x 4096 medium=3072 x 2048 minimum=1536 x 1024 small=2048 x 1365
temperature	integer	The temperature of the shot (2000 - 50000).
tint	integer	The tint of the shot (-150 - 150).
vignetting amount	integer	The vignetting amount of the shot (-100 - 100).
vignetting midpoint	integer	The vignetting mid point of the shot (-100 - 100).
white balance	Valid values: as shot auto cloudy custom camera settings daylight flash fluorescent shade tungston	The white balance options for the image.

The following code opens a camera raw document.

```
tell application "Adobe Photoshop CC"
  set myFilePath to alias "Data:docsamples:testfiles:CanonG1.CRW"
  open myFilePath as Camera RAW with options \neg
      {class:Camera RAW open options, bits per channel:eight, ¬
      color noise reduction:20, temperature:4200, white balance:cloudy}
end tell
```

change mode options

Options that can be supplied when changing a document's mode using the change mode command. See change mode for additional details.

The following classes inherit properties from the change mode options class: Bitmap mode options, indexed mode options.

Valid Commands

change mode

channel, channels

A channel in a document. A channel can be either a component channel representing a color of the document color model or an alpha channel. You can use alpha channels to store masked areas, selected areas or spot colors.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this objects properties returned in a single record.
channel color	color value	The channel's color.
		Note: Not valid when kind: component channel. See <u>kind</u> .
container	reference	The object's container.
histogram	list of integers	Read-only. A histogram of color values for the channel.
		Note: Not valid when kind: component channel. For component component channel histogram values, use the histogram property of the document object instead. See histogram on page 52.
kind	Valid values:	The type of channel.
	component channel masked area channel selected area channel spot color channel	
name	Unicode text	The channel's name.
opacity	real	The opacity (as percent) to use for alpha channels or the solidity to use for spot channels (0 - 100).
		Note: Valid only when kind: masked area or kind: selected area.
visible	boolean	Indicates whether the channel is visible.

Valid Commands

count delete duplicate

exists index make merge

clouds

Options that may be supplied when applying a Clouds filter.

The clouds class supplies properties for the filter options class. The clouds class is used only to define a record when using the filter command to apply a Clouds filter. clouds options can be supplied only in conjunction with the filter command. It is not possible to get or create a clouds object.

See the <u>filter</u> command for additional details.

The following code sample demonstrates how to apply the clouds filter using the filter command of the clouds class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using clouds
end tell
```

CMYK color

Options that can be specified for a CMYK color: numeric values for the component colors. The CMYK color class inherits properties from the <u>color value</u> class.

This class a property of the <u>color value</u> object and is used to define a record that specifies options when creating a color value.

Note: If the mode of a document is RGB and you specify the color value for a stroke, foreground, or background color property using a CMYK color object, Adobe Photoshop CC translates the CMYK color specification into an RGB color specification. The same thing happens if the document's color mode is CMYK and you specify colors using a RGB color object. Since this translation can cause information loss you should specify colors using the color class that matches the document's color mode.

Properties

Property	Value Type	What it is
cyan	real	The cyan color value (as percent) (0.0 - 100.0).
magenta	real	The magenta color value (as percent) (0.0 100.0).
yellow	real	The yellow color value (as percent) (0.0 - 100.0).
black	real	The black color value (as percent) (0.0 - 100.0).

For an example of how to create and use color values, see <u>color value</u> and <u>RGB color</u>.

color balance

The color balance class specifies options for the <u>adjustment options</u> class to change the overall mixture of colors in an image for generalized color correction.

The color balance class, which is analogous to the Color Balance command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when applying a Color Balance adjustment to an image. The color balance class can be used only in conjunction with the adjust command. It is not possible to get or create a color balance object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
shadows	list of integers	The list of adjustments for shadows (three values (-100 - 100 required). The specified values indicate the color levels for component colors of the document mode, either RGB or CMYK. For CMYK mode, the values represent C, M, and Y.
midtones	list of integers	The list of adjustments for midtones (three values (-100 - 100 required). The specified values indicate the color levels for component colors of the document mode, either RGB or CMYK. For CMYK mode, the values represent C, M, and Y.
highlights	list of integers	The list of adjustments for highlights (three values (-100 - 100 required). The specified values indicate the color levels for component colors of the document mode, either RGB or CMYK. For CMYK mode, the values represent C, M, and Y.
preserve luminosity	boolean	Indicates whether to preserve the image luminosity.

The following code sample demonstrates how to apply a color balance adjustment using the adjust command of the color balance class (inherited from the adjustment options super class). This code adjusts only the shadows in the image.

```
tell application "Adobe Photoshop CC"

adjust current layer of the current document using color balance ¬

with options {class:color balance, shadows:{45, 4, 5}, ¬

preserve luminosity:false}

end tell
```

color sampler, color samplers

A color sampler for the document.

Note: For additional information about color samplers, see Adobe Photoshop CC help on the Color SamplerTool.

Properties

Property	Value type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
position	list of real	Read-only. The position of the color sampler in the document. This property can be set using the make command.
color sampler color	color value	Read-only. The color of the color sampler.

Valid commands:

count
delete
exists
index
make
open

color value

A color value. The following classes inherit properties from the color value class: CMYK color, gray color, HSB color, Lab color, no color, RGB color, RGB hex color.

The following script creates an RGB color value to use as the fill color for the selection.

Valid Commands

convert color
equal colors
web safe color

contact sheet options

Options that can be specified for a contact sheet. See create contact sheet.

Property	Value Type	What it is
across first	boolean	Indicates whether to place the images horizontally (left to right, then top to bottom) first (default: true).
auto spacing	boolean	Indicates whether to auto space the images (default: true).
best fit	boolean	Indicates whether to rotate images for the best fit (default: false).
caption	boolean	Indicates whether to use the filename as a caption for the image (default: true).
column count	integer	The number of columns to include (1 - 100; default: 5).
flatten final	boolean	Indicates whether to flatten all layers in the final document (default: true).
font	Valid values: Arial Courier New Helvetica Times New Roman	The font used for the caption (default: arial).
font size	integer	The font size to use for the caption (default: 12).
height	integer	The height (in pixels) of the resulting document (100 - 2900; default: 720).
horizontal offset	integer	The horizontal spacing (in pixels) between images (0 - 29000; default: 1).
mode	Valid values: bitmap CMYK grayscale Lab RGB	The document color mode (default: RGB).
resolution	real	The resolution of the document in pixels per inch (35 - 1200; default: 72.0).
row count	integer	The number of rows to use (1 - 100; default: 6).

Property	Value Type	What it is (Continued)
vertical offset	integer	The vertical spacing (in pixels) between images (0 - 29000; default: 1).
		Note: Valid only when use auto spacing: false.
width	integer	The width (in pixels) of the resulting document (100 - 2900; default: 576).

count item, count items

A counted item in the document. See <u>auto count</u>.

Note: The count item feature is available in the Extended Version only.

For additional information about count items, see Adobe Photoshop CC help on the Count Tool.

Properties

Property	Value type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
position	list of real	Read-only. The position of the count item in the document. This property can be set when using the make command.

Valid commands:

count
delete
exists
index
make

curves

The curves class supplies options for the <u>adjustment options</u> class to adjust the tonal range of an image. You can also use the curves object to make precise adjustments to individual color channels within an image.

The curves class, which is analogous to the Curves command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when applying a Curves adjustment to an image. The curves class can be used only in conjunction with the adjust command. It is not possible to get or create a curves object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
curve points	list of lists	The list of lists of coordinates (x and y) that indicate the points that describe the curve. (You must include 2 - 14 points).
		Tip: For more information, please refer to Adobe Photoshop CC Help.

The following code sample demonstrates how to apply a Curves adjustment using the adjust command of the curves class (inherited from the adjustment options super class).

```
--curve points are in {input, output} pairs
--{0,0} & {255,255} are the initial points when you open curves dialog.
tell application "Adobe Photoshop CC"
   adjust current layer of the current document using curves ¬
        with options {class:curves, ¬
        curve points:{{0, 0}, {25, 10}, {96, 166}, {189, 179}, {255, 255}}}
end tell
```

custom filter

Options that may be supplied when applying a Custom filter.

The custom filter class supplies properties for the <u>filter options</u> class. The custom filter class is used only to define a record whose properties specify options when applying a Custom filter. custom filter options can be supplied only in conjunction with the filter command. It is not possible to get or create a custom filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
characteristic	list of integers	The filter characteristics (array of 25 values; corresponds to a left to right, top to bottom traversal of the array presented in the user interface). Note: Required parameter values define the filter. Refer to Adobe Photoshop CC Help for specific instructions.
scaling	integer	
offset	integer	

The following code sample demonstrates how to apply a custom filter using the filter command of the custom filter class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
   filter current layer of the current document using custom filter with options
{characteristics:{0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0}, scaling:2, offset:0}
end tell
```

deinterlace

Options that may be supplied when applying a De-Interlace filter.

The deinterlace class supplies properties for the <u>filter options</u> class. The deinterlace class is used only to define a record whose properties specify options when applying a De-Interlace filter. deinterlace options can be supplied only in conjunction with the filter command. It is not possible to get or create a deinterlace object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
eliminate	Valid values: even fields odd fields	The type of fields to eliminate.
create new fields by	Valid values: duplication interpolation	The method to use to create new fields.

The following code sample demonstrates how to apply the De-Interlace filter using the filter command of the deinterlace class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using deinterlace ¬

with options {class:deinterlace, eliminate:odd fields, ¬

create new fields by:duplication}

end tell
```

desaturate

The desaturate class supplies options for the <u>adjustment options</u> class to convert a color image to a grayscale image in the current color mode by assigning equal values of each component color to each pixel.

The desaturate class, which is analogous to the Desaturate command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply a desaturation adjustment to a selected layer. The desaturate class can be used only in conjunction with the adjust command. It is not possible to get or create a desaturate object.

See the <u>adjust</u> command for additional details.

The following code sample demonstrates how to apply a Desaturate adjustment using the adjust command of the desaturate class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"
   adjust current layer of the current document using desaturate ¬
      with options {class:desaturate}
end tell
```

despeckle

Options that may be supplied when applying a Despeckle filter.

The despeckle class supplies properties for the <u>filter options</u> class. The despeckle class is used only to define a record whose properties specify options when using the filter command to apply a Despeckle filter. despeckle options can be supplied only in conjunction with the filter command. It is not possible to get or create a despeckle object.

See the filter command for additional details.

The following code sample demonstrates how to apply the despeckle filter using the filter command of the despeckle filter class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using despeckle ¬
     with options {class:despeckle}
end tell
```

DICOM open options

Settings related to opening a DICOM format document. The DICOM open options class inherits properties from the <u>open options</u> class.

This class is used to define a record containing properties that specify options when opening a document in raw format. DICOM open options can be supplied only in conjunction with the open command. It is not possible to get or create a DICOM open options object.

Note: DICOM open options is available in the Extended Version only.

Property	Value Type	What it is
anonymize	boolean	Indicates whether to make the patient information anonymous.
columns	integer	Number of columns in n-up configuration.
reverse	boolean	Indicates whether to reverse (invert) the image.
rows	integer	Number of rows in n-up configuration.
show_overlays	boolean	Indicates whether to show overlays.
windowlevel	integer	The contrast of the image in Houndsfield units.
windowwidth	integer	The brightness of the image in Houndsfield units.

difference clouds

Options that may be supplied when applying a Difference Clouds filter.

The difference clouds class supplies properties for the <u>filter options</u> class. The difference clouds class is used only to define a record whose properties specify options when using the filter command to apply a Difference Clouds filter. difference clouds options can be supplied only in conjunction with the filter command. It is not possible to get or create a difference clouds object.

See the command for additional details.

The following code sample demonstrates how to apply the difference clouds filter using the filter command of the difference clouds class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using difference clouds ¬
     with options {class:difference clouds}
end tell
```

diffuse glow

Options that may be supplied when applying a Diffuse Glow filter.

The diffuse glow class supplies properties for the <u>filter options</u> class. The diffuse glow class is used only to define a record whose properties specify options when applying a Diffuse Glow filter. diffuse glow options can be supplied only in conjunction with the filter command. It is not possible to get or create a diffuse glow object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
graininess	integer	(0 - 10)
glow amount	integer	(0 - 20)
clear amount	integer	(0 - 20)

The following code sample demonstrates how to apply the diffuse glow filter using the filter command of the diffuse glow class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using diffuse glow ¬
      with options {class:diffuse glow, graininess:5, glow amount:10, ¬
            clear amount:10}
end tell
```

displace filter

Options that may be supplied when applying a Displace filter.

The displace filter class supplies properties for the <u>filter options</u> class. The displace filter class is used only to define a record whose properties specify options when applying a Displace filter. displace filter options can be supplied only in conjunction with the filter command. It is not possible to get or create a displace filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
horizontal scale	integer	(-999 - 999)
vertical scale	integer	(-999 - 999)
kind	Valid values: stretch to fit tile	The displacement map type.
undefined areas	Valid values: repeat edge pixels wrap around	The method to use to treat undistorted areas.
displacement map definition	alias	The location of the desired displacement map.

The following code sample demonstrates how to apply the Displace filter using the filter command of the displace class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using displace filter ¬

with options {class:displace filter, horizontal scale:250, ¬

vertical scale:350, kind:tile, undefined areas:repeat edge pixels,¬

displacement map definition:"Data:docsamples:testfiles:displace.psd"}

end tell
```

document, documents

The active containment object for layers and all other objects in the script; the basic canvas for the file.

Note: In Adobe Photoshop CC, a document can also be referred to as an image or a canvas.

Elements

Element	Refer to by
art layer	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
channel	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
color sampler	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
count item	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
history state	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
layer comp	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
layer	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
layer set	name, numeric index, as a range of elements, before/after
	another element, satisfying a test
path item	name, numeric index, as a range of elements, before/after
	another element, satisfying a test

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	The object's properties returned in a single record.

	Valid values: eight one sixteen	Read-only. The background layer for the document. Note: Valid only for documents that have a background layer. The number of bits per channel.
bits per channel	eight one sixteen	background layer.
bits per channel	eight one sixteen	The number of bits per channel.
	thirty two	
color profile kind \	Valid values: none working	The type of color profile management for the document. Note: If you want to set a custom color profile, do not set a value for color profile kind, but set the appropriate color profile name. Caution: Assigning color profile kind to working when the color profile kind is already set to working results in a Photoshop error.
color profile name	Unicode text	The name of color profile for the document. Note: Valid no value is specified for color profile kind (to indicate a custom color profile).
component channels	list of channels	Read-only. A list of the component color channels.
current channels	list of channel	The selected channels.
current history h	history state	The current history state to use with the history brush.
current history h	history state	The selected history state.
current layer	layer	The selected layer.
file path	alias	Read-only. The full path name of the document.
height	real	Read-only. The document height (unit value).
		Note: This property can be set when using the make command for document.
histogram 1	list of 256 integers	Read-only. A histogram of values for the composite document. Note: Valid only when mode: RGB; mode: CMYK; or mode: indexed color. See mode.

Property	Value Type	What it is (Continued)
info	info-object	Read-only. The document metadata.
initial fill	Valid values:	Read-only. The initial fill.
	transparent use background color white	Note: Valid only when used as an option with the 'make new document' command. See make .
managed	boolean	Read-only. Indicates whether the document is a workgroup document.
measurement scale	measurement scale	Read-only. The measurement scale for the document.
mode	Valid values:	Read-only. The color profile for the document.
	bitmap CMYK duotone grayscale indexed color Lab multichannel RGB	Note: This property can be set when using the make command for document.
modified	boolean	Read-only. Indicates whether the document has been modified since the last save.
name	Unicode text	Read-only. The document's name.
		Note: This property can be set when using the make command for document.
pixel aspect ratio	real	The (custom) pixel aspect ratio to use (0.100 - 10.000).
quick mask mode	boolean	Indicates whether the document is in the quick mask mode.
resolution	real	Read-only. The document's resolution (in pixels per inch).
		Note: This property can be set when using the make command for document.
selection	selection-object	Read-only. The selected area of the document.
width	real	Read-only. The document width (unit value).
		Note: This property can be set when using the make command for document.
XMP metadata	XMP metadata	Read-only. Camera raw settings for the image.
		Note: Valid only for documents opened in Camera Raw format.

Valid Commands

auto count

change mode

close

convert

count

crop

deselect

doc duplicate

duplicate

exists

export

CAPOIC

flatten

flip canvas

import annotations

index

load

<u>make</u>

merge visible layers

<u>paste</u>

print

resize canvas

resize image

reveal all

rotate canvas

save

select

select all

split channels

trap

trim

dust and scratches

Options that may be supplied when applying a Dust & Scratches filter.

The dust and scratches class supplies properties for the <u>filter options</u> class. The dust and scratches class is used only to define a record whose properties specify options when applying a Dust & Scratches filter. dust and scratches options can be supplied only in conjunction with the filter command. It is not possible to get or create a dust and scratches object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	integer	(1 - 100) in pixels.
threshold	integer	(0 - 255)

The following code sample demonstrates how to apply the Dust & Scratches filter using the filter command of the dust and scratches class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using dust and scratches ¬

with options {class:dust and scratches, radius:15, threshold:212}

end tell
```

EPS open options

Settings related to opening a generic EPS document. The EPS open options class inherits properties from the <u>open options</u> class.

This class is used to define a record containing properties that specify options when opening a document in EPS format. EPS open options can be supplied only in conjunction with the open command. It is not possible to get or create a EPS open options object.

Properties

Property	Value Type	What it is
constrain proportions	boolean	Indicates whether to constrain the image proportions.
height	real	The image height (unit value).
mode	Valid values: CMYK grayscale Lab RGB	The color profile to use as the document mode.
resolution	real	The resolution of the document (in pixels per inch).
use antialias	boolean	Indicates whether to use antialias.
width	real	The image width (unit value).

The following code opens an EPS document.

```
tell application "Adobe Photoshop CC"
  set myFilePath to alias "Data:docsamples:testfiles:AI11.eps"
  open myFilePath as EPS with options ¬
      {class:EPS open options, height:pixels 100,¬
      width:pixels 200, mode:RGB, resolution:72, ¬
      use antialias:true, constrain proportions:true}
end tell
```

EPS save options

Options that can be specified when saving a document in EPS format. See the <u>save</u> command for additional details. The EPS save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as an EPS file. EPS save options can only be supplied in conjunction with the save command. It is not possible to get or create an EPS save options object.

Property	Value Type	What it is
embed color profile	boolean	Indicates whether to embed the color profile in the document.
encoding	Valid Values: ASCII binary high quality JPEG low quality JPEG maximum quality JPEG medium quality JPEG	The type of encoding to use (default: binary).
halftone screen	boolean	Indicates whether to include the halftone screen (default: false).
image interpolation	boolean	Indicates whether to use image interpolation (default: false).
PostScript color management	boolean	Indicates whether to use Postscript color management (default: false).
preview type	Valid Values: eight bit Mac OS eight bit TIFF JPEG Mac OS monochrome Mac OS monochrome TIFF none	The preview type (default: monochrome TIFF).
transfer function	boolean	Indicates whether to include the Transfer functions to compensate for dot gain between the image and film (default: false).
transparent whites	boolean	Indicates whether to display white areas as transparent. Note: Valid only when mode of document is bitmap.
vector data	boolean	Indicates whether to include vector data. Note: Valid only if the document includes vector data (text).

The following code creates the myOptions variable to hold the EPS save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:EPSSave.eps"
  set myOptions to {class:EPS save options, embed color profile:true}
  save current document in file myFile as Photoshop EPS with options \neg
      myOptions appending no extension without copying
end tell
```

equalize

The equalize class supplies options for the <u>adjustment options</u> class to convert a color image to redistribute the brightness values of the pixels in an image so that they more evenly represent the entire range of brightness levels.

The equalize class, which is analogous to the Equalize command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply an Equalize adjustment to a selected area. The equalize class can be used only in conjunction with the adjust command. It is not possible to get or create an equalize object.

See the adjust command for additional details.

The following code sample demonstrates how to apply a Equalize adjustment using the adjust command of the equalize class (inherited from the adjustment options super class).

Adobe Photoshop CC
AppleScript Scripting Reference
AppleScript Objects 60

export options

Options used with the export command. The following classes inherit properties from the export options class:

Illustrator paths export options, save for web export options

Valid Commands

export

filter options

Options used with the filter command.

The following classes inherit properties from the filter options class: add noise, average, blur, blur more, clouds, custom filter, deinterlace, despeckle, difference clouds, diffuse glow, displace filter, dust and scratches, gaussian blur, glass filter, high pass, lens blur, maximum filter, median noise, minimum filter, motion blur, NTSC colors, ocean ripple, offset filter, pinch, polar coordinates, radial blur, ripple, sharpen, sharpen edges, sharpen more, shear, smart blur, spherize, texture fill, twirl, unsharp mask, wave filter, zigzag.

Valid Commands

filter

font, fonts

An installed font. The font object is an element of the application class. You use the font object to retrieve information about the fonts installed on your computer. See application on page 12 for more information.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only.The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this objects properties returned in a single record.
family	Unicode text	Read-only. The font family.
name	Unicode text	Read-only. The text face name.
PostScript name	Unicode text	Read-only. The font's PostScript name.
style	Unicode text	Read-only. The font's style name.

The following code uses the standard AppleScript commands get and prompt to display a dialog that lists the fonts installed on the computer running the script.

```
tell application "Adobe Photoshop CC"
   set fontsInstalled to name of fonts
   log fontsInstalled
end tell
```

Valid commands:

count
exists
index

gallery banner options

Options that can be specified for a Web photo gallery banner.

This class a property of the <u>gallery options</u> object and is used to define a record that specifies options when creating a Web photo gallery. Gallery banner options can only be supplied in conjunction with the create photo gallery command. It is not possible to get or create a Gallery banner options object.

See the <u>create photo gallery</u> command for additional details.

Property	Value Type	What it is
contact info	Unicode text	Web photo gallery contact info.
date	Unicode text	Web photo gallery date (default: current date).
font	Valid values: Arial Courier New Helvetica Times New Roman	The font setting for the banner text (default: Arial).
font size	integer	The font size for the banner text (1 - 7; default: 3).
photographer	Unicode text	Web photo gallery photographer.
site name	Unicode text	Web photo gallery site name (default: Adobe Web Photo Gallery).

gallery color options

Color options that can be specified for a Web photo gallery.

This class a property of the <u>gallery options</u> object and is used to define a record that specifies options when creating a Web photo gallery. Gallery color options can only be supplied in conjunction with the create photo gallery command. It is not possible to get or create a Gallery color options object.

See the <u>create photo gallery</u> command for additional details.

Property	Value Type	What it is
active link color	RGB color	The color used to indicate an active link.
background color	RGB color	The background color.
banner color	RGB color	The banner color.
link color	RGB color	The color used to indicate a link.
text color	RGB color	The text color.
visited link color	RGB color	The color used to indicate a visited link.

gallery images options

Options for the larger images (not thumbnails) in a Web photo gallery.

This class a property of the <u>gallery options</u> object and is used to define a record that specifies options when creating a Web photo gallery. Gallery images options can only be supplied in conjunction with the create photo gallery command. It is not possible to get or create a Gallery images options object.

See the <u>create photo gallery</u> command for additional details.

Note: See gallery thumbnail options for information on specifying thumbnail image options.

Property	Value Type	What it is
border	integer	The width (in pixels) of the border between images (0 - 99; default: 0).
caption	boolean	Indication of whether to generate image captions (default: false).
dimension	integer	The dimensions (in pixels) of a resized image (default: 350).
font	Valid values: Arial Courier New Helvetica Times New Roman	The font to use for captions (default: Arial).
font size	integer	The font size to use for captions (1 - 7; default: 3).
image quality	integer	The quality setting for JPEG images (0 - 12; default: 5).
include copyright	boolean	Indication of whether to include copyright information in captions (default: false).
include credits	boolean	Indication of whether to include credits information in captions (default: false).
include file name	boolean	Indication of whether to include the file name in captions (default: false).
include title	boolean	Indication of whether to include the title in captions (default: false).
numeric links	boolean	Indication of whether to add numeric links (default: true).

Property	Value Type	What it is (Continued)
resize constraint	Valid values: constrain both constrain height constrain width	Indication of whether and how the image should be constrained (default: constrain both).
resize images	boolean	Indication of whether to automatically resize images for placement on the gallery pages (default: true).

gallery options

Options for the create photo gallery command.

Properties

Property	Value Type	What it is
banner options	gallery banner options	Options related to banner settings.
custom color options	gallery color options	Options related to custom color settings.
email address	Unicode text	The email address to show on the web page.
images options	gallery images options	Options related to images settings.
layout style	Unicode text	The style to use for laying out the web page (default: Centered Frame 1 - Basic).
preserve all metadata	boolean	Indication of whether to save the metadata in JPEG files (default: false).
security options	gallery security options	Options related to security settings.
short extension	boolean	Indication of whether to use the short (.htm), as opposed to the long (.html) web page file name extension (default: true).
size attributes	boolean	Indication of whether to add width and height attributes for images (default: true).
sub folders	boolean	Indication of whether to include files found in the in sub folders of the input folder (default: true).
thumbnail options	gallery thumbnail options	Options related to thumbnail settings.
UTF8 encoding	boolean	Indication of whether the web page should use UTF-8 encoding (default: false).

Valid Commands

create photo gallery

gallery security options

Options for security text in a Web photo gallery.

This class a property of the <u>gallery options</u> object and is used to define a record that specifies options when creating a Web photo gallery. Gallery security options can only be supplied in conjunction with the create photo gallery command. It is not possible to get or create an Gallery security options object.

See the create photo gallery command for additional details.

Property	Value Type	What it is
content	Valid values: gallery caption gallery copyright gallery credit gallery custom text gallery filename gallery none gallery title	The content to use for Web photo gallery security text (default: gallery none).
custom text	Unicode text	Custom text to use for Web photo gallery security text. Note: Valid only when content: custom text. See content.
font	Arial Courier New Helvetica Times New Roman	The font to use for Web photo gallery security text (default: Arial).
font size	integer	The font size to use for Web photo gallery security text (minimum 1; default: 36).
opacity	integer	The opacity (as percent) to use for web page security text (default: 100).
text color	RGB color	The web page security text color.
text position	Valid values: gallery centered gallery lower left gallery lower right gallery upper left gallery upper right	The position of web page security text (default: gallery centered).
text rotate	Valid values: clock wise 45 clock wise 90 counter clock wise 45 counter clock wise 90 zero	The orientation to use for web page security text (default: zero).

gallery thumbnail options

Options for the thumbnail images in a Web photo gallery.

This class a property of the <u>gallery options</u> object and is used to define a record that specifies options when creating a Web photo gallery. Gallery thumbnail options can only be supplied in conjunction with the create photo gallery command. It is not possible to get or create an Gallery thumbnail options object.

See the <u>create photo gallery</u> command for additional details.

Property	Value Type	What it is
border	integer	The width (in pixels) of the border around thumbnail images (0 - 99; default: 0).
caption	boolean	Indication of whether to display captions (default: false).
column count	integer	The number of columns on the page (default: 5).
dimension	integer	Thumbnail dimensions in pixels (default: 75).
font	Valid values: Arial Courier New Helvetica Times New Roman	The font to use (default: Arial).
font size	integer	The font size for thumbnail images text (1 - 7; default: 3).
include copyright	boolean	Indication of whether to include copyright information for thumbnails (default: false).
include credits	boolean	Indication of whether to include credits for thumbnails (default: false).
include file name	boolean	Indication of whether to include file names for thumbnails (default: false).
include title	boolean	Indication of whether to include titles for thumbnails (default: false).
row count integer	integer	The number of rows on the page (default: 3).
size	Valid values: gallery custom gallery large gallery medium gallery small	The thumbnail image size (default: gallery medium).

gaussian blur

Options that may be supplied when applying a Gaussian Blur filter.

The gaussian blur class supplies properties for the <u>filter options</u> class. The gaussian blur class is used only to define a record whose properties specify options when applying a Gaussian Blur filter. gaussian blur options can be supplied only in conjunction with the filter command. It is not possible to get or create a gaussian blur object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	real	The radius in pixels in which to apply the filter.

The following code sample demonstrates how to apply the Gaussian Blur filter using the filter command of the gaussian blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using gaussian blur ¬
    with options {class:gaussian blur, radius:200}
end tell
```

GIF save options

Options that can be specified when saving a document in GIF format. See the <u>save</u> command for additional details. The GIF save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a GIF file. GIF save options can only be supplied in conjunction with the save command. It is not possible to get or create a GIF save options object.

Property	Value Type	What it is
colors in palette	integer	The number of colors in the Color palette.
		Note: Valid only when palette: local adaptive; palette: local perceptual; palette: local selective; palette: Mac OS system; palette: uniform; palette: web; Or palette: Windows system. See palette.
dither	Valid values: diffusion noise none pattern	The dither type to use.
dither amount	integer	The amount of dither to use (1 - 100). (default: 75) Note: Valid only when dither: diffusion. See dither.
forced colors	Valid values: black and white none primaries web	Forces the inclusion of specified colors.
interlaced	boolean	Indicates whether to interlace rows (default: false).
matte	Valid values: background color matte black matte foreground color matte Netscape gray none semi gray white matte	The color to use to fill antialiased edges adjacent to transparent areas of the image. Note: When transparency: false, the matte color is applied to transparent areas. See transparency.

Property	Value Type	What it is (Continued)
palette	Valid values: exact local adaptive local perceptual local selective Mac OS system master adaptive master perceptual master selective previous uniform web Windows system	The type of palette to use (default: local selective).
preserve exact colors	boolean	Indicates whether to protect colors in the image that contain entries in the color table from being dithered. Note: Valid only when dither: diffusion. See dither.
transparency	boolean	Indicates whether to preserve transparent areas of the image during conversion to GIF format.

The following code creates the myOptions variable to hold the GIF save options, then uses the save command to save the document with the specified options.

glass filter

Options that may be supplied when applying a Glass filter.

The glass filter class supplies properties for the <u>filter options</u> class. The glass filter class is used only to define a record whose properties specify options when applying a Glass filter. glass filter options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a glass filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
distortion	integer	(0 - 20)
smoothness	integer	(1 - 15)
scaling	integer	(50 - 200) as percent.
invert texture	boolean	(default: false)
texture kind	Valid values: blocks canvas frosted texture document tiny lens	Note: You cannot specify texture kind and texture defintion at the same time.
texture definition	alias	The file that contains the texture image.

The following code sample demonstrates how to apply the Glass filter using the filter command of the glass class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using glass filter ¬

with options {class:glass filter, distortion:20, ¬

smoothness:100, scaling:155, ¬

texture definition:"Data:docsamples:testfiles:texturefill.psd"}
end tell
```

gray color

Options that can be specified for a Gray color: the numeric values of component colors. The Gray color class inherits properties from the <u>color value</u> class.

This class a property of the <u>color value</u> object and is used to define a record that specifies options when creating color value.

Property	Value Type	What it is
gray value	real	The gray value (0.0 - 100.0; default: 0.0).

high pass

Options that may be supplied when applying a High Pass filter.

The high pass class supplies properties for the <u>filter options</u> class. The high pass class is used only to define a record whose properties specify options when applying a High Pass filter. high pass options can be supplied only in conjunction with the filter command. It is not possible to get or create a high pass object.

See the <u>filter</u> command for additional details.

Properties

Property	Value Type	What it is
radius	real	(0.1 - 250.0) in pixels.

The following code sample demonstrates how to apply the High Pass filter using the filter command of the high pass class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using high pass ¬
      with options {class:high pass, radius:25.5}
end tell
```

history state, history states

A history state for the document.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this objects properties returned in a single record.
container	reference	Read-only. The object's container.
name	Unicode text	Read-only. The history state's name.
snapshot	boolean	Read-only. Indicates whether to the history state is a snapshot.

Valid Commands

count
exists
index

HSB color

Options that can be specified for an HSB color: the numeric values of component colors. The HSB color class inherits properties from the <u>color value</u> class.

This class a property of the <u>color value</u> object and is used to define a record that specifies options when creating color value.

Property	Value Type	What it is
hue	real	The hue value (0.0 - 360.0; default: 0 . 0).
saturation	real	The saturation value (0.0 - 100.0; default: 0.0).
brightness	real	The brightness value (0.0 - 100.0; default: 0.0).

Illustrator paths export options

Options that can be specified when exporting a path item to an Adobe Illustrator file. See path items on page 109.

The Illustrator paths export options class supplies properties for the <u>export options</u> class. Illustrator paths export options options can be supplied only in conjunction with the export command. It is not possible to get or create a Illustrator paths export options object.

See the <u>export</u> command for further details.

Property	Value Type	What it is
path name	Unicode text	The name of path to export.
		Note: Valid only when target path: named path.
target path	Valid values: all paths document bounds named path	The sort of path(s) to export (default: document bounds).

indexed mode options

Options that can be specified when changing the document mode to Indexed using the change mode command. The indexed mode class inherits properties from the change mode options class.

This class is used to define a record containing properties used to specify options when changing a document's mode. Indexed mode options can only be supplied in conjunction with the change mode command. It is not possible to get or create a Indexed mode options object. See the <a href="https://change.nicet.com

Property	Value Type	What it is
colors in palette	integer	The number of colors in the Color palette.
		Note: Valid only when palette: local adaptive; palette: local perceptual; palette: local selective; palette: Mac OS system; palette: uniform; palette: web; Or palette: Windows system. See palette.
dither	Valid values: diffusion noise none pattern	The dither type to use.
dither amount	integer	The amount of dither to use (1 - 100). Note: Valid only when dither: diffusion.
forced colors	Valid values: black and white none primaries web	The type of colors to force into the color palette.
matte background color	Valid values: background color matte black matte foreground color matte Netscape gray none semi gray white matte	The color to use to fill antialiased edges adjacent to transparent areas of the image (default: matte white). Note: When transparency: false, the matte color is applied to transparent areas. See transparency.

Property	Value Type	What it is (Continued)
palette	Valid values:	The type of palette to use (default: exact).
	exact local adaptive local perceptual local selective Mac OS system master adaptive master perceptual master selective previous uniform web Windows system	
preserve exact colors	boolean	Indicates whether to protect colors in the image that contain entries in the color table from being dithered. Note: Valid only when dither: diffusion. See dither.
transparency	boolean	Indicates whether to preserve transparent areas of the image during conversion to GIF format.

info-object

Document metadata. This class is a property of the document object and is used to define a record containing properties that specify application preferences. See <u>document</u>, <u>documents</u> on page 51.

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class type	class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
properties	record	All of this objects properties returned in a single record.
author	Unicode text	
author position	Unicode text	
caption	Unicode text	
caption writer	Unicode text	
category	Unicode text	
city	Unicode text	
container	reference	Read-only. The object's container.
copyright notice	Unicode text	
copyrighted	Valid values: copyrighted work public domain unmarked	The document's copyrighted status.
country	Unicode text	
creation date	Unicode text	
credit	Unicode text	
EXIF	<pre>list of lists: list (list {tag, tag data}},</pre>	Read-only. Camera data that includes camera settings used when the image was taken. Sample list values are: tag = "camera"; tag value = "Cannon".
headline	Unicode text	
instructions	Unicode text	
job name	Unicode text	
keywords	list of Unicode text	A list of keywords that can identify the document or its contents.
owner url	Unicode text	

Property	Value Type	What it is (Continued)
province or state	Unicode text	
source	Unicode text	
supplemental categories	list of Unicode text	
title	Unicode text	
transmission reference	Unicode text	
urgency	Four high low none normal seven six three two	

inversion

The inversion class supplies options for the <u>adjustment options</u> class to invert the colors in an image.

The inversion class, which is analogous to the Invert command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply an Invert adjustment to an image. The inversion class can be used only in conjunction with the adjust command. It is not possible to get or create an inversion object.

See the <u>adjust</u> command for additional details.

The following code sample demonstrates how to apply a Inversion adjustment using the adjust command of the inversion class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC" adjust current layer of the current document using inversion end tell
```

JPEG save options

Options that can be specified when saving a document in JPEG format. See the <u>save</u> command for additional details. The <u>JPEG</u> save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a JPEG file. JPEG save options can only be supplied in conjunction with the save command. It is not possible to get or create a JPEG save options object.

Properties

Property	Value Type	What it is
embed color profile	boolean	Indicates whether to embed the color profile in the document.
format options	Valid values: optimized progressive standard	The download format to use (default: standard).
matte	Valid values: background color matte black matte foreground color matte Netscape gray none semi gray white matte	The color to use to fill antialiased edges adjacent to transparent areas of the image (default: white matte). Note: When transparency: false, the matte color is applied to transparent areas. See transparency on page 81.
quality	integer	The quality of the produced image (0 - 12; default: 3).
scans	integer	The number of increasingly detailed scans to use to display the image on the screen (3 - 5). Note: Valid only when format options: progressive. See format options.

The following code creates the myOptions variable to hold the JPEG save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:JpegSave.jpg"

set myOptions to ¬
      {class:JPEG save options, embed color profile:true, ¬
      format options:progressive, quality:12, scans:3}
  save current document in file myFile as JPEG with options ¬
      myOptions appending no extension without copying
end tell
```

Lab color

Options that can be specified for an Lab color: numeric values for the component colors. The Lab color class inherits properties from the <u>color value</u> class.

This class a property of the <u>color value</u> object and is used to define a record that specifies options when creating color value.

See the <u>convert</u> <u>color</u> command for additional details.

Property	Value Type	What it is
value_L	real	The L value (0.0 - 100.0).
value_a	real	The a value (-128.0 - 127.0).
value_b	real	The b value (-128.0 - 127.0).

layer, layers

A layer object. The following classes inherit properties from the layer class: art layer, art layers, layer set, layer sets.

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
all locked	boolean	Indicates whether all of the layer's contents are locked or editable.
blend mode	valid values: color blend color burn color dodge darken difference dissolve exclusion hard light hard mix hue blend lighten linear burn linear dodge linear light luminosity multiply normal overlay pass through pin light saturation blend screen soft light vivid light	The mode to use when compositing an object.
bounds	list	Read-only. A list of coordinates that describe the corners of the bounding rectangle of the layer.
container	reference	Read-only. The object's container.
linked layers	list of layers	Read-only. The layers linked to this layer.
name	Unicode text	The layer's name.

Property	Value Type	What it is (Continued)
opacity	real	The layer's master opacity (as percent) (0.0 - 100.0).
visible	boolean	Indicates whether the layer is visible.

Valid Commands

<u>count</u> <u>delete</u> duplicate exists index link make move rotate scale <u>translate</u> unlink

layer comp, layer comps

A "snapshot" of a temporary composition of the layers in a document.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
appearance	boolean	Indicates whether to use layer appearance (layer styles) settings.
comment	anything	A description of the layer comp.
container	reference	Read-only. The object's container.
name	Unicode text	The layer's name.
position	boolean	Indicates whether to use layer position.
selected	boolean	Read-only. Indicates whether the layer comp is selected.
visibility	boolean	Indicates whether to use layer visibility settings.

Valid Commands

<u>apply</u>

count

<u>delete</u>

<u>exists</u>

index

<u>make</u>

recapture

reset from comp

layer set, layer sets

A layer set.

Elements

Element	Refer to by
art layer	name, numeric index, as a range of elements, before/after another element, satisfying a test.
layer	name, numeric index, as a range of elements, before/after another element, satisfying a test.
layer set	name, numeric index, as a range of elements, before/after another element, satisfying a test.

Property	Value Type	What it is
best type	type class	Read-only. (Inherited from the layer class) The best type for the object's value.
class	type class	Read-only. (Inherited from the layer class) The object's class.
default type	type class	Read-only. (Inherited from the layer class) The default type for the object's value.
index	integer	Read-only. (Inherited from the layer class) The index of this instance of the object.
properties	record	(Inherited from the layer class) All of this object's properties returned in a single record.
all locked	boolean	(Inherited from the layer class) Indicates whether the contents in the layers contained in the layer set are editable.

Valid Commands

count

delete

duplicate

exists

index

link

make

merge

move

rotate

<u>scale</u> translate unlink

lens blur

Options that can be specified when applying a Lens Blur filter.

The lens blur class supplies properties for the <u>filter options</u> class. The lens blur class is used only to define a record whose properties specify options when applying a Lens Blur filter. lens blur options can be supplied only in conjunction with the filter command. It is not possible to get or create a lens blur object.

See the <u>filter</u> command for additional details.

Property	Value type	What it is
amount	integer	The amount of noise (default: 0).
blade curvature	integer	The blade curvature of the iris (default: 0).
brightness	integer	The brightness for the specular highlights (default: 0).
distribution	Valid values: Gaussian uniform	The distribution value for the noise (default: uniform).
focal distance	integer	The blur focal distance for the depth map (default: 0).
invert depth map	boolean	Indicates whether the depth map is inverted (default: false).
iris shape	Valid values: heptagon hexagon octagon pentagon square triangle	The shape of the iris (default: hexagon).
monochromatic	boolean	Indicates whether the noise is monochromatic (default: false).
radius	integer	The radius of the iris (default: 15).
rotation	integer	The rotation of the iris (default: 0).
source	Valid values: image highlight layer mask none transparency channel	The source for the depth map (default: none).
threshold	integer	The threshold for the specular highlights (default: 0).

The following code sample demonstrates how to apply the Lens Blur filter using the filter command of the Lens blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using lens blur ¬
     with options {class:lens blur, radius:13}
end tell
```

lens flare

Options that may be supplied when applying a Lens Flare filter.

The lens flare class supplies properties for the <u>filter options</u> class. The lens flare class is used only to define a record whose properties specify options when applying a Lens Flare filter. lens flare options can be supplied only in conjunction with the filter command. It is not possible to get or create a lens flare object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
brightness	integer	(10 - 300) as percent.
flare center	list	The x and y coordinates of the center of the flare (unit value).
lens type	Valid values: Movie Prime Prime 105 Prime 35 zoom	

The following code sample demonstrates how to apply the Lens Flare filter using the filter command of the lens flare class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using lens flare ¬
      with options {class:lens flare, brightness:209, ¬
           flare center:{2 as inches, 4 as inches}, lens type:Prime 35}
end tell
```

levels adjustment

The levels adjustment class supplies options for the <u>adjustment options</u> class to correct the tonal range and color balance of an image.

The levels adjustment class, which is analogous to the Levels command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when applying a Levels adjustment to an image. The levels adjustment class can be used only in conjunction with the adjust command. It is not possible to get or create a levels adjustment object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
input range start	integer	(0 - 253)
input range end	integer	((inputRangeStart + 2) - 255)
input range gamma	real	(0.10 - 9.99)
output range start	integer	(0 - 253)
output range end	integer	((outputRangeStart + 2) - 255)

The following code sample demonstrates how to apply a Levels Adjustment using the adjust command of the levels adjustment class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"

adjust current layer of the current document using levels adjustment ¬

with options {class:levels adjustment, input range start:4, ¬

input range end:245, input range gamma:4.8, ¬

output range start:5, output range end:7}

end tell
```

maximum filter

Options that may be supplied when applying a Maximum filter.

The maximum filter class supplies properties for the <u>filter options</u> class. The maximum filter class is used only to define a record whose properties specify options when applying a Maximum filter. maximum filter options can be supplied only in conjunction with the filter command. It is not possible to get or create a maximum filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	real	(1 - 100) in pixels.

The following code sample demonstrates how to apply the Maximum filter using the filter command of the maximum filter class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using maximum filter ¬
    with options {class:maximum filter, radius:29}
end tell
```

measurement scale

The measurement scale of a document. This class is a property of the document object, see measurement scale.

Note: This feature is available in the Extended Version only.

Properties

Property	Value Type	What it is
pixel length	number (Long)	Read-write. The length in pixels this scale equates to.
logical length	number (Double)	Read-write. The logical length this scale equates to.
logical unit	Unicode text	Read-write. The logical units for this scale.

The following code sample shows how to set the properties of the measurement scale object.

```
tell application "Adobe Photoshop CC"
  tell current document
    set pixel length of measurement scale to 1
    set logical length of measurement scale to 100
    set logical units of measurement scale to "My Units"
  end tell
end tell
```

median noise

Options that may be supplied when applying a Median Noise filter.

The median noise class supplies properties for the <u>filter options</u> class. The median noise class is used only to define a record whose properties specify options when applying a Median Noise filter. median noise options can be supplied only in conjunction with the filter command. It is not possible to get or create a median noise object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	real	(1 - 100) in pixels.

The following code sample demonstrates how to apply the Median Noise filter using the filter command of the median noise class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using median noise ¬
     with options {class:median noise, radius:22}
end tell
```

minimum filter

Options that may be supplied when applying a Minimum filter.

The minimum filter class supplies properties for the <u>filter options</u> class. The minimum filter class is used only to define a record whose properties specify options when applying a Minimum filter minimum filter options can be supplied only in conjunction with the filter command. It is not possible to get or create a minimum filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	real	(1 - 100) in pixels.

The following code sample demonstrates how to apply the Minimum filter using the filter command of the minimum filter class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using minimum filter ¬
    with options {class:minimum filter, radius:29}
end tell
```

mix channels

The mix channels class supplies options for the <u>adjustment options</u> class to modify a targeted (output) color channel using a mix of the existing color channels in the image.

The mix channels class, which is analogous to the Channel Mixer command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when applying a Channel Mixer adjustment to an image. The mix channels class can be used only in conjunction with the adjust command. It is not possible to get or create a mix channels object.

See the adjust command for additional details.

Note: Valid only for RGB or CMYK documents.

Properties

Property	Value Type	What it is
output channels	list of anything	A list of channel specifications. For each component channel, you must specify a list of adjustment values (-200 - 200) followed by a 'constant' value (-200 - 200). Note: When monochrome mixing: true, the
		maximum number of channel value specifications is 1.
		Note: Valid only when the document mode is RGB or CMYK. See mode in the Properties table of the document, documents class.
monochrome mixing	boolean	Indicates whether to use monochrome mixing (default: false).

The following code sample demonstrates how to apply a Mix Channels adjustment using the adjust command of the mix channels class (inherited from the adjustment options super class). This code assumes an RGB document mode and uses the default value for the monochrome mixing property by not specifying a value.

motion blur

Options that may be supplied when applying a Motion Blur filter.

The motion blur class supplies properties for the <u>filter options</u> class. The motion blur class is used only to define a record whose properties specify options when applying a Motion Blur filter. motion blur options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a motion blur object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
angle	integer	(angle: -360 - 360)
radius	real	(radius: 1 - 999) in pixels.

The following code sample demonstrates how to apply the Motion Blur filter using the filter command of the motion blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using motion blur ¬ with options {class:motion blur, angle:-224, radius:29} end tell
```

no color

An object that represents a missing color. The no color class inherits properties from the $\underline{\text{color}}$ value class.

notifier, notifiers

An event-handler object that tells the script to execute specified code when a specified event occurs.

Note: You can remove a notifier object from the Script Events Manager drop-down list by deleting the file named Script Events Manager.xml from in the Photoshop preferences folder. See Adobe Photoshop CC help for more information.

Properties

Property	Value type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
event	string	Read-only. The event ID in four characters or a unique string that the notifier is associated with.
event class	string	Read-only. The class ID of the event: the class of the object the event is applied to. Four characters or a unique string. Note: When an event applies to multiple types of objects, you use this property to distinguish which object this notifier applies to. For example, the Make event ("Mk") applies to documents ("Dcmn"), channels ("Chnl") and other objects.
event file	file	Read-only. The path to the file to execute when the event occurs/activates the notifier.

Valid commands:

count
delete
exists
index
make

NTSC colors

Options that may be supplied when applying the NTSC colors filter.

The NTSC colors class supplies properties for the <u>filter options</u> class. The NTSC colors class is used only to define a record whose properties specify options when using the filter command to apply an NTSC colors filter. NTSC colors options can be supplied only in conjunction with the filter command. It is not possible to get or create a NTSC colors object.

See the filter command for additional details.

The following code sample demonstrates how to apply the NTSC colors filter using the filter command of the motion blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using NTSC colors end tell
```

ocean ripple

Options that may be supplied when applying an Ocean Ripple filter.

The ocean ripple class supplies properties for the <u>filter options</u> class. The ocean ripple class is used only to define a record whose properties specify options when applying an Ocean Ripple filter. ocean ripple options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create an ocean ripple object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
ripple size	integer	(1 - 15)
ripple magnitude	integer	(0 - 20)

The following code sample demonstrates how to apply the Ocean Ripple filter using the filter command of the ocean ripple class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using ocean ripple ¬

with options {class:ocean ripple, ripple size:4, ripple magnitude:2}
end tell
```

offset filter

Options that may be supplied when applying an Offset filter.

The offset filter class supplies properties for the <u>filter options</u> class. The offset filter class is used only to define a record whose properties specify options when applying an Offset filter. offset filter options can be supplied only in conjunction with the filter command. It is not possible to get or create an offset filter object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
horizontal offset	real	(unit value) (min/max amounts depend on layer size).
vertical offset	real	(unit value) (min/max amounts depend on layer size).
undefined areas	Valid values: repeat edge pixels set to layer fill wrap around	The method to use to fill areas left undefined when the image is moved.

The following code sample demonstrates how to apply the Offset filter using the filter command of the offset filter class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using offset filter ¬

with options {class:offset filter, horizontal offset:3 as centimeters,¬

vertical offset:2 as centimeters, undefined areas:wrap around}

end tell
```

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open options

Options used with the open command.

The following classes inherit properties from the open options class: <a href="Market Parabolic Component Parabolic Component

Valid Commands

open

path item, path items

An artwork path.

Elements

Element	Refer to by	
sub path item	numeric index, as a range of elements, before/after another element, satisfying a test	

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
container	reference	Read-only. The object's container.
entire path	list of <u>sub path</u> <u>info</u> objects	Read-only. The item's sub paths.
kind	Valid values: clipping normal text mask vector mask work	The type of path.
name	Unicode text	The path item's name.

The following code creates a path in three segments that end up looking like an ice cream cone: two connected diagonal lines that form a V (or the "cone"), and a curved line that arcs above the V to create aa 2-d ice cream cone.

```
set subPathInfo1 to {class:sub path info, ¬
        entire sub path:{pathPointInfo1, pathPointInfo2}, ¬
        operation:shape xor, closed:false}
  set pathPointInfo3 to {class:path point info, kind:corner point, ¬
      anchor:\{150, 200\}, left direction:\{150, 200\}, right direction:\{150, 200\}
  set pathPointInfo4 to {class:path point info, kind:corner point, ¬
      anchor:{200, 100}, left direction:{200, 100}, right direction:{200, 100}}
  set subPathInfo2 to {class:sub path info, ¬
      entire sub path:{pathPointInfo3, pathPointInfo4}, ¬
      operation:shape xor, closed:false}
  set pathPointInfo5 to {class:path point info, kind:corner point, ¬
      anchor:{200, 100}, left direction:{200, 100}, right direction:{200, 100}}
  set pathPointInfo6 to {class:path point info, kind:corner point, ¬
      anchor: {150, 50}, left direction: {100, 50}, right direction: {200, 50}}
  set pathPointInfo7 to {class:path point info, kind:corner point, ¬
      anchor:{100, 100}, left direction:{100, 100}, right direction:{100, 100}}
  set subPathInfo3 to {class:sub path info, ¬
      entire sub path:{pathPointInfo5, pathPointInfo6, pathPointInfo7},¬
      operation:shape xor, closed:false}
  set newPathItem to make new path item in docRef with properties ¬
      {entire path:{subPathInfo1, subPathInfo2, subPathInfo3}, ¬
      name:"Snow Cone", kind:normal}
end tell
```

Valid Commands

count
create selection
delete
deselect
duplicate
exists
fill path
index
make
make clipping path
select
stroke path

path point, path points

Information about a path point info object.

Tip: You do not use the path point object to create a path point. Rather, you use the path point object to retrieve information about a path point. To create points that describe path segments, see path point info.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
anchor	list	Read-only. The position (coordinates) of the anchor point.
container	reference	Read-only. The object's container.
entire path	list of <u>sub path</u> <u>info</u> objects	Read-only. The item's sub paths.
kind	Valid values: corner point smooth point	Read-only. The type of point.
left direction	list	Read-only. The location of the left-direction ('in' position) point.
right direction	list	Read-only. The location of the right-direction ('out' position) point.

Valid Commands

count
exists
index

path point info

A point on a path, expressed in three sets of coordinates:

- anchor point
- left direction point
- right direction point

For paths that are straight segments (not curved), the coordinates of all three points are the same.

For curved segments, the coordinates are different; the difference between the anchor point and the left or right direction points determines the arc of the curve. You use the left direction point to bend the curve "outward" or make it convex; you use the right direction point to bend the curve "inward" or make it concave.

Properties

Property	Value Type	What it is
anchor	list of coordinates	The position (in x and y coordinates) of the anchor point.
kind	Valid values: corner point smooth point	The type of point.
left direction	list of coordinates	The location (in x and y coordinates) of the left-direction ('in' position) point.
right direction	list of coordinates	The location (in x and y coordinates) of the right-direction ('out' position) point.

Valid Commands

exists

PDF open options

Settings related to opening a generic PDF document. The PDF open options class inherits properties from the <u>open options</u> class.

This class is used to define a record containing properties that specify options when opening a document as a PDF file. PDF open options can be supplied only in conjunction with the open command. It is not possible to get or create a PDF open options object.

Properties

Property	Value Type	What it is
bits per channel	Valid values: eight one sixteen thirtytwo	The number of bits per channel.
constrain proportions	boolean	Deprecated for Adobe Photoshop CC.
crop page	Valid values: art box bleed box bounding box crop box media box trim box	The method of cropping to use.
height	real	Deprecated for Adobe Photoshop CC.
mode	Valid values: CMYK grayscale Lab RGB	The color model to use.
name	Unicode text	The name of the document.
page	integer	The page to which to open the document.
resolution	real	The resolution of the document (in pixels per inch).
suppress warnings	boolean	Indicates whether to suppress warnings when opening the document.
use antialias	boolean	Indicates whether to use antialias.
use page number	boolean	Indicates whether the value specified in the page property refers to a page number or an image number. If usePageNumber = false, the page property refers to an image number. See page.
width	real	Deprecated for Adobe Photoshop CC.

The following code opens a PDF document.

```
tell application "Adobe Photoshop CC"
  set display dialogs to never
  set myFilePath to alias "Data:docsamples:testfiles:PdfTest.pdf"
  open myFilePath as PDF with options ¬
      {class:PDF open options, height:pixels 100, width:pixels 200, mode:RGB,¬
      resolution:72, use antialias:true, page:1, constrain proportions:false}
end tell
```

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PDF save options

Options that can be specified when saving a document in PDF format. See the <u>save</u> command for additional details. The PDF save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a PDF file. PDF save options can only be supplied in conjunction with the save command. It is not possible to get or create a PDF save options object.

Properties

Property	Value Type	What it is
color conversion	boolean	Indicates whether to convert the color profile to a destination profile.
descripton	Unicode text	Description of the save options to use.
destination profile	Unicode text	Description of the final RGB or CMYK output device, such as a monitor or a press standard.
downgrade color profile	boolean	Deprecated for Adobe Photoshop CC.
down sample	Valid values: none PDF average PDF bicubic PDF subsample	The down sample method to use.
down sample limit	real	Limits downsampling or subsampling to images that exceed this value in pixels per inch.
down sample size	real	The size to downsample images if they exceed the limit in pixels per inch.
eight convert	boolean	Indicates whether to convert a 16-bit image to 8-bit for better compatibility with other applications.
embed color profile	boolean	Indicates whether to embed the color profile in the document.
embed fonts	boolean	Deprecated for Adobe Photoshop CC.
embed thumbnail	boolean	Indicates whether to include a small preview image in Adobe PDF files.

Property	Value Type	What it is (Continued)
encoding	Valid values: JPEG JPEG 2000 high JPEG 2000 lossless JPEG 2000 low JPEG 2000 med JPEG 2000 med high JPEG 2000 med low JPEG high JPEG low JPEG med JPEG med JPEG med low none ZIP ZIP 4	The encoding or compression method to use (default: ZIP).
image interpolation	boolean	Deprecated for Adobe Photoshop CC.
JPEG quality	integer	The quality of the produced image (0 - 12; default: 10). Note: Valid only when encoding: JPEG. See encoding.
output condition	Unicode text	An optional comment field for inserting descriptions of the output condition. The text is stored in the PDF/X file.
output condition ID	Unicode text	Indentifier for the output condition.
PDF compatibility	Valid values: PDF 13 PDF 14 PDF 15 PDF 16	The PDF version to make the document compatible with.
PDF standard	Valid values: none PDFX1a2001 standard PDFX1a2003 standard PDFX32002 standard PDFX32003 standard	The PDF standard to make the document compatible with.
preserve editing	boolean	Indicates whether to reopen the PDF in Adobe Photoshop CC with native Photoshop data intact.
presetfile	Unicode text	The preset file to use for settings. Note: This option overrides other settings.
profile inclusion policy	boolean	Indicates whether to show which profiles to include.
registry name	Unicode text	URL where the output condition is registered.

Property	Value Type	What it is (Continued)
save alpha channels	boolean	Indicates whether to save the alpha channels.
save annotations	boolean	Indicates whether to save the annotations.
save layers	boolean	Inidcates whether to save the documents layers.
save spot colors	boolean	Indicates whether to save the spot colors.
transparency	boolean	Indicates whether to use transparency (default: true).
tile size	integer	Compression option. Note: Valid only when encoding: JPEG 2000.
transparency	boolean	Deprecated for Adobe Photoshop CC.
use outlines for text	boolean	Deprecated for Adobe Photoshop CC.
vector data	boolean	Deprecated for Adobe Photoshop CC.
view	boolean	Indicates whether to open the saved PDF in Adobe Acrobat.
web optimize	boolean	Indicates whether to improve performance of PDF files on Web servers.

The following code creates the myOptions variable to hold the PDF save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  set theDocRef to make new document
  set myFile to "Data:docsamples:testfiles:PDFSave.pdf"
  --create a variable that contains a color object of the RGB color class
  --whose color is red
  set theTextColor to {class:RGB color, red:255, green:0, blue:0}
  -- create a text layer
  set theTextLayer to make new art layer in theDocRef with properties ¬
      {kind:text layer}
  --Set the contents, size, position and color of the text layer
  set contents of text object of the Text Layer to "Hello, World!"
  set size of text object of theTextLayer to 36
  set position of text object of the Text Layer to {0.75 as inches, 1 as inches}
  set stroke color of text object of theTextLayer to theTextColor
  set myOptions to \neg
      {class:PDF save options, embed color profile:true, ¬
      save alpha channels:true, vector data:true, use outlines for text:true}
  save current document in file myFile as Photoshop PDF with options \neg
      myOptions appending no extension without copying
end tell
```

Photo CD open options

DEPRECATED. Options that can be specified when opening a Kodak Photo CD (PCD) files, including high-resolution files from Pro Photo CD discs. The Photo CD open options class inherits properties from the open options class.

This class is used to define a record containing properties that specify options when opening a Photo CD document. Photo CD open options can be supplied only in conjunction with the open command. It is not possible to get or create a Photo CD open options object.

Properties

Property	Value Type	What it is
color profile name	Unicode text	The profile to use when reading the image.
color space	Valid Values: Lab 16 Lab 8 RGB 16 RGB 8	The colorspace for the image.
orientation	Valid Values: landscape portrait	The image orientation.
pixel size	Valid Values: extra large large maximum medium minimum small	The image dimensions. extra large = 1024x1536 large = 512x768 maximum = 2048x3072 medium = 256x384 minimum = 64x96 small = 128x192
resolution	real	The image resolution (in pixels per inch).

The following code opens a Photo CD document.

```
tell application "Adobe Photoshop CC"

set myFilePath to alias "Data:docsamples:testfiles:IMG0001.PCD"

open myFilePath as Photo CD with options ¬

{class:Photo CD open options, color profile name:"Adobe RGB (1998)", ¬

color space:RGB 8, resolution:72, orientation:landscape, pixel size:medium}
end tell
```

photo filter

The photo filter class supplies options for the <u>adjustment options</u> class to adjust the layer's color balance and temperature.

The photo filter class, which is analogous to the Photo Filter command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply a Photo Filter adjustment to an image. The photo filter class can be used only in conjunction with the adjust command. It is not possible to get or create a photo filter object.

See the <u>adjust</u> command for additional details.

Properties

Property	Value Type	What it is
with contents	color value	The color hue adjustment to use for the image.
density	integer	The density of the filter effect as a percent. (default:25)
preserve luminosity	boolean	Indicates whether to preserve luminosity (i.e. the image is not darkened by adding the color filter.)

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Photoshop DCS 1.0 save options

Options that can be specified when saving a document in Photoshop DCS 1.0 format. See the <u>save</u> command for additional details. The Photoshop DCS 1.0 save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a Photoshop DCS 1.0 file. Photoshop DCS 1.0 save options can only be supplied in conjunction with the save command. It is not possible to get or create a Photoshop DCS 1.0 save options object.

Properties

Property	Value Type	What it is
DCS	Valid Values: color composite grayscale composite no composite PostScript	The DCS color to use (default: color composite).
embed color profile	boolean	Indicates whether to embed the color profile in the document.
encoding	Valid Values: ASCII binary high quality JPEG low quality JPEG maximum quality JPEG medium quality JPEG	The type of encoding to use (default: binary).
halftone screen	boolean	Indicates whether to include the halftone screen (default: false).
image interpolation	boolean	Indicates whether to use image interpolation (default: false).
preview type	Valid Values: eight bit Mac OS eight bit TIFF JPEG Mac OS monochrome Mac OS monochrome TIFF none	The type of preview (default: eight bit Mac OS).
transfer function	boolean	Indicates whether to include the Transfer functions to compensate for dot gain between the image and film (default: false).
vector data	boolean	Indicates whether to include vector data (un-rasterized text) (default: false).

The following code creates the myOptions variable to hold the Photoshop DCS 1.0 save options, then uses the <u>save</u> command to save the document with the specified options.

end tell

```
set theDocRef to make new document
set myFile to "Data:docsamples:testfiles:DCS1.eps"
-- create a text layer
set theTextLayer to make new art layer in theDocRef with properties ¬
   {kind:text layer}
--Set the contents, size, position and color of the text layer
set contents of text object of theTextLayer to "Hello, World!"
set size of text object of theTextLayer to 36
set position of text object of the Text Layer to {0.75 as inches, 1 as inches}
set theTextColor to {class:RGB color, red:255, green:0, blue:0}
set stroke color of text object of the TextLayer to the TextColor
set myOptions to \neg
   {class:Photoshop DCS 1.0 save options, embed color profile:true, \neg
   vector data:true}
save current document in file myFile as Photoshop DCS 1.0 with options \neg
   myOptions appending no extension without copying
```

Photoshop DCS 2.0 save options

Options that can be specified when saving a document in Photoshop DCS 2.0 format. See the <u>save</u> command for additional details. The Photoshop DCS 2.0 save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a Photoshop DCS 2.0 file. Photoshop DCS 2.0 save options can only be supplied in conjunction with the save command. It is not possible to get or create a Photoshop DCS 2.0 save options object.

Properties

Property	Value Type	What it is
DCS	Valid Values: color composite grayscale composite no composite PostScript	The DCS color to use (default: no composite PostScript).
embed color profile	boolean	Indicates whether to embed the color profile in the document.
encoding	Valid Values: ASCII binary high quality JPEG low quality JPEG maximum quality JPEG medium quality JPEG	The type of encoding to use (default: binary)
halftone screen	boolean	Indicates whether to include the halftone screen (default: false).
image interpolation	boolean	Indicates whether to use image interpolation (default: false).
multifile DCS	boolean	Indicates whether to save color channels as multiple files or a single file (default: false).
preview type	Valid Values: eight bit Mac OS eight bit TIFF JPEG Mac OS monochrome Mac OS monochrome TIFF none	The type of preview (default: eight bit Mac OS).
save spot colors	boolean	Indicates whether to save the spot colors.
transfer function	boolean	Indicates whether to include the Transfer functions to compensate for dot gain between the image and film (default: false).
vector data	boolean	Indicates whether to include vector data (un-rasterized text) (default: false).

The following code creates the myOptions variable to hold the Photoshop DCS 2.0 save options, then uses the <u>save</u> command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  set display dialogs to never
  set theDocRef to make new document
  set myFile to "Data:docsamples:testfiles:DCS2.eps"
  -- create a text layer
  set theTextLayer to make new art layer in theDocRef with properties ¬
      {kind:text layer}
  --Set the contents, size, position and color of the text layer
  set contents of text object of the TextLayer to "Hello, World!"
  set size of text object of the Text Layer to 36
  set theTextColor to {class:RGB color, red:255, green:0, blue:0}
  set position of text object of the Text Layer to {0.75 as inches, 1 as inches}
  set stroke color of text object of theTextLayer to theTextColor
  set myOptions to ¬
      {class:Photoshop DCS 2.0 save options, embed color profile:true, ¬
         save spot colors:true, vector data:true}
  save current document in file myFile as Photoshop DCS 2.0 with options \neg
     myOptions appending no extension without copying
end tell
```

Adobe Photoshop CC

Photoshop save options

Options that can be specified when saving a document in PSD format. See the <u>save</u> command for additional details. The PSD save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a Photoshop file. PSD save options can only be supplied in conjunction with the save command. It is not possible to get or create a PSD save options object.

Properties

Property	Value Type	What it is
embed color profile	boolean	Indicates whether to embed the color profile in the document.
save alpha channels	boolean	Indicates whether to save the alpha channels.
save annotations	boolean	Indicates whether to save the annotations.
save layers	boolean	Indicates whether to save the layers.
save spot colors	boolean	Indicates whether to save the spot colors.

The following code creates the myOptions variable to hold the Photoshop save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  set theDocRef to make new document
  set myFile to "Data:docsamples:testfiles:PSDSave.psd"
  -- create a text layer
  set the TextLayer to make new art layer in the DocRef with properties \neg
      {kind:text layer}
  --Set the contents, size, position and color of the text layer
  set contents of text object of the Text Layer to "Hello, World!"
  set size of text object of the Text Layer to 36
  set position of text object of the Text Layer to {0.75 as inches, 1 as inches}
  set theTextColor to {class:RGB color, red:0, green:64, blue:255}
  set stroke color of text object of theTextLayer to theTextColor
  set myOptions to \neg
      {class:Photoshop save options, embed color profile:true, ¬
      save spot colors:true, save alpha channels:true, save annotations:true, ¬
      save layers:true}
  save current document in file myFile as Photoshop format with options \neg
      myOptions appending no extension without copying
end tell
```

PICT file save options

Options that can be specified when saving a document in PICT format. See the <u>save</u> command for additional details. The PICT file save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a PICT file save options can only be supplied in conjunction with the save command. It is not possible to get or create a PICT file save options object.

Properties

Property	Value Type	What it is
compression	Valid Values: high quality JPEG low quality JPEG maximum quality JPEG medium quality JPEG none	(default: none).
embed color profile	boolean	Indicates whether to embed the color profile in the document.
resolution	Valid Values: eight four sixteen thirty two two	The number of bits per pixel.
save alpha channels	boolean	Indicates whether to save the alpha channels.

The following code creates the myOptions variable to hold the PICT file save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
   activate
   close documents saving no
   make new document
   set myFile to "Data:docsamples:testfiles:PictSave.pct"

set myOptions to ¬
        {class:PICT file save options, compression:maximum quality JPEG, ¬
        embed color profile:true, save alpha channels:false, resolution:thirty two}
   save current document in file myFile as PICT file with options ¬
        myOptions appending no extension without copying
end tell
```

PICT resource save options

Options that can be specified when saving a document as a PICT resource. See the <u>save</u> command for additional details. The PICT resource save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a PICT resource file. PICT resource save options can only be supplied in conjunction with the save command. It is not possible to get or create a PICT resource save options object.

Properties

Property	Value Type	What it is
compression	Valid Values: high quality JPEG low quality JPEG maximum quality JPEG medium quality JPEG none	(default: none).
embed color profile	boolean	Indicates whether to embed the color profile in the document.
name	Unicode text	The name of the PICT resource.
resolution	Valid Values: eight four sixteen thirty two two	The number of bits per pixel.
resource id	integer	The ID of the PICT resource (default: 128).
save alpha channels	boolean	Indicates whether to save the alpha channels.

The following code creates the myOptions variable to hold the PICT resource save options, then uses the <u>save</u> command to save the document with the specified options.

picture package options

Options that can be specified for a picture package. See <u>create photo gallery</u>.

Property	Value type	What it is
content	Valid values: caption text copyright text credit text filename text no text origin text user text	The content information (default: user).
content text	string	The picture package custom text. Note: Valid only when content: user text. See content.
flatten final	boolean	Indicates whether all layers in the final document are flattened (default: true).
font	Valid values: Arial Courier New Helvetica Times New Roman	The font used for security text (default: arial).
size	real	The font size used for security text (default: 12).
layout	Unicode text	The layout to use to generate the picture package (default: "(2) $5x7$ ").
mode	Valid values: bitmap CMYK grayscale lab RGB	The color profile to use as the document mode (default: RGB).
opacity	integer	The web page security opacity as a percent (default: 100).
resolution	real	The resolution of the document in pixels per inch (default: 72.0).
text color	RGB color	The color to use for text.

Property	Value type	What it is (Continued)
text position	Valid values: gallery centered gallery lower left gallery lower right gallery upper left gallery upper right	The text position (default: gallery centered).
text rotate	Valid values: clock wise 45 clock wise 90 counter clock wise 45 counter clock wise 90 zero	The orientation to use for text (default: zero).

pinch

Options that may be supplied when applying a Pinch filter.

The pinch class supplies properties for the <u>filter options</u> class. The pinch class is used only to define a record whose properties specify options when applying a Pinch filter. pinch options can be supplied only in conjunction with the filter command. It is not possible to get or create a pinch object.

See the <u>filter</u> command for additional details.

Properties

Property	Value Type	What it is
amount	integer	(-100 - 100)

The following code sample demonstrates how to apply the Pinch filter using the filter command of the pinch class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using pinch ¬
     with options {class:pinch, amount:40}
end tell
```

Pixar save options

Options that can be specified when saving a document in Pixar format. See the <u>save</u> command for additional details. The Pixar save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a Pixar file. Pixar save options can only be supplied in conjunction with the save command. It is not possible to get or create a Pixar save options object.

Properties

Property	Value Type	What it is
save alpha channels	boolean	Indicates whether to save the alpha channels.

The following code creates the myOptions variable to hold the Pixar file save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:PixarSave.pxr"

set myOptions to {class:Pixar save options, save alpha channels:true} ¬

  save current document in file myFile as Pixar with options ¬
      myOptions appending no extension without copying
end tell
```

PNG save options

Options that can be specified when saving a document in PNG format. See the <u>save</u> command for additional details. The PNG save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a PNG file. PNG save options can only be supplied in conjunction with the save command. It is not possible to get or create a PNG save options object.

Properties

Property	Value Type	What it is
compression	integer	(0 - 9) (default: 0).
interlaced	boolean	Indicates whether rows should be interlaced (default: false).

The following code creates the myOptions variable to hold the PNG save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:PngTest.png"
  set myOptions to {class:PNG save options}
  save current document in file myFile as PNG with options ¬
      myOptions appending no extension without copying
end tell
```

polar coordinates

Options that may be supplied when applying a Polar Coordinates filter.

The polar coordinates class supplies properties for the <u>filter options</u> class. The polar coordinates class is used only to define a record whose properties specify options when applying a Polar Coordinates filter. polar coordinates options can be supplied only in conjunction with the filter command. It is not possible to get or create a polar coordinates object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
kind	Valid Values: polar to rectangular rectangular to polar	The type of polar conversion to use.

The following code sample demonstrates how to apply the Polar Coordinates filter using the filter command of the polar coordinates class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using polar coordinates ¬
    with options {class:polar coordinates, kind:rectangular to polar}
end tell
```

posterize

The posterize class supplies options for the <u>adjustment options</u> class to specify the number of tonal levels for each channel and then map pixels to the closest matching level.

The posterize class, which is analogous to the Posterize command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply a Posterize adjustment to an image. The posterize class can be used only in conjunction with the adjust command. It is not possible to get or create a posterize object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
levels	integer	(2 - 255)

The following code sample demonstrates how to apply a Posterize adjustment using the adjust command of the posterize class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"
  adjust current layer of the current document using posterize ¬
      with options {class:posterize, level:15}
end tell
```

presentation options

Options for the create PDF presentation command. See create PDF presentation.

Properties

Property	Value Type	What it is
auto advance	boolean	Indicates whether to auto advance images when viewing the presentation (default: true).
		Note: Valid only when presentation: true. See presentation .
include file name	boolean	Indicates whether to include the file name for the image (default: false).
interval	integer	The number of seconds before the view is auto advanced (default: 5).
		Note: Valid only when auto advance: true. See auto advance.
loop	boolean	Indicates whether to loop after the last page of the presentation.
		Note: Valid only when auto advance: true. See auto advance.
magnification	Valid Values: actual size fit page	The magnification type to use when viewing the image.
PDF options	PDF save options	Options to use when creating the PDF file.

Property	Value Type	What it is (Continued)
presentation	boolean	Indicates whether the file type is presentation (default: false). Note: false indicates a Multi-Page document.
transition	Valid Values: blinds horizontal blinds vertical box in box out dissolve glitter down glitter right glitter right down none random split horizontal in split vertical in split vertical out wipe down wipe left wipe right wipe up	The transition from one image to the next (default: none). Note: Valid only when auto advance: true. See auto advance.

Valid Commands

create PDF presentation

radial blur

Options that may be supplied when applying a Radial Blur filter.

The radial blur class supplies properties for the <u>filter options</u> class. The radial blur class is used only to define a record whose properties specify options when applying a Radial Blur filter. radial blur options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a radial blur object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
amount	integer	(0 - 100)
blur method	Valid Values: spin zoom	The type of blur effect to use.
quality	Valid Values: best draft good	

The following code sample demonstrates how to apply the Radial Blur filter using the filter command of the radial blur class (inherited from the filter options super class).

```
tell application ""Adobe Photoshop CC"

filter current layer of the current document using radial blur with options ¬

{class:radial blur, amount:35, blur method:spin, quality:draft}
end tell
```

raw format open options

Settings related to opening a raw format document. The raw format open options class inherits properties from the <u>open options</u> class.

This class is used to define a record containing properties that specify options when opening a document in raw format. raw format open options can be supplied only in conjunction with the open command. It is not possible to get or create a raw format open options object.

Properties

Property	Value Type	What it is
bits per channel	integer	The number of bits for each channel (8 or 16).
byte order	Valid Values: IBM PC Mac OS	The order in which bytes will be read. Note: Valid only when bits per channel: 16.
header size	integer	The number of bytes of information that appears in the file before actual image information begins; that is, the number of zeroes inserted at the beginning of the file as placeholders (0 - 1919999).
height	integer	The image height (in pixels).
interleave channels	boolean	Indicates whether to store color values sequentially.
number of channels	integer	The number of channels in the image (1 - 56). Note: The value of number of channels cannot exceed the number of channels in the image. When bitsPerChannel: 16, only the following values are valid: 1, 3, or 4. See bits per channel.
retain header	boolean	Indicates whether to retain the header when saving the document. Note: Valid only when header size is 1 or greater.
width	integer	The image width (in pixels).

The following code opens a raw format document.

raw save options

Options that can be specified when saving a document in raw format. See the <u>save</u> command for additional details. The raw save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a raw file. raw save options can only be supplied in conjunction with the save command. It is not possible to get or create a raw save options object.

Properties

Property	Value Type	What it is
save alpha channels	boolean	Indicates whether alpha channels should be saved.
save spot colors	boolean	Indicates whether the spot colors should be saved.

The following code creates the myOptions variable to hold the raw save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:RawSave.raw"

set myOptions to ¬
      {class:raw save options, save alpha channels:true, save spot colors:false}
  save current document in file myFile as raw with options ¬
      myOptions appending no extension without copying
end tell
```

RGB color

An RGB color specification: numeric values for the component colors (red, green, and blue). The RGB color class inherits properties from the color value class.

This class a property of the <u>color value</u> object and is used to define a record that specifies options when creating a color value.

If the mode of a document is RGB and you specify the color value for a stroke, foreground, or background color property using a CMYK color object, Adobe Photoshop CC translates the CMYK color specification into an RGB color specification. The same thing happens if the document's color mode is CMYK and you specify colors using a RGB color object. Since this translation can cause information loss you should specify colors using the color class that matches the document's color mode.

Properties

Property	Value Type	What it is
red	real	The red color value (0.0 - 255.0; default: 255.0).
green	real	The green color value (0.0 - 255.0; default: 255.0).
blue	real	The blue color value (0.0 - 255.0; default: 255.0).

The following code creates a color value using the RGB color class, assigns the color to the variable theTextColor, and then uses the variable to set the text color to the RGB color.

```
tell application "Adobe Photoshop CC"
  activate
  --create a variable named theDocRef
  --assign the current (active) document to it
  set theDocRef to the current document
  --create a variable that contains a color object of the RGB color class
   --whose color is red
  set theTextColor to {class:RGB color, red:255, green:0, blue:0}
  --create a variable for the text layer, create the layer as an art layer object
  --and use the kind property of the art layer object to make it a text layer
  set theTextLayer to make new art layer in theDocRef with properties ¬
      {kind:text layer}
  --Set the contents, size, position and color of the text layer
  set contents of text object of the Text Layer to "Hello, World!"
  set size of text object of theTextLayer to 36
  set position of text object of the Text Layer to {0.75 as inches, 1 as inches}
  set stroke color of text object of theTextLayer to theTextColor
end tell
```

RGB hex color

A hexadecimal specification of an RGB color. The RGB hex color class inherits properties from the color value class.

Properties

Property	Value Type	What it is
hex value	Unicode text	The hex representation of an RGB color.

ripple

Used to apply the Ripple filter. The ripple class inherits properties from the filter options class.

Options that may be supplied when applying a filter to a layer or selection. See the <u>filter</u> command for additional details.

This class is used to define a record containing properties used to specify options when applying a filter. ripple options can only be supplied in conjunction with the filter command. It is not possible to get or create a ripple object.

Properties

Property	Value Type	What it is
amount	integer	(-999 - 999)
ripple size	Valid Values: large medium small	

The following code sample demonstrates how to apply the Ripple filter using the filter command of the ripple class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using ripple with options ¬
{class:ripple, amount:345, ripple size:small}
end tell
```

save for web export options

Options that can be specified when optimizing a document for the web or devices.

The save for web export options class supplies properties for the <u>export options</u> class. save for web export options options can be supplied only in conjunction with the export command. It is not possible to get or create a save for web export options object.

See the **export** command for further details.

Properties

Property	Value type	What it is
blur	real	Applies blur to the image to reduce artifacts (default: 0.0).
color reduction	Valid values: adaptive black white custom reduction grayscale macintosh colors perceptual reduction restrictive selective windows colors	The color reduction algorithm (default: selective).
colors in palette	integer	The number of colors in the palette (default: 256).
dither	Valid values: diffusion noise none pattern	The type of dither (default: diffusion).
dither amount	integer	The amount of dither (default: 100). Note: Valid only when dither:diffusion. See dither.
interlaced	boolean	Indicates whether to download in multiple passes; progressive (default: false).
lossy	integer	The amount of lossiness allowed (default: 0).
matte	RGB color	The colors to blend transparent pixels against.
optimized size	boolean	Indicates whether to create smaller but less compatible files (default: true). Note: Valid only when format: JPEG. See web format.

Property	Value type	What it is (Continued)
png eight	boolean	Indicates the number of bits; true = 8, false = 24 (default: true).
		Note: Valid only when format: PNG. See web format.
quality	integer	The quality of the produced image (0 - 100 as percentage; default: 60).
transparency	boolean	Indication of transparent areas of the image should be included in the saved image (default: true).
transparency amount	integer	The amount of transparency dither (default: 100).
		Note: Valid only if transparency: true. See transparency.
transparency dither	Valid values: diffusion noise none pattern	The transparency dither algorithm (default: none).
web format	Valid values: CompuServe GIF/ JPEG/ PNG/ Wireless Bitmap	The file format to use (default: CompuServe GIF).
web snap	integer	The tolerance amount within which to snap close colors to web palette colors (default: 0).
with profile	boolean	Indicates whether to include the document's embedded color profile (default: false).

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save options

Options used with the save command. The following classes inherit properties from the save options class: BMP save options, EPS save options, GIF save options, JPEG save options, PDF save options, Photoshop DCS 1.0 save options, Photoshop DCS 2.0 save options, Photoshop save options, PICT file save options, PICT resource save options, Pixar save options, PNG save options, raw save options, SGI RGB save options, Targa save options, TIFF save options.

Valid Commands

save

selection-object

The selection of the document.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
properties	record	All of this object's properties returned in a single record.
container	reference	Read-only. The object's container.
bounds	list of real	Read-only. The bounding rectangle of the entire selection
solid	boolean	Read-only. Indicates whether the bounding rectangle is solid.

Valid Commands

clear contract сору copy merged cut deselect expand feather fill grow invert load make work path rotate rotate boundary scale scale boundary select select all select border similar smooth store stroke <u>translate</u> translate boundary

selective color

The selective color class supplies options for the <u>adjustment options</u> class to modify the amount of a process color in a specified primary color without affecting the other primary colors.

The selective color class, which is analogous to the Selective Color command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply a Selective Color adjustment to an image. The selective color class can be used only in conjunction with the adjust command. It is not possible to get or create a selective color object.

See the adjust command for additional details.

Properties

Property	Value Type	What it is
selection method	Valid Values: absolute relative	The method to use for interpreting selective color adjustment specifications: absolute = % of the whole; relative = % of the existing color amount.
reds	list of reals	Array of 4 values: cyan, magenta, yellow, black.
yellows	list of reals	Array of 4 values: cyan, magenta, yellow, black.
greens	list of reals	Array of 4 values: cyan, magenta, yellow, black.
cyans	list of reals	Array of 4 values: cyan, magenta, yellow, black.
blues	list of reals	Array of 4 values: cyan, magenta, yellow, black.
magentas	list of reals	Array of 4 values: cyan, magenta, yellow, black.
whites	list of reals	Array of 4 values: cyan, magenta, yellow, black.
neutrals	list of reals	Array of 4 values: cyan, magenta, yellow, black.
blacks	list of reals	Array of 4 values: cyan, magenta, yellow, black.

Preferences for the Adobe Photoshop CC application.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
properties	record	All of this object's properties returned in a single record.
additional plugin	alias	The path to an additional plug-in folder.
folder		Valid only when use additional plugin folder: true. See use additional plugin folder.
append extension	Valid Values: ask no yes	Save files with extensions on Windows.
ask before saving layered TIFF	boolean	Indicates whether to ask the user to verify layer preservation options when saving a file in TIFF format.
auto update open documents	boolean	Indicates whether to automatically update open documents.
beep when done	boolean	Indicates whether to beep when a process finishes.
cache levels	integer	The number of images to hold in the cache (1 - 8).
color picker	Valid Values: Adobe color picker Apple color picker plug in color picker Windows color picker	
column gutter	real	The width of the column gutters (in points).
column width	real	The width of the columns (in points).
create first snapshot	boolean	Indicates whether to automatically make first snapshot when a new document is created.
display color channels in color	boolean	Indicates whether to display component channels in the Channels palette in color.

Property	Value Type	What it is (Continued)
dynamic color sliders	boolean	Indicates whether to display dynamic sliders in the Channels palette.
edit log items	Valid Values: concise detailed sessiononly	The options for editing history log items. Valid only when use history log: true. See use history log.
export clipboard	boolean	Indicates whether to retain Adobe Photoshop CC contents on the clipboard after you exit the application.
font preview size	Valid Values: none preview huge extra large preview large preview medium preview small	Indicates whether to show font previews in the type tool font menus.
full size preview	boolean	(Mac only.) Indicates whether to display image previews as full size images or thumbnails.
gamut warning opacity	real	(0 - 100 as percent).
grid size	Valid Values: large medium none small	The size to use for squares in the grid.
grid style	Valid Values: dashed line dotted line solid line	The formatting style for non-printing grid lines.
grid subdivisions	integer	(1 - 100)
guide style	Valid Values: dashed line solid line	The formatting style for non-printing guide lines.
icon preview	boolean	(Mac only.)
image previews	Valid Values: ask no yes	The behavior mode to use when saving files.
interpolation method	Valid Values: bicubic sharper bicubic smoother bilinear closest neighbor none	The method to use to assign color values to any new pixels created when an image is resampled or resized.

Property	Value Type	What it is (Continued)
keyboard zoom resizes windows	boolean	Indicates whether to automatically resize the window when zooming in or out using keyboard shortcuts.
Mac OS thumbnail	boolean	(Mac only.) Indicates whether to create a thumbnail when saving the image.
maximize compatibility	Valid Values: always ask never	Indicates whether and when to maximize compatibility when opening Adobe Photoshop CC (PSD) files.
maximum RAM use	integer	Maximum percentage of available RAM used by Adobe Photoshop CC (5 - 100).
nonlinear history	boolean	Indicates whether to allow non-linear history.
number of history states	integer	The number of history states to remember (1 - 100).
other cursors	Valid Values: precise standard	The type of pointer to use.
painting cursors	Valid Values: brush size precise standard	The type of pointer to use.
pixel doubling	boolean	Indicates whether to halve the resolution or (double the size of pixels) to make previews display more quickly.
point size	Valid Values: postscript size traditional size	The point/pica size.
recent file list length	integer	The number of items in the recent file list (0 - 30)
ruler units	Valid Values: cm units inch units mm units percent units pica units pixel units point units	The unit that the scripting system will use when receiving and returning values. Note: For properties that accept ruler unit values (such as height of document); the values cannot be provided as mm or as cm. These unit types are not recognized by the AppleScript terminology.
save log items	Valid Values: both log file metadata	Options for saving the history items.
save log items file	alias	The file in which to save the history log.

Property	Value Type	What it is (Continued)
save palette locations	boolean	Indicates whether to make new palette locations the default location.
show Asian text options	boolean	Indicates whether to display Asian text options in the Paragraph palette.
show English font names	boolean	Indicates whether to list Asian font names in English.
show slice numbers	boolean	Indicates whether to display slice numbers in the document window when using the Slice tool.
show tool tips	boolean	Indicates whether to show pop up definitions on mouse over.
smart quotes	boolean	Indicates whether to use curly or straight quote marks.
type units	Valid Values: mm units pixel units point units	The unit type-size that the numeric inputs are assumed to represent.
use additional plugin folder	boolean	Indicates whether to use an additional folder for compatible plug-ins stored with a different application.
use history log	boolean	Turn on and off the history logging
use lowercase extension	boolean	Indicates whether to use lowercase for file extensions.
use Shift key for tool switch	boolean	Indicates whether to enable cycling through a set of hidden tools.
use video alpha	boolean	Indicates whether to enable Adobe Photoshop CC to send transparency information to your computer's video board. (Requires hardware support.)
Windows thumbnail	boolean	(Requires hardware support.) Indicates whether to create a thumbnail when saving the image.

SGI RGB save options

Options that can be specified when saving a document in SGI RGB format. See the <u>save</u> command for additional details. The SGI RGB save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a SGI RBG file. SGI RGB save options can only be supplied in conjunction with the save command. It is not possible to get or create a SGI RBG save options object.

Properties

Property	Value Type	What it is
save alpha channels	boolean	Indicates whether to save the alpha channels.
save spot colors	boolean	Indicates whether to save the spot colors.

The following code creates the myOptions variable to hold the SGI RGB save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:MySGIRGB.rgb"
  set myOptions to {class:SGI RGB save options, save alpha channels:true, ¬
      save spot colors:true}
  save current document in file myFile as SGI RGB with options ¬
      myOptions appending no extension without copying
end tell
```

sharpen

Options that may be supplied when applying a Sharpen filter.

The sharpen class supplies properties for the <u>filter options</u> class. The sharpen class is used only to define a record whose properties specify options when using the <u>filter</u> command to apply a Sharpen filter. sharpen options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a sharpen object.

See the <u>filter</u> command for additional details.

The following code sample demonstrates how to apply the Sharpen filter using the filter command of the sharpen class (inherited from the filter options super class).

tell application "Adobe Photoshop CC" filter current layer of the current document using sharpen with options end tell

sharpen edges

Options that may be supplied when applying a Sharpen Edges filter.

The sharpen edges class supplies properties for the <u>filter options</u> class. The sharpen edges class is used only to define a record when using the <u>filter</u> command to apply a Sharpen Edges filter. sharpen edges options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a sharpen edges object.

See the filter command for additional details.

The following code sample demonstrates how to apply the Sharpen Edges filter using the filter command of the sharpen edges class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using sharpen edges end tell
```

sharpen more

Options that may be supplied when applying a Sharpen More filter.

The sharpen more class supplies properties for the <u>filter options</u> class. The sharpen more class is used only to define a record when using the <u>filter</u> command to apply a Sharpen More filter. sharpen more options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a sharpen more object.

See the filter command for additional details.

The following code sample demonstrates how to apply the Sharpen More filter using the filter command of the sharpen more class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using sharpen more end tell
```

shear

Options that may be supplied when applying a Shear filter.

The shear class supplies properties for the <u>filter options</u> class. The shear class is used only to define a record whose properties specify options when applying a Shear filter. shear options can be supplied only in conjunction with the filter command. It is not possible to get or create a shear object.

See the <u>filter</u> command for additional details.

Properties

Property	Value Type	What it is
curve	list of points	A list of curve coordinates (x, y) that define the points that describe the shear curve. You must provide x and y coordinates for a minimum of 2 points.
undefined areas	Valid Values: repeat edge pixels wrap around	The method to use to treat undistorted areas or areas left blank in an image to which the a filter in the Distort category has been applied.

The following code sample demonstrates how to apply the Shear filter using the filter command of the shear class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC" filter current layer of the current document using shear with options ¬ {class:shear, curve:{{12, 4}, {12, 8}, {8, 13}}, undefined areas:wrap around} end tell
```

smart blur

Options that may be supplied when applying a Smart Blur filter.

The smart blur class supplies properties for the <u>filter options</u> class. The smart blur class is used only to define a record whose properties specify options when applying a Smart Blur filter. smart blur options can be supplied only in conjunction with the filter command. It is not possible to get or create a smart blur object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
radius	real	(0 - 1000)
threshold	real	(0 - 1000)
quality	Valid Values: high low medium	
mode	Valid Values: edge only normal overlay edge	The method to use for smart blurring: edge only, overlay edges: Apply blur only to edges of color transitions; normal: Apply blur to entire image.

The following code sample demonstrates how to apply the Smart Blur filter using the filter command of the smart blur class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using smart blur with options ¬

{class:smart blur, radius:765, threshold:88, quality:high, mode:normal}
end tell
```

spherize

Options that may be supplied when applying a Spherize filter.

The spherize class supplies properties for the <u>filter options</u> class. The spherize class is used only to define a record whose properties specify options when applying a Spherize filter. spherize options can be supplied only in conjunction with the <u>filter</u> command. It is not possible to get or create a spherize object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
amount	integer	(-100 - 100)
mode	Valid Values: horizontal normal vertical	The curve (or stretch shape) to use for the distortion.

The following code sample demonstrates how to apply the Spherize filter using the filter command of the spherize class (inherited from the filter options super class).

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sub path info

Sub path information (returned by the entire path property of the path item, path items class).

You add sub path information to a path by passing a sub path info object to the <u>make</u> command (through the <u>entire path</u> property) for a path item object. This method creates the sub path item objects associated with each sub path info object, and returns a path item object that is the path represented by all the sub paths.

Note: For an example of creating sub path info object, see path item, path items.

Properties

Property	Value Type	What it is
closed	boolean	Indicates whether the path describes an enclosed area.
entire sub path	list of path point info objects	The sub path item's path points.
operation	Valid Values: shape add shape intersect shape subtract shape xor	The sub path's operation on other sub paths.

Valid Commands

exists

sub path item, sub path items

An array of path point info objects that describes a straight or curved segment of a path.

Tip: You do not use the sub path item object to create a sub path. Rather, you use the sub path item object to retrieve information about a sub path. To create sub paths, see <u>sub path info</u>.

Elements

Element	Refer to by	
path point	numeric index, as a range of elements, before	
	after another element, satisfying a test	

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
index	integer	Read-only. The index of this instance of the object.
properties	record	All of this object's properties returned in a single record.
closed	boolean	Read-only. Indicates whether the sub path item describes an enclosed area.
container	reference	Read-only. The object's container.
entire sub path	list of path point info objects	Read-only. The sub path item's path points.
operation	Valid Values: shape add shape intersect shape subtract shape xor	Read-only. The sub path's operation on other sub paths.

Valid Commands

count
exists
index

Targa save options

Options that can be specified when saving a document in Targa format. See the <u>save</u> command for additional details. The Targa save options class inherits properties from the <u>save options</u> class.

This class is used to define a record containing properties used to specify options when saving a document as a Targa file. Targa save options can only be supplied in conjunction with the save command. It is not possible to get or create a Targa save options object.

Properties

Property	Value Type	What it is
resolution	Valid Values: sixteen thirty two twenty four	The number of bits per pixel (default: twenty four).
RLE compression	boolean	Indicates whether to use RLE compression (default: true).
save alpha channels	boolean	Indicates whether to save the alpha channels.

The following code creates the myOptions variable to hold the Targa save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:TargaSave.tga"

set myOptions to {class:Targa save options, resolution:sixteen, ¬
     RLE compression:true, save alpha channels:true}

save current document in file myFile as Targa with options ¬
     myOptions appending no extension without copying
end tell
```

text-object

The text item contained in an art layer. A text-object is a property of an art layer class whose kind property value is text layer. text-object is used only to define a record whose properties specify options for a text layer. text-object options can be supplied only in conjunction with a text layer; it is not possible to get or create a text-object object.

See <u>art layer</u>, <u>art layers</u> for additional details.

Properties

Property	Value Type	What it is
best type	type class	Read-only. The best type for the object's value.
class	type class	Read-only. The object's class.
default type	type class	Read-only. The default type for the object's value.
properties	record	All of this object's properties returned in a single record.
alternate ligatures	boolean	Indicates whether to use alternate ligatures.
antialias method	Valid Values: crisp none sharp smoothing strong	The method of antialiasing to use.
auto kerning	Valid Values: manual metrics optical	The auto kerning option to use.
auto leading	boolean	Indicates whether to use a font's built-in leading information.
auto leading amount	real	The percentage to use for auto (default) leading (0.01 - 5000.00 in points). Valid only when auto leading: true. See auto leading.
baseline shift	real	The baseline offset of the text (unit value).
capitalization	Valid Values: all caps normal small caps	The text case.
container	reference	Read-only. The object's container.
contents	Unicode text	The actual text in the layer.

Property	Value Type	What it is (Continued)
desired glyph scaling	real	The desired amount (percentage) to scale the horizontal size of the text letters (50 - 200; at 100, the width of characters is not scaled).
		Note: Valid only when justification: center justified; justification: fully justified; or justification: left justified; Or justification: right justified. See justification.
		The following values are also required: <pre>minimum glyph scaling and maximum glyph scaling .</pre>
Note: 'letter scaling' is basically equivalent to	real	The amount of space between letters (100 - 500; at 0, the width of characters is not scaled).
'Letter Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'		Note: Valid only when justification: center justified; justification: fully justified; justification: left justified; Or justification: right justified. See justification. The following values are also required: minimum letter scaling and maximum letter scaling.
desired word scaling Note: 'word scaling' is basically equivalent to	real	The amount (percentage) of space between words (0 -1000; at 100, no additional space is added between words).
'Word Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'		Note: Valid only when justification: center justified; justification: fully justified; or justification: left justified; or justification: right justified. See justification. The following values are also required: minimum word scaling and maximum word scaling.
faux bold	boolean	Indicates whether to use faux bold.
faux italic	boolean	Indicates whether to use faux italic.
first line indent	real	The amount (unit value) to indent the first line of paragraphs (-1296 - 1296).
font	Unicode text	The text face of the characters.

Property Value Type		What it is (Continued)
height	real	The width of the bounding box (unit value) for paragraph text.
		Note: Valid only when kind: paragraph text. See <u>kind</u> .
horizontal scale	integer	Character scaling (horizontal) in proportion to vertical scale (0 - 1000 in percent). See wertical.scale .
horizontal warp distortion	real	The horizontal distortion of the warp (-100 - 100 as percent).
hyphen limit	integer	The maximum number of consecutive lines that can end with a hyphenated word.
hyphenate after first	integer	The number of letters after which hyphenation in word wrap is allowed (1 - 15).
hyphenate before last	integer	The number of letters before which hyphenation in word wrap is allowed (1 - 15).
hyphenate capitalized words	boolean	Indicates whether to allow hyphenation of capitalized words.
hyphenate words longer than	integer	The minimum number of letters a word must have in order for hyphenation in word wrap to be allowed (2 - 25).
hyphenation	boolean	Indicates whether to allow hyphenation in word wrap.
hyphenation zone	real	The distance at the end of a line that will cause a word to break in unjustified type (0 - 720 pica).
justification	Valid Values: center center justified fully justified left left justified right right justified	The paragraph justification.
kind	Valid Values: paragraph text point text	The type of the text wrap to use.

Property	Value Type	What it is (Continued)
language	Valid Values: Brazilian Portuguese Canadian French Danish Dutch English UK English USA Finnish French German Italian Norwegian Nynorsk Norwegian Old German Portuguese Spanish Swedish Swiss German	The language to use.
leading	real	The leading amount (unit value).
left indent	real	The amount (unit value) of space to indent text from the left (-1296 - 1296).
ligatures	boolean	Indicates whether to use ligatures.
maximum glyph scaling	real	The maximum amount (percentage) to scale the horizontal size of the text letters (50 - 200; at 100, the width of characters is not scaled). Note: Valid only when justification: center justified; justification: fully justified; justification: left justified; or justification: right justified. See justification. The following values are also required: desired glyph scaling and maximum glyph scaling.
Note: 'letter scaling' is basically equivalent to 'Letter Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'	real	The maximum amount of space to allow between letters (100 - 500; at 0, the width of characters is not scaled). Note: Valid only when justification: center justified; justification: fully justified; or justification: left justified; Or justification: right justified. See justification. The following values are also required: minimum letter scaling and desired letter scaling.

Property	Value Type	What it is (Continued)
Note: 'word scaling' is basically equivalent to 'Word Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'	real	The maximum amount (percentage) of space to allow between words (0-1000; at 100, no additional space is added between words). Note: Valid only when justification: center justified; justification: fully justified; Or justification: right justified. See justification. The following values are also required: minimum word scaling and desired word scaling.
minimum glyph scaling	real	The minimum amount (percentage) to scale the horizontal size of the text letters (50 - 200; at 100, the width of characters is not scaled). Note: Valid only when justification: center justified; justification: fully justified; justification: left justified; Or justification: right justified. See justification. The following values are also required: maximum glyph scaling and desired glyph scaling.
Note: 'letter scaling' is basically equivalent to 'Letter Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'	real	The minimum amount of space to allow between letters (100 - 500; at 0, the width of characters is not scaled). Note: Valid only when justification: center justified; justification: fully justified; or justification: right justified. See justification. The following values are also required: desired letter scaling and maximum letter scaling.

Property	Value Type	What it is (Continued)
Note: 'word scaling' is basically equivalent to 'Word Spacing' in the Adobe Photoshop CC application Justification dialog (Select Justification on the Paragraphs palette menu).'	real	The minimum amount (percentage) of space to allow between words (0 -1000; at 100, no additional space is added between words). Note: Valid only when justification: center justified; justification: fully justified; justification: left justified; or justification: right justified. See justification. The following values are also required: desired word scaling and maximum word scaling.
no break	boolean	Indicates whether to allow words to break at the end of a line. Tip: When enacted on large amounts of consecutive characters, noBreak: true can prevent word wrap and thus may prevent some text from appearing on the screen.
old style	boolean	Indicates whether to use old style type.
position	list	The position of origin for the text. The list must contain two values (unit value). Tip: Setting the position property is basically equivalent to clicking the text tool at a point in the document to create the point of origin for text.
right indent	real	The amount of space (unit value) to indent text from the right (-1296 - 1296).
Roman hanging punctuation	boolean	Indicates whether to use Roman Hanging Punctuation.
size	real	The font size(unit value).
space after	real	The amount of space (unit value) to use after each paragraph (-1296 - 1296).
space before	real	The amount of space (unit value) to use before each paragraph (-1296 - 1296).
strike thru	Valid Values: off strike box strike height	Options for text strikethrough.
stroke color	color value	The text color.

Property	Value Type	What it is (Continued)
text composer	Valid Values: Adobe every line Adobe single line	The composition method to use to evaluate line breaks and optimize the specified hyphenation and justification options. Note: Valid only when kind: paragraph text. See kind.
text direction	Valid Values: horizontal vertical	The text orientation.
tracking	real	The amount of uniform spacing between multiple characters (-1000 - 10000). Tip: Tracking units are 1/1000 of an em space. The width of an em space is relative to the current type size. In a 1-point font, 1 em equals 1 point; in a 10-point font, 1 em equals 10 points. So, for example, 100 units in a 10-point font are equivalent to 1 point.
underline	Valid Values: left off right	Options for text underlining.
vertical scale	integer	Character scaling (vertical) in proportion to horizontal scale (0 - 1000 in percent). See horizontal scale .
vertical warp distortion	real	(-100 - 100 as percent).
warp bend	real	(-100 - 100 as percent).
warp direction	Valid Values: horizontal vertical	

Property	Value Type	What it is (Continued)
warp style	Valid Values:	
	arc arc lower arc upper arch bulge fish fish eye flag inflate none rise shell lower shell upper squeeze twist wave	
width	real	The width of the bounding box (unit value) for paragraph text. Note: Valid only when kind: paragraph text. See kind.

Valid Commands

```
convert to shape
create work path
exists
```

The following code creates a text item in the art layer textLayer, and then uses the contents, justification, and stroke color properties of the text-object class to define the text item. For the second document, the text layer is set up using set properties.

```
tell application "Adobe Photoshop CC"
  activate
  set doc to make new document
  set textLayer to make new art layer of doc with properties {kind:text layer}
  set contents of text object of textLayer to "Hello, World!"
  set position of text object of textLayer to {4 as inches, 1 as inches}
  set justification of text object of textLayer to right
  set stroke color of text object of textLayer to ¬
      {class:RGB color, red:255, green:0, blue:0}
  set doc to make new document
  set textLayer to make new art layer of doc with properties {kind:text layer}
  set properties of text object of text
Layer to {contents:"Hello, World!", \neg
      position: {4 as inches, 1 as inches}, justification:right, ¬
      stroke color:{class:RGB color, red:255, green:0, blue:0}, size:40}
end tell
```

texture fill

Options that may be supplied when applying a Texture Fill filter.

The texture fill class supplies properties for the <u>filter options</u> class. The texture fill class is used only to define a record whose properties specify options when applying a Texture Fill filter. texture fill options can be supplied only in conjunction with the filter command. It is not possible to get or create a texture fill object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
file path	alias	The full path to the texture file. Must be a grayscale Photoshop file.

The following code sample demonstrates how to apply the Texture Fill filter using the filter command of the texture fill class (inherited from the filter options super class).

threshold adjustment

The threshold adjustment class supplies options properties for the <u>adjustment options</u> class to convert grayscale or color images to high-contrast, B/W images by converting pixels lighter than the specified threshold to white and pixels darker than the threshold to black.

The threshold adjustment class, which is analogous to the Threshold command in the Adobe Photoshop CC application, is used only to define a record containing properties that specify options when using the adjust command to apply a Threshold adjustment to an image. The threshold adjustment class can be used only in conjunction with the adjust command. It is not possible to get or create an threshold adjustment object.

See the <u>adjust</u> command for additional details.

Properties

Property	Value Type	What it is
level	integer	(1 - 255)

The following code sample demonstrates how to apply a threshold adjustment using the adjust command of the threshold adjustment class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC"
   adjust current layer of the current document using threshold adjustment ¬
     with options {class:threshold adjustment, level:36}
end tell
```

TIFF save options

Options that can be specified when saving a document in TIFF format. See the <u>save</u> command for additional details. The TIFF save options class inherits properties from the <u>save</u> options class.

This class is used to define a record containing properties used to specify options when saving a document as a TIFF file. TIFF save options can only be supplied in conjunction with the save command. It is not possible to get or create a TIFF save options object.

Properties

Property	Value Type	What it is
byte order	Valid Values: IBM PC Mac OS	The order in which the document's bytes will be read. (The default is ByteOrder.MACOS when running on Mac OS and ByteOrder.IBM when running on a PC.)
embed color profile	boolean	Indicates whether to embed the color profile in the document.
image compression	Valid Values: JPEG LZW none ZIP	The compression type to use (default: none).
interleave channels	boolean	Indicates whether the channels in the image will be interleaved. (default: true)
JPEG quality	integer	The quality of the produced image (0 - 12), which is inversely proportionate to the amount of JPEG compression. Note: Valid only when image compression: JPEG.
layer compression	Valid Values: RLE ZIP	The method of compression to use when saving layers (as opposed to saving composite data). Note: Valid only when save layers: true. See save layers.
save alpha channels	boolean	Indicates whether to save the alpha channels.
save annotations	boolean	Indicates whether to save the annotations.
save image pyramid	boolean	Indicates whether to preserve multiresolution information (default: false).
save layers	boolean	Indicates whether to save the layers.
save spot colors	boolean	Indicates whether to save the spot colors.
transparency	boolean	Indicates whether to save the transparency as an additional alpha channel when the file is opened in another application.

The following code creates the myOptions variable to hold the TIFF save options, then uses the save command to save the document with the specified options.

```
tell application "Adobe Photoshop CC"
  make new document
  set myFile to "Data:docsamples:testfiles:TiffSave.tif"
  set myOptions to ¬
      {class:TIFF save options, embed color profile:true, ¬
      image compression:JPEG, JPEG quality:4, save layers:true, \neg
      save spot colors:true}
  save current document in file myFile as TIFF with options \neg
     myOptions appending no extension without copying
end tell
```

twirl

Options that may be supplied when applying a Twirl filter.

The twirl class supplies properties for the <u>filter options</u> class. The twirl class is used only to define a record whose properties specify options when applying a Twirl filter. twirl options can be supplied only in conjunction with the filter command. It is not possible to get or create a twirl object.

See the <u>filter</u> command for additional details.

Properties

Property	Value Type	What it is
angle	integer	(-999 - 999)

The following code sample demonstrates how to apply the Twirl filter using the filter command of the twirl class (inherited from the filter options super class).

unsharp mask

Options that may be supplied when applying an Unsharp Mask filter.

The unsharp mask class supplies properties for the <u>filter options</u> class. The unsharp mask class is used only to define a record whose properties specify options when applying an Unsharp Mask filter. unsharp mask options can be supplied only in conjunction with the filter command. It is not possible to get or create an unsharp mask object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
amount	real	(1 - 500 as percent)
radius	real	(0.1 - 250.00 in pixels)
threshold	integer	(0 - 255)

The following code sample demonstrates how to apply the Unsharp Mask filter using the filter command of the unsharp mask class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"

filter current layer of the current document using unsharp mask with options ¬
{class:unsharp mask, amount:437, radius:17.8, threshold:255}
end tell
```

wave filter

Options that may be supplied when applying a Wave filter.

The wave filter class supplies properties for the <u>filter options</u> class. The wave class is used only to define a record whose properties specify options when applying a Wave filter. wave filter options can be supplied only in conjunction with the filter command. It is not possible to get or create a wave object.

See the filter command for additional details.

Properties

Property	Value Type	What it is
number of generators	integer	(1 - 999)
minimum wavelength	integer	(1 - 998)
maximum wavelength	integer	(2-minimum wavelength+1)
minimum amplitude	integer	(1 - 998)
maximum amplitude	integer	(2 - minimumAmplitude + 1)
horizontal scale	integer	(1 - 100 as percent)
vertical scale	integer	(1 - 100 as percent)
wave type	Valid Values: sine square triangular	
undefined areas	Valid Values: repeat edge pixels wrap around	The method to use to fill areas left blank by the wave distortion.
random seed	integer	The number to use to control random wave lengths.

The following code sample demonstrates how to apply the Wave filter using the filter command of the wave class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
  filter current layer of the current document using wave filter ¬
      with options ¬
      {class:wave filter, number of generators:1 ¬
            , minimum wavelength:1, maximum wavelength:100 ¬
            , minimum amplitude:5, maximum amplitude:10 ¬
            , horizontal scale:100, vertical scale:100 ¬
            , wave type:sine, undefined areas:repeat edge pixels, random seed:0}
end tell
```

XMP metadata

Camera raw image file settings stored in an XMP file in the same folder as the raw file with the same base name and an XMP extension.

Properties

Property	Value Type	What it is	
best type	type class	Read-only. The best type for the object's value.	
class	type class	Read-only. The object's class.	
default type	type class	Read-only. The default type for the object's value.	
properties	record	All of this object's properties returned in a single record.	
container	reference	Read-only. The object's container.	
raw data	Unicode text	The raw XML form of file information.	

zigzag

Options that may be supplied when applying a Zigzag filter.

The zigzag class supplies properties for the <u>filter options</u> class. The zigzag class is used only to define a record whose properties specify options when applying a Zigzag filter. zigzag options can be supplied only in conjunction with the filter command. It is not possible to get or create a zigzag object.

See the <u>filter</u> command for additional details.

Properties

Property	Value Type	What it is
amount	integer	(-100 - 100)
ridges	integer	(0 - 20)
style	Valid Values: around center out from center pond ripples	The type of zigzag to use.

The following code sample demonstrates how to apply the Zigzag filter using the filter command of the zigzag class (inherited from the filter options super class).

```
tell application "Adobe Photoshop CC"
   activate
   filter current layer of the current document using zigzag ¬
      with options {class:zigzag, amount:-45, ridges:13, style:pond ripples}
end tell
```

AppleScript Commands

This chapter provides a complete reference for the commands in the Adobe Photoshop CC AppleScript dictionary. The commands are presented alphabetically.

The commands supported by each object, with links to the detailed descriptions here, are listed in 'AppleScript Objects' on page 9.

Overview

This chapter describes the commands in the Adobe Photoshop CC AppleScript dictionary, as well as some of the important standard AppleScript commands. The AppleScript dictionary itself shows only that the command returns an object, or that the command takes an object reference as a parameter; it does not show the specific objects that can respond to a particular command. Not all Adobe Photoshop CC objects can respond to all commands. This reference details which objects respond to which commands, and what type of object each command returns (if any).

The following information is given for each command.

Column heading	What it means
Parameters	Constants, keywords, and values needed by the command.
	Variable values to be supplied are shown in bold.
	Literal terms and constants are shown in plain type.
	Items surrounded by brackets [] are optional.
What it is	An explanation of the parameters.
Objects supported	Which objects support the command and/or which objects the command can operate upon. The document object, for example, supports the command close, but not the command quit.
Returns	Many commands return values (text, numbers, lists, and object references). This column shows you what kind of reference you can expect the command to return (if any).

activate

Makes an application active; that is, makes Adobe Photoshop CC the frontmost application.

Parameters	What it is	Objects supported	Returns
none		application	nothing

The the first line of the following code sample directs Adobe Photoshop CC to carry out the script's commands. The second line uses the activate command to make Adobe Photoshop CC the frontmost application.

```
tell application "Adobe Photoshop CC"
  activate
end tell
```

Note: Adobe Photoshop CC must be the frontmost application when executing any command that deals with the clipboard. Use activate to ensure that Adobe Photoshop CC is the active application. See the clipboard commands for examples:

copy

cut

paste

Applies an adjustment to one or more art layers.

Parameters	What it is	Objects supported	Returns
adjust art layer	The art layer object or objects to be operated upon.	art layer, art layers	
using anything	The options class used to invoke the method. Note: The class must be a class that inherits from adjustment options.	automatic contrast automatic levels brightness and contrast color balance curves desaturate equalize inversion levels adjustment mix channels posterize selective color threshold adjustment	
[with options adjustment options]	The options that can be specified for the command.		

The following code sample demonstrates how to apply an Automatic Contrast adjustment using the adjust command of the automatic contrast class (inherited from the adjustment options super class).

```
tell application "Adobe Photoshop CC" adjust current layer of the current document using automatic contrast end tell
```

apply

Applies the specified layer comp to the document.

Parameters	What it is	Objects supported	Returns
apply layer comp	The layer comp object or objects to be operated upon.	layer comp, layer comps	nothing

The following code creates two art layers and a layer comp, then applies the layer comp to the document.

```
tell application "Adobe Photoshop CC"
    activate

--create a variable named theDocRef
    --assign the current (active) document to it
    set theDocRef to the current document

--create two art layers and make a layer comp
    set layer1 to make new art layer in theDocRef with properties ¬
        {visible:true}
    set layer2 to make new art layer in theDocRef with properties ¬
        {visible:true}
    set layerComp1 to make new layer comp in theDocRef with properties ¬
        {visibility:true, name:"First Document State"}
    apply layerComp1
end tell
```

AppleScript Commands

apply layer style

Applies a layer style to the specified art layer.

Parameters	What it is	Objects supported	Returns
apply layer style art layer	The art layer object or objects to which you want to apply the style.	art layer, art layers layer, layers	
using Unicode text	The name of the layer style to apply.		

The following code creates a text layer by creating an art layer and setting its kind property to text layer, then applies the Sunset Sky layer style to the layer. The layer style is taken from the apply Layer Style list in the Layers palette in the Adobe Photoshop CC application.

```
tell application "Adobe Photoshop CC"
  activate
  --create a variable named theDocRef
  --assign the current (active) document to it
  set theDocRef to the current document
  --create a text layer and apply a style
  set layer1 to make new art layer in theDocRef with properties ¬
      {kind:text layer}
  set properties of text object of layer1 to {contents:"This is myTest.", ¬
      size:60, position:{0.5 as inches, 3 as inches}}
      apply layer style layer1 using "Sunset Sky (Text)"
      --load default styles for localized version
         open file "Data:docsamples:testfiles:Default Styles.asl"
      apply layer style layer1 using "Sunset Sky (Text)"
  end try
end tell
```

auto count

Counts the objects in an image. Creates a count item object for each object counted. See count item, count items.

Note: The auto count feature is available inhe Extended Version only.

For additional information about how to set up objects to count, please see the Count Tool in the Adobe Photoshop CC Help

Parameters	What it is	Objects supported	Returns
auto count document	The document to count objects in.	document, documents	
from channel	The channel to use for counting.	channel, channels	
threshold integer	Threshold to use for counting (0-255)		

Runs the batch automation routine. This is analogous to using the Batch command in Adobe Photoshop CC.

Parameters	What it is	Objects supported	Returns
batch Unicode text	The name of the action to play.		Unicode text
	Note: The case of letters in the Action name must match the case of the name in the Actions palette.		
from files list of alias	The list of files to operate on.		
from Unicode text	The name of the action set containing the action being played.		
	Note: The case of letters in the Action Set name must match the case of the name in the Actions palette.		
[with options batch options]	Options for batch automation.	batch options	

change mode

Changes the color mode of the document.

Parameters	What it is	Objects supported	Returns
change mode document	The document object or objects to be operated upon.	document, documents	
to bitmap/CMYK/grayscale/ indexed color/Lab/ multichannel/RGB	The mode to change to.		
[with options change mode options]	Options for changing the mode.	Bitmap mode options indexed mode options	

close

Closes a document.

Parameters	What it is	Objects supported	Returns
object reference	The document to close.	document, documents	nothing
[saving yes/no/ask]	Specifies whether to save the document before closing (default: ask).		

➤ Closing a document

```
-- Close the first document and prompt the user with a "Save as" dialog tell application "Adobe Photoshop CC" activate close document 1 saving ask end tell
```

clear

Clears the currently selected object.

Parameters	What it is	Objects supported	Returns
clear	Deletes the selected object and does not copy it to the clipboard.	art layer, art layers selection-object	

contract

Contracts the selection.

Parameters	What it is	Objects supported	Returns
contract selection-object	The selection-object object or objects to be operated upon.	selection-object	
by real	The amount to contract the selection (unit value).		

convert

Converts the document from using one color profile to using another.

Parameters	What it is	Objects supported	Returns
convert document	The document object or objects to be operated upon.	document, documents	
to profile Unicode text	The name of the color profile to convert to. Either a string that names a specific color profile or Working RGB, Working CMYK, Working Gray, Lab Color (meaning one of the working color spaces or Lab color).		
intent absolute colorimetric/ perceptual/ relative colorimetric/ saturation intent	The conversion intent.		
[blackpoint compensation boolean]	Indicates whether to use black point compensation.		
[dithering boolean]	Indicates whether to use dither (default: true).		

convert color

Converts an object from one color model to another.

Parameters	What it is	Objects supported	Returns
convert color color value	The color to convert.	color value	color value
to CMYK/grayscale/HSB/ Lab/RGB/RGB Hex	The color model to convert to.		

convert to shape

Converts the text item and its containing layer to a fill layer with the text changed to a clipping path.

Parameters	What it is	Objects supported	Returns
convert to shape text-object	The text-object object or objects to be operated upon.	text-object	

copy

Copies the current selection to the clipboard.

Parameters	What it is	Objects supported	Returns
сору		art layer, art layers selection-object	

copy merged

Copies the current selection, including the data from all visible layers, to the clipboard.

Parameters	What it is	Objects supported	Returns
copy merged		art layer, art layers selection-object	

Note: Commands that manipulate the clipboard (cut, copy, and paste) require that Adobe Photoshop CC be the frontmost application during these operations. Use activate to bring Adobe Photoshop CC to the front before executing a copy command. No error is returned if there is no selection to copy. If the application is not frontmost, an error is returned.

count

Counts the elements of a specified type contained in a specified object.

Parameters	What it is	Objects supported	Returns
count object reference	The object whose elements are to be counted.	art layer, art layers channel, channels color sampler, color	integer
[each type class]	The class of the objects to count.	samplers count item, count items document, documents font, fonts history state, history states layer, layers layer comp, layer comps layer set, layer sets notifier, notifiers path item, path items path point, path points sub path item, sub path items	

Notes

With the optional each term, use the singular form for the object type to be counted; for example, art layer rather than art layers. If you don't use each, you can use the singular or plural form.

➤ Counting normal path items in a document

```
-- This script shows the user how many paths
-- are normal paths out of the total number in document {\bf 1}
tell application "Adobe Photoshop CC"
  set pathCount to count each path item of document 1
  set numberNormal to \neg
      count (path items of document 1 whose kind is normal)
  display dialog number
Normal & " of " & path
Count \neg
      & " paths are normal in this document." as string
end tell
```

create contact sheet

Creates a contact sheet from multiple files. This was deprecated in Photoshop CS4.

Parameters	What it is	Objects supported	Returns
from files list of alias	A list of the input files to include in the contact sheet.		Unicode Text (an empty string)
[with options contact sheet options]	Options that can be specified for creating the contact sheet.	contact sheet options	

create PDF presentation

Creates a PDF presentation file. This was deprecated in Photoshop CS4.

Parameters	What it is	Objects supported	Returns
from files list of alias	A list of the input files to include in the presentation.		Unicode text that can be cast to the file path.
to file file specification	The location of the output file.		
[with options presentation options]	Options that can be specified for the PDF presentation.	presentation options	

create photo gallery

Creates a web photo gallery. This was deprecated in Photoshop CS4.

Parameters	What it is	Objects supported	Returns
from folder anything	A folder for or list of input files to include in the presentation.	file specification (for a folder), or list of alias	Unicode text
to folder alias	The location for output files.		
[with options gallery options]	Options that can be specified for the photo gallery.	gallery options	

create photo merge

Merges multiple files into one.

Parameters	What it is	Objects supported	Returns
from files list of alias	A list of the input files to merge.		Unicode text (an empty string)

create picture package

Creates a picture package from multiple files. This was deprecated in Photoshop CS4.

Parameters	What it is	Objects supported	Returns
from files list of alias	A list of the input files to include in the picture package.		Unicode text (an empty string)
[with options picture package options]	Options that can be specified for creating the picture package.	picture package options	

create selection

Makes a selection object from the specified path; the selection-object can be accessed through the <u>selection</u> property of the document object.

Parameters	What it is	Objects supported	Returns			
create selection path item	The path item object or objects to be operated upon.	path item, path items				
[feather amount real]	The feather amount in pixels.					
[antialiasing boolean]	Indicates whether to use antialiasing for the selection.					
[operation diminished/extende d/intersected/ replaced]	The operation mode for the selection.					

create work path

Creates a work path based on the text object.

Parameters	What it is	Objects supported	Returns
create work path text-object	The text-object object or objects to be operated upon.	text-object	

crop

Crops the document.

Parameters	What it is	Objects supported	Returns
crop document	The document object or objects to be operated upon.	document, documents	
bounds list	The area to crop (unit value). A list of four coordinates that mark the portion remaining after cropping, in the following order: left, top, right, bottom.		
[angle real]	The angle of the cropping bounds (default: 0.0).		
[width real]	The width of the resulting document (unit value).		
[height real]	The height of resulting document (unit value).		

cut

Cuts the current selection to the clipboard.

Parameters	What it is	Objects supported	Returns
cut	Deletes the selected object and copies it to the clipboard.	art layer, art layers selection-object	

Note: Commands that manipulate the clipboard (cut, copy, and paste) require that Adobe Photoshop CC be the frontmost application during these operations. Use activate to bring Adobe Photoshop CC to the front before executing a copy command. No error is returned if there is no selection to copy. If the application is not frontmost, an error is returned.

delete

Removes an element from an object.

Parameters	What it is	Objects supported	Returns
object reference or list (of object references)	Contained object or objects to delete.	art layer, art layers color sampler, color samplers count item, count items channel, channels layer, layers layer comp, layer comps layer set, layer sets notifier, notifiers path item, path items	nothing

➤ Deleting a layer

```
-- This script deletes the top layer in the document
tell application "Adobe Photoshop CC"
  activate
  set doc to make new document
  make new art layer of doc
  delay 1
  if (count layers of doc) > 1 then
      delete layer 1 of doc
  end if
end tell
```

delete measurements

Exports the measurement data to a file.

Parameters	What it is	Objects supported	Returns
delete measurement log	The measurement log object or objects to be operated upon.		
range	Which measurements to export. Default to selected.		

deselect

Deselects the selected object.

Parameters	What it is	Objects supported	Returns
deselect object	The object or objects to be operated upon.	document, documents selection-object	

deselect

Deselects the path item. No path item is selected. (For Path Suite).

Parameters	What it is	Objects supported	Returns
deselect object	The object or objects to be operated upon.	path item, path items	

do action

Plays an action from the Actions Palette.

Parameters	What it is	Objects supported	Returns
do action Unicode text	The name of the action to play. Note: The Action name is case sensitive. Be sure to		
	enter the Action name exactly as it appears in the Actions palette.		
from Unicode text	The name of the Action Set containing the Action to be played.		
	Note: The Action Set name is case sensitive. Be sure to enter the Action Set name exactly as it appears in the Actions palette.		

do javascript

Executes a JavaScript.

Parameters	What it is	Objects Supported	Returns
do javascript anything	The JavaScript code or file (.js or .jsx) to execute.		Unicode text
[with arguments list of anything]	The arguments to pass to the JavaScript routine.		
[show debugger before running/ never/ on runtime error]	Indication of when, if at all, to show the debugger (default: never).		

For an example of exectuing JavaScript code from AppleScript, see the *Photoshop CC Scripting Guide*

doc duplicate

Duplicates a document with parameters.

Parameters	What it is	Objects supported	Returns
doc duplicate document	The document to duplicate	document, documents	reference to the duplicated document
[name Unicode text]	The name for the duplicated document.		
[merge layers only boolean]	Indicates whether only the merged layers are duplicated.		

duplicate

Duplicates a document without parameters.

Parameters	What it is	Objects supported	Returns
duplicate document	The document to duplicate	document, documents	reference to the duplicated document

duplicate

Duplicates one or more objects.

Parameters	What it is	Objects supported	Returns
duplicate object reference	The object to duplicate	art layer, art layers channel, channels layer, layers layer sets path item, path items	reference to the duplicated object
[to location reference]	The new container (parent object) for the object.		
[with properties record]	Not applicable for Photoshop objects.		

equal colors

Determines whether the specified colors are visually equal.

Parameters	What it is	Objects supported	Returns
equal colors color value	The original color with which to compare.	color value	boolean
with color value	The color to which to compare the original color.		

exists

Determines whether an object exists.

Parameters	What it is	Objects supported	Returns
object reference	The object to test for existence.	Any object except application	boolean

➤ Check if a document exists

```
-- Check if a document exists and beep twice if one does
tell application "Adobe Photoshop CC"
if exists document 1 then
beep 2
end if
end tell
```

expand

Expands the current selection.

Parameters	What it is	Objects supported	Returns
expand selection-object	The selection-object object or objects to be expanded.	selection-obje ct	
by real	The amount by which to expand the selection (unit value).		

export

Exports the document.

Parameters	What it is	Objects supported	Returns
export document	The document object or objects to be operated upon.	document, documents	
in file specification	The file to export to.		
[as Illustrator paths/ save for web]	The type of export (default: Illustrator paths).		
[with options export options]	Options that can be specified for the export type.	Illustrator paths export options save for web export options	

export measurements

Exports the measurement data to a file.

Parameters	What it is	Objects supported	Returns
export measurement log	The measurement log object or objects to be operated upon.		
data points	Array of identifiers of data points to export. The order of the data points is respected in the exported file. Defaults to data points visible in Measurement Log palette.		
in file specification	The file to export to.		
range	Which measurements to export. Default to selected.		

feather

Feathers the edges of the current selection.

Parameters	What it is	Objects supported	Returns
feather selection-object	The object or objects to be operated upon.	selection-object	
by real	The amount of the edge to feather (unit value).		

feature enabled

Determines whether the specified feature is enabled.

Parameters	What it is	Objects supported	Returns
feature enabled "photoshop/extended" "photoshop/standard" "photoshop/trial"		application	boolean

fill

Fills the current selection.

Parameters	What it is	Objects supported	Returns
fill selection-object	The selection-object object or objects to be operated upon.	selection-object	
with contents anything	A color object or history state object.	CMYK color color value gray color history state, history states HSB color RGB color RGB hex color	
[blend mode behind mode/ clear mode/ color blend/ color burn/ color dodge/darken/ difference/dissolve /divide/ exclusion/hard light/ hard mix/hue blend/ lighten/ linear burn/ linear dodge/ linear light/ luminosity/ multiply/normal/ overlay/ pin light/ saturation blend/ screen/soft light/subtract/ vivid light]	The color blend mode to use (default: normal).		
[opacity integer]	The fill opacity (default: 100 as percent).		
[preserving transparency boolean]	Indicates whether to preserve the transparencies.		

fill path

Fills the path with the specified information.

Parameters	What it is	Objects supported	Returns
fill path path item	The path item object or objects to be operated upon.	path item, path items	
[with contents anything]	The color of the fill for this path.	CMYK color color value gray color history state, history states HSB color RGB color	
[blend mode behind mode/clear mode/ color blend/color burn/ color dodge/darken/ difference/dissolve/ exclusion/hard light/ hard mix/hue blend/ lighten/linear burn/ linear dodge/ linear light/luminosity/ multiply/normal/overlay/ pin light/ saturation blend/ screen/soft light/ vivid light]	The blending mode to use for the path's fill.		
[opacity real]	The opacity of the path's fill.		
[antialiasing boolean]	Indicates whether to use anti aliasing for the selection.		
[preserving transparency boolean]	Indicates whether to preserve the transparency of the fill for this path.		
[feather amount real]	The feather amount in pixels.		
[whole path boolean]	Indicates whether to use all subpaths during the fill.		

filter

Applies a filter to one or more art layers.

Parameters	What it is	Objects supported	Returns
filter art layer	The art layer object or objects to be operated upon.	art layer, art layers	
using anything	The options class used to invoke the method. Note: The class must be a a class that inherits from filter options.		
[with options filter options]	The options that can be specified for the method.	All classes that inherit from <u>filter</u> options	

flatten

Flattens all layers in the document.

Parameters	What it is	Objects supported	Returns
flatten document	The document object or objects to be operated upon.	document, documents	

flip canvas

Flips the canvas horizontally or vertically.

Parameters	What it is	Objects supported	Returns
flip canvas document	The document object or objects to be operated upon.	document, documents	
direction horizontal/vertical	The direction in which to flip the canvas.		

grow

Grows the current selection to include all adjacent pixels falling within the specified tolerance range.

Parameters	What it is	Objects supported	Returns
grow selection-object	The selection-object object or objects to be operated upon.	selection-object	
tolerance integer	(0 - 255)		
antialiasing boolean			

import annotations

Imports annotations into the document.

Parameters	What it is	Objects supported	Returns
import annotations document	The document object or objects to be operated upon.	document, documents	
from alias	The document from which to import the annotations.		

index

Gets an element from the specified element.

Parameters	What it is	Objects supported	Returns
item key	The object or objects to be operated upon.	art layer, art layers color sampler, color samplers, count item, count items channel, channels document, documents font, fonts history state, history states layer, layers layer comp, layer comps layer set, layer sets notifier, notifiers path item, path items path point, path points sub path item, sub path items	object reference

invert

Inverts the selection.

Tip: To invert an art layer, see the $\underline{inversion}$ adjustment option.

Parameters	What it is	Objects supported	Returns
invert selection-object	The selection-object object or objects to be operated upon.	selection-object	

link

Links the layer with another layer.

Parameters	What it is	Objects supported	Returns
link layer	The layer object or objects to be operated upon.	art layer, art layers layer, layers layer set, layer sets	
with layer	The layer to link to.		

load

Loads a support document.

Parameters	What it is	Objects supported	Returns
load document	The document to open.	document, documents	

Adobe Photoshop CC

load

Loads a selection from a channel.

Parameters	What it is	Objects supported	Returns
load selection-object	The selection-object object or objects to be operated upon.	selection-object	
from channel	The channel from which to load the selection.	channel, channels	
[combination type diminished/extended / intersected/replace d]	The method to use to combine the channel contents with the existing selection (default: replaced).		
[inverting boolean]	Indicates whether to select the inverse of the channel contents (default: false).		

make

Creates a new object and returns a reference to newly created object.

Parameters	What it is	Objects supported	Returns
new type class	The class of object to create.	art layer, art layers channel, channels	object referenc
	Note: The term new is optional.	<pre>color sampler, color samplers,</pre>	
at location reference	Location at which to insert new object.	<pre>count item, count items, document, documents</pre>	
[with properties record]	Any property of the object you wish to set at creation.	layer, layers layer comp, layer comps	
[with data anything]	Any data needed for creation that is not a property.	layer set, layer sets notifier, notifiers path item, path items	

➤ Creating layer objects

```
-- Make 2 layers, one at the top and one at the bottom
```

-- demonstrating the power of location references like beginning and end

```
tell application "Adobe Photoshop CC"
  set doc to make new document
  set background layer of layer 1 of doc to false
  set topLayer to make new art layer ¬
      at beginning of doc with properties {name:"Top Layer"}
  set bottomLayer to make new art layer ¬
      at end of doc with properties {name:"Bottom Layer"}
end tell
```

make clipping path

Makes the current path item the clipping path for this document.

Parameters	What it is	Objects supported	Returns
make clipping path path item	The path item object or objects to be operated upon.	path item, path items	
[flatness real]	Tells the PostScript printer how to approximate curves in the path (0.2 - 100).		

make work path

Makes the current selection item the work path for the document.

Parameters	What it is	Objects supported	Returns
make work path selection-object	The selection-object object or objects to be operated upon.	selection-object	
[tolerance real]	The tolerance in pixels.		

merge

Merges an art layer or layer set into the layer below, or merges a spot channel into the component channels. Merging a layer or layer set returns a reference to the resulting layer. Merging a channel does not return any value.

Parameters	What it is	Objects supported	Returns
merge art layer/channel/ layer/ layer set	The object or objects to be operated upon.	art layer, art layers channel, channels layer, layers layer set, layer sets	Merging a layer or layer set returns a reference to the resulting layer. Merging a channel does not return any value.

merge visible layers

Flattens all visible layers in the document.

Parameters	What it is	Objects supported	Returns
merge visible layers document	The document object or objects to be operated upon.	document, documents	

move

Moves one or more objects to a new location; returns references to the moved object or objects at the new location.

Parameters	What it is	Objects supported	Returns
move object reference or list (of object references)	Object or objects to move.	art layer, art layers layer, layers layer set, layer sets	object reference or list (of object references)
to location reference	New location of the object or objects.		

Notes

Objects cannot be moved between documents.

➤ Moving layers

```
-- This script moves the bottommost, non-background layer, to after the first layer
tell application "Adobe Photoshop CC"
  activate
  set doc to make new document
  tell doc
      set background layer of layer 1 to false
      make new art layer with properties {name:"Top Layer"}
      make new art layer with properties {name:"Buttom Layer"}
      move first layer to after last layer
  end tell
end tell
```

open

Opens one or more specified document file(s).

Parameters	What it is	Objects supported	Returns
open file specification	The file to be opened.	N/A	nothing
Alias PIX/BMP/Camera RAW/ CompuServe GIF/ DICOM/ Electric Image/EPS/ EPS PICT preview/ EPS TIFF preview/Filmstrip/JPEG/ PCX/PDF/Photo CD/ Photoshop DCS 1.0/ Photoshop DCS 2.0/ Photoshop EPS/ Photoshop format/ Photoshop PDF/PICT file/ PICT resource/Pixar/PNG/ Portable Bitmap/raw/ Scitex CT/SGI RGB/ SoftImage/Targa/ TIFF/Wavefront RLA/ Wireless Bitmap	The type of file to open. Note: Photo CD is deprecated. Note: DICOM is availabe in the Extended version only.		
[showing dialogs always/error dialogs/never]	The type of dialogs, if any, to allow when the script is run.		
[smart object boolean]	Indicates whether to create a smart object around the document opened. (Default:false)		
with options open options	Options for opening a particular type of file.	Camera RAW open options DICOM open options EPS open options PDF open options Photo CD open options raw format open options	

➤ Opening a PDF file

This script sample opens a PDF document.

```
tell application "Adobe Photoshop CC"

set myFilePath to alias "Data:docsamples:testfiles:PdfTest.pdf"

open myFilePath as PDF with options ¬

{class:PDF open options, height:pixels 100, width:pixels 200, ¬

mode:RGB, resolution:72, use antialias:true, page:1, ¬

constrain proportions:false}

end tell
```

paste

Paste the clipboard contents into the current document.

Parameters	What it is	Objects supported	Returns
paste [clipping to selection boolean]	Indicates whether to paste the clipboard contents into the current selection (default: false).	document, documents	

Note: Commands that manipulate the clipboard (cut, copy, and paste) require that Adobe Photoshop CC be the frontmost application during these operations. Use activate to bring Adobe Photoshop CC to the front before executing a copy command. No error is returned if there is no selection to copy. If the application is not frontmost, an error is returned.

Photoshop open dialog

Uses the Photoshop open dialog box to allow you to select files to open.

Parameters	What it is	Objects supported	Returns
Photoshop open dialog		document, documents	list of file specification

print

Prints one or more documents or files.

Parameters	What it is	Objects supported	Returns
print anything	Document or list of documents, or file or list of files to be printed.	document, documents	nothing
[source space document space/ proof space]	The color space for source (default: document space).		
[print space Unicode text]	The color space for the printer. Can be nothing (that is, the same as the source); or Working RGB, Working CMYK, Working Gray, Lab Color (meaning one of the working color spaces or Lab color); or a string specifying a specific colorspace (default: nothing).		
<pre>[intent absolute colorimetric/ perceptual/ relative colorimetric/ saturation intent]</pre>	The color conversion intent (default: relative colorimetric). Note: Valid only when the print space is different than the source space.		
[blackpoint compensation boolean]	Indicates whether the color conversion should use black point compensation (default: true).		
	Note: Valid only when the print space is different than the source space.		

> Print a document

```
-- Print the current document
tell application "Adobe Photoshop CC"
print document 1
end tell
```

purge

Purges one or more caches.

Parameters	What it is	Objects supported	Returns
purge all caches/ clipboard cache/ history caches/ undo caches	The caches to purge.	application	

quit

Forces Adobe Photoshop CC to quit.

Parameters	What it is	Objects supported	Returns
none		application	nothing

Notes

If there is Adobe Photoshop CC data on the clipboard, Adobe Photoshop CC displays a dialog asking if you want to save the clipboard for other applications. To prevent this dialog from being displayed, send the following command to the frontmost application

```
set the clipboard to \{\}
```

➤ Quitting Adobe Photoshop CC

```
tell application "Adobe Photoshop CC"
  activate
  set the clipboard to \{\}
  close every document saving no
end tell
```

rasterize

Rasterizes the contents of an art layer.

Parameters	What it is	Objects supported	Returns
rasterize art layer	The art layer object or objects to be operated upon.	art layer, art layers layer, layers	
affecting all linked layers/ entire layer/ fill content/ layer clipping path/ shape/text contents	The layers or layer contents or components to rasterize.		

recapture

Recaptures the current layer state(s) for this layer comp.

Parameters	What it is	Objects supported	Returns
recapture layer comp	The layer comp object or objects to be operated upon.	layer comp, layer comps	

record measurements

Exports the measurement data to a file.

Parameters	What it is	Objects supported	Returns
record measurement log	The measurement log object or objects to be operated upon.		
data points	Array of identifiers of data points to export. The order of the data points is respected in the exported file. Defaults to data points visible in Measurement Log palette.		
source	Source of the measurments to record.		

refresh

Pauses the script while the application refreshes.

Parameters	What it is	Objects supported	Returns
refresh	Wait for the application to redraw the current document.	application	

reset from comp

Resets the layer comp state to the document state.

Parameters	What it is	Objects supported	Returns
reset from comp	The layer comp object or objects to be operated upon.	layer comp, layer comps	

resize canvas

Changes the size of the canvas.

Parameters	What it is	Objects supported	Returns
resize canvas document	The document object or objects to be operated upon.	document, documents	
[width real]	The desired width of the canvas (unit value).		
[height real]	The desired height of the canvas (unit value).		
<pre>[anchor position bottom center/ bottom left/ bottom right/ middle center/ middle left/ middle right/ top center/top left/ top right]</pre>	The anchor to resize around (default: middle center).		

resize image

Changes the size of the image.

Parameters	What it is	Objects supported	Returns
resize image document	The document object or objects to be operated upon.	document, documents	
[width real]	The desired width of the canvas (unit value).		
[height real]	The desired height of the canvas (unit value).		
[resolution real]	The resolution (in pixels per inch).		
[amount real]	The amount of noise value when using preserve details (range: 0 - 100).		
[resample method automatic/bicubic/bicubic automatic/bicubic sharper/bicubic smoother/bilinear/closest neighbor/none/preserve details/]	The method to use for resampling pixels (default: bicubic).		

reveal all

Expands the document to show clipped sections.

Parameters	What it is	Objects supported	Returns
reveal all document	The document object or objects to be operated upon.	document, documents	

rotate

Rotates the object.

Parameters	What it is	Objects supported	Returns
rotate layer or selection-object	The object or objects to be operated upon.	art layer, art layers layer, layers layer set, layer sets selection-object	
angle real	The number of degrees to rotate. A positive angle will rotate the canvas clockwise; a negative value will rotate the canvas counter-clockwise.		
<pre>[anchor position bottom center/ bottom left/ bottom right/ middle center/ middle left/ middle right/ top center/ top left/top right]</pre>	The anchor point around which to rotate the layer (default: middle center).		

rotate boundary

Rotates the boundary of the selection-object.

Parameters	What it is	Objects supported	Returns
rotate boundary selection-object	The selection-object object or objects to be operated upon.	selection-object	
angle real	The number of degrees to rotate. A positive angle will rotate the canvas clockwise; a negative value will rotate the canvas counter-clockwise.		
<pre>[anchor position bottom center/ bottom left/ bottom right/ middle center/ middle left/ middle right/ top center/ top left/top right]</pre>	The anchor point around which to rotate the layer (default: middle center).		

rotate canvas

Rotates the canvas.

Parameters	What it is	Objects supported	Returns
rotate canvas document	The document object or objects to be operated upon.	document, documents	
angle real	The number of degrees to rotate. A positive angle will rotate the canvas clockwise; a negative value will rotate the canvas counter-clockwise.		

save

Saves an Adobe Photoshop CC document. Returns a reference to the saved document.

Parameters	What it is	Objects supported	Returns
save document	The document to save.	document, documents	object referenc
[in file specification]	The file to save to, specified as a string containing the full file path or an alias.		e
	If not specified, the document is saved to its existing file.		
[as Alias PIX/ BMP/ CompuServe GIF/ Electric Image/ JPEG/ PCX/ Photoshop DCS 1.0/ Photoshop DCS 2.0/ Photoshop EPS/ Photoshop format/ Photoshop FDF/ PICT file/ PICT resource/ Pixar/ PNG/ Portable Bitmap/ raw/ Scitex CT/ SGI RGB/ SoftImage/ Targa/ TIFF/ Wavefront RLA]	The file type to which to save. Note: To save a file in Wireless Bitmap format, use the export comand, and save for web export options.		
[copying boolean]	save as copy leaving original open. Unsaved files cannot be saved as copy.		

Parameters	What it is	Objects supported	Returns
[appending lowercase extension/ no extension/ uppercase extension]	append an extension to the document name		
[with options save options]	The save options for the specified file type.	BMP save options EPS save options GIF save options JPEG save options PDF save options Photoshop DCS 1.0 save options Photoshop DCS 2.0 save options Photoshop save options Pict file save options PICT resource save options Pixar save options Pixar save options Pixar save options Targa save options TIFF save options	

This example shows to batch process folders of Adobe Photoshop CC documents, saving each as a PDF file with specific settings.

```
-- Process all files in folders dropped on this script
-- (when saved as an applet)
-- Save each Adobe Photoshop CC file as a PDF file.
on run
  tell me to open {choose folder}
end run
on open droppedItems
  set destFolder to choose folder with prompt "Destination folder?"
  repeat with anItem in droppedItems
      tell application "Finder"
         -- Make sure each item processed by this script is a folder
         if class of item anItem is not folder then
             -- Not a folder, notify the user of the error
            display dialog "Please drop only folders on this script"
         else
             -- A folder, get the Adobe Photoshop CC files and process them
             set fileList to (every file of anItem whose creator type is ¬
                "8BIM") as alias list
         end if
      end tell
      SaveFilesAsPDF(fileList, destFolder)
  end repeat
end open
-- fileList is a list of aliases to Photoshop files
-- destFolder is an alias to a folder where the PDF files are to be saved
on SaveFilesAsPDF(fileList, destFolder)
  set destPath to destFolder as string
  repeat with aFile in fileList
      tell application "Finder" to set fileName to name of aFile
```

```
set newFilePath to destPath & fileName & ".pdf"
      tell application "Adobe Photoshop CC"
         open aFile
         save current document in file newFilePath as Photoshop PDF \neg
             with options {class:PDF save options, PDF compatibility:PDF 15, \neg
                          preserve editing:true}
         close current document saving no
      end tell
  end repeat
end SaveFilesAsPDF
```

scale

Scales the object to the specified size.

Parameters	What it is	Objects supported	Returns
scale layer or selection-object	The object or objects to be operated upon.	art layer, art layers layer, layers layer set, layer sets selection-object	
[horizontal scale real]	The amount to scale the layer horizontally (default: 100.0 as percent).		
[vertical scale real]	The amount to scale the layer (default: 100.0 as percent).		
<pre>[anchor position bottom center/ bottom left/ bottom right/ middle center/ middle left/ middle right/ top center/top left/ top right]</pre>	The anchor point around which to rotate the layer (default: middle center).		

scale boundary

Scales the boundary of selection.

Parameters	What it is	Objects supported	Returns
scale boundary selection-object	The selection-object object or objects to be operated upon.	selection-object	
[horizontal scale real]	The amount to scale the layer horizontally (default: 100.0 as percent).		
[vertical scale real]	The amount to scale the layer (default: 100.0 as percent).		
<pre>[anchor position bottom center/ bottom left/ bottom right/ middle center/ middle left/ middle right/ top center/top left/ top right]</pre>	The anchor point around which to rotate the layer (default: middle center).		

select

Changes the selection. (For Photoshop Suite.)

Parameters	What it is	Objects supported	Returns
select object	The object or objects to be operated upon.	document, documents selection-object	
region list of anything	A list of corners of the selection (in pixels).		
[combination type diminished/extended / intersected/replace d]	The method to use to combine the new selection with the existing selection (default: replaced).		
[feather amount real]	The feather amount (default: 0 . 0).		
[antialiasing boolean]	Indicates whether to use antialiasing (default: true).		

select

Makes the path item the active or selected path item. (For Path Suite).

Parameters	What it is	Objects supported	Returns
select path item	The path item to select.	path item, path items	

select all

Selects the entire image.

Parameters	What it is	Objects supported	Returns
select all document	The document object or objects to be operated upon.	document, documents selection-object	

select border

Selects the border of the selection.

Parameters	What it is	Objects supported	Returns
select border selection-object	The selection-object object or objects to be operated upon.	selection-object	
width real	The width of the selection (unit value).		

similar

Grows the selection to include pixels throughout the image falling within the tolerance range.

Parameters	What it is	Objects supported	Returns
similar selection-object	The selection-object object or objects to be operated upon.	selection-object	
tolerance integer			
antialiasing boolean			

smooth

Cleans up stray pixels left inside or outside a color-based selection within the radius specified in pixels.

Parameters	What it is	Objects supported	Returns
smooth selection-object	The selection-object object or objects to be operated upon.	selection-object	
radius integer	The sample radius in pixels (0 - 100).		

split channels

Splits the document's channels.

Parameters	What it is	Objects supported	Returns
split channels document	The document object or objects to be operated upon.	document, documents	list of document objects

store

Saves the selection as a channel.

Parameters	What it is	Objects supported	Returns
store selection-object	The selection-object object or objects to be operated upon.	selection-object	
into channel	The channel to save the selection to.		
[combination type diminished/extended / intersected/replace d]	The method to use to add the selection to the existing contents of the channel (default: replaced).		

stroke

Strokes the selection.

Parameters	What it is	Objects supported	Returns
stroke selection-object	The selection-object object or objects to be operated upon.	selection-object	
using color anything	The stroke color.		
width integer	The stroke width (in pixels).		
[location center/inside/outside]	The stroke placement (default: center).		
[blend mode behind mode/clear mode/ color blend/color burn/ color dodge/darken/ difference/dissolve/ exclusion/hard light/ hard mix/hue blend/ lighten/linear burn/ linear dodge/ linear light/luminosity/ multiply/normal/overla y/pin light/ saturation blend/ screen/soft light/ vivid light]	The color blending mode to use (default: normal).		
[opacity integer]	The opacity of the stroke (default: 100 as percent).		
[preserving transparency boolean]			

stroke path

Strokes the path with the specified information.

Parameters	What it is	Objects supported	Returns
stroke path path item	The path item object or objects to be operated upon.	path item, path items	
[tool art history brush tool/ background eraser tool/ blur tool/brush tool/ burn tool/ clone stamp tool/ color replacement tool/ dodge tool/eraser tool/ healing brush tool/ history brush tool/ pattern stamp tool/ pencil tool/sharpen tool/ smudge tool/sponge tool]	The tool to use when stroking the path.		
[simulate pressure boolean]	Indicates whether to simulate the pressure when using the tool.		

translate

Moves a layer or selection the specified amount (in pixels) relative to its current position.

Parameters	What it is	Objects supported	Returns
translate layer or selection-object	The object or objects to be operated upon.	art layer, art layers layer, layers layer set, layer sets	
[delta x real]	The horizontal transformation (unit value).	selection-object	
[delta y real]	The vertical transformation (unit value).		

translate boundary

Moves the selection relative to its current position.

Parameters	What it is	Objects supported	Returns
translate boundary selection-object	The selection-object object or objects to be operated upon.	selection-object	
[delta x real]	The horizontal transformation (unit value).		
[delta y real]	The vertical transformation (unit value).		

trap

Applies trapping to a CMYK document.

Parameters	What it is	Objects supported	Returns
trap document	The document object or objects to be operated upon.	document, documents	
width integer	The trap width in pixels.		

trim

Trims the transparent area around the image on the specified sides of the canvas.

Parameters	What it is	Objects supported	Returns
trim document	The document object or objects to be operated upon.	document, documents	
[basing trim on bottom right pixel/ top left pixel/ transparent pixels]	The color of, or type of, pixels to base trim on (default: top left pixel).		
[top trim boolean]	Indicates whether to trim away the top of document (default: true).		
[left trim boolean]	Indicates whether to trim away the left of document (default: true).		
[bottom trim boolean]	Indicates whether to trim away the bottom of document (default: true).		
[right trim boolean]	Indicates whether to trim away the right of document (default: true).		

unlink

Unlinks the layer.

Parameters	What it is	Objects supported	Returns
unlink layer	The layer object or objects to be operated upon.	art layer, art layers layer, layers layer set, layer sets	

web safe color

Finds the closest web safe color for a color.

Parameters	What it is	Objects supported	Returns
for <u>color value</u>	The color to be changed.	CMYK color gray color HSB color Lab color no color RGB color	RGB color

Appendix A: Event ID Codes

The following table lists events and their four-character ID codes or string identifiers for use with the notifier object.

Note: Do not include single quotes (') with four-character IDs in your code. The single quotes are used in this table to illustrate the placement of required spaces in codes that do not contain four letters. However, string identifiers, which are longer than four characters, require double quotes in the code.

Tip: If you can't find the event you want to use for notification in this table, you can use ScriptListener to determine the event ID code. See the ScriptListener documentation in the Action Manager chapter of the *Photoshop CC Scripting Guide*.

Event	4-char ID or String
3DTransform	'TdT '
Average	'Avrg'
ApplyStyle	'ASty'
Assert	'Asrt'
AccentedEdges	'AccE'
Add	'Add '
AddNoise	'AdNs'
AddTo	'AddT'
Align	'Algn'
All	'All '
AngledStrokes	'AngS'
ApplyImage	'AppI'
BasRelief	'BsRl'
Batch	'Btch'
BatchFromDroplet	'BtcF'
Blur	'Blr '
BlurMore	'BlrM'
Border	'Brdr'
Brightness	'BrgC'
CanvasSize	'CnvS'
ChalkCharcoal	'ChlC'
ChannelMixer	'ChnM'

Event	4-char ID or String
Charcoal	'Chrc'
Chrome	'Chrm'
Clear	'Cler'
Close	'Cls '
Clouds	'Clds'
ColorBalance	'ClrB'
ColorHalftone	'ClrH'
ColorRange	'ClrR'
ColoredPencil	'ClrP'
ContactSheet	"0B71D221-F8CE-11d2-B21B-0008C75B322 C"
ConteCrayon	'CntC'
Contract	'Cntc'
ConvertMode	'CnvM'
Сору	'copy'
CopyEffects	'CpFX'
CopyMerged	'СруМ'
CopyToLayer	'CpTL'
Craquelure	'Crql'
CreateDroplet	'CrtD'
Crop	'Crop'
Crosshatch	'Crsh'
Crystallize	'Crst'
Curves	'Crvs'
Custom	'Cstm'
Cut	'cut '
CutToLayer	'CtTL'
Cutout	'Ct '
DarkStrokes	'DrkS'
DeInterlace	'Dntr'
DefinePattern	'DfnP'
Defringe	'Dfrg'
Delete	'Dlt '
Desaturate	'Dstt'

Event	4-char ID or String
Deselect	'Dslc'
Despeckle	'Dspc'
DifferenceClouds	'DrfC'
Diffuse	'Dfs '
DiffuseGlow	'DfsG'
DisableLayerFX	'dlfx'
Displace	'Dspl'
Distribute	'Dstr'
Draw	'Draw'
DryBrush	'DryB'
Duplicate	'Dplc'
DustAndScratches	'DstS'
Emboss	'Embs'
Equalize	'Eqlz'
Exchange	'Exch'
Expand	'Expn'
Export	'Expr'
Jumpto	'Jpto'
ExportTransparentImage	"02879e00-cb66-11d1-bc43-0060b0a13dc 4"
Extrude	'Extr'
Facet	'Fct '
Fade	'Fade'
Feather	'Fthr'
Fibers	'Fbrs'
Fill	'Fl '
FilmGrain	'FlmG'
Filter	'Fltr'
FindEdges	'FndE'
FitImage	"3caa3434-cb67-11d1-bc43-0060b0a13dc 4"
FlattenImage	'FltI'
Flip	'Flip'
Fragment	'Frgm'

Event	4-char ID or String
Fresco	'Frsc'
GaussianBlur	'GsnB'
Get	'getd'
Glass	'Gls '
GlowingEdges	'GlwE'
Gradient	'Grdn'
GradientMap	'GrMp'
Grain	'Grn '
GraphicPen	'GraP'
Group	'GrpL'
Grow	'Grow'
HalftoneScreen	'Hlfs'
Hide	'Hd '
HighPass	'HghP'
HSBHSL	'HsbP'
HueSaturation	'HStr'
ImageSize	'ImgS'
Import	'Impr'
InkOutlines	'InkO'
Intersect	'Intr'
IntersectWith	'IntW'
Inverse	'Invs'
Invert	'Invr'
LensFlare	'LnsF'
Levels	'Lvls'
LightingEffects	'LghE'
Link	'Lnk '
Make	'Mk '
Maximum	'Mxm '
Median	'Mdn '
MergeLayers	'Mrg2'
MergeLayersOld	'MrgL'
MergeSpotChannel	'MSpt'

Event	4-char ID or String
MergeVisible	'MrgV'
Mezzotint	'Mztn'
Minimum	'Mnm '
ModeChange	"8cba8cd6-cb66-11d1-bc43-0060b0a13dc 4"
Mosaic	'Msc '
Mosaic_PLUGIN	'MscT'
MotionBlur	'MtnB'
Move	'move'
NTSCColors	'NTSC'
NeonGlow	'NGlw'
Next	'Nxt '
NotePaper	'NtPr'
Notify	'Ntfy'
Null	typeNull
OceanRipple	'OcnR'
Offset	'Ofst'
Open	'Opn '
Paint	'Pnt '
PaintDaubs	'PntD'
PaletteKnife	'PltK'
Paste	'past'
PasteEffects	'PaFX'
PasteInto	'PstI'
PasteOutside	'PstO'
Patchwork	'Ptch'
Photocopy	'Phtc'
PicturePackage	"4C1ABF40-DD82-11d2-B20F-0008C75B322 C"
Pinch	'Pnch'
Place	'Plc '
Plaster	'Plst'
PlasticWrap	'PlsW'
Play	'Ply '

Event	4-char ID or String
Pointillize	'Pntl'
Polar	'Plr '
PosterEdges	'PstE'
Posterize	'Pstr'
Previous	'Prvs'
Print	'Prnt'
ProfileToProfile	'PrfT'
Purge	'Prge'
Quit	'quit'
RadialBlur	'RdlB'
Rasterize	'Rstr'
RasterizeTypeSheet	'RstT'
RemoveBlackMatte	'RmvB'
RemoveLayerMask	'RmvL'
RemoveWhiteMatte	'RmvW'
Rename	'Rnm '
ReplaceColor	'RplC'
Reset	'Rset'
ResizeImage	"1333cf0c-cb67-11d1-bc43-0060b0a13dc 4"
Reticulation	'Rtcl'
Revert	'Rvrt'
Ripple	'Rple'
Rotate	'Rtte'
RoughPastels	'RghP'
Save	'save'
Select	'slct'
SelectiveColor	'SlcC'
Set	'setd'
SharpenEdges	'ShrE'
Sharpen	'Shrp'
SharpenMore	'ShrM'
Shear	'Shr '
Show	'Shw '

Event	4-char ID or String
Similar	'Smlr'
SmartBlur	'SmrB'
Smooth	'Smth'
SmudgeStick	'SmdS'
Solarize	'Slrz'
Spatter	'Spt '
Spherize	'Sphr'
SplitChannels	'SplC'
Sponge	'Spng'
SprayedStrokes	'SprS'
StainedGlass	'StnG'
Stamp	'Stmp'
Stop	'Stop'
Stroke	'Strk'
Subtract	'Sbtr'
SubtractFrom	'SbtF'
Sumie	'Smie'
TakeMergedSnapshot	'TkMr'
TakeSnapshot	'TkSn'
TextureFill	'TxtF'
Texturizer	'Txtz'
Threshold	'Thrs'
Tiles	'Tls '
TornEdges	'TrnE'
TraceContour	'TrcC'
Transform	'Trnf'
Trap	'Trap'
Twirl	'Twrl'
Underpainting	'Undr'
Undo	'undo'
Ungroup	'Ungr'
Unlink	'Unlk'
UnsharpMask	'UnsM'

Event	4-char ID or String
Variations	'Vrtn'
Wait	'Wait'
WaterPaper	'WtrP'
Watercolor	'Wtrc'
Wave	'Wave'
Wind	'Wnd '
ZigZag	'ZgZg'
BackLight	'BacL'
FillFlash	'FilE'
ColorCast	'ColE'

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