



Interapplication Communication API Reference

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Adobe® Acrobat® SDK

Version 8.0

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Adobe® Acrobat® SDK 8.0 Interapplication Communication API Reference for Microsoft® Windows® and Mac OS®.

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Preface

The Adobe® Acrobat® Software Development Kit (SDK) provides a set of Acrobat core API calls for creating plug-ins and other programs. You can use a subset of these calls for implementing interapplication communication (IAC) functionality and PDF browser controls. These Acrobat calls support OLE automation, DDE interapplication interfaces, and Apple events, including the use of AppleScript.

What's in this guide?

This document provides a detailed reference of all the calls needed for OLE, DDE, and Apple events.

There is no IAC support for the UNIX® versions of Acrobat. There is no IAC support in the Japanese version of Acrobat.

Who should read this guide?

This guide is for developers that want to communicate with Acrobat from another application or render Adobe PDF files in their own application, or who are writing plug-ins that need to communicate with or use multiple applications.

You should already be familiar with at least one of OLE, DDE, Apple events, or AppleScript. You should also be familiar with the Acrobat core API. Many of the IAC capabilities are actually a subset of those provided in the Acrobat core API, and many of the IAC messages are similar to core API methods.

Related documentation

For information about	See
A guide to the documentation in the Acrobat SDK	<i>Acrobat SDK Documentation Roadmap</i>
A guide to the sections of the Acrobat SDK that pertain to Adobe Reader®	<i>Developing for Adobe Reader</i>
A guide to the sample code included with the Acrobat SDK	<i>Guide to SDK Samples</i>
Prototyping code without the overhead of writing and verifying a complete plug-in or application	<i>Snippet Runner Cookbook</i>
Using DDE, OLE, Apple events, and AppleScript to control Acrobat and Adobe Reader and to render PDF documents	<i>Developing Applications Using Interapplication Communication</i>
Using JavaScript™ to develop and enhance standard workflows in Acrobat and Adobe Reader	<i>Developing Acrobat Applications Using JavaScript</i>
Detailed descriptions of JavaScript APIs for developing and enhancing workflows in Acrobat and Adobe Reader	<i>JavaScript for Acrobat API Reference</i>

For information about	See
A detailed description of the PDF file format	<i>PDF Reference</i>
Developing plug-ins for Acrobat and Adobe Reader, as well as for PDF Library applications	<i>Developing Plug-ins and Applications</i>
Detailed descriptions of the APIs for Acrobat and Adobe Reader plug-ins, as well as for PDF Library applications	<i>Acrobat and PDF Library API Reference</i>

1

OLE Automation

This chapter describes the objects, data types, and methods in the OLE automation interface.

The names `AcroExch.App` and `AxAcroPDFLib.AxAcroPDF` are the external strings OLE clients use to create objects of certain types. The Acrobat developer type libraries call them `CACro.App` and `AcroPDFLib`, respectively.

Acrobat supports dual interfaces, so the methods all have a return type of `HResult`.

The following table summarize the available objects and data types.

Object	Description
AcroExch.App	The application itself.
AcroExch.AVDoc	A document as seen in the user interface.
AcroExch.PDDoc	The underlying PDF representation of a document.
AcroExch.HiliteList	An entry in a highlight list.
AcroExch.AVPageView	The area of the window that displays the contents of a page.
AcroExch.PDPage	A single page in the PDF representation of a document.
AcroExch.PDAnnot	An annotation on a page in the PDF file.
AcroExch.PDBookmark	A bookmark in a PDF file.
AcroExch.PDTextSelect	A selection of text on a single page.
AxAcroPDFLib.AxAcroPDF	An object containing PDF browser controls.
AcroExch.Point	A point, specified by its x-coordinate and y-coordinate.
AcroExch.Rect	A rectangle, specified by the top-left and bottom-right points.
AcroExch.Time	A specified time, accurate to the millisecond.

AcroExch.App

The Acrobat application itself. This is a creatable interface. From the application layer, you can control the appearance of Acrobat, whether Acrobat appears, and the size of the application window. This object provides access to the menu bar and the toolbar, as well as the visual representation of a PDF file on the screen (through an `AVDoc` object).

Methods

The `App` object has the following methods.

Method	Description
CloseAllDocs	Closes all open documents.
Exit	Exits Acrobat.
GetActiveDoc	Gets the frontmost document.
GetActiveTool	Gets the name of the currently active tool.
GetAVDoc	Gets an <code>AcroExch.AVDoc</code> object via its index within the list of open <code>AVDoc</code> objects.
GetFrame	Gets the window's frame.
GetInterface	Gets an <code>IDispatch</code> interface for a named object, typically a third-party plug-in.
GetLanguage	Gets a code that specifies which language the Acrobat application's user interface is using.
GetNumAVDocs	Gets the number of open <code>AcroExch.AVDoc</code> objects.
GetPreference	Gets a value from the preferences file.
GetPreferenceEx	Gets the specified application preference, using the <code>VARIANT</code> type to pass values.
Hide	Hides the Acrobat application.
Lock	Locks the Acrobat application.
Minimize	Minimizes the Acrobat application.
Maximize	Maximizes the Acrobat application.
MenuItemExecute	Executes the menu item whose language-independent menu item name is specified.
MenuItemIsEnabled	Determines whether the specified menu item is enabled.
MenuItemIsMarked	Determines whether the specified menu item is marked.
MenuItemRemove	Removes the menu item whose language-independent menu item is specified.
Restore	Restores the main window of the Acrobat application.
SetActiveTool	Sets the active tool according to the specified name, and determines whether the tool is to be used only once or should remain active after being used (persistent).
SetFrame	Sets the window's frame to the specified rectangle.

Method	Description
SetPreference	Sets a value in the preferences file.
SetPreferenceEx	Sets the application preference specified by nType to the value stored at pVal.
Show	Shows the Acrobat application.
ToolButtonIsEnabled	Determines whether the specified toolbar button is enabled.
ToolButtonRemove	Removes the specified button from the toolbar.
Unlock	Unlocks the Acrobat application if it was previously locked.
UnlockEx	Unlocks the Acrobat application if it was previously locked.

CloseAllDocs

Closes all open documents. You can close each individual AVDoc object by calling AVDoc . [Close](#).

You must explicitly close all documents or call App . CloseAllDocs. Otherwise, the process never exits.

Syntax

```
VARIANT_BOOL CloseAllDocs ();
```

Returns

-1 if successful, 0 if not.

Related methods

AVDoc . [Close](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindow](#)

AVDoc . [OpenInWindowEx](#)

PDDoc . [Close](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

Exit

Exits Acrobat. Applications should call App . Exit before exiting.

Note: Use App . [CloseAllDocs](#) to close all the documents before calling this method.

Syntax

```
VARIANT_BOOL Exit ();
```

Returns

Returns -1 if the entire shutdown process succeeded. This includes closing any open documents, releasing OLE references, and finally exiting the application. If any step fails, the function returns 0, and the application continues running. This method does not work if the application is visible (if the user is in control of the application). In such cases, if the `Show` method had previously been called, you can call `Hide` and then `Exit`.

Related methods

App . [CloseAllDocs](#)

GetActiveDoc

Gets the frontmost document.

Syntax

```
LPDISPATCH GetActiveDoc ();
```

Returns

The `LPDISPATCH` for the frontmost `AcroExch.AVDoc` object. If there are no documents open, it returns `NULL`.

Related methods

App . [GetAVDoc](#)

GetActiveTool

Gets the name of the currently active tool.

Syntax

```
BSTR GetActiveTool ();
```

Returns

Returns `NULL` if there is no active tool. Returns the name of the currently active tool otherwise. See the *Acrobat and PDF Library API Reference* for a list of tool names.

Related methods

App . [SetActiveTool](#)

GetAVDoc

Gets an `AcroExch.AVDoc` object from its index within the list of open `AVDoc` objects. Use `App.GetNumAVDocs` to determine the number of `AcroExch.AVDoc` objects.

Syntax

```
LPDISPATCH GetAVDoc (long nIndex) ;
```

Parameters

<code>nIndex</code>	The index of the document to get.
---------------------	-----------------------------------

Returns

The `LPDISPATCH` for the specified `AcroExch.AVDoc` document, or `NULL` if `nIndex` is greater than the number of open documents.

Related methods

`App`. [GetActiveTool](#)

GetFrame

Gets the window's frame.

`GetFrame` is not useful when the PDF file was opened with `AVDoc.OpenInWindow`. `GetFrame` returns the application window's frame (not the document window's frame). However, the application's window is hidden when a document is opened using [OpenInWindow](#), and does not change in size as document windows are moved and resized.

This method is also not useful if the Acrobat application is in single document interface (SDI) mode.

Syntax

```
LPDISPATCH GetFrame () ;
```

Returns

The `LPDISPATCH` for the window's frame, specified as an `AcroExch.Rect`.

If the Acrobat application is in SDI mode, a `[0,0,0,0]` `Rect` is returned.

Related methods

`App`. [Maximize](#)

`App`. [SetFrame](#)

GetInterface

Gets an `IDispatch` interface for a named object, typically a third-party plug-in. This is an entry point to functionality that is undefined and which must be provided by the plug-in author. If you are accessing third-party functionality through `GetInterface`, ask the author for additional information.

Syntax

```
LPDISPATCH GetInterface (BSTR szName);
```

Parameters

<code>szName</code>	Name of the object.
---------------------	---------------------

Returns

The `LPDISPATCH` for the object's interface or `NULL` if the object was not found.

GetLanguage

Gets a code that specifies which language the Acrobat application's user interface is using.

Syntax

```
BSTR GetLanguage ();
```

Returns

String containing a three-letter language code. Must be one of the following:

- DEU – German
- ENU – English
- ESP – Spanish
- FRA – French
- ITA – Italian
- NLD – Dutch
- SVE – Swedish

Related methods

App.[GetPreference](#)

App.[SetPreference](#)

GetNumAVDocs

Gets the number of open `AcroExch.AVDoc` objects. The maximum number of documents the Acrobat application can open at a time is specified by the `avpMaxOpenDocuments` preference, which can be obtained with `App.GetPreferenceEx` and set by `App.SetPreferenceEx`.

Syntax

```
long GetNumAVDocs ();
```

Returns

The number of open `AcroExch.AVDoc` objects.

Related methods

`App.GetActiveDoc`

`App.GetAVDoc`

GetPreference

Note: This method is deprecated; use [GetPreferenceEx](#) instead. `GetPreference` is unable to accept important data types such as strings, but [GetPreferenceEx](#) can convert many data types into acceptable formats.

Gets a value from the preferences file. Zoom values (used in `avpDefaultZoomScale` and `avpMaxPageCacheZoom`) are returned as percentages (for example, 1.00 is returned as 100). Colors (used in `avpNoteColor -- PDcolorValue`) are automatically converted to RGB values from the representation used in the preferences file.

Syntax

```
long GetPreference (short nType);
```

Parameters

nType	The preferences item whose value is set. See the <i>Acrobat and PDF Library API Reference</i> for a list of preference items.
-------	---

Returns

The value of the specified preference item.

Related methods

`App.GetLanguage`

`App.SetPreference`

GetPreferenceEx

Gets the specified application preference, using the VARIANT type to pass values.

Syntax

```
VARIANT GetPreferenceEx(short nType);
```

Parameters

nType	The name of the preferences item whose value is obtained.
-------	---

Returns

The value of the specified preference item.

Related methods

App . [GetLanguage](#)

App . [SetPreferenceEx](#)

Hide

Hides the Acrobat application. When the viewer is hidden, the user has no control over it, and the Acrobat application exits when the last automation object is closed.

Syntax

```
VARIANT_BOOL Hide ();
```

Returns

-1 if successful, 0 if not.

Related methods

App . [Show](#)

Lock

Locks the Acrobat application. Typically, this method is called when using AVDoc . [OpenInWindowEx](#) to draw into another application's window. If you call App . Lock, you should call App . [UnlockEx](#) when you are done using OLE automation.

There are some advantages and disadvantages of locking the viewer when using AVDoc . [OpenInWindowEx](#). You must consider these before deciding whether to lock the viewer:

- Locking prevents problems that can sometimes occur if two processes are trying to open a file at the same time.

- Locking prevents a user from using Acrobat's user interface (such as adding annotations) in your application's window.
- Locking can prevent any other application, including the Acrobat application, from opening PDF files. This problem can be minimized by calling `App.UnlockEx` as soon as the file has been opened.

Syntax

```
VARIANT_BOOL Lock (BSTR szLockedBy) ;
```

Parameters

<code>szLockedBy</code>	A string that is used as the name of the application that has locked the Acrobat application.
-------------------------	---

Returns

-1 if the Acrobat application was locked successfully, 0 otherwise. Locking fails if the Acrobat application is visible.

Related methods

`App.UnlockEx`

Minimize

Minimizes the Acrobat application.

Syntax

```
VARIANT_BOOL Minimize (long BMinimize) ;
```

Parameters

<code>BMinimize</code>	If a positive number, the Acrobat application is minimized. If 0, the Acrobat application is returned to its normal state.
------------------------	--

Returns

-1 if successful, 0 if not.

Related methods

`App.GetFrame`

`App.SetFrame`

Maximize

Maximizes the Acrobat application.

Syntax

```
VARIANT_BOOL Maximize (long bMaximize);
```

Parameters

bMaximize	If a positive number, the Acrobat application is maximized. If 0, the Acrobat application is returned to its normal state.
-----------	--

Returns

-1 if successful, 0 if not.

Related methods

App.[GetFrame](#)

App.[SetFrame](#)

MenuItemExecute

Executes the menu item whose language-independent menu item name is specified.

Syntax

```
VARIANT_BOOL MenuItemExecute (BSTR szMenuItemName);
```

Parameters

szMenuItemName	The language-independent name of the menu item to execute. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
----------------	--

Returns

Returns -1 if the menu item executes successfully, or 0 if the menu item is missing or is not enabled.

Related methods

App.[MenuItemIsEnabled](#)

App.[MenuItemIsMarked](#)

App.[MenuItemRemove](#)

MenuItemIsEnabled

Determines whether the specified menu item is enabled.

Syntax

```
VARIANT_BOOL MenuItemIsEnabled(BSTR szMenuItemName);
```

Parameters

szMenuItemName	The language-independent name of the menu item whose enabled state is obtained. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
----------------	---

Returns

-1 if the menu item is enabled, 0 if it is disabled or does not exist.

Related methods

App.[MenuItemExecute](#)

App.[MenuItemIsMarked](#)

App.[MenuItemRemove](#)

MenuItemIsMarked

Determines whether the specified menu item is marked.

Syntax

```
VARIANT_BOOL MenuItemIsMarked(BSTR szMenuItemName);
```

Parameters

szMenuItemName	The language-independent name of the menu item whose marked state is obtained. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
----------------	--

Returns

-1 if the menu item is marked, 0 if it is not marked or does not exist.

Related methods

App.[MenuItemExecute](#)

App.[MenuItemIsEnabled](#)

App.[MenuItemRemove](#)

MenuItemRemove

Removes the menu item whose language-independent menu item is specified.

Syntax

```
VARIANT_BOOL MenuItemRemove (BSTR szMenuItemName) ;
```

Parameters

szMenuItemName	The language-independent name of the menu item to remove. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
----------------	---

Returns

-1 if the menu item was removed, 0 if the menu item does not exist.

Related methods

App.[MenuItemExecute](#)

App.[MenuItemIsEnabled](#)

App.[MenuItemIsMarked](#)

Restore

Restores the main window of the Acrobat application. Calling this with `bRestore` set to a positive number causes the main window to be restored to its original size and position and to become active.

Syntax

```
VARIANT_BOOL Restore (long bRestore) ;
```

Parameters

bRestore	If a positive number, the Acrobat application is restored, 0 otherwise.
----------	---

Returns

-1 if successful, 0 if not.

Related methods

App.[GetFrame](#)

App.[SetFrame](#)

SetActiveTool

Sets the active tool according to the specified name, and determines whether the tool is to be used only once or should remain active after being used (persistent).

Syntax

```
VARIANT_BOOL SetActiveTool (BSTR szButtonName,  
                             long bPersistent);
```

Parameters

szButtonName	The name of the tool to set as the active tool. See the <i>Acrobat and PDF Library API Reference</i> for a list of tool names.
bPersistent	A request indicating whether the tool should be persistent. A positive number indicates a request to the Acrobat application for the tool to remain active after it has been used. If 0 is specified, the Acrobat application reverts to the previously active tool after this tool is used once.

Returns

-1 if the tool was set, 0 otherwise.

Related methods

App.[SetActiveTool](#)

App.[ToolButtonIsEnabled](#)

App.[ToolButtonRemove](#)

SetFrame

Sets the window's frame to the specified rectangle. This method has no effect if the Acrobat application is in single document interface (SDI) mode.

Syntax

```
VARIANT_BOOL SetFrame (LPDISPATCH iAcroRect);
```

Parameters

iAcroRect	The LPDISPATCH for an <code>AcroExch.Rect</code> specifying the window frame. <code>iAcroRect</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
-----------	--

Returns

-1 if the frame was set, 0 if `iAcroRect` is not of type `AcroExch.Rect`.

Related methods

App.[GetFrame](#)

App.[Maximize](#)

SetPreference

Note: This method is deprecated; use [SetPreferenceEx](#) instead. `SetPreference` is unable to accept important data types such as strings, but [SetPreferenceEx](#) can convert many data types into acceptable formats.

Sets a value in the preferences file. Zoom values (used in `avpDefaultZoomScale` and `avpMaxPageCacheZoom`) must be passed as percentages and are automatically converted to fixed point numbers (for example, 100 is automatically converted to 1.0). Colors (used in `avpHighlightColor` or `avpNoteColor`) are automatically converted from RGB values to the representation used in the preferences file.

Syntax

```
VARIANT_BOOL SetPreference(short nType, long nValue);
```

Parameters

<code>nType</code>	The preferences item whose value is set. See the <i>Acrobat and PDF Library API Reference</i> for a list of preference items.
<code>nValue</code>	The value to set.

Returns

-1 if successful, 0 if not.

Related methods

App.[GetLanguage](#)

App.[GetPreferenceEx](#)

SetPreferenceEx

Sets the application preference specified by `nType` to the value stored at `pVal`. If `pVal` has a non-conforming `VARTYPE`, `SetPreferenceEx` performs type conversion. For example, a string representation of an integer is converted to an actual integer.

Syntax

```
VARIANT_BOOL SetPreferenceEx(short nType, VARIANT* pVal);
```

Parameters

nType	The preferences item whose value is set. See the <i>Acrobat and PDF Library API Reference</i> for a list of preference items.
pVal	The value to set.

Returns

Returns -1 if nType is a supported type or the type conversion is successful, 0 otherwise.

Related methods

App.[GetLanguage](#)

App.[GetPreferenceEx](#)

Show

Shows the Acrobat application. When the viewer is shown, the user is in control, and the Acrobat application does not automatically exit when the last automation object is destroyed. However, it will exit if no documents are being displayed.

Syntax

```
VARIANT_BOOL Show();
```

Returns

-1 if successful, 0 if not.

Related methods

App.[Hide](#)

ToolButtonIsEnabled

Determines whether the specified toolbar button is enabled.

Syntax

```
VARIANT_BOOL ToolButtonIsEnabled(BSTR szButtonName);
```

Parameters

szButtonName	The name of the button whose enabled state is checked. See the <i>Acrobat and PDF Library API Reference</i> for a list of toolbar button names.
--------------	---

Returns

-1 if the button is enabled, 0 if it is not enabled or does not exist.

Related methods

App . [GetActiveTool](#)

App . [SetActiveTool](#)

App . [ToolButtonRemove](#)

ToolButtonRemove

Removes the specified button from the toolbar.

Syntax

```
VARIANT_BOOL ToolButtonRemove (BSTR szButtonName) ;
```

Parameters

szButtonName	The name of the button to remove. See the <i>Acrobat and PDF Library API Reference</i> for a list of toolbar button names.
--------------	--

Returns

-1 if the button was removed, 0 otherwise.

Related methods

App . [GetActiveTool](#)

App . [SetActiveTool](#)

App . [ToolButtonIsEnabled](#)

Unlock

Note: In version 4.0 or later, use App . [UnlockEx](#) instead.

Unlocks the Acrobat application if it was previously locked. This method clears a flag that indicates the viewer is locked. If you called App . [Lock](#), you should call App . [Unlock](#) when you are done using OLE automation.

Use App . [Lock](#) and App . [UnlockEx](#) if you call [OpenInWindow](#).

Typically, you call App . [Lock](#) when your application initializes and App . [Unlock](#) in your application's destructor method.

Syntax

```
VARIANT_BOOL Unlock ();
```

Returns

-1 if successful, 0 if not.

Related methods

App.[Lock](#)

App.[UnlockEx](#)

UnlockEx

Unlocks the Acrobat application if it was previously locked.

Syntax

```
VARIANT_BOOL UnlockEx (BSTR szLockedBy);
```

Parameters

szLockedBy	A string indicating the name of the application to be unlocked.
------------	---

Returns

-1 if successful, 0 if not.

Related methods

App.[Lock](#)

AcroExch.AVDoc

A view of a PDF document in a window. This is a creatable interface. There is one AVDoc object per displayed document. Unlike a PDDoc object, an AVDoc object has a window associated with it.

Methods

The AVDoc object has the following methods.

Method	Description
BringToFront	Brings the window to the front.
ClearSelection	Clears the current selection.
Close	Closes a document.

Method	Description
FindText	Finds the specified text, scrolls so that it is visible, and highlights it.
GetAVPageView	Gets the <code>AcroExch.AVPageView</code> associated with an <code>AcroExch.AVDoc</code> .
GetFrame	Gets the rectangle specifying the window's size and location.
GetPDDoc	Gets the <code>AcroExch.PDDoc</code> associated with an <code>AcroExch.AVDoc</code> .
GetTitle	Gets the window's title.
GetViewMode	Gets the current document view mode (pages only, pages and thumbnails, or pages and bookmarks).
IsValid	Determines whether the <code>AcroExch.AVDoc</code> is still valid.
Maximize	Maximizes the window if <code>bMaxSize</code> is a positive number.
Open	Opens a file.
OpenInWindow	Opens a PDF file and displays it in a user-specified window.
OpenInWindowEx	Opens a PDF file and displays it in a user-specified window.
PrintPages	Prints a specified range of pages displaying a print dialog box.
PrintPagesEx	Prints a specified range of pages, displaying a print dialog box.
PrintPagesSilent	Prints a specified range of pages without displaying any dialog box.
PrintPagesSilentEx	Prints a specified range of pages without displaying any dialog box.
SetFrame	Sets the window's size and location.
SetTextSelection	Sets the document's selection to the specified text selection.
SetTitle	Sets the window's title.
SetViewMode	Sets the mode in which the document will be viewed (pages only, pages and thumbnails, or pages and bookmarks)
ShowTextSelect	Changes the view so that the current text selection is visible.

BringToFront

Brings the window to the front.

Syntax

```
VARIANT_BOOL BringToFront ();
```

Returns

Returns 0 if no document is open, -1 otherwise.

ClearSelection

Clears the current selection.

Syntax

```
VARIANT_BOOL ClearSelection();
```

Returns

Returns -1 if the selection was cleared, 0 if no document is open or the selection could not be cleared.

Related methods

AVDoc.[SetTextSelection](#)

AVDoc.[ShowTextSelect](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreatePageHilite](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

PDTextSelect.[GetText](#)

Close

Closes a document. You can close all open AVDoc objects by calling App.[CloseAllDocs](#).

To reuse an AVDoc object, close it with AVDoc.[Close](#), then use the AVDoc object's LPDISPATCH for AVDoc.[OpenInWindow](#).

Syntax

```
VARIANT_BOOL Close(long bNoSave);
```

Parameters

bNoSave	If a positive number, the document is closed without saving it. If 0 and the document has been modified, the user is asked whether or not the file should be saved.
---------	---

Returns

Always returns -1, even if no document is open.

Related methods

App . [CloseAllDocs](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindow](#)

AVDoc . [OpenInWindowEx](#)

PDDoc . [Close](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

FindText

Finds the specified text, scrolls so that it is visible, and highlights it.

Syntax

```
VARIANT_BOOL FindText (BSTR szText, long bCaseSensitive, long bWholeWordsOnly,  
long bReset);
```

Parameters

szText	The text to be found.
bCaseSensitive	If a positive number, the search is case-sensitive. If 0, it is case-insensitive.
bWholeWordsOnly	If a positive number, the search matches only whole words. If 0, it matches partial words.
bReset	If a positive number, the search begins on the first page of the document. If 0, it begins on the current page.

Returns

-1 if the text was found, 0 otherwise.

GetAVPageView

Gets the AcroExch.AVPageView associated with an AcroExch.AVDoc.

Syntax

```
LPCDISPATCH GetAVPageView();
```

Returns

The `LPDISPATCH` for the `AcroExch.AVPageView` or `NULL` if no document is open.

Related methods

`AVDoc`. [GetPDDoc](#)

`AVDoc`. [SetViewMode](#)

`AVPageView`. [GetAVDoc](#)

`AVPageView`. [GetDoc](#)

GetFrame

Gets the rectangle specifying the window's size and location.

Syntax

```
LPDISPATCH GetFrame ();
```

Returns

The `LPDISPATCH` for an `AcroExch.Rect` containing the frame, or `NULL` if no document is open.

Related methods

`AVDoc`. [SetFrame](#)

GetPDDoc

Gets the `AcroExch.PDDoc` associated with an `AcroExch.AVDoc`.

Syntax

```
LPDISPATCH GetPDDoc ();
```

Returns

The `LPDISPATCH` for the `AcroExch.PDDoc` or `NULL` if no document is open.

Related methods

`AVDoc`. [GetAVPageView](#)

`AVPageView`. [GetAVDoc](#)

`AVPageView`. [GetDoc](#)

GetTitle

Gets the window's title.

Syntax

```
BSTR GetTitle();
```

Returns

The window's title or `NULL` if no document is open.

Related methods

AVDoc.[Open](#)

AVDoc.[SetTitle](#)

PDDoc.[OpenAVDoc](#)

GetViewMode

Gets the current document view mode (pages only, pages and thumbnails, or pages and bookmarks).

Syntax

```
long GetViewMode();
```

Returns

The current document view mode or 0 if no document is open. The return value is one of the following:

PDDontCare: 0 — leave the view mode as it is

PDUseNone: 1 — display without bookmarks or thumbnails

PDUseThumbs: 2 — display using thumbnails

PDUseBookmarks: 3 — display using bookmarks

PDFullScreen: 4 — display in full screen mode

Related methods

AVDoc.[GetAVPageView](#)

AVDoc.[SetViewMode](#)

IsValid

Determines whether the `AcroExch.AVDoc` is still valid. This method only checks if the document has been closed or deleted; it does not check the internal structure of the document.

Syntax

```
VARIANT_BOOL IsValid();
```

Returns

-1 if the document can still be used, 0 otherwise.

Related methods

App.[GetAVDoc](#)

AVPageView.[GetAVDoc](#)

Maximize

Maximizes the window if `bMaxSize` is a positive number.

Syntax

```
VARIANT_BOOL Maximize(long bMaxSize);
```

Parameters

<code>bMaxSize</code>	Indicates whether the window should be maximized.
-----------------------	---

Returns

-1 if a document is open, 0 otherwise.

Related methods

AVDoc.[GetFrame](#)

AVDoc.[SetFrame](#)

Open

Opens a file. A new instance of `AcroExch.AVDoc` must be created for each displayed PDF file.

Note: An application must explicitly close any `AVDoc` that it opens by calling `AVDoc.Close` (the destructor for the `AcroExch.AVDoc` class does not call `AVDoc.Close`).

Syntax

```
VARIANT_BOOL Open(BSTR szFullPath, BSTR szTempTitle);
```

Parameters

<code>szFullPath</code>	The full path of the file to open.
<code>szTempTitle</code>	An optional title for the window in which the file is opened. If <code>szTempTitle</code> is <code>NULL</code> or the empty string, it is ignored. Otherwise, <code>szTempTitle</code> is used as the window title.

Returns

-1 if the file was opened successfully, 0 otherwise.

Related methods

App . [CloseAllDocs](#)

AVDoc . [Close](#)

AVDoc . [GetTitle](#)

AVDoc . [OpenInWindow](#)

AVDoc . [OpenInWindowEx](#)

AVDoc . [SetTitle](#)

PDDoc . [Close](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

OpenInWindow

Note: As of Acrobat 3.0, this method simply returns `false`. Use the method `AVDoc . OpenInWindowEx` instead.

Syntax

```
VARIANT_BOOL OpenInWindow(BSTR fileName, short hWnd);
```

Parameters

fileName	The full path of the file to open.
hWnd	Handle for the window in which the file is displayed.

Returns

-1

Related methods

App . [CloseAllDocs](#)

AVDoc . [Close](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindowEx](#)

PDDoc . [Close](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

OpenInWindowEx

Opens a PDF file and displays it in a user-specified window. The default Windows file system is used to open the file.

Note: Acrobat uses only its built-in implementation of the file opening code—not any replacement file system version that a developer might have added with a plug-in.

An application must explicitly close any AVDoc that it opens by calling AVDoc . [Close](#) (the destructor for the AcroExch . AVDoc class does not call AVDoc . [Close](#)).

Do not set the view mode to [Close](#) with AVDoc . [SetViewMode](#) when using AVDoc . [OpenInWindowEx](#); this will cause the viewer and application to hang.

If you use a view mode of AV_PAGE_VIEW, the pagemode parameter will be ignored.

See AVApp . [Lock](#) for a discussion of whether to lock the viewer before making this call.

Syntax

```
VARIANT_BOOL OpenInWindowEx(LPCTSTR szFullPath, long hWnd,  
                             long openFlags, long useOpenParams  
                             long pgNum, short pageMode,  
                             short zoomType, long zoom, short top,  
                             short left);
```

Parameters

szFullPath	The full path of the file to open.
hWnd	Handle for the window in which the file is displayed.
openFlags	Type of window view. Must be one of the following: AV_EXTERNAL_VIEW — Display the AVPageView, scrollbars, toolbar, and bookmark or thumbnails pane. Annotations are active. AV_DOC_VIEW — Display the AVPageView, scrollbars, and bookmark or thumbnails pane. Annotations are active. AV_PAGE_VIEW — Display only the AVPageView (the window that displays the PDF file). Do not display scrollbars, the toolbar, and bookmark or thumbnails pane. Annotations are active. Note: Use either AV_DOC_VIEW or AV_PAGE_VIEW whenever possible. Use AV_EXTERNAL_VIEW only if you do not want the application to display its own toolbar. Use AV_PAGE_VIEW to open the file with no scrollbars and no status window at the bottom of the page.

<code>useOpenParams</code>	0 indicates that the open action of the file is used; a positive number indicates that the action is overridden with the parameters that follow.
<code>pgNum</code>	Page number at which the file is to be opened if <code>useOpenParams</code> is a positive number. The first page is zero.
<code>pageMode</code>	Specifies page view mode if <code>useOpenParams</code> is a positive number. Possible values: <code>PDDontCare</code> : 0 — leave the view mode as it is <code>PDUseNone</code> : 1 — display without bookmarks or thumbnails <code>PDUseThumbs</code> : 2 — display using thumbnails <code>PDUseBookmarks</code> : 3 — display using bookmarks <code>PDFullScreen</code> : 4 — display in full screen mode
<code>zoomType</code>	Zoom type of the page view if <code>useOpenParams</code> is a positive number. Possible values are: <code>AVZoomFitHeight</code> — Fits the page's height in the window. <code>AVZoomFitPage</code> — Fits the page in the window. <code>AVZoomFitVisibleWidth</code> — Fits the page's visible content into the window. <code>AVZoomFitWidth</code> — Fits the page's width into the window. <code>AVZoomNoVary</code> — A fixed zoom, such as 100%.
<code>zoom</code>	Zoom factor, used only for <code>AVZoomNoVary</code> if <code>useOpenParams</code> is a positive number.
<code>top</code>	Used for certain zoom types (such as <code>AVZoomNoVary</code>) if <code>useOpenParams</code> is a positive number. See the <i>PDF Reference</i> for information on views.
<code>left</code>	Used for certain zoom types (such as <code>AVZoomNoVary</code>) if <code>useOpenParams</code> is a positive number. See the <i>PDF Reference</i> for information on views.

Returns

-1 if the document was opened successfully, 0 otherwise.

Related methods

App . [CloseAllDocs](#)

AVDoc . [Close](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindow](#)

PDDoc . [Close](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

PrintPages

Prints a specified range of pages displaying a print dialog box. `PrintPages` always uses the default printer setting.

Syntax

```
VARIANT_BOOL PrintPages(long nFirstPage,  
                        long nLastPage, long nPSLevel,  
                        long bBinaryOk, long bShrinkToFit);
```

Parameters

<code>nFirstPage</code>	The first page to be printed. The first page in a <code>PDDoc</code> object is page 0.
<code>nLastPage</code>	The last page to be printed.
<code>nPSLevel</code>	Valid values are 2 and 3. If 2, PostScript® Level 2 operators are used. If 3, PostScript Language Level 3 operators are also used.
<code>bBinaryOk</code>	If a positive number, binary data can be included in the PostScript program. If 0, all data is encoded as 7-bit ASCII.
<code>bShrinkToFit</code>	If a positive number, the page is shrunk (if necessary) to fit within the imageable area of the printed page. If 0, it is not.

Returns

0 if there were any exceptions while printing or if no document was open, -1 otherwise.

Related methods

`AVDoc`. [PrintPagesEx](#)

`AVDoc`. [PrintPagesSilent](#)

`AVDoc`. [PrintPagesSilentEx](#)

PrintPagesEx

Prints a specified range of pages, displaying a print dialog box. `PrintPagesEx` has more parameters than `PrintPages`. `PrintPagesEx` always uses the default printer setting.

Syntax

```
VARIANT_BOOL printPagesEx(long nFirstPage, long nLastPage,  
                          long nPSLevel, long bBinaryOk,  
                          long bShrinkToFit, long bReverse,  
                          long bFarEastFontOpt, long bEmitHalftones,  
                          long iPageOption);
```


Parameters

nFirstPage	The first page to be printed. The first page in a PDDoc object is page 0.
nLastPage	The last page to be printed.
nPSLevel	If 2, PostScript Level 2 operators are used. If 3, PostScript Language Level 3 operators are also used.
bBinaryOk	If a positive number, binary data may be included in the PostScript program. If 0, all data is encoded as 7-bit ASCII.
bShrinkToFit	If a positive number, the page is shrunk (if necessary) to fit within the imageable area of the printed page. If 0, it is not.
bReverse	(PostScript printing only) If a positive number, print the pages in reverse order. If false, print the pages in the regular order.
bFarEastFontOpt	(PostScript printing only) Set to a positive number if the destination printer has multibyte fonts; set to 0 otherwise.
bEmitHalftones	(PostScript printing only) If a positive number, emit the halftones specified in the document. If 0, do not.
iPageOption	Pages in the range to print. Must be one of: PDAllPages, PDEvenPagesOnly, or PDOddPagesOnly.

Returns

0 if there were any exceptions while printing or if no document was open, -1 otherwise.

Related methods

AVDoc.[PrintPages](#)

AVDoc.[PrintPagesSilent](#)

AVDoc.[PrintPagesSilentEx](#)

PrintPagesSilent

Prints a specified range of pages without displaying any dialog box. This method is identical to AVDoc.[PrintPages](#) except for not displaying the dialog box. PrintPagesSilent always uses the default printer setting.

Syntax

```
VARIANT_BOOL PrintPagesSilent(long nFirstPage, long nLastPage,  
                               long nPSLevel, long bBinaryOk,  
                               long bShrinkToFit);
```

Parameters

nFirstPage	The first page to be printed. The first page in a PDDoc object is page 0.
nLastPage	The last page to be printed.
nPSLevel	If 2, PostScript Level 2 operators are used. If 3, PostScript Language Level 3 operators are also used.
bBinaryOk	If a positive number, binary data may be included in the PostScript program. If 0, all data is encoded as 7-bit ASCII.
bShrinkToFit	If a positive number, the page is shrunk (if necessary) to fit within the imageable area of the printed page. If 0, it is not.

Returns

0 if there were any exceptions while printing or if no document was open, -1 otherwise.

Related methods

AVDoc.[PrintPages](#)

AVDoc.[PrintPagesEx](#)

AVDoc.[PrintPagesSilentEx](#)

PrintPagesSilentEx

Prints a specified range of pages without displaying any dialog box. This method is identical to AVDoc.[PrintPagesEx](#) except for not displaying the dialog box. PrintPagesSilentEx has more parameters than PrintPagesSilent. PrintPagesSilentEx always uses the default printer setting.

Syntax

```
VARIANT_BOOL PrintPagesSilentEx(long nFirstPage,  
                                long nLastPage,  
                                long nPSLevel, long bBinaryOk,  
                                long bShrinkToFit, long bReverse,  
                                long bFarEastFontOpt,  
                                long bEmitHalftones,  
                                long iPageOption);
```

Parameters

nFirstPage	The first page to be printed.
nLastPage	The last page to be printed.
nPSLevel	If 2, PostScript Level 2 operators are used. If 3, PostScript Language Level 3 operators are also used.

bBinaryOk	If a positive number, binary data may be included in the PostScript program. If 0, all data is encoded as 7-bit ASCII.
bShrinkToFit	If a positive number, the page is shrunk (if necessary) to fit within the imageable area of the printed page. If 0, it is not.
bReverse	(PostScript printing only) If a positive number, print the pages in reverse order. If false, print the pages in the regular order.
bFarEastFontOpt	(PostScript printing only) Set to a positive number if the destination printer has multibyte fonts; set to 0 otherwise.
bEmitHalftones	(PostScript printing only) If a positive number, emit the halftones specified in the document. If 0, do not.
iPageOption	Pages in the range to print. Must be one of: PDAllPages, PDEvenPagesOnly, or PDOddPagesOnly.

Returns

0 if there were any exceptions while printing, -1 otherwise.

Related methods

AVDoc.[PrintPages](#)

AVDoc.[PrintPagesEx](#)

AVDoc.[PrintPagesSilentEx](#)

SetFrame

Sets the window's size and location.

Syntax

```
VARIANT_BOOL SetFrame (LPDISPATCH iAcroRect) ;
```

Parameters

iAcroRect	The LPDISPATCH for an AcroExch.Rect specifying the window frame. iAcroRect's instance variable m_lpDispatch contains this LPDISPATCH.
-----------	---

Returns

Always returns -1.

Related methods

AVDoc.[GetFrame](#)

SetTextSelection

Sets the document's selection to the specified text selection. Before calling this method, use one of the following to create the text selection:

PDDoc.[CreateTextSelect](#) — Creates from a rectangle.

PDPage.[CreatePageHilite](#) — Creates from a list of character offsets and counts.

PDPage.[CreateWordHilite](#) — Creates from a list of word offsets and counts.

After calling this method, use AVDoc.[ShowTextSelect](#) to show the selection.

Syntax

```
VARIANT_BOOL SetTextSelection(LPDISPATCH iAcroPDTextSelect);
```

Parameters

<code>iAcroPDTextSelect</code>	The LPDISPATCH for the text selection to use. <code>iAcroPDTextSelect</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
--------------------------------	--

Returns

Returns -1 if successful. Returns 0 if no document is open or the LPDISPATCH is not a PDTextSelect object.

Related methods

AVDoc.[ClearSelection](#)

AVDoc.[ShowTextSelect](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreatePageHilite](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

PDTextSelect.[GetText](#)

SetTitle

Sets the window's title.

Syntax

```
VARIANT_BOOL SetTitle (BSTR szTitle);
```

Parameters

szTitle	The title to be set. This method cannot be used for document windows, but only for windows created by plug-ins.
---------	---

Returns

Returns 0 if no document is open, -1 otherwise.

Related methods

AVDoc.[SetTitle](#)

AVDoc.[Open](#)

PDDoc.[OpenAVDoc](#)

SetViewMode

Sets the mode in which the document will be viewed (pages only, pages and thumbnails, or pages and bookmarks).

Syntax

```
VARIANT_BOOL SetViewMode (long nType);
```

Parameters

nType	The view mode to be set. Possible values: <ul style="list-style-type: none">PDDontCare: 0 — leave the view mode as it isPDUseNone: 1 — display without bookmarks or thumbnailsPDUseThumbs: 2 — display using thumbnailsPDUseBookmarks: 3 — display using bookmarks
-------	---

Note: Do not set the view mode to Close with AVDoc.SetViewMode when using AVDoc.OpenInWindowEx; this will cause the viewer and application to hang.

Returns

0 if an error occurred while setting the view mode or if no document was open, -1 otherwise.

Related methods

AVDoc.[GetAVPageView](#)

AVDoc.[GetViewMode](#)

ShowTextSelect

Changes the view so that the current text selection is visible.

Syntax

```
VARIANT_BOOL ShowTextSelect ();
```

Returns

Returns 0 if no document is open, -1 otherwise.

Related methods

AVDoc.[ClearSelection](#)

AVDoc.[SetTextSelection](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreatePageHilite](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

PDTextSelect.[GetText](#)

AcroExch.AVPageView

The area of the Acrobat application's window that displays the contents of a document's page. This is a non-creatable interface. Every `AVDoc` object has an `AVPageView` object and vice versa. The object provides access to the `PDDoc` and `PDPage` objects for the document being displayed.

Methods

The `AVPageView` object has the following methods.

Method	Description
DevicePointToPage	Converts the coordinates of a point from device space to user space.
DoGoBack	Goes to the previous view on the view history stack, if any.
DoGoForward	Goes to the next view on the view history stack, if any.
GetAperture	Gets the aperture of the specified page view.
GetAVDoc	Gets the <code>AcroExch.AVDoc</code> associated with the current page.
GetDoc	Gets the <code>AcroExch.PDDoc</code> corresponding to the current page.
GetPage	Gets the <code>AcroExch.PDPage</code> corresponding to the current page.
GetPageNum	Gets the page number of the current page.
GetZoom	Gets the current zoom factor, specified as a percent.
GetZoomType	Gets the current zoom type.
Goto	Goes to the specified page.
PointToDevice	Deprecated. Converts the coordinates of a point from user space to device space.
ReadPageDown	Scrolls forward through the document by one screen area.
ReadPageUp	Scrolls backward through the document by one screen area.
ScrollTo	Scrolls to the specified location on the current page.
ZoomTo	Zooms to the specified magnification.

DevicePointToPage

Converts the coordinates of a point from device space to user space.

Syntax

```
LPDISPATCH DevicePointToPage(LPDISPATCH iAcroPoint);
```

Parameters

<code>iAcroPoint</code>	The LPDISPATCH for the <code>AcroExch.Point</code> whose coordinates are converted. <code>iAcroPoint</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
-------------------------	---

Returns

The LPDISPATCH for an `AcroExch.Point` containing the converted coordinates.

Related methods

`AVPageView`. [PointToDevice](#)

DoGoBack

Goes to the previous view on the view history stack, if any.

Syntax

```
VARIANT_BOOL DoGoBack ();
```

Returns

Always returns -1.

Related methods

`AVPageView`. [DoGoForward](#)

DoGoForward

Goes to the next view on the view history stack, if any.

Syntax

```
VARIANT_BOOL DoGoForward ();
```

Returns

Always returns -1.

Related methods

`AVPageView`. [DoGoBack](#)

GetAperture

Gets the aperture of the specified page view. The aperture is the rectangular region of the window in which the document is drawn, measured in device space units.

Syntax

```
CAcroRect* GetAperture ();
```

Returns

A pointer to the aperture rectangle. Its coordinates are specified in device space.

Related methods

AVDoc.[GetAVPageView](#)

AVPageView.[GetAVDoc](#)

AVPageView.[GetDoc](#)

AVPageView.[GetPage](#)

AVPageView.[GetZoomType](#)

GetAVDoc

Gets the AcroExch.AVDoc associated with the current page.

Syntax

```
LPCDISPATCH GetAVDoc ();
```

Returns

The LPCDISPATCH for the AcroExch.AVDoc.

Related methods

AVDoc.[GetAVPageView](#)

AVDoc.[GetPDDoc](#)

AVPageView.[GetDoc](#)

GetDoc

Gets the AcroExch.PDDoc corresponding to the current page.

Syntax

```
LPCDISPATCH GetDoc ();
```

Returns

The LPDISPATCH for the AcroExch.PDDoc.

Related methods

AVDoc.[GetAVPageView](#)

AVDoc.[GetPDDoc](#)

AVPageView.[GetAVDoc](#)

GetPage

Gets the AcroExch.PDPage corresponding to the current page.

Syntax

```
LPDISPATCH GetPage ();
```

Returns

The LPDISPATCH for the AcroExch.PDPage.

Related methods

AVPageView.[GetPageNum](#)

PDDoc.[AcquirePage](#)

PDDoc.[GetNumPages](#)

PDPage.[GetDoc](#)

PDPage.[GetNumber](#)

PDPage.[GetRotate](#)

PDPage.[GetSize](#)

PDTextSelect.[GetPage](#)

GetPageNum

Gets the page number of the current page. The first page in a document is page zero.

Syntax

```
long GetPageNum ();
```

Returns

The current page's page number.

Related methods

AVPageView.[GetPage](#)

PDDoc.[AcquirePage](#)

PDDoc.[GetNumPages](#)

PDPage.[GetDoc](#)

PDPage.[GetNumber](#)

PDPage.[GetRotate](#)

PDPage.[GetSize](#)

PDTextSelect.[GetPage](#)

GetZoom

Gets the current zoom factor, specified as a percent. For example, 100 is returned if the magnification is 1.0.

Syntax

```
long GetZoom();
```

Returns

The current zoom factor.

Related methods

App.[GetPreference](#)

AVPageView.[GetZoomType](#)

AVPageView.[ZoomTo](#)

GetZoomType

Gets the current zoom type.

Syntax

```
short GetZoomType();
```

Returns

Zoom type. The value is one of the following:

- AVZoomFitHeight — Fits the page's height in the window.
- AVZoomFitPage — Fits the page in the window.
- AVZoomFitVisibleWidth — Fits the page's visible content into the window.
- AVZoomFitWidth — Fits the page's width into the window.
- AVZoomNoVary — A fixed zoom, such as 100%.

Related methods

App.[GetPreference](#)

AVPageView.[GetZoomType](#)

AVPageView.[ZoomTo](#)

Goto

Goes to the specified page.

Syntax

```
VARIANT_BOOL Goto(long nPage);
```

Parameters

nPage	Page number of the destination page. The first page in a PDDoc object is page 0.
-------	--

Returns

-1 if the Acrobat application successfully went to the page, 0 otherwise.

Related methods

AVPageView.[DoGoBack](#)

AVPageView.[DoGoForward](#)

AVPageView.[ReadPageDown](#)

AVPageView.[ReadPageUp](#)

AVPageView.[ScrollTo](#)

AVPageView.[ZoomTo](#)

PointToDevice

Converts the coordinates of a point from user space to device space.

Note: Deprecated. Do not use this method.

Syntax

```
LPDISPATCH PointToDevice (LPDISPATCH iAcroPoint) ;
```

Parameters

iAcroPoint	The LPDISPATCH for the AcroExch.Point whose coordinates are converted. iAcroPoint contains the instance variable m_lpDispatch, which contains this LPDISPATCH.
------------	--

Returns

The LPDISPATCH for an AcroExch.Point containing the converted coordinates.

Related methods

AVPageView.[DevicePointToPage](#)

ReadPageDown

Scrolls forward through the document by one screen area.

Syntax

```
VARIANT_BOOL ReadPageDown () ;
```

Returns

Always returns -1.

Related methods

AVPageView.[DoGoBack](#)

AVPageView.[DoGoForward](#)

AVPageView.[Goto](#)

AVPageView.[ReadPageUp](#)

AVPageView.[ScrollTo](#)

AVPageView.[ZoomTo](#)

ReadPageUp

Scrolls backward through the document by one screen area.

Syntax

```
VARIANT_BOOL ReadPageUp ();
```

Returns

Always returns -1.

Related methods

AVPageView.[DoGoBack](#)

AVPageView.[DoGoForward](#)

AVPageView.[Goto](#)

AVPageView.[ReadPageDown](#)

AVPageView.[ScrollTo](#)

AVPageView.[ZoomTo](#)

ScrollTo

Scrolls to the specified location on the current page.

Syntax

```
VARIANT_BOOL ScrollTo(short nX, short nY);
```

Parameters

nX	The x-coordinate of the destination.
----	--------------------------------------

nY	The y-coordinate of the destination.
----	--------------------------------------

Returns

-1 if the Acrobat application successfully scrolled to the specified location, 0 otherwise.

Related methods

AVPageView.[DoGoBack](#)

AVPageView.[DoGoForward](#)

AVPageView.[Goto](#)

AVPageView.[ReadPageDown](#)

AVPageView.[ReadPageUp](#)

AVPageView.[ZoomTo](#)

ZoomTo

Zooms to the specified magnification.

Syntax

```
VARIANT_BOOL ZoomTo(short nType, short nScale);
```

Parameters

nType	Zoom type. Possible values are: AVZoomFitHeight — Fits the page's height into the window. AVZoomFitPage — Fits the page into the window. AVZoomFitVisibleWidth — Fits the page's visible content into the window. AVZoomFitWidth — Fits the page's width into the window. AVZoomNoVary — A fixed zoom, such as 100%.
nScale	The desired zoom factor, expressed as a percentage. For example, 100 is a magnification of 1.0.

Returns

-1 if the magnification was set successfully, 0 otherwise.

Related methods

AVPageView.[GetZoomType](#)

AVPageView.[Goto](#)

AVPageView.[ScrollTo](#)

AcroExch.HiliteList

A highlighted region of text in a PDF document, which may include one or more contiguous groups of characters or words on a single page. This is a creatable interface. This object has a single method, `Add`, and is used by the `PDPage` object to create `PDTextSelect` objects.

Add

Adds the highlight specified by `nOffset` and `nLength` to the current highlight list. Highlight lists are used to highlight one or more contiguous groups of characters or words on a single page.

Highlight lists are used both for character-based and word-based highlighting, although a single highlight list cannot contain a mixture of character and word highlights. After creating a highlight list, use `PDPage.CreatePageHilite` or `PDPage.CreateWordHilite` (depending on whether the highlight list is used for characters or words) to create a text selection from the highlight list.

Syntax

```
VARIANT_BOOL Add(short nOffset, short nLength);
```

Parameters

<code>nOffset</code>	Offset of the first word or character to be highlighted, the first of which has an offset of zero.
<code>nLength</code>	The number of consecutive words or characters to be highlighted.

Returns

Always returns `-1`.

Related methods

`PDPage.CreatePageHilite`

`PDPage.CreateWordHilite`

AcroExch.PDAnnot

An annotation on a page in a PDF file. This is a non-creatable interface. Acrobat applications have two built-in annotation types: `PDTextAnnot` and `PDLinkAnnot`. The object provides access to the physical attributes of the annotation. Plug-ins may add movie and Widget (form field) annotations, and developers can define new annotation subtypes by creating new annotation handlers.

Methods

The `PDAnnot` object has the following methods.

Method	Description
GetColor	Gets an annotation's color.
GetContents	Gets a text annotation's contents.
GetDate	Gets an annotation's date.
GetRect	Gets an annotation's bounding rectangle.
GetSubtype	Gets an annotation's subtype.
GetTitle	Gets a text annotation's title.
IsEqual	Determines whether an annotation is the same as the specified annotation.
IsOpen	Tests whether a text annotation is open.
IsValid	Tests whether an annotation is still valid.
Perform	Performs a link annotation's action.
SetColor	Sets an annotation's color.
SetContents	Sets a text annotation's contents.
SetDate	Sets an annotation's date.
SetOpen	Opens or closes a text annotation.
SetRect	Sets an annotation's bounding rectangle.
SetTitle	Sets a text annotation's title.

GetColor

Gets an annotation's color.

Syntax

```
long GetColor();
```

Returns

The annotation's color, a long value of the form 0x00BBGGRR where the first byte from the right (RR) is a relative value for red, the second byte (GG) is a relative value for green, and the third byte (BB) is a relative value for blue. The high-order byte must be 0.

Related methods

PDAnnot . [SetColor](#)

GetContents

Gets a text annotation's contents.

Syntax

```
BSTR GetContents ();
```

Returns

The annotation's contents.

Related methods

PDAnnot . [SetContents](#)

PDAnnot . [GetDate](#)

PDAnnot . [GetRect](#)

PDAnnot . [GetSubtype](#)

PDAnnot . [GetTitle](#)

GetDate

Gets an annotation's date.

Syntax

```
LPDISPATCH GetDate ();
```

Returns

The LPDISPATCH for an `AcroExch.Time` object containing the date.

Related methods

PDAnnot . [GetContents](#)

PDAnnot . [GetRect](#)

PDAnnot . [GetSubtype](#)

PDAnnot . [GetTitle](#)

PDAnnot . [SetDate](#)

GetRect

Gets an annotation's bounding rectangle.

Syntax

```
LPDISPATCH GetRect ();
```

Returns

The LPDISPATCH for an `AcroExch.Rect` containing the annotation's bounding rectangle.

Related methods

PDAnnot.[GetContents](#)

PDAnnot.[GetDate](#)

PDAnnot.[GetSubtype](#)

PDAnnot.[GetTitle](#)

PDAnnot.[SetRect](#)

GetSubtype

Gets an annotation's subtype.

Syntax

```
BSTR GetSubtype ();
```

Returns

The annotation's subtype. The built-in subtypes are Text and Link.

Related methods

PDAnnot.[GetContents](#)

PDAnnot.[GetDate](#)

PDAnnot.[GetRect](#)

PDAnnot.[GetTitle](#)

GetTitle

Gets a text annotation's title.

Syntax

```
BSTR GetTitle ();
```

Returns

The annotation's title.

Related methods

PDAnnot . [GetContents](#)

PDAnnot . [GetDate](#)

PDAnnot . [GetRect](#)

PDAnnot . [GetSubtype](#)

PDAnnot . [SetTitle](#)

IsEqual

Determines whether an annotation is the same as the specified annotation.

Syntax

```
VARIANT_BOOL IsEqual (LPDISPATCH PDAnnot);
```

Parameters

PDAnnot	The LPDISPATCH for the AcroExch . PDAnnot to be tested. PDAnnot contains the instance variable m_lpDispatch, which contains the LPDISPATCH.
---------	---

Returns

-1 if the annotations are the same, 0 otherwise.

Related methods

PDAnnot . [GetContents](#)

PDAnnot . [GetDate](#)

PDAnnot . [GetRect](#)

PDAnnot . [GetSubtype](#)

PDAnnot . [SetTitle](#)

PDAnnot . [IsOpen](#)

PDAnnot . [IsValid](#)

IsOpen

Tests whether a text annotation is open.

Syntax

```
VARIANT_BOOL IsOpen ();
```

Returns

-1 if open, 0 otherwise.

Related methods

PDAnnot.[GetContents](#)

PDAnnot.[GetDate](#)

PDAnnot.[GetRect](#)

PDAnnot.[GetSubtype](#)

PDAnnot.[GetTitle](#)

PDAnnot.[IsEqual](#)

PDAnnot.[IsValid](#)

PDAnnot.[SetOpen](#)

IsValid

Tests whether an annotation is still valid. This method is intended only to test whether the annotation has been deleted, not whether it is a completely valid annotation object.

Syntax

```
VARIANT_BOOL IsValid();
```

Returns

-1 if the annotation is valid, 0 otherwise.

Related methods

PDAnnot.[GetContents](#)

PDAnnot.[GetDate](#)

PDAnnot.[GetRect](#)

PDAnnot.[GetSubtype](#)

PDAnnot.[GetTitle](#)

PDAnnot.[IsEqual](#)

PDAnnot.[IsOpen](#)

Perform

Performs a link annotation's action.

Syntax

```
VARIANT_BOOL Perform(LPDISPATCH iAcroAVDoc);
```

Parameters

<code>iAcroAVDoc</code>	The LPDISPATCH for the <code>AcroExch.AVDoc</code> in which the annotation is located. <code>iAcroAVDoc</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
-------------------------	--

Returns

-1 if the action was executed successfully, 0 otherwise.

Related methods

`PDAnnot`. [IsValid](#)

SetColor

Sets an annotation's color.

Syntax

```
VARIANT_BOOL SetColor(long nRGBColor);
```

Parameters

<code>nRGBColor</code>	The color to use for the annotation.
------------------------	--------------------------------------

Returns

-1 if the annotation's color was set, 0 if the Acrobat application does not support editing.

`nRGBColor` is a long value with the form `0x00BBGGRR` where the first byte from the right (RR) is a relative value for red, the second byte (GG) is a relative value for green, and the third byte (BB) is a relative value for blue. The high-order byte must be 0.

Related methods

`PDAnnot`. [GetColor](#)

`PDAnnot`. [SetContents](#)

`PDAnnot`. [SetDate](#)

PDAnnot . [SetOpen](#)

PDAnnot . [SetRect](#)

PDAnnot . [SetTitle](#)

SetContents

Sets a text annotation's contents.

Syntax

```
VARIANT_BOOL SetContents (BSTR szContents);
```

Parameters

szContents	The contents to use for the annotation.
------------	---

Returns

0 if the Acrobat application does not support editing, -1 otherwise.

Related methods

PDAnnot . [GetContents](#)

PDAnnot . [SetColor](#)

PDAnnot . [SetDate](#)

PDAnnot . [SetOpen](#)

PDAnnot . [SetRect](#)

PDAnnot . [SetTitle](#)

SetDate

Sets an annotation's date.

Syntax

```
VARIANT_BOOL SetDate (LPDISPATCH iAcroTime);
```

Parameters

iAcroTime	The LPDISPATCH for the date and time to use for the annotation. iAcroTime's instance variable m_lpDispatch contains this LPDISPATCH.
-----------	---

Returns

-1 if the date was set, 0 if the Acrobat application does not support editing.

Related methods

PDAnnot . [GetTitle](#)

PDAnnot . [SetColor](#)

PDAnnot . [SetContents](#)

PDAnnot . [SetOpen](#)

PDAnnot . [SetRect](#)

PDAnnot . [SetTitle](#)

SetOpen

Opens or closes a text annotation.

Syntax

```
VARIANT_BOOL SetOpen(long bIsOpen);
```

Parameters

bIsOpen	If a positive number, the annotation is open. If 0, the annotation is closed.
---------	---

Returns

Always returns -1.

Related methods

PDAnnot . [IsOpen](#)

PDAnnot . [SetColor](#)

PDAnnot . [SetContents](#)

PDAnnot . [SetDate](#)

PDAnnot . [SetRect](#)

PDAnnot . [SetTitle](#)

SetRect

Sets an annotation's bounding rectangle.

Syntax

```
VARIANT_BOOL SetRect (LPDISPATCH iAcroRect) ;
```

Parameters

iAcroRect	The LPDISPATCH for the bounding rectangle (AcroExch.Rect) to set. iAcroRect contains the instance variable m_lpDispatch, which contains the LPDISPATCH.
-----------	---

Returns

-1 if a rectangle was supplied, 0 otherwise.

Related methods

PDAnnot.[.GetRect](#)

PDAnnot.[.SetColor](#)

PDAnnot.[.SetContents](#)

PDAnnot.[.SetDate](#)

PDAnnot.[.SetOpen](#)

PDAnnot.[.SetTitle](#)

SetTitle

Sets a text annotation's title.

Syntax

```
VARIANT_BOOL SetTitle (BSTR szTitle) ;
```

Parameters

szTitle	The title to use.
---------	-------------------

Returns

-1 if the title was set, 0 if the Acrobat application does not support editing.

Related methods

PDAnnot.[.GetByTitle](#)

PDAnnot.[.SetColor](#)

PDAnnot.[.SetContents](#)

PDAnnot . [SetDate](#)

PDAnnot . [SetOpen](#)

PDAnnot . [SetRect](#)

AcroExch.PDBookmark

A bookmark for a page in a PDF file. This is a creatable interface. Each bookmark has a title that appears on screen, and an action that specifies what happens when a user clicks on the bookmark.

Bookmarks can either be created interactively by the user through the Acrobat application's user interface or programmatically generated. The typical action for a user-created bookmark is to move to another location in the current document, although any action can be specified. It is not possible to create a bookmark with OLE—only to destroy one.

Methods

The PDBookmark object has the following methods.

Method	Description
Destroy	Destroys a bookmark.
GetByTitle	Gets the bookmark that has the specified title.
GetTitle	Gets a bookmark's title.
IsValid	Determines whether the bookmark is valid.
Perform	Performs a bookmark's action.
SetTitle	Sets a bookmark's title.

Destroy

Destroys a bookmark.

Syntax

```
VARIANT_BOOL Destroy();
```

Returns

0 if the Acrobat application does not support editing (making it impossible to delete the bookmark), -1 otherwise.

Related methods

PDBookmark . [IsValid](#)

GetByTitle

Gets the bookmark that has the specified title. The `AcroExch.PDBookmark` object is set to the specified bookmark as a side effect of the method; it is not the method's return value. You cannot enumerate bookmark titles with this method.

Syntax

```
VARIANT_BOOL GetByTitle(LPDISPATCH iAcroPDDoc,  
                        BSTR bookmarkTitle);
```

Parameters

<code>iAcroPDDoc</code>	The LPDISPATCH for the document (<code>AcroExch.PDDoc</code> object) containing the bookmark. <code>iAcroPDDoc</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
<code>bookmarkTitle</code>	The title of the bookmark to get. The capitalization of the title must match that in the bookmark.

Returns

-1 if the specified bookmark exists (the method determines this using the `PDBookmark.IsValid` method), 0 otherwise.

Related methods

`PDBookmark.GetTitle`

`PDBookmark.SetTitle`

Example

```
CAcroPDBookmark* bookmark = new CAcroPDBookmark;  
  
bookmark->CreateDispatch("AcroExch.PDBookmark");  
  
bookmark->GetByTitle(m_pAcroAVDoc->GetPDDoc(), "Name of Bookmark");  
  
if (bookmark->IsValid())  
    bookmark->Perform(m_pAcroAVDoc->m_lpDispatch);  
else  
    AfxMessageBox("Bookmark not valid");
```

GetTitle

Gets a bookmark's title.

Syntax

```
BSTR GetTitle();
```

Returns

The title.

Related methods

PDBookmark.[GetByTitle](#)

PDBookmark.[SetTitle](#)

IsValid

Determines whether the bookmark is valid. This method only checks whether the bookmark has been deleted; it does not thoroughly check the bookmark's data structures.

Syntax

```
VARIANT_BOOL IsValid();
```

Returns

-1 if the bookmark is valid, 0 otherwise.

Related methods

PDBookmark.[Destroy](#)

Syntax

Perform

Performs a bookmark's action.

Syntax

```
VARIANT_BOOL Perform(LPDISPATCH iAcroAVDoc);
```

Parameters

<code>iAcroAVDoc</code>	The LPDISPATCH for the <code>AcroExch.AVDoc</code> in which the bookmark is located. <code>iAcroAVDoc</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
-------------------------	--

Returns

-1 if the action was executed successfully, 0 otherwise.

Related methods

`PDBookmark.IsValid`

SetTitle

Sets a bookmark's title.

Syntax

```
VARIANT_BOOL SetTitle(BSTR szNewTitle);
```

Parameters

<code>szNewTitle</code>	The title to set.
-------------------------	-------------------

Returns

0 if the Acrobat application does not support editing, -1 otherwise.

Related methods

`PDBookmark.GetByTitle`

`PDBookmark.GetTitle`

AcroExch.PDDoc

The underlying PDF representation of a document. This is a creatable interface. There is a correspondence between a `PDDoc` object and an `ASFile` object (an opaque representation of an open file made available through an interface encapsulating Acrobat's access to file services), and the `PDDoc` object is the hidden object behind every `AVDoc` object. An `ASFile` object may have zero or more underlying files, so a PDF file does not always correspond to a single disk file. For example, an `ASFile` object may provide access to PDF data in a database.

Through `PDDoc` objects, your application can perform most of the Document menu items from Acrobat (delete pages, replace pages, and so on), create and delete thumbnails, and set and retrieve document information fields.

Methods

The `PDDoc` object has the following methods.

Method	Description
AcquirePage	Acquires the specified page.
ClearFlags	Clears a document's flags.
Close	Closes a file.

Method	Description
Create	Creates a new AcroExch . PDDoc.
CreateTextSelect	Creates a text selection from the specified rectangle on the specified page.
CreateThumbs	Creates thumbnail images for the specified page range in a document.
CropPages	Crops the pages in a specified range in a document.
DeletePages	Deletes pages from a file.
DeleteThumbs	Deletes thumbnail images from the specified pages in a document.
GetFileName	Gets the name of the file associated with this AcroExch . PDDoc.
GetFlags	Gets a document's flags.
GetInfo	Gets the value of a specified key in the document's Info dictionary.
GetInstanceID	Gets the instance ID (the second element) from the ID array in the document's trailer.
GetJSObject	Gets a dual interface to the JavaScript object associated with the PDDoc.
GetNumPages	Gets the number of pages in a file.
GetPageMode	Gets a value indicating whether the Acrobat application is currently displaying only pages, pages and thumbnails, or pages and bookmarks.
GetPermanentID	Gets the permanent ID (the first element) from the ID array in the document's trailer.
InsertPages	Inserts the specified pages from the source document after the indicated page within the current document.
MovePage	Moves a page to another location within the same document.
Open	Opens a file.
OpenAVDoc	Opens a window and displays the document in it.
ReplacePages	Replaces the indicated pages in the current document with those specified from the source document.
Save	Saves a document.
SetFlags	Sets a document's flags indicating whether the document has been modified, whether the document is a temporary document and should be deleted when closed, and the version of PDF used in the file.
SetInfo	Sets the value of a key in a document's Info dictionary.
SetPageMode	Sets the page mode in which a document is to be opened: display only pages, pages and thumbnails, or pages and bookmarks.

AcquirePage

Acquires the specified page.

Syntax

```
LPDISPATCH AcquirePage (long nPage);
```

Parameters

nPage	The number of the page to acquire. The first page is page 0.
-------	--

Returns

The LPDISPATCH for the `AcroExch.PDPage` object for the acquired page. Returns NULL if the page could not be acquired.

Related methods

`AVPageView`. [GetPage](#)

`AVPageView`. [GetPageNum](#)

`PDDoc`. [GetNumPages](#)

`PDPage`. [GetDoc](#)

`PDPage`. [GetNumber](#)

`PDPage`. [GetRotate](#)

`PDPage`. [GetSize](#)

`PDTextSelect`. [GetPage](#)

ClearFlags

Clears a document's flags. The flags indicate whether the document has been modified, whether the document is a temporary document and should be deleted when closed, and the version of PDF used in the file. This method can be used only to clear, not to set, the flag bits.

Syntax

```
VARIANT_BOOL ClearFlags (long nFlags);
```

Parameters

nFlags	Flags to be cleared. See <code>PDDoc</code> . GetFlags for a description of the flags. The flags PDDocWasRepaired , PDDocNewMajorVersion , PDDocNewMinorVersion , and PDDocOldVersion are read-only and cannot be cleared.
--------	--

Returns

Always returns -1.

Related methods

PDDoc . [GetFlags](#)

PDDoc . [SetFlags](#)

Close

Closes a file.

Note: If PDDoc and AVDoc are constructed with the same file, PDDoc . Close destroys both objects (which closes the document in the viewer).

Syntax

```
VARIANT_BOOL Close ();
```

Returns

-1 if the document was closed successfully, 0 otherwise.

Related methods

App . [CloseAllDocs](#)

AVDoc . [Close](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindow](#)

AVDoc . [OpenInWindowEx](#)

PDDoc . [Open](#)

PDDoc . [OpenAVDoc](#)

Create

Creates a new AcroExch . PDDoc.

Syntax

```
VARIANT_BOOL Create ();
```


Returns

-1 if the document is created successfully, 0 if it is not or if the Acrobat application does not support editing.

CreateTextSelect

Creates a text selection from the specified rectangle on the specified page. After creating the text selection, use the AVDoc . [SetTextSelection](#) method to use it as the document's selection, and use AVDoc . [ShowTextSelect](#) to show the selection.

Syntax

```
LPDISPATCH CreateTextSelect(long nPage, LPDISPATCH iAcroRect);
```

Parameters

nPage	The page on which the selection is created. The first page in a PDDoc object is page 0.
iAcroRect	The LPDISPATCH for the AcroExch . Rect enclosing the region to select. iAcroRect contains the instance variable m_lpDispatch, which contains the LPDISPATCH.

Returns

The LPDISPATCH for an AcroExch . PDTextSelect containing the text selection. Returns NULL if the text selection was not created successfully.

Related methods

AVDoc . [ClearSelection](#)

AVDoc . [SetTextSelection](#)

AVDoc . [ShowTextSelect](#)

PDPage . [CreatePageHilite](#)

PDPage . [CreateWordHilite](#)

PDTextSelect . [Destroy](#)

PDTextSelect . [GetBoundingRect](#)

PDTextSelect . [GetNumText](#)

PDTextSelect . [GetPage](#)

PDTextSelect . [GetText](#)

CreateThumbs

Creates thumbnail images for the specified page range in a document.

Syntax

```
VARIANT_BOOL CreateThumbs(long nFirstPage, long nLastPage);
```

Parameters

nFirstPage	First page for which thumbnail images are created. The first page in a PDDoc object is page 0.
nLastPage	Last page for which thumbnail images are created.

Returns

-1 if thumbnail images were created successfully, 0 if they were not or if the Acrobat application does not support editing.

Related methods

PDDoc.[DeleteThumbs](#)

CropPages

Crops the pages in a specified range in a document. This method ignores the request if either the width or height of the crop box is less than 72 points (one inch).

Syntax

```
VARIANT_BOOL CropPages(long nStartPage, long nEndPage,  
                        short nEvenOrOddPagesOnly,  
                        LPDISPATCH iAcroRect);
```

Parameters

nStartPage	First page that is cropped. The first page in a PDDoc object is page 0.
nEndPage	Last page that is cropped.
nEvenOrOddPagesOnly	Value indicating which pages in the range are cropped. Must be one of the following: 0 — crop all pages in the range 1 — crop only odd pages in the range 2 — crop only even pages in the range
iAcroRect	An LPDISPATCH for a CAcroRect specifying the cropping rectangle, which is specified in user space.

Returns

-1 if the pages were cropped successfully, 0 otherwise.

Related methods

PDPage . [CropPages](#)

DeletePages

Deletes pages from a file.

Syntax

```
VARIANT_BOOL DeletePages(long nStartPage, long nEndPage);
```

Parameters

nStartPage	The first page to be deleted. The first page in a PDDoc object is page 0.
nEndPage	The last page to be deleted.

Returns

-1 if the pages were successfully deleted. Returns 0 if they were not or if the Acrobat application does not support editing.

Related methods

PDDoc . [AcquirePage](#)

PDDoc . [DeletePages](#)

PDDoc . [GetNumPages](#)

PDDoc . [InsertPages](#)

PDDoc . [MovePage](#)

PDDoc . [ReplacePages](#)

DeleteThumbs

Deletes thumbnail images from the specified pages in a document.

Syntax

```
VARIANT_BOOL DeleteThumbs(long nStartPage, long nEndPage);
```

Parameters

nStartPage	First page whose thumbnail image is deleted. The first page in a PDDoc object is page 0.
nEndPage	Last page whose thumbnail image is deleted.

Returns

-1 if the thumbnails were deleted, 0 if they were not deleted or if the Acrobat application does not support editing.

Related methods

PDDoc.[CreateThumbs](#)

GetFileName

Gets the name of the file associated with this AcroExch.PDDoc.

Syntax

```
BSTR GetFileName ();
```

Returns

The file name, which can currently contain up to 256 characters.

Related methods

PDDoc.[Save](#)

GetFlags

Gets a document's flags. The flags indicate whether the document has been modified, whether the document is a temporary document and should be deleted when closed, and the version of PDF used in the file.

Syntax

```
long GetFlags ();
```

Returns

The document's flags, containing an OR of the following:

Flag	Description
PDDocNeedsSave	Document has been modified and needs to be saved.

<code>PDDocRequiresFullSave</code>	Document cannot be saved incrementally; it must be written using <code>PDSaveFull</code> .
<code>PDDocIsModified</code>	Document has been modified slightly (such as bookmarks or text annotations have been opened or closed), but not in a way that warrants saving.
<code>PDDocDeleteOnClose</code>	Document is based on a temporary file that must be deleted when the document is closed or saved.
<code>PDDocWasRepaired</code>	Document was repaired when it was opened.
<code>PDDocNewMajorVersion</code>	Document's major version is newer than current.
<code>PDDocNewMinorVersion</code>	Document's minor version is newer than current.
<code>PDDocOldVersion</code>	Document's version is older than current.
<code>PDDocSuppressErrors</code>	Don't display errors.

Related methods

`PDDoc`. [ClearFlags](#)

`PDDoc`. [SetFlags](#)

GetInfo

Gets the value of a specified key in the document's `Info` dictionary. A maximum of 512 bytes are returned.

Syntax

```
BSTR GetInfo(BSTR szInfoKey);
```

Parameters

<code>szInfoKey</code>	The key whose value is obtained.
------------------------	----------------------------------

Returns

The string if the value was read successfully. Returns an empty string if the key does not exist or its value cannot be read.

Related methods

`PDDoc`. [SetInfo](#)

GetInstanceID

Gets the instance ID (the second element) from the ID array in the document's trailer.

Syntax

```
BSTR GetInstanceID ();
```

Returns

A string whose maximum length is 32 characters, containing the document's instance ID.

Related methods

PDDoc.[GetPermanentID](#)

GetJSObject

Gets a dual interface to the JavaScript object associated with the PDDoc. This allows automation clients full access to both built-in and user-defined JavaScript methods available in the document. For more information on working with JavaScript, see *Developing Applications Using Interapplication Communication*.

Syntax

```
IDispatch* GetJSObject ();
```

Returns

The interface to the JavaScript object if the call succeeded, NULL otherwise.

GetNumPages

Gets the number of pages in a file.

Syntax

```
long GetNumPages ();
```

Returns

The number of pages, or -1 if the number of pages cannot be determined.

Related methods

AVPageView.[GetPage](#)

AVPageView.[GetPageNum](#)

PDDoc.[AcquirePage](#)

PDPage.[GetNumber](#)

PDTextSelect.[GetPage](#)

Parameters

<code>nInsertPageAfter</code>	The page in the current document after which pages from the source document are inserted. The first page in a <code>PDDoc</code> object is page 0.
<code>iPDDocSource</code>	The <code>LPDISPATCH</code> for the <code>AcroExch.PDDoc</code> containing the pages to insert. <code>iPDDocSource</code> contains the instance variable <code>m_lpDispatch</code> , which contains the <code>LPDISPATCH</code> .
<code>nStartPage</code>	The first page in <code>iPDDocSource</code> to be inserted into the current document.
<code>nNumPages</code>	The number of pages to be inserted.
<code>bBookmarks</code>	If a positive number, bookmarks are copied from the source document. If 0, they are not.

Returns

-1 if the pages were successfully inserted. Returns 0 if they were not or if the Acrobat application does not support editing.

Related methods

`PDDoc.AcquirePage`

`PDDoc.DeletePages`

`PDDoc.GetNumPages`

`PDDoc.MovePage`

`PDDoc.ReplacePages`

MovePage

Moves a page to another location within the same document.

Syntax

```
VARIANT_BOOL MovePage(long nMoveAfterThisPage,  
                       long nPageToMove);
```

Parameters

<code>nMoveAfterThisPage</code>	The page being moved is placed after this page number. The first page in a <code>PDDoc</code> object is page 0.
<code>nPageToMove</code>	Page number of the page to be moved.

Returns

0 if the Acrobat application does not support editing, -1 otherwise.

Related methods

PDDoc . [AcquirePage](#)

PDDoc . [DeletePages](#)

PDDoc . [GetNumPages](#)

PDDoc . [InsertPages](#)

PDDoc . [ReplacePages](#)

Open

Opens a file. A new instance of `AcroExch.PDDoc` must be created for each open PDF file.

Syntax

```
VARIANT_BOOL Open (BSTR szFullPath);
```

Parameters

<code>szFullPath</code>	Full path of the file to be opened.
-------------------------	-------------------------------------

Returns

-1 if the document was opened successfully, 0 otherwise.

Related methods

App . [CloseAllDocs](#)

AVDoc . [Close](#)

AVDoc . [Open](#)

AVDoc . [OpenInWindow](#)

AVDoc . [OpenInWindowEx](#)

PDDoc . [Close](#)

PDDoc . [OpenAVDoc](#)

OpenAVDoc

Opens a window and displays the document in it.

Syntax

```
LPCDISPATCH OpenAVDoc (BSTR szTitle);
```


Parameters

nStartPage	The first page within the source file to be replaced. The first page in a PDDoc object is page 0.
iPDDocSource	The LPDISPATCH for the AcroExch.PDDoc containing the new copies of pages that are replaced. iPDDocSource contains the instance variable m_lpDispatch, which contains the LPDISPATCH.
nStartSourcePage	The first page in iPDDocSource to use as a replacement page.
nNumPages	The number of pages to be replaced.
bMergeTextAnnotations	If a positive number, text annotations from iPDDocSource are copied. If 0, they are not.

Returns

-1 if the pages were successfully replaced. Returns 0 if they were not or if the Acrobat application does not support editing.

Related methods

PDDoc.[AcquirePage](#)

PDDoc.[DeletePages](#)

PDDoc.[GetNumPages](#)

PDDoc.[InsertPages](#)

PDDoc.[MovePage](#)

Save

Saves a document.

Syntax

```
VARIANT_BOOL Save(short nType, BSTR szFullPath);
```

Parameters

<code>nType</code>	<p>Specifies the way in which the file should be saved.</p> <p><code>nType</code> is a logical OR of one or more of the following flags:</p> <p><code>PDSaveIncremental</code> — Write changes only, not the complete file. This will always result in a larger file, even if objects have been deleted.</p> <p><code>PDSaveFull</code> — Write the entire file to the filename specified by <code>szFullPath</code>.</p> <p><code>PDSaveCopy</code> — Write a copy of the file into the file specified by <code>szFullPath</code>, but keep using the old file. This flag can only be specified if <code>PDSaveFull</code> is also used.</p> <p><code>PDSaveCollectGarbage</code> — Remove unreferenced objects; this often reduces the file size, and its usage is encouraged. This flag can only be specified if <code>PDSaveFull</code> is also used.</p> <p><code>PDSaveLinearized</code> — Save the file optimized for the web, providing hint tables. This allows the PDF file to be byte-served. This flag can only be specified if <code>PDSaveFull</code> is also used.</p> <p>Note: If you save a file optimized for the web using the <code>PDSaveLinearized</code> flag, you must follow this sequence:</p> <ol style="list-style-type: none">1. Open the PDF file with <code>PDDoc.Open</code>.2. Call <code>PDDoc.Save</code> using the <code>PDSaveLinearized</code> flag.3. Call <code>PDDoc.Close</code>. <p>This allows batch optimization of files.</p>
<code>szFullPath</code>	<p>The new path to the file, if any.</p>

Returns

-1 if the document was successfully saved. Returns 0 if it was not or if the Acrobat application does not support editing.

Related methods

`PDDoc.GetFileName`

SetFlags

Sets a document's flags indicating whether the document has been modified, whether the document is a temporary document and should be deleted when closed, and the version of PDF used in the file. This method can be used only to set, not to clear, the flag bits.

Syntax

```
VARIANT_BOOL SetFlags(long nFlags);
```

Parameters

nFlags	Flags to be set. See PDDoc . GetFlags for a description of the flags. The flags PDDocWasRepaired , PDDocNewMajorVersion , PDDocNewMinorVersion , and PDDocOldVersion are read-only and cannot be set.
--------	---

Returns

Always returns -1.

Related methods

PDDoc . [ClearFlags](#)

PDDoc . [GetFlags](#)

SetInfo

Sets the value of a key in a document's Info dictionary.

Syntax

```
VARIANT_BOOL SetInfo(BSTR szInfoKey, BSTR szBuffer);
```

Parameters

szInfoKey	The key whose value is set.
szBuffer	The value to be assigned to the key.

Returns

-1 if the value was added successfully, 0 if it was not or if the Acrobat application does not support editing.

Related methods

PDDoc . [GetInfo](#)

SetPageMode

Sets the page mode in which a document is to be opened: display only pages, pages and thumbnails, or pages and bookmarks.

Syntax

```
VARIANT_BOOL SetPageMode(long nPageMode);
```

Parameters

nPageMode	The page mode to be set. Possible values: PDDontCare: 0 — leave the view mode as it is PDUseNone: 1 — display without bookmarks or thumbnails PDUseThumbs: 2 — display using thumbnails PDUseBookmarks: 3 — display using bookmarks
-----------	---

Returns

Always returns -1.

Related methods

PDDoc . [GetPageMode](#)

PDDoc . [SetPageMode](#)

AcroExch.PDPage

A single page in the PDF representation of a document. This is a non-creatable interface. Just as PDF files are partially composed of their pages, PDDoc objects are composed of PDPage objects. A page contains a series of objects representing the objects drawn on the page (PDGraphic objects), a list of resources used in drawing the page, annotations (PDAnnot objects), an optional thumbnail image of the page, and the threads used in any articles that occur on the page. The first page in a PDDoc object is page 0.

Methods

The PDPage object has the following methods.

Method	Description
AddAnnot	Adds a specified annotation at a specified location in the page's annotation array
AddNewAnnot	Creates a new text annotation and adds it to the page.
CopyToClipboard	Copies a PDF image to the clipboard without requiring an hWnd or hDC from the client.
CreatePageHilite	Creates a text selection from a list of character offsets and character counts on a single page.
CreateWordHilite	Creates a text selection from a list of word offsets and word counts on a single page.
CropPage	Crops the page.
Draw	Deprecated. Draws page contents into a specified window.

Method	Description
DrawEx	Draws page contents into a specified window.
GetAnnot	Gets the specified annotation from the page's array of annotations.
GetAnnotIndex	Gets the index (within the page's annotation array) of the specified annotation.
GetDoc	Gets the <code>AcroExch.PDDoc</code> associated with the page.
GetNumAnnots	Gets the number of annotations on the page.
GetNumber	Gets the page number of the current page. The first page in a document is page zero.
GetRotate	Gets the rotation value, in degrees, for the current page.
GetSize	Gets a page's width and height in points.
RemoveAnnot	Removes the specified annotation from the page's annotation array.
SetRotate	Sets the rotation, in degrees, for the current page.

AddAnnot

Adds a specified annotation at a specified location in the page's annotation array.

Syntax

```
VARIANT_BOOL AddAnnot(long nIndexAddAfter,  
                      LPDISPATCH iPDAnnot);
```

Parameters

<code>nIndexAddAfter</code>	Location in the page's annotation array to add the annotation. The first annotation on a page has an index of zero.
<code>iPDAnnot</code>	The <code>LPDISPATCH</code> for the <code>AcroExch.PDAnnot</code> to add. <code>iPDAnnot</code> contains the instance variable <code>m_lpDispatch</code> , which contains the <code>LPDISPATCH</code> .

Returns

0 if the Acrobat application does not support editing, -1 otherwise.

Related methods

`PDPage`. [AddNewAnnot](#)

`PDPage`. [RemoveAnnot](#)

AddNewAnnot

Creates a new text annotation and adds it to the page.

The newly-created text annotation is not complete until `PDAnnot.SetContents` has been called to fill in the `/Contents` key.

Syntax

```
LPDISPATCH AddNewAnnot (long nIndexAddAfter, BSTR szSubType,  
                          LPDISPATCH iAcroRect);
```

Parameters

<code>nIndexAddAfter</code>	Location in the page's annotation array after which to add the annotation. The first annotation on a page has an index of zero.
<code>szSubType</code>	Subtype of the annotation to be created. Must be text.
<code>iAcroRect</code>	The <code>LPDISPATCH</code> for the <code>AcroExch.Rect</code> bounding the annotation's location on the page. <code>iAcroRect</code> contains the instance variable <code>m_lpDispatch</code> , which contains the <code>LPDISPATCH</code> .

Returns

The `LPDISPATCH` for an `AcroExch.PDAnnot` object, or `NULL` if the annotation could not be added.

Related methods

`PDAnnot.SetContents`

`PDPage.AddAnnot`

`PDPage.RemoveAnnot`

CopyToClipboard

Copies a PDF image to the clipboard without requiring an `hWnd` or `hDC` from the client. This method is only available on 32-bit systems.

Syntax

```
VARIANT_BOOL CopyToClipboard (LPDISPATCH boundRect,  
                               short nXOrigin, short nYOrigin,  
                               short nZoom);
```


Parameters

<code>boundRect</code>	The LPDISPATCH for the <code>AcroExch.Rect</code> bounding rectangle in device space coordinates. <code>boundRect</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH.
<code>nXOrigin</code>	The x-coordinate of the portion of the page to be copied.
<code>nYOrigin</code>	The y-coordinate of the portion of the page to be copied.
<code>nZoom</code>	Zoom factor at which the page is copied, specified as a percent. For example, 100 corresponds to a magnification of 1.0.

Returns

-1 if the page is successfully copied, 0 otherwise.

Related methods

`PDPage`. [DrawEx](#)

CreatePageHilite

Creates a text selection from a list of character offsets and character counts on a single page. The text selection can then be set as the current selection using `AVDoc.SetTextSelection`, and the view can be set to show the selection using `AVDoc.ShowTextSelect`.

Syntax

```
LPDISPATCH CreatePageHilite(LPDISPATCH iAcroHiliteList);
```

Parameters

<code>iAcroHiliteList</code>	The LPDISPATCH for the highlight list for which a text selection is created. <code>iAcroHiliteList</code> contains the instance variable <code>m_lpDispatch</code> , which contains the LPDISPATCH. Use <code>HiliteList.Add</code> to create a highlight list.
------------------------------	--

Returns

The LPDISPATCH for the `AcroExch.PDTextSelect` containing the text selection, or NULL if the selection could not be created.

Related methods

`AVDoc`. [ClearSelection](#)

`AVDoc`. [SetTextSelection](#)

`AVDoc`. [ShowTextSelect](#)

`HiliteList`. [Add](#)

PDDoc.[CreateTextSelect](#)
PDPage.[CreateWordHilite](#)
PDTextSelect.[Destroy](#)
PDTextSelect.[GetBoundingRect](#)
PDTextSelect.[GetNumText](#)
PDTextSelect.[GetPage](#)
PDTextSelect.[GetText](#)

CreateWordHilite

Creates a text selection from a list of word offsets and word counts on a single page. The text selection can then be set as the current selection using AVDoc.[SetTextSelection](#), and the view can be set to show the selection using AVDoc.[ShowTextSelect](#).

Syntax

```
LPDISPATCH CreateWordHilite(LPDISPATCH iAcroHiliteList);
```

Parameters

iAcroHiliteList	The LPDISPATCH for the highlight list for which a text selection is created. iAcroHiliteList contains the instance variable m_lpDispatch, which contains the LPDISPATCH. Use HiliteList. Add to create a highlight list.
-----------------	---

Returns

The LPDISPATCH for the AcroExch.PDTextSelect, or NULL if the selection could not be created.

Related methods

AVDoc.[ClearSelection](#)
AVDoc.[SetTextSelection](#)
AVDoc.[ShowTextSelect](#)
HiliteList.[Add](#)
PDDoc.[CreateTextSelect](#)
PDPage.[CreatePageHilite](#)
PDTextSelect.[Destroy](#)
PDTextSelect.[GetBoundingRect](#)
PDTextSelect.[GetNumText](#)
PDTextSelect.[GetPage](#)
PDTextSelect.[GetText](#)

CropPage

Crops the page. This method ignores the request if either the width or height of the crop box is less than 72 points (one inch).

Syntax

```
VARIANT_BOOL CropPage (LPDISPATCH iAcroRect);
```

Parameters

<code>iAcroRect</code>	An LPDISPATCH for a CAcroRect specifying the cropping rectangle, which is specified in user space.
------------------------	--

Returns

-1 if the page was cropped successfully, 0 otherwise.

Related methods

PDDoc.[CropPages](#)

Draw

Note: Deprecated. As of Acrobat 3.0, this method simply returns `false`. Use the method AVDoc.[DrawEx](#) instead.

Syntax

```
VARIANT_BOOL Draw(short window, short displayContext,  
                  short XOrigin,short YOrigin, short zoom);
```

Parameters

<code>window</code>	HWND into which the page is to be drawn.
<code>displayContext</code>	hDC to use for drawing. If NULL, the HDC for window is used. <code>displayContext</code> cannot be reliably used as the hDC for a printer device. In particular, Visual Basic applications cannot use Draw to print.
<code>XOrigin</code>	The x-coordinate of the portion of the page to be drawn.
<code>YOrigin</code>	The y-coordinate of the portion of the page to be drawn.
<code>zoom</code>	Zoom factor at which the page is to be drawn, specified as a percent. For example, 100 corresponds to a magnification of 1.0.

Returns

-1 if the page is successfully drawn, 0 otherwise.

Related methods

PDPage.[CopyToClipboard](#)

PDPage.[DrawEx](#)

DrawEx

Draws page contents into a specified window.

You can use PDPage.[CopyToClipboard](#) to copy page contents to the clipboard without an hWnd or hDC from the client.

Syntax

```
VARIANT_BOOL DrawEx(long window, long displayContext,  
                    LPDISPATCH updateRect, short xOrigin,  
                    short yOrigin, short zoom);
```

Parameters

window	Handle for the window (HWND) into which the page is drawn.
displayContext	This parameter is invalid; do not use it. Assign it a NULL value. If it is not assigned NULL, an exception is thrown. Note: displayContext cannot be reliably used as the hDC for a printer device. In particular, Visual Basic applications cannot use DrawEx to print.
updateRect	LPDISPATCH for an AcroExch.Rect to be drawn with user space coordinates. updateRect contains the instance variable m_lpDispatch, which contains the LPDISPATCH. Any objects outside of updateRect are not drawn. All objects are drawn if updateRect is NULL. Use methods in the CAcroRect class to set the size of the rectangle. For example: <pre>CAcroRect* rect = new CAcroRect; rect->CreateDispatch("AcroExch.Rect", &e); if (rect) { /* Set values for rect - increases from right to left and bottom to top */ rect->SetLeft(100); rect->SetTop(400); rect->SetRight(400); rect->SetBottom(100); }</pre>
xOrigin	The x-coordinate of the portion of the page to be drawn.

yOrigin	The y-coordinate of the portion of the page to be drawn.
zoom	Zoom factor at which the page is drawn, specified as a percent. For example, 100 corresponds to a magnification of 1.0.

Returns

A positive number if the page is successfully drawn, 0 otherwise.

Related methods

PDPage.[CopyToClipboard](#)

GetAnnot

Gets the specified annotation from the page's array of annotations.

Syntax

```
LPDISPATCH GetAnnot (long nIndex);
```

Parameters

nIndex	Index (in the page's annotation array) of the annotation to be retrieved. The first annotation in the array has an index of zero.
--------	---

Returns

The LPDISPATCH for the AcroExch.PDAnnot object.

Related methods

PDPage.[GetAnnotIndex](#)

PDPage.[GetNumAnnots](#)

GetAnnotIndex

Gets the index (within the page's annotation array) of the specified annotation.

Syntax

```
long GetAnnotIndex (LPDISPATCH iPDAnnot);
```

Parameters

iPDAnnot	LPDISPATCH for the AcroExch.PDAnnot whose index is obtained. iPDAnnot contains the instance variable m_lpDispatch, which contains the LPDISPATCH.
----------	---

Returns

The annotation's index.

Related methods

PDPage . [GetAnnot](#)

PDPage . [GetNumAnnots](#)

GetDoc

Gets the AcroExch . PDDoc associated with the page.

Syntax

```
LPDISPATCH GetDoc ( ) ;
```

Returns

The LPDISPATCH for the page's AcroExch . PDDoc.

Related methods

AVPageView . [GetPage](#)

AVPageView . [GetPageNum](#)

PDDoc . [AcquirePage](#)

PDDoc . [GetNumPages](#)

PDPage . [GetNumber](#)

PDPage . [GetRotate](#)

PDPage . [GetSize](#)

PDTextSelect . [GetPage](#)

GetNumAnnots

Gets the number of annotations on the page.

Annotations that have associated pop-up windows, such as a strikeout, count as two annotations. Also note that widget annotations (Acrobat form fields) are included.

Syntax

```
long GetNumAnnots ( ) ;
```

Returns

The number of annotations on the page.

Related methods

PDPage.[GetAnnot](#)

PDPage.[GetAnnotIndex](#)

GetNumber

Gets the page number of the current page. The first page in a document is page zero.

Syntax

```
long GetNumber ();
```

Returns

The page number of the current page. The first page in a PDDoc object is page 0.

Related methods

AVPageView.[GetPage](#)

AVPageView.[GetPageNum](#)

PDDoc.[AcquirePage](#)

PDDoc.[GetNumPages](#)

PDPage.[GetDoc](#)

PDPage.[GetRotate](#)

PDPage.[GetSize](#)

PDTextSelect.[GetPage](#)

GetRotate

Gets the rotation value, in degrees, for the current page.

Syntax

```
short GetRotate ();
```

Returns

Rotation value.

Related methods

AVPageView.[GetPage](#)

AVPageView.[GetPageNum](#)

PDDoc.[AcquirePage](#)

PDPage.[GetNumber](#)

PDPage.[GetSize](#)

PDPage.[SetRotate](#)

PDTextSelect.[GetPage](#)

GetSize

Gets a page's width and height in points.

Syntax

```
LPDISPATCH GetSize ();
```

Returns

The LPDISPATCH for an `AcroExch.Point` containing the width and height, measured in points. Point x contains the width, point y the height.

Related methods

AVPageView.[GetPage](#)

AVPageView.[GetPageNum](#)

PDDoc.[AcquirePage](#)

PDPage.[GetNumber](#)

PDPage.[GetRotate](#)

PDTextSelect.[GetPage](#)

RemoveAnnot

Removes the specified annotation from the page's annotation array.

Syntax

```
VARIANT_BOOL RemoveAnnot (long nIndex);
```


Parameters

nIndex	Index within the page's annotation array of the annotation to be deleted. The first annotation on a page has an index of zero.
--------	--

Returns

0 if the Acrobat application does not support editing, a positive number otherwise.

Related methods

PDPage.[AddAnnot](#)

PDPage.[AddNewAnnot](#)

PDPage.[GetAnnotIndex](#)

SetRotate

Sets the rotation, in degrees, for the current page.

Syntax

```
VARIANT_BOOL SetRotate (short nRotate) ;
```

Parameters

nRotate	Rotation value of 0, 90, 180, or 270.
---------	---------------------------------------

Returns

0 if the Acrobat application does not support editing, -1 otherwise.

Related methods

PDPage.[GetRotate](#)

AcroExch.PDTextSelect

A selection of text on a single page that may contain more than one disjointed group of words. This is a non-creatable interface. A text selection is specified by one or more ranges of text, with each range containing the word numbers of the selected words. Each range specifies a start and end word, where "start" is the number of the first word of a series of selected words and "end" is the number of the next word after the last word in the selection.

Methods

The `PDTextSelect` object has the following methods.

Method	Description
Destroy	Destroys a text selection object.
GetBoundingRect	Gets a text selection's bounding rectangle.
GetNumText	Gets the number of text elements in a text selection.
GetPage	Gets the page number on which the text selection is located.
GetText	Gets the text from the specified element of a text selection.

Destroy

Destroys a text selection object.

Syntax

```
VARIANT_BOOL Destroy();
```

Returns

Always returns -1.

Related methods

AVDoc.[ClearSelection](#)

AVDoc.[SetTextSelection](#)

AVDoc.[ShowTextSelect](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreatePageHilite](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

PDTextSelect.[GetText](#)

GetBoundingRect

Gets a text selection's bounding rectangle.

Syntax

```
LPDISPATCH GetBoundingRect ();
```

Returns

The LPDISPATCH for an `AcroExch.Rect` corresponding to the text selection's bounding rectangle.

Related methods

AVDoc.[ClearSelection](#)

AVDoc.[SetTextSelection](#)

AVDoc.[ShowTextSelect](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreatePageHilite](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

PDTextSelect.[GetText](#)

GetNumText

Gets the number of text elements in a text selection. Use this method to determine how many times to call the `PDTextSelect.GetText` method to obtain all of a text selection's text.

Note: A text element is not necessarily a word. A text element consists of characters of the same font, size and style; therefore, there may be more than one text element in a word.

Syntax

```
long GetNumText ();
```

Returns

The number of elements in the text selection.

Related methods

AVDoc.[ClearSelection](#)
AVDoc.[SetTextSelection](#)
AVDoc.[ShowTextSelect](#)
PDDoc.[CreateTextSelect](#)
PDPage.[CreatePageHilite](#)
PDPage.[CreateWordHilite](#)
PDTextSelect.[Destroy](#)
PDTextSelect.[GetBoundingRect](#)
PDTextSelect.[GetPage](#)
PDTextSelect.[GetText](#)

GetPage

Gets the page number on which the text selection is located.

Syntax

```
long GetPage ();
```

Returns

The text selection's page number. The first page in a PDDoc object is page 0.

Related methods

AVDoc.[ClearSelection](#)
AVDoc.[SetTextSelection](#)
AVDoc.[ShowTextSelect](#)
AVPageView.[GetPage](#)
AVPageView.[GetPageNum](#)
PDDoc.[CreateTextSelect](#)
PDDoc.[GetNumPages](#)
PDPage.[CreatePageHilite](#)
PDPage.[CreateWordHilite](#)
PDPage.[GetNumber](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetText](#)

GetText

Gets the text from the specified element of a text selection. To obtain all the text within the text selection, use PDTextSelect.[GetNumText](#) to determine the number of elements in the text selection, then call this method in a loop to obtain each of the elements.

Syntax

```
BSTR GetText (long nTextIndex);
```

Parameters

nTextIndex	The element of the text selection to get.
------------	---

Returns

The text, or an empty string if nTextIndex is greater than the number of elements in the text selection.

Related methods

AVDoc.[ClearSelection](#)

AVDoc.[SetTextSelection](#)

AVDoc.[ShowTextSelect](#)

PDPage.[CreatePageHilite](#)

PDDoc.[CreateTextSelect](#)

PDPage.[CreateWordHilite](#)

PDTextSelect.[Destroy](#)

PDTextSelect.[GetBoundingRect](#)

PDTextSelect.[GetNumText](#)

PDTextSelect.[GetPage](#)

AcroExch.Point

Defines the location of an `AcroPoint`.

Properties

The `Point` object has the following properties.

Property	Description
X	Gets or sets the x-coordinate of an <code>AcroPoint</code> .
Y	Gets or sets the y-coordinate of an <code>AcroPoint</code> .

X

Gets or sets the x-coordinate of an `AcroPoint`.

Syntax

[get/set] Short

Return

The x-coordinate of the `AcroPoint`.

Y

Gets or sets the y-coordinate of an `AcroPoint`.

Syntax

[get/set] Short

Returns

The y-coordinate of the `AcroPoint`.

AcroExch.Rect

Defines the location of an `AcroRect`.

The `Rect` object has the following properties.

Properties

Property	Description
Bottom	Gets or sets the bottom y-coordinate of an <code>AcroRect</code> .
Left	Gets or sets the left x-coordinate of an <code>AcroRect</code> .
Right	Gets or sets the right x-coordinate of an <code>AcroRect</code> .
Top	Gets or sets the top y-coordinate of an <code>AcroRect</code> .

Bottom

Gets or sets the bottom y-coordinate of an `AcroRect`.

Syntax

[get/set] Short

Returns

The y-coordinate of the bottom of the `AcroRect`.

Left

Gets or sets left x-coordinate of an `AcroRect`.

Syntax

[get/set] Short

Returns

The x-coordinate of the left side of the `AcroRect`.

Right

Gets or sets the right x-coordinate of an `AcroRect`.

Syntax

[get/set] Short

Returns

The x-coordinate of the right side of the `AcroRect`.

Top

Gets or sets the top y-coordinate of an `AcroRect`.

Syntax

[get/set] Short

Returns

The y-coordinate of the top of the `AcroRect`.

AcroExch.Time

Defines a specified time, accurate to the millisecond.

Properties

The `Time` object has the following properties.

Property	Description
Date	Gets or sets the date from an <code>AcroTime</code> .
Hour	Gets or sets the hour from an <code>AcroTime</code> .
Millisecond	Gets or sets the milliseconds from an <code>AcroTime</code> .
Minute	Gets or sets the minutes from an <code>AcroTime</code> .
Month	Gets or sets the month from an <code>AcroTime</code> .
Second	Gets or sets the seconds from an <code>AcroTime</code> .
Year	Gets or sets the year from an <code>AcroTime</code> .

Date

Gets or sets the date from an `AcroTime`.

Syntax

[get/set] Short

Returns

The date from the `AcroTime`. The date runs from 1 to 31.

Hour

Gets or sets the hour from an `AcroTime`.

Syntax

[get/set] Short

Returns

The hour from the `AcroTime`. The hour runs from 0 to 23.

Millisecond

Gets or sets the milliseconds from an `AcroTime`.

Syntax

[get/set] Short

Returns

The milliseconds from the `AcroTime`. Milliseconds run from 0 to 999.

Minute

Gets or sets the minutes from an `AcroTime`.

Syntax

[get/set] Short

Returns

The minutes from the `AcroTime`. Minutes run from 0 to 59.

Month

Gets or sets the month from an `AcroTime`.

Syntax

[get/set] Short

Returns

The month from the `AcroTime`. The month runs from 1 to 12, where 1 is January and 12 is December.

Second

Gets or sets the seconds from an `AcroTime`.

Syntax

[get/set] Short

Returns

The seconds from the `AcroTime`. Seconds run from 0 to 59.

Year

Gets or sets the year from an `AcroTime`.

Syntax

[get/set] Short

Returns

The year from the `AcroTime`. The Year runs from 1 to 32767.

AxAcroPDFLib.AxAcroPDF

An object containing a set of methods that provide access to PDF browser controls. This is a creatable interface. This object makes it possible to load a file, move to various pages within the file, and specify various display and print options.

Methods

The `AxAcroPDF` object has the following methods.

Method	Description
GetVersions	Deprecated
GoBackwardStack	Goes to the previous view on the view stack, if the previous view exists.
GoForwardStack	Goes to the next view on the view stack, if the next view exists.
GotoFirstPage	Goes to the first page in the document, maintaining the current location within the page and zoom level.
GotoLastPage	Goes to the last page in the document, maintaining the current location within the page and zoom level.
GotoNextPage	Goes to the next page in the document, if it exists. Maintains the current location within the page and zoom level.

Method	Description
GotoPreviousPage	Goes to the previous page in the document, if it exists. Maintains the current location within the page and zoom level.
LoadFile	Opens and displays the specified document within the browser.
Print	Prints the document according to the options selected in a user dialog box.
PrintAll	Prints the entire document without displaying a user dialog box.
PrintAllFit	Prints the entire document without displaying a user dialog box, and the pages are shrunk, if necessary, to fit into the imageable area of a page in the printer.
PrintPages	Prints the specified pages without displaying a user dialog box.
PrintPagesFit	Prints the specified pages without displaying a user dialog box.
PrintWithDialog	Prints the document according to the options selected in a user dialog box.
SetCurrentHighlight	Highlights the text selection within the specified bounding rectangle on the current page.
SetCurrentPage	Goes to the specified page in the document.
SetLayoutMode	Sets the layout mode for a page view according to the specified string.
SetNamedDest	Changes the page view to the named destination in the specified string.
SetPageMode	Sets the page mode according to the specified string.
SetShowScrollbars	Determines whether scrollbars will appear in the document view.
SetShowToolbar	Determines whether a toolbar will appear in the viewer.
SetView	Sets the view of a page according to the specified string.
SetViewRect	Sets the view rectangle according to the specified coordinates.
SetViewScroll	Sets the view of a page according to the specified string.
SetZoom	Sets the magnification according to the specified value.
SetZoomScroll	Sets the magnification according to the specified value, and scrolls the page view both horizontally and vertically according to the specified amounts.

Properties

The `AxAcroPDF` object has the following property.

Property	Description
Src	Gets or sets the URL for the document.

GetVersions

Note: Deprecated. This method is no longer available.

Syntax

```
VARIANT GetVersions ();
```

GoBackwardStack

Goes to the previous view on the view stack, if the previous view exists. The previous view may be in a different document.

Syntax

```
void GoBackwardStack ();
```

Related methods

AcroPDF.[GoForwardStack](#)

GoForwardStack

Goes to the next view on the view stack, if the next view exists. The next view may be in a different document.

Syntax

```
void GoForwardStack ();
```

Related methods

AcroPDF.[GoBackwardStack](#)

GotoFirstPage

Goes to the first page in the document, maintaining the current location within the page and the current zoom level.

Syntax

```
void gotoFirstPage ();
```

Related methods

AcroPDF.[GotoLastPage](#)

AcroPDF.[GotoNextPage](#)

AcroPDF.[GotoPreviousPage](#)

AcroPDF.[SetCurrentPage](#)

GotoLastPage

Goes to the last page in the document, maintaining the current location within the page and the current zoom level.

Syntax

```
void gotoLastPage ();
```

Related methods

AcroPDF.[GotoFirstPage](#)

AcroPDF.[GotoNextPage](#)

AcroPDF.[GotoPreviousPage](#)

AcroPDF.[SetCurrentPage](#)

GotoNextPage

Goes to the next page in the document, if it exists. Maintains the current location within the page and the current zoom level.

Syntax

```
void gotoNextPage ();
```

Related methods

AcroPDF.[GotoFirstPage](#)

AcroPDF.[GotoLastPage](#)

AcroPDF.[GotoPreviousPage](#)

AcroPDF.[SetCurrentPage](#)

GotoPreviousPage

Goes to the previous page in the document, if it exists. Maintains the current location within the page and the current zoom level.

Syntax

```
void gotoPreviousPage ();
```

Related methods

AcroPDF.[GotoFirstPage](#)

AcroPDF.[GotoLastPage](#)

AcroPDF.[GotoNextPage](#)

AcroPDF.[SetCurrentPage](#)

LoadFile

Opens and displays the specified document within the browser.

Syntax

```
VARIANT_BOOL LoadFile (BSTR fileName);
```

Parameters

fileName	The path of the file to be opened.
----------	------------------------------------

Returns

0 if the file could not be opened, -1 otherwise.

Print

Prints the document according to the options selected in a user dialog box. The options include embedded printing (printing within a bounding rectangle on a given page), as well as interactive printing to a specified printer. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void Print();
```

Related methods

AcroPDF.[PrintAll](#)

AcroPDF.[PrintAllFit](#)

AcroPDF.[PrintPages](#)

AcroPDF.[PrintPagesFit](#)

AcroPDF.[PrintWithDialog](#)

PrintAll

Prints the entire document without displaying a user dialog box. The current printer, page settings, and job settings are used. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void printAll();
```

Related methods

AcroPDF.[Print](#)
AcroPDF.[PrintAllFit](#)
AcroPDF.[PrintPages](#)
AcroPDF.[PrintPagesFit](#)
AcroPDF.[PrintWithDialog](#)

PrintAllFit

Prints the entire document without displaying a user dialog box, and the pages are shrunk, if necessary, to fit into the imageable area of a page in the printer. The current printer, page settings, and job settings are used. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void printAllFit (VARIANT_BOOL bOn);
```

Parameters

bOn	Determines whether to scale the imageable area when printing the document. A value of 0 indicates that no scaling should be used, and a positive value indicates that the pages are shrunk, if necessary, to fit into the imageable area of a page in the printer.
-----	--

Related methods

AcroPDF.[Print](#)
AcroPDF.[PrintAll](#)
AcroPDF.[PrintPages](#)
AcroPDF.[PrintPagesFit](#)
AcroPDF.[PrintWithDialog](#)

PrintPages

Prints the specified pages without displaying a user dialog box. The current printer, page settings, and job settings are used. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void printPages ( Long nFrom, Long nTo);
```

Parameters

nFrom	The page number of the first page to be printed. The first page in a document is page 0.
nTo	The page number of the last page to be printed.

Related methods

AcroPDF.[Print](#)
AcroPDF.[PrintAll](#)
AcroPDF.[PrintAllFit](#)
AcroPDF.[PrintPagesFit](#)
AcroPDF.[PrintWithDialog](#)

PrintPagesFit

Prints the specified pages without displaying a user dialog box. The current printer, page settings, and job settings are used. A parameter specifies whether to shrink pages, if necessary. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void printPagesFit( Long nFrom, Long nTo,  
                  VARIANT_BOOL bShrinkToFit);
```

Parameters

nFrom	The page number of the first page to be printed. The first page in a document is page 0.
nTo	The page number of the last page to be printed.
bShrinkToFit	Specifies whether the pages will be shrunk, if necessary, to fit into the imageable area of a page in the printer.

Related methods

AcroPDF.[Print](#)
AcroPDF.[PrintAll](#)
AcroPDF.[PrintAllFit](#)
AcroPDF.[PrintPages](#)
AcroPDF.[PrintWithDialog](#)

PrintWithDialog

Prints the document according to the options selected in a user dialog box. The options include embedded printing (printing within a bounding rectangle on a given page), as well as interactive printing to a specified printer. This method returns immediately, even if the printing has not completed.

Note: If security settings do not allow printing, this method is ignored.

Syntax

```
void printWithDialog();
```

Related methods

AcroPDF.[Print](#)

AcroPDF.[PrintAll](#)

AcroPDF.[PrintAllFit](#)

AcroPDF.[PrintPages](#)

AcroPDF.[PrintPagesFit](#)

SetCurrentHighlight

Highlights the text selection within the specified bounding rectangle on the current page.

Syntax

```
void setCurrentHighlight (LONG nLeft, LONG nTop,  
                          LONG nRight, LONG nBottom);
```

Parameters

nLeft	The distance in points from the left side of the page.
nTop	The distance in points from the top of the page.
nRight	The width of the bounding rectangle.
nBottom	The height of the bounding rectangle.

SetCurrentPage

Goes to the specified page in the document. Maintains the current location within the page and the current zoom level.

Syntax

```
void setCurrentPage (LONG nPage);
```

Parameters

nPage	The page number of the destination page. The first page in a document is page 0.
-------	--

Related methods

AcroPDF.[GotoFirstPage](#)

AcroPDF.[GotoLastPage](#)

AcroPDF.[GotoNextPage](#)

AcroPDF.[GotoPreviousPage](#)

SetLayoutMode

Sets the layout mode for a page view according to the specified string.

Syntax

```
void setLayoutMode (BSTR szLayoutMode);
```

Parameters

szLayoutMode	Possible values: DontCare — use the current user preference SinglePage — use single page mode (as it would have appeared in pre-Acrobat 3.0 viewers) OneColumn — use one-column continuous mode TwoColumnLeft — use two-column continuous mode with the first page on the left TwoColumnRight — use two-column continuous mode with the first page on the right
--------------	--

Related methods

AcroPDF.[SetNamedDest](#)

AcroPDF.[SetView](#)

AcroPDF.[SetViewRect](#)

AcroPDF.[SetViewScroll](#)

SetNamedDest

Changes the page view to the named destination in the specified string.

Syntax

```
void setNamedDest (BSTR szNamedDest);
```

Parameters

szNamedDest	The named destination to which the viewer will go.
-------------	--

Related methods

AcroPDF.[SetLayoutMode](#)

AcroPDF.[SetView](#)

AcroPDF.[SetViewRect](#)

AcroPDF.[SetViewScroll](#)

SetPageMode

Sets the page mode according to the specified string.

Syntax

```
void setPageMode (BSTR szPageMode) ;
```

Parameters

szPageMode	Possible values: none — displays the document, but does not display bookmarks or thumbnails (default) bookmarks — displays the document and bookmarks thumbs — displays the document and thumbnails
------------	--

Related methods

AcroPDF.[SetShowScrollbars](#)

AcroPDF.[SetShowToolbar](#)

SetShowScrollbars

Determines whether scrollbars will appear in the document view.

Syntax

```
void setShowScrollbars (VARIANT_BOOL bOn) ;
```

Parameters

bOn	A positive value indicates that scrollbars will appear, 0 indicates that they will not.
-----	---

Related methods

AcroPDF.[SetPageMode](#)

AcroPDF.[SetShowToolbar](#)

SetShowToolbar

Determines whether a toolbar will appear in the viewer.

Syntax

```
void setShowToolbar (VARIANT_BOOL bOn);
```

Parameters

bOn	A positive value indicates that the toolbar will appear, 0 indicates that it will not.
-----	--

Related methods

AcroPDF.[SetPageMode](#)

AcroPDF.[SetShowScrollbars](#)

SetView

Sets the view of a page according to the specified string.

Syntax

```
void setView(BSTR szViewMode);
```

Parameters

szViewMode	Possible values: Fit — Fits the entire page within the window both vertically and horizontally. FitH — Fits the entire width of the page within the window. FitV — Fits the entire height of the page within the window. FitB — Fits the bounding box within the window both vertically and horizontally. FitBH — Fits the entire width of the bounding box within the window. FitB — Fits the entire height of the bounding box within the window.
------------	--

Related methods

AcroPDF.[SetLayoutMode](#)

AcroPDF.[SetNamedDest](#)

AcroPDF.[SetViewRect](#)

AcroPDF.[SetViewScroll](#)

SetViewRect

Sets the view rectangle according to the specified coordinates.

Syntax

```
void setViewRect(FLOAT left, FLOAT top,  
                FLOAT width, FLOAT height);
```

Parameters

left	The upper left horizontal coordinate.
top	The vertical coordinate in the upper left corner.
width	The horizontal width of the rectangle.
height	The vertical height of the rectangle.

Related methods

AcroPDF.[SetLayoutMode](#)

AcroPDF.[SetNamedDest](#)

AcroPDF.[SetView](#)

AcroPDF.[SetViewScroll](#)

SetViewScroll

Sets the view of a page according to the specified string. Depending on the view mode, the page is either scrolled to the right or scrolled down by the amount specified in `offset`.

Syntax

```
void setViewRect(BSTR szViewMode, FLOAT offset);
```

Parameters

szViewMode	Possible values: Fit — Fits the entire page within the window both vertically and horizontally. FitH — Fits the entire width of the page within the window. FitV — Fits the entire height of the page within the window. FitB — Fits the bounding box within the window both vertically and horizontally. FitBH — Fits the entire width of the bounding box within the window. FitBV — Fits the entire height of the bounding box within the window.
offset	The horizontal or vertical coordinate positioned either at the left or top edge.

Related methods

AcroPDF.[SetLayoutMode](#)

AcroPDF.[SetNamedDest](#)

AcroPDF.[SetView](#)

AcroPDF.[SetViewRect](#)

SetZoom

Sets the magnification according to the specified value.

Syntax

```
void setZoom(FLOAT percent);
```

Parameters

percent	The desired zoom factor, expressed as a percentage. For example, 1.0 represents a magnification of 100%.
---------	--

Related methods

AcroPDF.[SetZoomScroll](#)

SetZoomScroll

Sets the magnification according to the specified value, and scrolls the page view both horizontally and vertically according to the specified amounts.

Syntax

```
void setZoomScroll(FLOAT percent, FLOAT left, FLOAT top);
```

Parameters

percent	The desired zoom factor, expressed as a percentage. For example, 1.0 represents a magnification of 100%.
left	The horizontal coordinate positioned at the left edge.
top	The vertical coordinate positioned at the top edge.

Related methods

AcroPDF.[SetZoom](#)

Src

Gets or sets the URL for the document.

Syntax

```
[get/set] src
```

Returns

The URL for the document, formatted as a string.

2

DDE Messages

This chapter lists all DDE messages supported by Acrobat.

These DDE messages handle the display of the Acrobat application:

- [AppExit](#)
- [AppHide](#)
- [AppShow](#)
- [CloseAllDocs](#)
- [HideToolbar](#)
- [MenuItemExecute](#)
- [ShowToolbar](#)

These DDE messages control the display of the document:

- [DocClose](#)
- [DocDeletePages](#)
- [DocInsertPages](#)
- [DocOpen](#)
- [DocReplacePages](#)
- [DocSave](#)
- [DocSaveAs](#)
- [DocSetViewMode](#)
- [FileOpen](#)
- [FileOpenEx](#)

These DDE messages handle printing of a document:

- [DocPrint](#)
- [FilePrint](#)
- [FilePrintEx](#)
- [FilePrintSilent](#)
- [FilePrintSilentEx](#)
- [FilePrintTo](#)
- [FilePrintToEx](#)

These DDE messages control the view of a document.:

- [DocGoTo](#)
- [DocGoToNameDest](#)
- [DocPageDown](#)
- [DocPageLeft](#)

- [DocPageRight](#)
- [DocPageUp](#)
- [DocScrollTo](#)
- [DocZoomTo](#)

This DDE message is used for searching:

- [DocFind](#)

Adobe Reader supports the following subset of DDE messages:

- [AppExit](#)
- [CloseAllDocs](#)
- [DocClose](#)
- [DocGoTo](#)
- [DocGoToNameDest](#)
- [DocOpen](#)
- [FileOpen](#)
- [FileOpenEx](#)
- [FilePrint](#)
- [FilePrintEx](#)
- [FilePrintSilent](#)
- [FilePrintSilentEx](#)
- [FilePrintTo](#)
- [FilePrintToEx](#)

AppExit

Exits the Acrobat application.

`AppExit` is also supported in Adobe Reader.

Syntax

```
[AppExit ()]
```

Returns

`true` if the Acrobat application exits successfully, `false` otherwise.

Related methods

[AppHide](#)

[AppShow](#)

AppHide

Iconifies or hides the Acrobat application.

Syntax

```
[AppHide ()]
```

Returns

`true` if the Acrobat application is hidden successfully, `false` otherwise.

Related methods

[AppExit](#)

[AppShow](#)

AppShow

Shows the Acrobat application.

Syntax

```
[AppShow ()]
```

Returns

`true` if the Acrobat application is shown successfully, `false` otherwise.

Related methods

[AppExit](#)

[AppHide](#)

CloseAllDocs

Closes all open documents.

`CloseAllDocs` is also supported in Adobe Reader.

Syntax

```
[CloseAllDocs ()]
```

Returns

`true` if the documents are closed successfully, `false` otherwise.

Related methods

[DocClose](#)

[DocOpen](#)

[FileOpen](#)

DocClose

Closes the specified document without saving it, and without prompting the user to save the document if it has been modified.

DocClose is also supported in Adobe Reader.

Syntax

```
[DocClose(char* fullPath)]
```

Parameters

fullPath	The full path of the file to be closed.
----------	---

Returns

true if the document is closed successfully, false if the document does not exist or is not closed successfully.

Related methods

[CloseAllDocs](#)

[DocOpen](#)

[FileOpen](#)

DocDeletePages

Deletes the specified pages in the document. Requests to delete all pages in a document are ignored because a document must have at least one page.

Syntax

```
[DocDeletePages(char* fullPath, long fromPage, long toPage)]
```

Parameters

<code>fullPath</code>	The full path of the document.
<code>fromPage</code>	The page number of the first page to be deleted.
<code>toPage</code>	The page number of the last page to be deleted.

Returns

`true` if the pages are deleted successfully. Returns `false` if the document specified by `fullPath` does not exist, if the request was to delete all the document's pages, or if the pages are not deleted successfully.

Related methods

[DocInsertPages](#)

[DocReplacePages](#)

DocFind

Finds a string in a specified file. This does not use a cross-document search, but instead performs a page-by-page search of the specified file.

Syntax

```
[DocFind(char* fullPath, char* string, boolean caseSensitive,  
         boolean wholeWords, boolean bReset)]
```

Parameters

<code>fullPath</code>	The full path of the file to be searched.
<code>string</code>	The string to be found.
<code>caseSensitive</code>	<code>true</code> if the search is case-sensitive, <code>false</code> otherwise.
<code>wholeWords</code>	<code>true</code> if the search will only match whole words, <code>false</code> otherwise.
<code>bReset</code>	<code>true</code> if the search begins on the first page of the document, <code>false</code> if the search begins on the current page.

Returns

`false` if the document specified by `fullPath` does not exist or if the text is not found, `true` otherwise.

DocGoTo

Goes to the specified page.

DocGoTo is also supported in Adobe Reader.

Syntax

```
[DocGoTo(char* fullPath, long pageNum)]
```

Parameters

<code>fullPath</code>	The full path of the file.
<code>pageNum</code>	The page number of the destination page.

Returns

`false` if the document specified by `fullPath` does not exist, `true` otherwise.

DocGoToNameDest

Goes to the specified named destination.

DocGoToNameDest is also supported in Adobe Reader.

Syntax

```
[DocGoToNameDest(char* fullPath, char* nameDest)]
```

Parameters

<code>fullPath</code>	The full path of the file.
<code>nameDest</code>	The named destination.

Returns

`false` if the document specified by `fullPath` does not exist, `true` otherwise.

DocInsertPages

Inserts pages from one file into another.

Syntax

```
[DocInsertPages(char* fullPath, long insertAfterPage, char* sourcePath)]
```

Parameters

<code>fullPath</code>	The full path of the target document, which must already be open in the Acrobat application.
<code>insertAfterPage</code>	The page number after which pages are being inserted. Possible values can be a page number or one of the following: <code>PDBeforeFirstPage</code> — Pages are inserted at the beginning of the document. <code>PDLastPage</code> — Pages are inserted at the end of the document.
<code>sourcePath</code>	The full path of the source document. This file need not be open in the Acrobat application.

Returns

`true` if the pages are inserted successfully, `false` if the document does not exist or the pages are not inserted successfully.

Related methods

[DocDeletePages](#)

[DocReplacePages](#)

DocOpen

Opens a document and adds it to the list of documents known to DDE, allowing it to be manipulated by other DDE messages (see [FileOpen](#)).

`DocOpen` is also supported in Adobe Reader.

Syntax

```
[DocOpen(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be opened.
-----------------------	---

Returns

`true` if the file is opened successfully, `false` otherwise.

Related methods

[CloseAllDocs](#)

[DocClose](#)

[FileOpen](#)

DocPageDown

Scrolls forward through the document by one screen area.

Syntax

```
[DocPageDown(char* fullPath)]
```

Parameters

fullPath	The full path of the document.
----------	--------------------------------

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPageLeft](#)

[DocPageRight](#)

[DocPageUp](#)

[DocScrollTo](#)

DocPageLeft

Scrolls to the left by a small amount.

Syntax

```
[DocPageLeft(char* fullPath)]
```

Parameters

fullPath	The full path of the document.
----------	--------------------------------

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPageDown](#)

[DocPageRight](#)

[DocPageUp](#)

[DocPageUp](#)

DocPageRight

Scrolls to the right by a small amount.

Syntax

```
[DocPageRight(char* fullPath)]
```

Parameters

fullPath	The full path of the document.
----------	--------------------------------

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPageDown](#)

[DocPageLeft](#)

[DocPageUp](#)

[DocPageUp](#)

DocPageUp

Scrolls backward through the document by one screen area.

Syntax

```
[DocPageUp(char* fullPath)]
```

Parameters

fullPath	The full path of the document.
----------	--------------------------------

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPageDown](#)

[DocPageLeft](#)

[DocPageRight](#)

[DocScrollTo](#)

DocPrint

Prints a specified range of pages from a document, without displaying any modal Print dialog box to the user. For PostScript printing, only Level 1 operators are used, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

Syntax

```
[DocPrint(char* fullPath, long startPage, long endPage)]
```

Parameters

<code>fullPath</code>	The full path of document.
<code>startPage</code>	The page number of the first page to be printed.
<code>endPage</code>	The page number of the last page to be printed.

Returns

`false` if the document specified by `fullPath` does not exist, `true` otherwise.

Related methods

[FilePrint](#)

[FilePrintSilent](#)

[FilePrintTo](#)

DocReplacePages

Replaces pages in the target document using the specified pages from the source document.

Syntax

```
[DocReplacePages(char* fullPath, long startDestPage,  
                 char* sourcePath, long startSourcePage,  
                 long endSourcePage)]
```

Parameters

<code>fullPath</code>	The full path of the target document. This file must already be open in the Acrobat application.
<code>startDestPage</code>	The page number of the first page in the target document to be replaced.
<code>sourcePath</code>	The full path of the source document. This file does not have to be already open in the Acrobat application.

<code>startSourcePage</code>	The page number of the first page in the source document to use as a replacement page.
<code>endSourcePage</code>	The page number of the last page in the source document to use as a replacement page.

Returns

`true` if the pages are replaced successfully. Returns `false` if the document does not exist or the pages are not replaced successfully.

Related methods

[DocDeletePages](#)

[DocInsertPages](#)

DocSave

Saves the specified file. The user is not warned if there are any problems saving the file.

Syntax

```
[DocSave(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be saved.
-----------------------	--

Returns

`true` if the document is saved successfully, `false` if the document does not exist or is not saved successfully.

Related methods

[DocSaveAs](#)

DocSaveAs

Saves an open file to a new path. The user is not warned if there are any problems saving the file.

Syntax

```
[DocSaveAs(char* fullPath, char* newPath)]
```

Parameters

<code>fullPath</code>	The full path of the existing file.
<code>newPath</code>	The full path of the new file.

Returns

`true` if the document is saved successfully, `false` if the document does not exist or is not saved successfully.

Related methods

[DocSave](#)

DocScrollTo

Scrolls the view of the current page to the specified location.

Syntax

```
[DocScrollTo(char* fullPath, int x, int y)]
```

Parameters

<code>fullPath</code>	The full path of the document.
<code>x</code>	The destination's x-coordinate.
<code>y</code>	The destination's y-coordinate.

Returns

`false` if the document specified by `fullPath` does not exist, `true` otherwise.

Related methods

[DocPageDown](#)

[DocPageLeft](#)

[DocPageRight](#)

[DocPageUp](#)

DocSetViewMode

Determines whether bookmarks, thumbnail images, or neither are shown in addition to the document.

Syntax

```
[DocSetViewMode(char* fullPath, char* viewType)]
```

Parameters

<code>fullPath</code>	The full path of the document.
<code>viewType</code>	The view mode to be used. Must be one of the following: <code>PDUseThumbs</code> — Displays pages and thumbnail images. <code>PDUseNone</code> — Displays only pages. <code>PDUseBookmarks</code> — Displays pages and bookmarks.

Returns

`true` if the view mode is set successfully, `false` if the document specified by `fullPath` does not exist or an unknown view mode is specified.

Related methods

[FullMenus](#)

[ShortMenus](#)

DocZoomTo

Sets the zoom for a specified document.

Syntax

```
[DocZoomTo(char* fullPath, char* zoomType, int scale)]
```

Parameters

<code>fullPath</code>	The full path of the file whose zoom to set.
<code>zoomType</code>	The zoom strategy to use. Must be one of the following: <code>AVZoomNoVary</code> — A fixed zoom, such as 100%. <code>AVZoomFitPage</code> — Fits the page in the window. <code>AVZoomFitWidth</code> — Fits the page's width into the window. <code>AVZoomFitVisibleWidth</code> — Fits the page's visible content into the window.
<code>scale</code>	The magnification specified as a percent (for example, 100 corresponds to a magnification of 1.0). <code>scale</code> is used only when <code>zoomType</code> is <code>AVZoomNoVary</code> .

Returns

`false` if the document specified by `fullPath` does not exist, or if `zoomType` has an unknown value.
Returns `true` otherwise.

FileOpen

Opens and displays the specified document. If the file is already open, it becomes the active document and appears in the front. This DDE message does not add the document to the list that can be manipulated using DDE messages; use [DocOpen](#) to do that.

`FileOpen` is also supported in Adobe Reader.

Syntax

```
[FileOpen(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be opened.
-----------------------	---

Returns

`true` if the file is opened successfully, `false` otherwise.

Related methods

[CloseAllDocs](#)

[DocClose](#)

[DocOpen](#)

FileOpenEx

Opens and displays a file. If the file is already open, it becomes the active document and appears in the front. This DDE message does not add the document to the list that can be manipulated using DDE messages; use [DocOpen](#) to do that.

This method allows documents that either take a long time to open or are password-protected to open without stopping the flow of DDE messages. Documents opened with `FileOpenEx` are opened during an idle period. This is useful in situations in which several DDE messages are sent at once, such as a multiple file select from Windows Explorer.

`FileOpenEx` is also supported in Adobe Reader.

Syntax

```
[FileOpenEx(char* fullPath)]
```

Parameters

fullPath	The full path of the file to be opened.
----------	---

Returns

true is always returned. The specified file may not actually open.

Related methods

[FileOpen](#)

[CloseAllDocs](#)

[DocClose](#)

[DocOpen](#)

FilePrint

Prints all pages in a document, displaying a modal print dialog box to the user. For PostScript printing, only Level 1 operators are used, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

FilePrint is also supported in Adobe Reader.

Syntax

```
[FilePrint(char* fullPath)]
```

Parameters

fullPath	The full path of the file to be printed.
----------	--

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPrint](#)

[FilePrintSilent](#)

[FilePrintTo](#)

FilePrintEx

Prints all pages in a document, displaying a modal print dialog box to the user. For PostScript printing, only Level 1 operators are used, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

Similar to `FileOpenEx`, this is a special DDE command that returns `true` right away and performs the action during idle periods. This ensures that no DDE commands are lost when printing a large number of files simultaneously.

`FilePrintEx` is also supported in Adobe Reader.

Syntax

```
[FilePrintEx(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to print.
-----------------------	-------------------------------------

Returns

`true` is always returned.

Related methods

[DocPrint](#)

[FileOpenEx](#)

[FilePrint](#)

[FilePrintSilent](#)

[FilePrintSilentEx](#)

[FilePrintTo](#)

[FilePrintToEx](#)

FilePrintSilent

Prints all pages in a document, without displaying a print dialog box to the user. For PostScript printing, only Level 1 operators are used, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

`FilePrintSilent` is also supported in Adobe Reader.

Syntax

```
[FilePrintSilent(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be printed.
-----------------------	--

Returns

`false` if the document specified by `fullPath` does not exist, `true` otherwise.

Related methods

[DocPrint](#)

[FilePrint](#)

[FilePrintTo](#)

FilePrintSilentEx

Prints all pages in a document, without displaying a print dialog box to the user. For PostScript printing, only Level 1 operators are used, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

Similar to `FileOpenEx`, this is a DDE command that returns `true` right away and does the action during idle periods. This is to ensure that no DDE commands are lost when printing a large number of files simultaneously.

`FilePrintSilentEx` is also supported in Adobe Reader.

Syntax

```
[FilePrintSilentEx(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be printed.
-----------------------	--

Returns

`true` is always returned.

Related methods

[DocPrint](#)

[FileOpenEx](#)

[FilePrintEx](#)

[FilePrintSilent](#)

[FilePrintTo](#)

[FilePrintToEx](#)

FilePrintTo

Prints all pages in a document to a specified printer, using a specified driver and port, displaying a modal print dialog box to the user. For PostScript printing, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

FilePrintTo is also supported in Adobe Reader.

Syntax

```
[FilePrintTo(char* fullPath, char* printName,  
            char* driverName, char* portName)]
```

Parameters

fullPath	The full path of the file to be printed.
printName	The name of the printer. Required for Windows 95 and later.
driverName	Printer driver name.
portName	Port name. Required for Windows NT.

Returns

false if the document specified by fullPath does not exist, true otherwise.

Related methods

[DocPrint](#)

[FilePrint](#)

[FilePrintSilent](#)

FilePrintToEx

Prints all pages in a document to a specified printer, using a specified driver and port, displaying a modal print dialog box to the user. For PostScript printing, only ASCII data is generated, and the document's pages are not shrunk to fit into the imageable area of the printed page.

Similar to FileOpenEx, this is a DDE command that returns true right away and does the action during idle periods. This is to ensure that no DDE commands are lost when printing a large number of files simultaneously.

FilePrintToEx is also supported in Adobe Reader.

Syntax

```
[FilePrintToEx(char* fullPath, char* printName,  
              char* driverName, char* portName)]
```

Parameters

<code>fullPath</code>	The full path of the file to be printed.
<code>printName</code>	The name of the printer. Required for Windows 95 and later.
<code>driverName</code>	Printer driver name.
<code>portName</code>	Port name. Required for Windows NT.

Returns

`true` is always returned.

Related methods

[DocPrint](#)

[FileOpenEx](#)

[FilePrintEx](#)

[FilePrintSilentEx](#)

[FilePrintTo](#)

[FilePrintToEx](#)

FullMenus

Displays full menus, and sets this option in the Acrobat application's preferences file.

With Acrobat 3.0 or later, all menus are displayed, and this function is ignored.

Syntax

```
[FullMenus ()]
```

Returns

`true` if full menus are set successfully, `false` otherwise.

Related methods

[DocSetViewMode](#)

[ShortMenus](#)

HideToolbar

Hides the toolbar.

Syntax

```
[HideToolbar ()]
```

Returns

true if the toolbar is hidden successfully, false otherwise.

Related methods

[ShowToolbar](#)

MenuItemExecute

Executes the menu item specified by its language-independent name.

Syntax

```
[MenuItemExecute (char* menuItemName)]
```

Parameters

menuItemName	The language-independent name of the menu item to execute. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
--------------	--

ShortMenus

Displays short menus, and sets this option in the Acrobat application's preferences file.

With Acrobat 3.0 or later, all menus are displayed, and this function is ignored.

Syntax

```
[ShortMenus ()]
```

Returns

true if short menus are set successfully, false otherwise.

Related methods

[DocSetViewMode](#)

[FullMenus](#)

ShowToolbar

Shows the toolbar.

Syntax

```
[ShowToolbar ()]
```

Returns

`true` if the toolbar is shown successfully, `false` otherwise.

Related methods

[HideToolbar](#)

3

Apple Event Objects and Apple Events

This chapter describes the supported Apple event objects, with descriptions of each object's elements and properties, and the supported Apple events.

Objects

Acrobat presents the following objects to the Apple event interface:

- [annotation](#)
- [application](#)
- [bookmark](#)
- [conversion](#)
- [document](#)
- [Link Annotation](#)
- [menu](#)
- [menu item](#)
- [page](#)
- [PDF Window](#)
- [Text Annotation](#)

annotation

An annotation on a page in a PDF file that corresponds to `PDAnnot`, an internal Acrobat class. This object was formerly known as `PDAnnot`.

Acrobat also has two built-in annotation objects. For more information, see [“Link Annotation” on page 149](#) and [“Text Annotation” on page 154](#).

Plural form

Annotations

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
bounds	a list of small real	The boundary rectangle for the annotation in PDF space (left, top, right, bottom).
class	type class [r/o]	The class.

Property	Class	Description
color	'RGB'	The color of the border around the annotation.
contents	international text	Text annotations only. The textual contents of the note.
default type	type class [r/o]	The default descriptor type.
destination page number	integer	Link annotations only. The page number to appear in the PDF window when the annotation link is activated.
destination rectangle	a list of small real	Link annotations only. The boundary rectangle (specified in user space) for the view of the destination. Coordinates are specified in the following order: left, top, right, bottom.
fit type	constant	Link annotations only. Determines how the destination rectangle is fitted to the window when the link is activated. Values are: <code>Left Top Zoom</code> , <code>Fit Page</code> , <code>Fit Width</code> , <code>Fit Height</code> , <code>Fit Rect</code> , <code>Fit BBox</code> , <code>Fit BB Width</code> , <code>Fit BB Height</code> . These are described in the <i>PDF Reference</i> .
index	integer [r/o]	The annotation's index within the page object.
modification date	date	The date and time the annotation was last modified.
name	string	Text annotations only. The annotation's label.
open state	Boolean	Text annotations only. Whether the annotation is open.
subtype	international text [r/o]	The subtype of the annotation.
zoom factor	small real	Link annotations only. If <code>fit type</code> is <code>Left Top Zoom</code> , this specifies the zoom factor; otherwise it is ignored. Setting this property automatically sets <code>fit type</code> to <code>Left Top Zoom</code> .

Related methods

[delete](#)

[perform](#)

application

The Acrobat or Adobe Reader application itself.

Elements

Element	Accessed by
document	name, numeric index
PDF Window	name, numeric index
menu	name, numeric index
menu item	name

Properties

Property	Class	Description
<code>active doc</code>	reference	The active document.
<code>active tool</code>	international text	The type of the currently active tool. See the <i>Acrobat and PDF Library API Reference</i> for a list of tool names.
<code>anti_alias text</code>	Boolean	Determines whether to anti-alias text and monochrome images.
<code>best type</code>	type class [r/o]	The best descriptor type.
<code>case sensitivity</code>	Boolean	Determines whether searches are case-sensitive.
<code>class</code>	type class [r/o]	The class.
<code>default type</code>	type class [r/o]	The default descriptor type.
<code>default zoom factor</code>	small real	The default zoom factor, in percent, used for displaying new documents. For example, a value of 100 corresponds to a zoom factor of 1.0 (100%).
<code>default zoom type</code>	constant	The default zoom type when opening a new document. Valid values are <code>no vary</code> , <code>fit page</code> , <code>fit width</code> , <code>fit height</code> , and <code>fit visible width</code> .
<code>download entire file</code>	Boolean	Determines whether to download the entire file.
<code>frontmost</code>	Boolean	Determines whether Acrobat is the frontmost application. Value can be set to true only.

Property	Class	Description
fullscreen click advances	Boolean	Determines whether mouse click advances in fullscreen mode.
fullscreen cursor	Boolean	Determines whether to hide the cursor in fullscreen mode.
fullscreen escape	Boolean	Determines whether the Esc key can be used to exit fullscreen mode.
fullscreen loop	Boolean [r/o]	Determines whether the document's pages are displayed in a loop while in fullscreen mode.
fullscreen timer delay	integer	The number of seconds to advance to the next page in fullscreen mode.
fullscreen transition	international text [r/o]	Default fullscreen transition.
highlight color	'RGB '	Color used to highlight selections.
maximum documents	integer [r/o]	Maximum number of open documents.
name	string [r/o]	The application's name.
note color	'RGB '	A list of three values between 0 and 65535 representing the color of the border around text annotations. For example, the following sets the note color to deep blue: <code>set the note color to {0, 0, 32768}</code> .
note font name	international text	Deprecated.
note font size	integer	Deprecated.
open in place	Boolean	Determines whether to open cross-document links in the same window.
page layout	international text	Default page layout. Values are: Single Page, Continuous, Facing, and Continuous - Facing.
page units	international text	Default page display units: Points, Inches or Millimeters.
PS level	integer	Deprecated. Set the PostScript level when using save or print pages commands.
save as linearize	Boolean	Determines whether to save the document as optimized for the web.
show splash at startup	Boolean	Determines whether the splash screen is shown at startup.

Property	Class	Description
skip warnings	Boolean	Determines whether to skip warning dialog boxes during program execution.
shrink to fit	Boolean	Deprecated.
text note label	international text	The text that will appear in the title bar of all newly created text notes.
toolbar visibility	Boolean	Determines whether the toolbar is visible.
UI language	international text [r/o]	A three-character language code identifying which language is used in the Acrobat user interface. Example: ENU represents English.
use fullscreen timer	Boolean	Determines whether to use a timer to advance pages in fullscreen mode
version	string [r/o]	The version number of the application.
whole word searching	Boolean	Determines whether searches are applied to whole words only.

Related methods

[close all docs](#)

[count](#)

[make](#)

[open](#)

[print](#)

[quit](#)

[run](#)

AVPageView

Note: Deprecated. Use [PDF Window](#) instead.

bookmark

A bookmark on a page in a PDF file. Corresponds to Acrobat's `PDBookmark` object.

Note: This object was formerly known as `PDBookmark`.

Plural form

Bookmarks

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.
destination page number	integer	The page number to which the PDF Window goes when the bookmark's action is performed.
destination rectangle	list of small real	Boundary rectangle (specified in user space) for the view of the destination when the bookmark's action is performed. Coordinates are specified in the following order: (left, top, right, bottom). Note: Set this only after setting <code>fit type</code> .
fit type	constant	Controls how the destination rectangle is fitted to the window when the bookmark's action is performed. Possible values: <code>Left Top Zoom</code> — Sets a specified zoom and a specified location on the page. <code>Fit Page</code> — Sets the zoom factor so that the entire page fits into the window. <code>Fit Width</code> — Sets the zoom factor so that the width of the page fits into the window. <code>Fit Height</code> — Sets the zoom factor so that the height of the page fits into the window. <code>Fit Rect</code> — Sets the zoom factor so that the specified rectangle fits into the window. <code>Fit BBox</code> — Sets the zoom so that the rectangle enclosing all marks on the page (known as the bounding box) fits into the window. <code>Fit BB Width</code> — Sets the zoom factor so that the width of the bounding box fits into the window. <code>Fit BB Height</code> — Sets the zoom factor so that the height of the bounding box fits into the window.
index	integer [r/o]	The bookmark's index within the document .
name	international text	The bookmark's title.
zoom factor	small real	The zoom factor used when <code>fit type</code> is <code>Left Top Zoom</code> ; ignored otherwise. Setting this property automatically sets <code>fit type</code> to <code>Left Top Zoom</code> .

Related methods

[insert pages](#)

[perform](#)

conversion

A file type converter that exports PDF files into other formats. Conversions correspond to the list of formats specified in the Acrobat Save As menu. A list of formats can be obtained as follows:

```
get every conversion
```

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.
index	integer [r/o]	The index number of the converter.
name	international text	The conversion's description.

Related methods

[save](#)

document

Represents a single open document in Acrobat or Adobe Reader.

Elements

Element	Accessed by
page	Numeric index. The first page in a document is page 1.
bookmark	Name or numeric index.
PDF Window	An index of 1 or with the <code>some</code> keyword in AppleScript. No document has more than one PDF Window.

Plural form

documents

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
bounds	bounding rectangle [r/o]	The boundary rectangle for the document's window, in screen coordinates (left, top, right, bottom).
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.
file alias	alias [r/o]	An alias for the file to which the document will be saved if no other name is specified; this is usually the same path from which the document was read.
modified	Boolean [r/o]	Determines whether the document has been modified and should be saved.
name	international text [r/o]	The document's name as it appears in the window's titlebar.
view mode	constant	The viewing mode of the document. Possible values: just pages, pages and thumbs, or pages and bookmarks.

Related methods

[bring to front](#)

[clear selection](#)

[close](#)

[count](#)

[create thumbs](#)

[delete](#)

[delete pages](#)

[delete thumbs](#)

[find next note](#)

[find text](#)

[get info](#)

[insert pages](#)

[maximize](#)

[print pages](#)

[replace pages](#)

[save](#)

[set info](#)

EPS Conversion

A file type converter that exports PDF files into EPS format.

Properties

Inherits from [PostScript Conversion](#).

Related methods

[save](#)

Link Annotation

A link annotation on a page in a PDF file. Can only be used as the target of a [make](#) event. All other access is via the [annotation](#) class.

Note: This object was formerly known as [PDLinkAnnot](#).

Properties

Inherits from [annotation](#).

Related methods

[delete](#)

[perform](#)

menu

A menu in the Acrobat or Adobe Reader menu bar.

Elements

Element	Accessed by
menu item	name, numeric index.

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.

Property	Class	Description
name	international text [r/o]	The menu's name (a language-independent name that uniquely identifies the menu). See the <i>Acrobat and PDF Library API Reference</i> for a list of menu names.
title	string [r/o]	The menu's title as it would appear in the user interface.

Related methods

[execute](#)

menu item

A menu item contained within a menu in Acrobat or Adobe Reader.

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.
enabled	Boolean [r/o]	Determines whether the menu item is enabled.
has submenu	Boolean [r/o]	Determines whether the menu item has a hierarchical sub-menu.
marked	Boolean [r/o]	Determines whether the menu item is checked.
name	international text [r/o]	The menu item's language-independent name. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
title	string [r/o]	The menu's title as it would appear in the user interface.

Related methods

[execute](#)

page

A single page in the PDF representation of a document. Corresponds to Acrobat's internal `PDPage` object.

Note: This object was formerly known as `PDPage`.

Elements

Element	Accessed by
annotation	numeric index.

Plural form

Pages

Properties

Property	Class	Description
best type	type class [r/o]	The best descriptor type.
bounds	list of small real	The boundary rectangle for the page in user space (left, top, right, bottom).
class	type class [r/o]	The class.
default type	type class [r/o]	The default descriptor type.
page number	integer [r/o]	The page's number. The first page in a document is page 1.
rotation	integer	The rotation angle of the page in degrees (0, 90, 180, or 270).

Related methods

[delete pages](#)

[insert pages](#)

[replace pages](#)

[goto](#)

[move](#)

PDAnnot

Note: Deprecated. Use [annotation](#) instead.

PDBookMark

Note: Deprecated. Use [bookmark](#) instead.

PDLinkAnnot

Note: Deprecated. Use [Link Annotation](#) instead.

PDPage

Note: Deprecated. Use [page](#) instead.

PDTextAnnot

Note: Deprecated. Use [Text Annotation](#) instead.

PDF Window

The area of the Acrobat or Adobe Reader window that displays the contents of a page within the document. Corresponds to the Acrobat internal `AVPageView` object. A document that is not visible does not have a PDF Window.

Note: This object was formerly known as `AVPageView`.

Elements

Element	Accessed by
page	numeric index. The first page in a document is page 1.

Properties

Property	Class	Description
<code>best type</code>	type class [r/o]	The best descriptor type.
<code>bounds</code>	bounding rectangle	The boundary rectangle for the window.
<code>class</code>	type class [r/o]	The class.
<code>default type</code>	type class [r/o]	The default descriptor type.
<code>document</code>	document [r/o]	The document that owns this window.
<code>index</code>	integer	The number of the window.
<code>name</code>	international text [r/o]	The document's name as shown in the window's titlebar.
<code>page number</code>	integer	The number of the currently displayed page.

Property	Class	Description
position	point [r/o]	The upper left coordinates of the window.
visible	Boolean [r/o]	Whether the window is visible.
zoomed	Boolean	Whether the window is zoomed.
zoom factor	small real	The current zoom factor specified as a percentage. For example, a value of 100 corresponds to a zoom factor of 1.0 (100%).
zoom type	constant	The zooming and content fitting algorithm currently employed. Possible values: no vary, fit page, fit width, fit height, and fit visible width.

Related methods

[go backward](#)

[go forward](#)

[goto](#)

[goto next](#)

[goto previous](#)

[read page down](#)

[read page up](#)

[scroll](#)

[select text](#)

[zoom](#)

PostScript Conversion

A file type converter that exports PDF files into PostScript format.

Properties

Inherits other properties from [conversion](#).

Property	Class	Description
annotations	Boolean [r/o]	Determines whether to include annotations.
binary	Boolean [r/o]	Determines whether the output file should be in binary or ASCII text format.

Property	Class	Description
<code>embedded fonts</code>	Boolean [r/o]	Determines whether to include fonts.
<code>halftones</code>	Boolean [r/o]	Determines whether to use halftone screens.
<code>images</code>	Boolean [r/o]	Determines whether to include RGB and LAB images.
<code>postScript level</code>	integer [r/o]	The PostScript Language level. Only levels 2 and 3 are supported.
<code>preview</code>	Boolean [r/o]	Determines whether to include preview in output.
<code>TrueType</code>	Boolean [r/o]	Determines whether to convert TrueType fonts to Type 1.

Related methods

[save](#)

Text Annotation

A PDF text annotation (note) on a page in a PDF file. Can only be used as the target of a [make](#) event. All other access is via the [annotation](#) class.

Note: This object was formerly known as `TextAnnot`.

Properties

Inherits from [annotation](#).

Related methods

[find next note](#)

[perform](#)

[replace pages](#)

Required suite events

The following events are sent by the Finder to all applications:

- [open](#)
- [print](#)
- [quit](#)
- [run](#)

Note: Most of these events have counterparts in the Core suite that have greater functionality. The Required suite is not listed in the AppleScript dictionary, even though it is implemented.

Adobe Reader also supports the Required suite events, but no others.

open

Opens a file.

Syntax

```
open [reference]
```

Parameters

open	The file or files to open.
------	----------------------------

print

Prints one or more files.

Syntax

```
print [reference]
```

Parameters

print	The file or files to print.
-------	-----------------------------

quit

Terminates an application. For information on a variant event in the Core suite that accepts options, see [quit on page 160](#).

Syntax

```
quit
```

run

Launches the application and invokes its standard startup procedures.

Syntax

```
run
```

Core suite events

Acrobat supports the following subset of the Core suite of Apple events:

- [close](#)
- [count](#)
- [delete](#)
- [exists](#)
- [get](#)
- [make](#)
- [move](#)
- [open](#)
- [quit](#)
- [save](#)
- [set](#)

close

Closes a document.

Syntax

```
close [reference] saving [constant] linearize [boolean]
```

Parameters

close	The document to close.
saving	Determines whether to save a document that has been modified before quitting. Possible values: yes — Save the document. no — Do not save the document. ask — Ask the user whether to save the document. The default value is ask.
linearize	Determines whether the document should be optimized for the web when saving before closing.

Related events

[open](#)

count

Counts the number of instances of a particular class.

Syntax

```
count [type class] of [reference]
```

Parameters

count	The class whose instances are to be counted.
each	The class whose instances are to be counted. This keyword is optional.

Note: There is an alternate form using the keyword `each` in which the parameters are reversed:

```
count [reference] each [type class]
```

Returns

An integer specifying the number of elements.

AppleScript example

```
count annotation of document "dev_acro.pdf"  
count menu item of menu "View"  
count document 1 each bookmark
```

delete

Deletes one or more objects.

Syntax

```
delete [reference]
```

Parameters

delete	The object to be deleted.
--------	---------------------------

Related events

[make](#)

[exists](#)

AppleScript example

```
delete first bookmark of document "test.pdf"
```

exists

Tests whether a specified object exists.

Syntax

```
[reference] exists  
exists [reference]
```

Parameters

exists	Object whose existence is checked.
--------	------------------------------------

Returns

true if the object exists, false otherwise.

AppleScript example

```
exists second document  
second document exists
```

get

Retrieves the value of an object or property.

Syntax

```
get [reference] as [class]
```

Note: The keyword `get` is optional.

Parameters

get	The object or property whose value is returned.
as	The form in which the data is returned.

Returns

The value of the specified property or object. If the specified object does not exist, no result is returned.

Related events

[set](#)

AppleScript example

```
get the name of last bookmark  
get the index of last bookmark as string
```

make

Creates a new object.

Syntax

```
make new [type class] at [location reference] with data [anything] with  
properties [record]
```

Parameters

make [<i>new</i>]	The class of the new object.
at	The location at which to insert the new object.
with data	The initial data for the new object.
with properties	The initial values for the properties of the new object.

Returns

A reference to the newly created object.

Related events

[delete](#)

[exists](#)

AppleScript example

```
set myAnnotation to make TextAnnotation at beginning  
set name of myAnnotation to "Werner Heisenberg"  
set contents of myAnnotation to "Might have been here"
```

move

Moves a [page](#) object.

Syntax

```
move [reference] to [location reference]
```

Parameters

<code>move</code>	The page object to move. The first page in a document is page 1.
<code>to</code>	The new location for the page.

Returns

A reference to the page that is moved.

AppleScript example

```
move page 3 to before page 1
```

open

Opens a document or documents.

Syntax

```
open [list of alias] invisible [boolean] options [string]
```

Parameters

<code>open</code>	The document or documents to open.
<code>invisible</code>	Whether the opened document should be hidden. Default is <code>false</code> .
<code>options</code>	Optional parameter string of open actions.

Related events

[close](#)

quit

Causes the Acrobat application to quit.

Syntax

```
quit saving [constant]
```

Parameters

<code>saving</code>	Determines whether to save documents that have been modified before quitting. Possible values: <code>yes</code> — Save the document. <code>no</code> — Do not save the document. <code>ask</code> — If the documents have been modified, ask the user whether to save them. The default value is <code>ask</code> .
---------------------	--

AppleScript example

```
quit saving yes
```

save

Saves a document.

Syntax

```
save [reference] to [file specification] using [reference] linearize[ boolean]
```

Parameters

save	The document to be saved.
to	The file into which the document is to be saved. This parameter is optional in Acrobat 6.0 and higher. Specifying the <code>to</code> parameter is equivalent to doing a Save As. You can save a document in one of the supported formats with the <code>using</code> parameter.
linearize	Determines whether the document should be optimized for the web.
using	The conversion method used to save the document in the desired format. Supported conversions by name are EPS Conversion and PostScript Conversion . All others can be specified by index using the conversion object.

AppleScript example

```
save document 1 to file "MyHardDrive:tempBig.ps" using PostScript Conversion  
with embedded fonts, images, preview, and annotation without binary given  
postScript level: 1
```

set

Sets an object's data or properties.

Syntax

```
set [reference] to [anything]
```

Parameters

set	The object or property whose value is set.
to	The new value.

Related events

[get](#)

AppleScript example

```
set the name of first bookmark to "Chapter 1"
```

Acrobat application events

This section describes a number of Acrobat API calls for the Apple event interface that are specific to Acrobat applications. The supported events in this suite are:

- [bring to front](#)
- [clear selection](#)
- [close all docs](#)
- [create thumbs](#)
- [delete pages](#)
- [delete thumbs](#)
- [execute](#)
- [find next note](#)
- [find text](#)
- [get info](#)
- [go backward](#)
- [go forward](#)
- [goto](#)
- [goto next](#)
- [goto previous](#)
- [insert pages](#)
- [is toolbutton enabled](#)
- [maximize](#)
- [perform](#)
- [print pages](#)
- [read page down](#)
- [read page up](#)
- [remove toolbutton](#)
- [replace pages](#)
- [scroll](#)
- [select text](#)
- [set info](#)
- [zoom](#)

Apple encourages the use of an application's signature as the name of its class for application-specific Apple events. The string `CARO` is the name of the class for Acrobat-specific Apple events:

```
#define kAEAcrobatViewerClass 'CARO'
```

AppleScript does not need this information.

bring to front

Brings the specified document's window to the front.

Syntax

```
bring to front [reference]
```

Parameters

bring to front	The document to be displayed as the active document in the front window.
----------------	--

AppleScript example

```
bring to front document "AppleEvt.pdf"
```

Apple event ID

```
kAEBringToFront ('bfrt')
```

clear selection

Clears the document's current selection, if any.

Syntax

```
clear selection [reference]
```

Parameters

clear selection	The document containing the selection to be cleared
-----------------	---

Related events

[select text](#)

AppleScript example

```
clear selection document "PLUGINS.PDF"
```

Apple event ID

```
kAEClearSelection ('cls1')
```

close all docs

Closes all documents.

Syntax

```
close all docs saving [constant]
```

Parameters

saving	Determines whether to save modified documents before closing. Possible values: yes — Save the document. no — Do not save the document. ask — If the document has been modified, ask the user whether to save it. The default value is ask.
--------	--

Related events

[open](#) (Required suite)

[open](#) (Core suite)

AppleScript example

```
close all docs
```

Apple event ID

```
kAECloseAllDocs ('cldc')
```

create thumbs

Creates thumbnail images for all pages in the document.

Syntax

```
create thumbs [reference]
```

Parameters

create thumbs	The document in which thumbnails are created.
---------------	---

Related events

[delete thumbs](#)

AppleScript example

```
create thumbs document "roadmap.pdf"
```

Apple event ID

```
kAECreateThumbs ('crtb')
```

delete pages

Deletes the specified pages in the document.

Syntax

```
delete pages [reference] first [integer] last [integer]
```

Parameters

<code>delete pages</code>	The document containing the pages to be deleted.
<code>first</code>	The first page to be deleted. The first page in a document is page 1.
<code>last</code>	The last page to be deleted.

Related events

[insert pages](#)

[replace pages](#)

AppleScript example

```
delete pages document "AppleEvt.pdf" first 1 last 3
```

Apple event ID

```
kAEDeletePages ('dlpg')
```

Apple event parameters

```
keyAEFirstPage ('frpg')  
keyAELastPage ('lapg')
```

delete thumbs

Deletes all thumbnails from the document.

Syntax

```
delete thumbs [reference]
```

Parameters

<code>delete thumbs</code>	The document from which thumbnails are deleted.
----------------------------	---

Related events

[create thumbs](#)

AppleScript example

```
delete thumbs document "AppleEvt.pdf"
```

Apple event ID

```
kAEDeleteThumbs ('dltb')
```

execute

Executes the specified menu item.

Syntax

```
execute [reference]
```

Parameters

<code>execute</code>	The menu item to execute. See the <i>Acrobat and PDF Library API Reference</i> for a list of menu item names.
----------------------	---

AppleScript example

```
activate  
execute menu item "Open"
```

Apple event ID

```
kAEEExecute ('exec')
```

find next note

Finds and selects the next text note in a document.

Syntax

```
find next note [reference] wrap around [boolean]
```

Parameters

<code>find next note</code>	The document in which to find the next text note.
<code>wrap around</code>	Determines whether to continue the search at the beginning of a document if a note has not been found after the end of the document is reached. If <code>true</code> , the search wraps around; otherwise it does not. The default value is <code>false</code> .

Returns

The text annotation found.

Related events

[find text](#)

AppleScript example

```
find next note document "dev_acro.pdf"
```

Apple event ID

```
kAEFindNextNote ('fnnt')
```

Apple event parameters

```
keyAETWrapAround ('wrar')
```

find text

Finds text in a document.

Syntax

```
find text [reference] string [international text] case sensitive [boolean]  
whole words [boolean] wrap around [boolean]
```

Parameters

<code>find text</code>	The document to be searched.
<code>string</code>	The string to be found.
<code>case sensitive</code>	Determines whether searching is case-sensitive. The default value is <code>false</code> .
<code>whole words</code>	Determines whether to search only for whole words. The default value is <code>false</code> .
<code>wrap around</code>	Determines whether to continue the search at the beginning of a document if the specified text has not been found after the end of the document is reached. If <code>true</code> , the search wraps around; otherwise it does not. The default value is <code>false</code> .

Related events

[find next note](#)

AppleScript example

```
find text document "PLUGINS.PDF" string "Develop" whole words true
```

Apple event ID

```
kAEFindText ('ftxt')
```

Apple event parameters

```
keyAERearchString ('sstr')  
keyAECASESensitive ('case')  
keyAEWholeWordsOnly ('whwd')  
keyAEWrapAround ('wrar')
```

get info

Gets the value of the specified key in the document's `Info` dictionary.

Syntax

```
get info [reference] key [international text]
```

Parameters

<code>get info</code>	The document from which to obtain the <code>Info</code> dictionary entry.
<code>key</code>	The case-sensitive <code>Info</code> dictionary key whose value is to be obtained. The predefined keys are: <code>Creator</code> , <code>Producer</code> , <code>CreationDate</code> , <code>Author</code> , <code>Title</code> , <code>Subject</code> , and <code>Keywords</code> . None of these is required in the PDF file.

Returns

A string containing the specified key's value, or an empty string if the key is not found.

AppleScript example

```
get info document "PLUGINS.PDF" key "CreationDate"
```

Apple event ID

```
kAEGGetInfo ('gnfo')
```

Apple event parameters

```
keyAEInfoKey ('inky')
```

go backward

Goes to the previous view in the stored view history. Does nothing if the current view is the first view in the history.

Syntax

```
go backward [reference]
```

Parameters

<code>go backward</code>	A PDF Window object
--------------------------	-------------------------------------

Related events

[go forward](#)

[goto](#)

[goto next](#)

[goto previous](#)

AppleScript example

```
go backward first PDF Window
```

Apple event ID

```
kAEGoBack ('gbck')
```

go forward

Goes to the next view in the stored view history. Does nothing if the current view is the last view in the history.

Syntax

```
go forward [reference]
```

Parameters

go forward	A PDF Window object
------------	-------------------------------------

Related events

[go backward](#)

[goto](#)

[goto next](#)

[goto previous](#)

AppleScript example

```
go forward first PDF Window
```

Apple event ID

```
kAEGoForward ('gfwd')
```

goto

Displays the page that has the specified page number.

Syntax

```
goto [reference] page [integer]
```

Parameters

goto	The PDF Window object in which to change the page.
page	The page number of the page to be displayed. The first page in a document is page 1.

Related events

[go backward](#)

[go forward](#)

[goto next](#)

[goto previous](#)

AppleScript example

```
goto first PDF Window page 2
```

Apple event ID

```
kAEGotoPage ('gtpg')
```

Apple event parameters

```
keyAEPageNumber ('pg #')
```

goto next

Displays the next page after the one currently displayed in the [PDF Window](#). Does nothing if the current page is the last page in the document.

Syntax

```
goto next [reference]
```

Parameters

goto next	The PDF Window object in which to change the page.
-----------	--

Related events

[go backward](#)

[go forward](#)

[goto](#)

[goto previous](#)

AppleScript example

```
goto next first PDF Window
```

Apple event ID

```
kAEGotoNextPage ('nxpg')
```

goto previous

Displays the previous page before the one currently displayed in the [PDF Window](#). Does nothing if the current page is the first page in the document.

Syntax

```
goto previous [reference]
```

Parameters

goto previous	The PDF Window object in which to change the page.
---------------	--

Related events

[go backward](#)

[go forward](#)

[goto](#)

[goto next](#)

AppleScript example

```
goto previous first PDF Window
```

Apple event ID

```
kAEGotoPrevPage ('pvpg')
```

insert pages

Inserts one or more pages from one document into another.

Syntax

```
insert pages [reference] after [integer] from [reference] starting with  
[integer] number of pages [integer] insert bookmarks [boolean]
```

Parameters

<code>insert pages</code>	The target document in which to insert the page or pages.
<code>after</code>	The number of the page after which the pages will be inserted. The first page in a document is page 1.
<code>from</code>	The source document containing the page or pages to be inserted.
<code>starting with</code>	The first page to be inserted.
<code>number of pages</code>	The number of pages to be inserted.
<code>insert bookmarks</code>	Determines whether to copy bookmarks that point to the inserted pages. Default is <code>true</code> .

Related events

[delete pages](#)

AppleScript example

```
insert pages document "AppleEvt.pdf" after 2 from document "dev_acro.pdf"  
starting with 1 number of pages 4
```

Apple event ID

```
kAEInsertPages ('inpg')
```

Apple event parameters

```
keyAEInsertAfter ('inaf')  
keyAESourceDoc ('srdc')  
kAESourceStartPage ('stpg')  
keyAENumPages ('nmpg')  
keyAEInsertBookmarks ('inbm')
```

is toolbar enabled

Determines whether the specified toolbar button is enabled.

Syntax

```
is toolbar enabled named [international text]
```

Parameters

<code>named</code>	Button name. See the <i>Acrobat and PDF Library API Reference</i> for a list of toolbar button names.
--------------------	---

Returns

`true` if the toolbar button is enabled, `false` otherwise.

Related events

[remove toolbarbutton](#)

AppleScript example

```
is toolbarbutton enabled named "AcroSrch:Query"
```

Apple event ID

```
kAEIsToolButtonEnabled ('tben')
```

Apple event parameters

```
keyAEButtonname ('tbnm')
```

maximize

Sets the document's window size to either its maximum or original size.

Syntax

```
maximize [reference] max size [integer]
```

Parameters

<code>maximize</code>	The document whose window is to be resized.
<code>max size</code>	If <code>true</code> , the document's window is set to full size. If <code>false</code> , the window is returned to its original size.

AppleScript example

```
maximize document "AppleEvt.pdf" max size false
```

Apple event ID

```
kAEMaximize ('maxi')
```

Apple event parameters

```
keyAEMaxSize ('mxsz')
```

perform

Executes a bookmark's or link annotation's action.

Syntax

```
perform [reference]
```

Parameters

object	The bookmark or page object whose action is to be performed.
--------	--

AppleScript example

```
perform last bookmark
```

Apple event ID

```
kAEPPerform ('prfm')
```

print pages

Prints one or more pages from a document without displaying a modal Print dialog box.

Syntax

```
print pages [reference] first [integer] last [integer] PS Level [integer]  
binary output [boolean] shrink to fit [boolean]
```

Parameters

print pages	The document containing the page or pages to be printed. This keyword and the actual filename must be specified.
first	The first page to be printed. The default value is 1.
last	The last page to print. The default value is the number of the last page in the document.
PS Level	The PostScript language level (1 or 2) to use when printing to a PostScript printer. The default value is 1.
binary output	Determines whether binary output is permitted (used for PostScript printing only). The default value is <code>false</code> .
shrink to fit	Determines whether pages should be shrunk to fit paper in printer. The default value is <code>false</code> .

AppleScript example

```
print pages document "AppleEvt.pdf" first 1 last 3 PS Level 2 binary output  
true shrink to fit true
```

Apple event ID

kAEPrintPages ('prpg')

Apple event parameters

keyAEFirstPage ('frpg')
keyAELastPage ('lapg')
keyAEPSLevel ('pslv')
keyAEBinaryOK ('binO')
keyAEShrinkToFit ('s2ft')

read page down

Scrolls forward through the document by one screen.

Syntax

read page down [*reference*]

Parameters

read page down	The PDF Window object to be scrolled.
----------------	---

Related events

[read page up](#)

[scroll](#)

AppleScript example

```
read page down first PDF Window
```

Apple event ID

kAEReadPageDown ('pgdn')

read page up

Scrolls backward through the document by one screen.

Syntax

read page up [*reference*]

Parameters

read page up	The PDF Window object to be scrolled.
--------------	---

Related events

[read page down](#)

[scroll](#)

AppleScript example

```
read page up first PDFPageWindow
```

Apple event ID

```
kAEReadPageUp ('pgup')
```

remove toolbarbutton

Removes the specified button from the toolbar.

Syntax

```
remove toolbarbutton named [international text]
```

Parameters

named	The name of the toolbar button to be removed. See the <i>Acrobat and PDF Library API Reference</i> for a list of toolbar button names.
-------	--

Related events

[is toolbarbutton enabled](#)

AppleScript example

```
remove toolbarbutton named "ZoomIn"
```

Apple event ID

```
kAERemoveToolButton ('rmtb')
```

Apple event parameters

```
keyAEBUTTONNAME ('tbnm')
```

replace pages

Replaces one or more pages in a document with pages from another document.

Syntax

```
replace pages [reference] over [integer] from [reference] starting with  
[integer] number of pages [integer] merge notes [boolean]
```


Parameters

<code>replace pages</code>	The target document whose pages are to be replaced.
<code>over</code>	The first page to be replaced. The first page in a document is page 1.
<code>from</code>	The source document from which the replacement page or pages are obtained.
<code>starting with</code>	The first page in the source document to be copied.
<code>number of pages</code>	The number of pages to be replaced.
<code>merge notes</code>	Determines whether to copy notes from the source document. The default value is <code>true</code> .

Related events

[delete pages](#)

[insert pages](#)

AppleScript example

```
replace pages document "AppleEvt.pdf" over 2 from document "dev_acro.pdf"  
starting with 1 number of pages 4 merge notes false
```

Apple event ID

```
kAEReplacePages ('rppg')
```

Apple event parameters

```
keyAEDestStartPage ('dtpg')  
keyAESourceDoc ('srdc')  
keyAESourceStartPage ('stpg')  
keyAENumPages ('nmpg')  
keyAEMergeNotes ('mgnt')
```

scroll

Scrolls the view of a page by the specified amount.

Syntax

```
scroll [reference] X Amount [integer] Y Amount [integer]
```

Parameters

<code>scroll</code>	The PDF Window object in which to scroll the view.
<code>X Amount</code>	The amount to scroll in the horizontal direction, in pixels. Positive values move the view to the right.
<code>Y Amount</code>	The amount to scroll in the vertical direction, in pixels. Positive values move the view down.

Related events

[read page down](#)

[read page up](#)

AppleScript example

```
scroll first PDFWindow X Amount 20 Y Amount 100
```

Apple event ID

```
kAEScroll ('sctl')
```

Apple event parameters

```
keyAEXDelta ('xdlt')
```

```
keyAEYDelta ('ydlt')
```

select text

Selects text as specified by either character or word offsets.

Syntax

```
select text [reference] from words [list of integer] from chars [list of integer]
```

Parameters

select text	The PDF Window object in which to select text.
from words	The words to be selected. This consists of one or more pairs of word offsets from the beginning of the document and word lengths (the number of contiguous words).
from chars	Characters to be selected. This consists of one or more pairs of character offsets from the beginning of the document and character lengths (the number of contiguous characters).

Related events

[clear selection](#)

AppleScript example

```
repeat with i from 1 to 10
  repeat with j from 1 to (10 - i)
    select text from words {i, j}
  end repeat
end repeat
```

Apple event ID

```
kAESetTextSelection ('stxs')
```

Apple event parameters

```
keyAEWordList ('fmwd')  
keyAECharList ('fmch')
```

set info

Sets the value of a specified key in the document's `Info` dictionary

Syntax

```
set info [reference] key [international text] value [international text]
```

Parameters

<code>set info</code>	The PDF Window in which to set the value of an <code>Info</code> dictionary entry.
<code>key</code>	The <code>Info</code> dictionary key whose value is to be set.
<code>value</code>	The value to be stored.

AppleScript example

```
set info document "PlugIns.pdf" key "Author"  
value "Wolfgang Pauli"
```

Apple event ID

```
kAESetInfo ('snfo')
```

Apple event parameters

```
keyAEInfoKey ('inky')  
keyAEInfoValue ('invl')
```

zoom

Changes the zoom level of the specified [PDF Window](#).

Syntax

```
zoom [reference] to [small real]
```

Parameters

<code>zoom</code>	The PDF Window object to be zoomed.
<code>to</code>	The zoom factor specified as a percentage. For example, a value of 100 (100%) displays the document with a magnification of 1.0.

AppleScript example

```
zoom first PDFWindow to 150
```

Apple event ID

```
kAEZoomTo ('zmtO')
```

Apple event parameters

```
keyAEZoomFactor ('zmfT')
```

Miscellaneous events

Acrobat provides an Apple event that does not fall into one of the regular suites: [do script](#)

do script

Executes the specified JavaScript script.

Syntax

```
do script [international text] file [alias]
```

Parameters

<code>do script</code>	The JavaScript script to be executed.
<code>file</code>	File holding the JavaScript script to be executed.

Returns

Result of JavaScript execution as text.

AppleScript example

```
do script MyJavaScriptFile.js
```

4

Acrobat Catalog Plug-In

This chapter describes IAC support for the Acrobat Catalog plug-in, which allows you to create a full-text index of a set of PDF documents. A full-text index is a searchable database of all the text in the documents. After building an index, you can use the Acrobat Search command to search the entire library quickly. Searches of full-text indexes created using Catalog are faster and more convenient than using the Find command.

For more information on Catalog, see the Acrobat Help and the *Acrobat and PDF Library API Reference*.

Catalog Windows messages

Catalog broadcasts a set of Windows messages when certain operations occur. These messages are broadcast whether the operations are initiated from the user interface, HFT methods, or DDE methods.

`AcrobatCatalogBuildSuccess` — On every successful build.

`AcrobatCatalogBuildFail` — On every failed build.

`AcrobatCatalogBuildStopped` — When a build has stopped.

Catalog DDE methods

Clients can connect to the Catalog plug-in through DDE using the service name `Acrobat` and the topic name `Control`. This section lists the available DDE methods.

AppExit

Exits Acrobat Catalog.

Syntax

```
[AppExit ()]
```

Returns

If `true`, Catalog exited successfully, otherwise `false`.

AppFront

Brings Catalog to the front.

Syntax

```
[AppExit ()]
```

FileBuild

Builds an index based on the specified index definition file.

Syntax

```
[FileBuild(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be opened, including the .pdx extension.
-----------------------	---

Returns

If `true`, the file opened successfully, otherwise `false`.

FileOpen

Opens an index definition file and displays the Edit Index Definition dialog box.

Syntax

```
[FileOpen(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be opened, including the .pdx extension.
-----------------------	---

Returns

`true` if the file opened successfully, otherwise `false`.

FilePurge

Purges an index definition file.

Syntax

```
[FilePurge(char* fullPath)]
```

Parameters

<code>fullPath</code>	The full path of the file to be purged, including the .pdx extension.
-----------------------	---

Returns

`true` if the file was successfully purged, otherwise `false`.

The Acrobat Forms plug-in allows a PDF document to act as a form; that is, the Acrobat equivalent of a paper form with fields. This chapter describes the OLE automation methods exported by the Acrobat AcroForm plug-in.

The Forms plug-in for Acrobat (versions 4.0 and above) allows users to author form fields. For Adobe Reader, the Forms plug-in does not allow form authoring, but allows users to fill in data and print Acrobat forms. The Adobe Reader Forms plug-in also does not allow users to save data to the local hard disk. Both Acrobat and Adobe Reader allow Web designers to send data from the form back to a Web server.

Note: Forms as used here do not refer to `XObject` forms as defined in the *PDF Reference*.

For more information on Forms, see the Acrobat Help and the *Acrobat and PDF Library API Reference*.

Forms plug-in OLE automation

The Acrobat Forms plug-in works as an automation server in the Windows environment. Because the automation capabilities have been added to a plug-in, rather than an executable that can be directly launched, the following steps are necessary to access them from an automation controller:

1. Instantiate the Acrobat application by using the Visual Basic `CreateObject` method. For example:

```
CreateObject ("AcroExch.App")
```

This causes the Acrobat Forms plug-in to run, at which time it registers its class object with OLE.

2. Instantiate the main exposed object:

```
CreateObject ("AFormAut.App")
```

Registration in the Windows registry (which is different from the class object registration described above) happens every time Acrobat loads the plug-in. Therefore, you must run Acrobat at least once with the `AForm32.api` file in the plug-ins folder before its type library can be found for object browsing within the Microsoft Visual Studio environment. This is also necessary in order to allow early binding. Declare the program variables as objects of the corresponding classes in `AFORMAUTLib`, and not simply as `Object`.

Note: Neither Acrobat nor the Acrobat Forms plug-in are thread-safe, and therefore Acrobat Forms OLE automation uses the single-threading model.

Exceptions

All methods and properties may return an exception. These may include standard OLE exceptions, such as:

- `E_OUTOFMEMORY (0x8007000E)`
- `E_INVALIDARG (0x80070057)`

These exceptions are not specifically listed in the descriptions of the methods and properties that appear in this chapter. Others are Acrobat Forms-specific, and are listed in the following table.

The actual numeric value of the returned exception is assembled as an `HRESULT`, uses the `FACILITY_ITF`, and starts with decimal 512 (hex 0x0200), as recommended by Microsoft. For example, the numeric value of the exception `AutErcNoForm` is 0x80040201. The important part is the right-most (0x201), which is the first error in the enumeration below.

Exception name	Numeric value	Description
<code>AutErcNoDoc</code>	1	No document is currently open in the Acrobat application.
<code>AutErcNotTerminal</code>	2	This property or method applies to terminal fields or their annotations.
<code>AutErcNotToThisFieldType</code>	3	This property or method is not applicable to this type of field.

AFormApp

`AFormApp` is the only object the controller can externally instantiate (that is, using `CreateObject`). All other objects must be created by navigating down the hierarchy with the methods and properties described in this section.

Field

A field in the document that is currently active in Acrobat.

Methods

The `Field` object has the following methods.

- [PopulateListOrComboBox](#)
- [SetBackgroundColor](#)
- [SetBorderColor](#)
- [SetButtonCaption](#)
- [SetButtonIcon](#)
- [SetExportValues](#)
- [SetForegroundColor](#)
- [SetJavaScriptAction](#)
- [SetResetFormAction](#)
- [SetSubmitFormAction](#)

PopulateListOrComboBox

Specifies the item names and optionally exports values for a field of type listbox or combobox.

Syntax

```
void PopulateListOrComboBox ( const VARIANT& arrItems,  
                             const VARIANT& arrExportVal);
```

Parameters

<code>arrItems</code>	An array of strings, with each element representing an item name. There is a limit of 64K for string data in a combo or list box control on Windows platforms. For Mac OS systems, the limit is 200 entries for the combo or list box control. Using more than these limits degrades performance and makes the control unusable.
<code>arrExportVal</code>	Optional. An array of strings, the same size as the first parameter, with each element representing an export value. Some of the elements in <code>exportString</code> may be empty strings.

Exceptions

Raises [AutErcNotToThisFieldType](#) if the field is not of type listbox or combobox.

Related methods

[Add](#)

SetBackgroundColor

Specifies the background color for a field. The background color is used to fill the field's rectangle.

Syntax

```
void SetBackgroundColor (LPCTSTR bstrColorSpace, float GorRorC, float GorM,  
float BorY, float K);
```

Parameters

<code>bstrColorSpace</code>	Values are defined by using a transparent, gray, RGB or CMYK color space. Valid strings include: <ul style="list-style-type: none">• T• G• RGB• CMYK
<code>GorRorC</code>	Used if <code>bstrColorSpace</code> is set to T, G, or RGB. A float range between zero and one inclusive.
<code>GorM</code>	Used if <code>bstrColorSpace</code> is set to G. A float range between zero and one inclusive.

BorY	Used if <code>bstrColorSpace</code> is set to <code>RGB</code> . A float range between zero and one inclusive.
K	Used if <code>bstrColorSpace</code> is set to <code>CMYK</code> . A float range between zero and one inclusive.

Related methods

[SetBorderColor](#)

[SetForegroundColor](#)

Example

```
Field.SetBackgroundColor "RGB", 0.7, 0.3, 0.6, 0
```

SetBorderColor

Specifies the border color for a field. The border color is used to stroke the field's rectangle with a line as large as the border width. The new border color is propagated to any child annotations underneath, so the field may be non-terminal.

Syntax

```
void SetBorderColor (LPCTSTR bstrColorSpace, float GorRorC, float GorM, float BorY, float K);
```

Parameters

<code>bstrColorSpace</code>	Values are defined by using a transparent, gray, RGB or CMYK color space. Valid strings include: <ul style="list-style-type: none">• T• G• RGB• CMYK
<code>GorRorC</code>	Used if <code>bstrColorSpace</code> is set to T, G, or RGB. A float range between zero and one inclusive.
<code>GorM</code>	Used if <code>bstrColorSpace</code> is set to G. A float range between zero and one inclusive.
<code>BorY</code>	Used if <code>bstrColorSpace</code> is set to RGB. A float range between zero and one inclusive.
<code>K</code>	Used if <code>bstrColorSpace</code> is set to CMYK. A float range between zero and one inclusive.

Related methods

[SetBackgroundColor](#)

[SetForegroundColor](#)

Example

```
Field.SetBorderColor "RGB", 0.7, 0.3, 0.6, 0
```

SetButtonCaption

The caption to be used for the appearance of a field of type `button`.

Syntax

```
void SetButtonCaption (LPCTSTR bstrFace, LPCTSTR bstrCaption);
```

Parameters

<code>bstrFace</code>	A string that specifies the face for which the caption will be used. Valid strings include: <ul style="list-style-type: none">N — Normal appearanceD — Down appearanceR — Appearance for rollover
<code>bstrCaption</code>	The caption for the button. If a button's layout is of type <code>icon only</code> , the caption is not used in generating its appearance. In addition, only the <code>Normal</code> face is displayed, unless the <code>Highlight</code> is of type <code>push</code> .

Exceptions

Raises [AutErcNotToThisFieldType](#) if the field is not of type `button`. The new appearance is propagated to any child annotations underneath; the field may be non-terminal.

Related methods

[SetButtonIcon](#)

Example

```
Field.SetButtonCaption "D", "Submit Form"
```

SetButtonIcon

Specifies the icon to be used for the appearance of a field of type `button`.

Syntax

```
void SetButtonIcon (LPCTSTR bstrFace, LPCTSTR bstrFullPath, short pageNum);
```

Parameters

<code>bstrFace</code>	A string that specifies the face for which the icon will be used. Valid strings include: <ul style="list-style-type: none">N — Normal appearanceD — Down appearanceR — Appearance for rollover
<code>bstrFullPath</code>	The full path of the PDF file to be used as the source of the appearance.
<code>pageNum</code>	Used to select the page inside that PDF file (zero-based). If a button's layout is of type <code>icon</code> only, the caption is not used in generating its appearance. In addition, only the <code>Normal</code> face is displayed, unless the <code>Highlight</code> is of type <code>push</code> .

Exceptions

Raises [AutErcNotToThisFieldType](#) if the field is not of type `button`. The new appearance is propagated to any child annotations underneath, so it is OK if the field is non-terminal.

Related methods

[SetButtonCaption](#)

Example

```
Field.SetButtonIcon "N", "c:\Clipart.pdf", 0
```

SetExportValues

Sets the export values for each of the annotations of a field of type `radio button` and `checkbox`.

For `radio button` fields, this is necessary to make the field work properly as a group. One button is checked at any given time, giving its value to the field as a whole.

For `checkbox` fields, unless an export value is specified, the default is used when the field checked is `Yes`. When it is unchecked, its value is `Off` (this is also true for a `radio button` field when none of its buttons are checked).

Syntax

```
void SetExportValues (const VARIANT& arrExportVal);
```

Parameters

<code>arrExportVal</code>	An array of strings, which is expected to have as many elements as there are annotations in the field. The elements of the array are distributed among the individual annotations comprising the field, using their tab order.
---------------------------	--

Exceptions

Raises [AutErcNotToThisFieldType](#) if the field is not of type `radio button` or `checkbox`.

Related methods

[Add](#)

Example

```
Dim arrExp(1) As String  
arrExp(0) = "CreditCardA"  
arrExp(1) = "CreditCardB"  
Field.SetExportValues arrExp
```

SetForegroundColor

Specifies the foreground color for a field. It represents the text color for text, button, combobox, or listbox fields and the check color for checkbox or radio button fields.

The parameters are similar to `SetBorderColor` and `SetBackgroundColor`, except that the transparent color space is not allowed.

Syntax

```
void SetForegroundColor (LPCTSTR bstrColorSpace, float GorRorC, float GorM,  
float BorY, float K);
```

Parameters

<code>bstrColorSpace</code>	Values are defined by using a transparent, gray, RGB or CMYK color space. Valid strings include: <ul style="list-style-type: none">• T• G• RGB• CMYK
<code>GorRorC</code>	Used if <code>bstrColorSpace</code> is set to T, G, or RGB. A float range between zero and one inclusive.
<code>GorM</code>	Used if <code>bstrColorSpace</code> is set to G. A float range between zero and one inclusive.
<code>BorY</code>	Used if <code>bstrColorSpace</code> is set to RGB. A float range between zero and one inclusive.
<code>K</code>	Used if <code>bstrColorSpace</code> is set to CMYK. A float range between zero and one inclusive.

Related methods

[SetBackgroundColor](#)

[SetBorderColor](#)

Example

```
Field.SetForegroundColor "CMYK", 0.25, 0.25, 0.25, 0.1
```

SetJavaScriptAction

Sets the action of the field to be of type JavaScript. When using `SetJavaScriptAction` within Visual Basic, you can use `Chr(13)` to add a <CR>, and `Chr(9)` for tabs, so that the function is well formatted.

Syntax

```
void SetJavaScriptAction (LPCTSTR bstrTrigger, LPCTSTR bstrTheScript);
```

Parameters

<code>bstrTrigger</code>	A string that specifies the trigger for the action. Valid strings include: <ul style="list-style-type: none">• up• down• enter• exit• calculate• validate• format• keystroke
<code>bstrTheScript</code>	The script itself. If the trigger is <code>calculate</code> , an entry is added at the end of the calculation order array (see the CalcOrderIndex property).

Calculation script

A simple calculate script is supplied with Acrobat.

```
AFSimple_Calculate(cFunction, cFields)
```

- *cFunction* is one of AVG, SUM, PRD, MIN, MAX
- *cFields* is the list of the fields to use in the calculation.

Formatting scripts

The following scripts and formats can be used for the `format` and `keystroke` triggers:

<code>AFDate_KeystrokeEx(<i>cFormat</i>)</code> <code>AFDate_Format(<i>cFormat</i>)</code>	<i>cFormat</i> is one of: "m/d", "m/d/yy", "mm/dd/yy", "mm/yy", "d-mmm", "d-mmm-yy", "dd-mmm-yy", "yy-mm-dd", "mmm-yy", "mmmm-yy", "mmm d, yyyy", "mmmm d, yyyy", "m/d/yy h:MM tt", "m/d/yy HH:MM"
<code>AFTime_Keystroke(<i>ptf</i>)</code> <code>AFTime_Format(<i>ptf</i>)</code>	<i>ptf</i> is the time format: 0 = 24HR_MM [14:30] 1 = 12HR_MM [2:30 PM] 2 = 24HR_MM_SS [14:30:15] 3 = 12HR_MM_SS [2:30:15 PM]

<code>AFPercent_Keystroke(<i>nDec</i>, <i>sepStyle</i>)</code> <code>AFPercent_Format(<i>nDec</i>, <i>sepStyle</i>)</code>	<i>nDec</i> is the number of places after the decimal point. <i>sepStyle</i> is an integer denoting whether to use a separator. If <i>sepStyle</i> is 0, use commas. If <i>sepStyle</i> is 1, do not separate.
<code>AFSpecial_Keystroke(<i>psf</i>)</code> <code>AFSpecial_Format(<i>psf</i>)</code>	<i>psf</i> is the type of formatting to use: 0 = zip code 1 = zip + 4 2 = phone 3 = SSN
<code>AFNumber_Format(<i>nDec</i>, <i>sepStyle</i>, <i>negStyle</i>, <i>currStyle</i>, <i>strCurrency</i>, <i>bCurrencyPrepend</i>)</code> <code>AFNumber_Keystroke(<i>nDec</i>, <i>sepStyle</i>, <i>negStyle</i>, <i>currStyle</i>, <i>strCurrency</i>, <i>bCurrencyPrepend</i>)</code>	<i>nDec</i> is the number of places after the decimal point. <i>sepStyle</i> is an integer denoting whether to use a separator. If <i>sepStyle</i> is 0, use commas. If <i>sepStyle</i> is 1, do not separate. <i>sepStyle</i> is the formatting used for negative numbers: 0 = MinusBlack 1 = Red 2 = ParensBlack 3 = ParensRed <i>currStyle</i> is the currency style - not used. <i>strCurrency</i> is the currency symbol. <i>bCurrencyPrepend</i> is true to prepend the currency symbol; false to display on the end of the number.

SetResetFormAction

Sets the action of the field to be of type `ResetForm`.

Syntax

```
void SetResetFormAction (LPCTSTR bstrTrigger, long theFlags,  
const VARIANT& arrFields);
```

Parameters

<code>bstrTrigger</code>	A string that specifies which trigger is used for the action. Valid strings include: up — Mouse up down — Mouse down enter — Mouse enter exit — Mouse exit
<code>theFlags</code>	When 0 (Include), <code>arrFields</code> specifies which fields to include in the reset operation. When non-zero (Exclude), <code>arrFields</code> specifies which fields to exclude from the reset operation.

<code>arrFields</code>	<p>Optional. An array of strings for the fully-qualified names of the fields. Depending on the value of <code>theFlags</code>, these fields are included in or excluded from the reset operation.</p> <p>When the fields are included, the set can include the names of non-terminal fields, which is a fast and easy way to cause all their children to be included in the action.</p> <p>When not supplied, all fields are reset.</p>
------------------------	---

SetSubmitFormAction

Sets the action of the field to be of type `SubmitForm`.

Syntax

```
void SetSubmitFormAction (LPCTSTR bstrTrigger, LPCTSTR bstrTheURL,  
long theFlags, const VARIANT& arrFields);
```

Parameters

<code>bstrTrigger</code>	<p>A string that specifies which trigger is used for the action. Valid strings include:</p> <ul style="list-style-type: none"><code>up</code> — Mouse up<code>down</code> — Mouse down<code>enter</code> — Mouse enter<code>exit</code> — Mouse exit
<code>bstrTheURL</code>	<p>A string containing the URL.</p>
<code>theFlags</code>	<p>A collection of flags that define various characteristics of the action.</p> <p>See the <i>PDF Reference</i> to learn how the binary value of this <code>long</code> is interpreted.</p>
<code>arrFields</code>	<p>Optional. If specified, represents an array of strings for the fully-qualified names of the fields to submit when the action is executed. If the array is interpreted as fields to submit (as opposed to fields excluded from the submission, depending on the least-significant bit in the flags), then it may include the names of non-terminal fields, which is a way to cause all their children to be included in the submission.</p> <p>If not specified, the created action does not include a <code>/Fields</code> key.</p>

Properties

The `Field` object has the following properties.

- [Alignment](#)
- [BorderStyle](#)
- [BorderWidth](#)
- [ButtonLayout](#)
- [CalcOrderIndex](#)
- [CharLimit](#)

- [DefaultValue](#)
- [Editable](#)
- [Highlight](#)
- [IsHidden](#)
- [IsMultiline](#)
- [IsPassword](#)
- [IsReadOnly](#)
- [IsRequired](#)
- [IsTerminal](#)
- [Name](#)
- [NoViewFlag](#)
- [PrintFlag](#)
- [Style](#)
- [TextFont](#)
- [TextSize](#)
- [Type](#)
- [Value](#)

Alignment

The text alignment of a text field. Valid alignments are:

left
center
right

Syntax

```
[get/set] String
```

Returns

If the field is terminal and has multiple child annotations, a get returns the alignment for the first child, whichever annotation that happens to be.

On a set, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Exceptions

If the field is not of type `text`, an exception [AutErcNotToThisFieldType](#) is returned.

On a get, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Example

```
Field.Alignment = left
```

BorderStyle

The border style for a field. Valid border styles include `solid`, `dashed`, `beveled`, `inset`, and `underline`.

Syntax

```
[get/set] String
```

Returns

If it is terminal and has multiple child annotations, a `get` returns the value of the border style for the first child, whichever annotation that happens to be.

On a `set`, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Exceptions

On a `get`, raises [AutErcNotTerminal](#) if the field is non-terminal, an exception is returned.

Example

```
Field.BorderStyle = "beveled"
```

BorderWidth

The thickness of the border when stroking the perimeter of a field's rectangle. If the border color is transparent, this property has no effect except in the case of a beveled border. The value `0` represents no border, and the value `3` represents a thick border.

Syntax

```
[get/set] short
```

Returns

If it is terminal and has multiple child annotations, a `get` returns the value of the border width for the first child, whichever annotation that happens to be.

On a `set`, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Exceptions

On a `get`, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Example

```
Field.BorderWidth = 1
```

ButtonLayout

The layout appearance of a button. Valid values include:

- 0 — Text only; the button has a caption but no icon.
- 1 — Icon only; the button has an icon but no caption.
- 2 — Icon over text; the icon should appear on top of the caption.
- 3 — Text over icon; the text should appear on top of the icon.
- 4 — Icon then text; the icon should appear to the left of the caption.
- 5 — Text then icon; the icon should appear to the right of the caption.
- 6 — Text over icon; the text should be overlaid on top of the icon.

If it is terminal and has multiple child annotations, a `get` returns the layout for the first child, whichever annotation that happens to be.

On a `set`, the property is propagated to any child annotations underneath, therefore the field can be non-terminal.

Syntax

[get/set] short

Exceptions

If the field is not of type `button`, an exception [AutErcNotToThisFieldType](#) is returned.

On a `get`, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Example

```
Field.ButtonLayout = 2
```

CalcOrderIndex

The zero-based calculation order of fields in the document. If you want the calculation for a field `f2` to be performed after that for field `f1`, you need only set the `CalcOrderIndex` for `f2` to `f1's CalcOrderIndex + 1`. The elements in the calculation order array are shifted to make room for the insertion, but the first calculation is still at index 0.

For more information, see the *JavaScript for Acrobat API Reference*.

Syntax

[get/set] short

Example

```
Set F1 = Fields("SubTotal")  
Set F2 = Fields("Total")  
F2.CalcOrderIndex = F1.CalcOrderIndex + 1
```

CharLimit

The limit on the number of characters that a user can type into a text field.

On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] short
```

Exceptions

If the field is not of type `text`, an exception [AutErcNotToThisFieldType](#) is returned.

DefaultValue

The default value of the field. It returns the empty string if the field has no default value. If the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Syntax

```
[get/set] String
```

See also

[Value](#)

Editable

Determines whether the user can type in a selection or must choose one of the provided selections. Comboboxes can be editable; that is, the user can type in a selection.

On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] Boolean
```

Exceptions

Returns an exception of [AutErcNotToThisFieldType](#) if the field is not of type `combobox`.

Example

```
Field.Editable = False
```

Highlight

Defines how a button reacts when a user clicks it. The four highlight modes supported are:

- none
- invert
- push
- outline

If it is terminal and has multiple child annotations, a get returns the highlight for the first child, whichever annotation that happens to be.

On a set, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Syntax

```
[get/set] String
```

Exceptions

If the field is not of type button, an exception [AutErcNotToThisFieldType](#) is returned.

On a get, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Example

```
Field.Highlight = "invert"
```

IsHidden

Determines whether the field is hidden or visible to the user. If the value is `true` the field is invisible, and `false` indicates that the field is visible.

During get operations, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned. If it is terminal, and has multiple child annotations, a get returns the value of the hidden flag for the first child, whichever annotation that happens to be.

During set operations, the property is propagated to any child annotations underneath, therefore a field can be non-terminal.

Syntax

```
[get/set] Boolean
```

Example

```
'Hide "name.last"  
Set Field = Fields("name.last")  
Field.IsHidden = True
```

IsMultiline

Determines whether the text field is multi-line or single-line. On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] Boolean
```

Exceptions

If the field is not of type `text`, an exception [AutErcNotToThisFieldType](#) is returned.

Example

```
Field.IsMultiline = True
```

IsPassword

Determines whether the field will display asterisks for the data entered. Upon submission, the actual data entered is sent. Fields that have the password attribute set will not have the data in the field saved when the document is saved to disk.

On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] Boolean
```

Exceptions

If the field is not of type `text`, an exception [AutErcNotToThisFieldType](#) is returned.

Example

```
Field.IsPassword = True
```

IsReadOnly

The read-only characteristic of a field. When a field is read-only, the user can see the field but cannot change it. If a button is read-only, the user cannot click it to execute an action.

Because this is a field flag and not an annotation flag, both a get and a set of this property are allowed regardless of whether the field is terminal or non-terminal.

- A get on a non-terminal field retrieves that field's flag.
- A set changes the flag on all its terminal children.

Syntax

```
[get/set] Boolean
```

IsRequired

The required characteristic of a field. When a field is required, its value must be non-NULL when the user clicks a submit button that causes the value of the field to be sent to the web. If the field value is NULL, the user receives a warning message and the submit does not occur.

Since this is a field flag and not an annotation flag, both a get and a set of this property are allowed, regardless of whether the field is terminal or non-terminal.

A get on a non-terminal field retrieves that field's flag. A set changes the flag on all its terminal children.

Syntax

```
[get/set] Boolean
```

IsTerminal

true if the field is terminal, otherwise false.

Syntax

```
[read-only] Boolean
```

Example

```
Dim Field As AFORMAUTLib.Field  
Dim bTerminal As Boolean  
  
'bTerminal should be True  
bTerminal = Field.IsTerminal
```

Name

The fully qualified name of the field. It is the default member of the `Field` interface.

Syntax

```
[read-only] String
```

NoViewFlag

Determines whether a given field prints but does not display on the screen.

Set the `NoViewFlag` property to `true` to allow the field to appear when the user prints the document but not when it displays on the screen; set it to `false` to allow both printing and displaying.

On a get, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned. If it is terminal, and has multiple child annotations, a get returns the value of the no-view flag for the first child, whichever annotation that happens to be.

On a set, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Syntax

```
[get/set] Boolean
```

PrintFlag

Determines whether a field prints. Set the `PrintFlag` property to `true` to allow the field to appear when the user prints the document, set it to `false` to prevent printing.

On a get, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned. If it is terminal, and has multiple child annotations, a get returns the value of the print flag for the first child, whichever annotation that happens to be.

On a set, the property is propagated to any child annotations underneath, so the field may be non-terminal.

Syntax

[get/set] Boolean

Style

The style of a checkbox or a radio button (the glyph used to indicate that the check box or radio button has been selected).

Valid styles include:

- check
- cross
- diamond
- circle
- star
- square

If it is terminal and has multiple child annotations, a get returns the style for the first child, whichever annotation that happens to be.

On a set, the property is propagated to any child annotations underneath, therefore a field can be non-terminal.

Syntax

[get/set] String

Exceptions

During set, if the field is not of type checkbox or radio button, an exception [AutErcNotToThisFieldType](#) is returned.

On a get, if the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

Example

```
Field.Style = "star"
```


TextFont

The text font used when laying out the field. Valid fonts include:

```
Courier
Courier-Bold
Courier-Oblique
Courier-BoldOblique
Helvetica
Helvetica-Bold
Helvetica-Oblique
Helvetica-BoldOblique
Symbol
Times-Roman
Times-Bold
Times-Italic
Times-BoldItalic
ZapfDingbats
```

On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] String
```

Example

```
Field.TextFont = "Times-BoldItalic"
```

TextSize

The text points size used in the field. In combobox and radio button fields, the text size determines the size of the check. Valid text sizes include zero and the range from 4 to 144 inclusive.

A text size of zero means that the largest point size that can still fit in the field's rectangle should be used. In multi-line text fields and buttons this is always 12 points.

On a set, the property is propagated to any child annotations underneath, if any.

Syntax

```
[get/set] short
```

Example

```
Field.TextSize = 18
```

Type

The type of the field as a string. Valid types that are returned:

```
text
button
combobox
listbox
checkbox
radiobutton
signature
```

Syntax

[read-only] String

Example

```
Set Field = Fields("name.last")
'Should print "name.last"
print Field
' Should print the type of field. Example,
' "text"
print Field.Type
```

Value

A string that represents the value of the field. Returns the empty string if the field has no value. If the field is non-terminal, an exception [AutErcNotTerminal](#) is returned.

For fields of type checkbox, the value `Off` represents the unchecked state. The checked state is represented using the export value. This is also true for radio buttons (where each individual button in a group should have a different export value; see [SetExportValues on page 188](#)). For fields of type listbox or combobox, if an export value is defined, then that represents the value, otherwise the item name is used.

These remarks apply also to [DefaultValue](#).

Syntax

[get/set] String

Example

```
Dim arrExp(1) As String
arrExp(0) = "CreditCardV"
arrExp(1) = "CreditCardM"
Field.SetExportValues arrExp
Field.Value = arrExp(0)
```

Fields

A collection of all the fields in the document that are currently active in Acrobat at the time `Fields` is instantiated.

The `Fields` collection includes both terminal and non-terminal fields. A terminal field is one that either does not have children, or if it does, they are simply multiple appearances (that is, child annotations) of the field in question.

Note: If you instantiate a `Fields` object, and subsequently fields are manually added or removed using the Forms tool in Acrobat, the `Fields` object will no longer be in sync with the document. You must re-instantiate the `Fields` object.

Methods

The `Fields` object has the following methods.

- [Add](#)
- [AddDocJavascript](#)
- [ExecuteThisJavascript](#)
- [ExportAsFDF](#)
- [ExportAsHtml](#)
- [ImportAnFDF](#)
- [Remove](#)

Add

Dynamically adds a new field to the Acrobat form and to the `Fields` collection.

Returns the newly-created `Field` object. You can pass the name of an existing field as a parameter, as long as that field is of the same type as the one being created.

This is useful in the following circumstances:

- For radio buttons to use the [SetExportValues](#) method to make the radio buttons mutually exclusive.
- For fields that should have multiple appearances (that is, child annotations) in the document.

Syntax

```
LPDISPATCH Add (LPCTSTR bstrFieldName, LPCTSTR bstrFieldType, short pageNum, float left, float top, float right, float bottom);
```

Parameters

<code>bstrFieldName</code>	The fully-qualified name of the field.
<code>bstrFieldType</code>	Field type for the newly created field. Valid types are: <ul style="list-style-type: none">• text• button• combobox• listbox• checkbox• radio button• signature

You must use the quotation marks. See the sample code below.

When creating list or combo boxes, there is a limit of 64K for string data on Windows platforms. Mac OS systems have a limit of 200 entries for the list or combo boxes. Using more than the limit degrades performance. You populate the fields of the list and combo boxes using the [PopulateListOrComboBox](#) method.

pageNum	The page number (zero-based).
left, top, right, bottom	These parameters are floats representing the left, top, right, and bottom coordinates of the field rectangle, measured in rotated page space; that is, [0,0] is always at the left bottom corner regardless of page rotation.

Returns

The newly-created `Field` object.

Related methods

[PopulateListOrComboBox](#)

[Remove](#)

Example

```
Set Field = Fields.Add("payment",_ "radiobutton", 0, 100, 600, 130, 570)
```

AddDocJavascript

Adds a document-level JavaScript function to the PDF file. When using `AddDocJavascript`, within Visual Basic, you can use `Chr(13)` to add a <CR>, and `Chr(9)` for tabs, so that the function is well formatted.

Syntax

```
void AddDocJavascript (LPCTSTR bstrScriptName, LPCTSTR bstrTheScript);
```

Parameters

bstrScriptName	The name of the function to be added to the document.
----------------	---

bstrTheScript	The definition to be added to the document.
---------------	---

Related methods

[ExecuteThisJavascript](#)

Example

```
'Adding a document-level JavaScript  
'function, to compute factorials:  
Fields.AddDocJavaScript "Fact", _  
"function Fact(n)" & Chr(13) & _  
"{ " & Chr(13) & _  
Chr(9) & "if (n <= 0)" & Chr(13) & _  
Chr(9) & Chr(9) & "return 1;" & Chr(13) & _  
Chr(9) & "else" & Chr(13) & _  
Chr(9) & Chr(9) & "return n * Fact(n - 1);" & Chr(13) & _  
"}"
```

ExecuteThisJavascript

Executes the specified JavaScript script.

Syntax

```
CString ExecuteThisJavascript (LPCTSTR bstrTheScript);
```

Parameters

<code>bstrTheScript</code>	A string containing a JavaScript script, which is executed by Acrobat in the context of the currently active document. See the <i>JavaScript for Acrobat API Reference</i> for information on event level values.
----------------------------	--

Returns

Returns a result by assigning it to event value.

Related methods

[AddDocJavascript](#)

Example

```
Fields.ExecuteThisJavaScript "var f =_ this.getField("myButton"); f.delay =_  
false;"
```

To get the returns in Visual Basic:

```
Dim cSubmitName As String  
cSubmitName = Fields.ExecuteThisJavaScript  
"event.value = this.getField("myField").submitName;"
```

ExportAsFDF

Exports the data as FDF from an Acrobat form.

Syntax

```
void ExportAsFDF (LPCTSTR bstrFullPath, LPCTSTR bstrSubmitButton,  
BOOL bEmptyFields, const VARIANT& arrFields);
```

Parameters

<code>bstrFullPath</code>	A full path of the file to which the produced FDF file will be saved.
<code>bstrSubmitButton</code>	The name of an existing form field of type <code>button</code> (in case you want to include it in the FDF file, as if it had been used to trigger a <code>SubmitForm</code> action). You can specify an empty string.

<code>bEmptyFields</code>	A Boolean value to indicate whether fields with no value should be included in the produced FDF file.
<code>arrFields</code>	Optional. An array of strings representing the fully-qualified names of the fields to include in the FDF file. This array may include the names of non-terminal fields, which is a fast and easy way to cause all their children to be included in the FDF file.

Related methods

[ImportAnFDF](#)

[ExportAsHtml](#)

Example

```
Dim arrFields(1) As String
arrFields(0) = "name"
arrFields(1) = "address"
'This will create an FDF that includes
'name.last, name.first, address.street,
'etc., but only if they have a value
'(since we are passing False for the
' "bEmptyFields" parameter.
Fields.ExportAsFDF "C:\Temp\out.fdf", "", False, arrFields
```

ExportAsHtml

Exports the data as HTML from an Acrobat form. This method is similar to [ExportAsFDF](#). The only difference is that the form data is exported in URL-encoded format.

Syntax

```
void ExportAsHtml (LPCTSTR bstrFullPath, LPCTSTR bstrSubmitButton,
BOOL bEmptyFields, const VARIANT& arrFields);
```

Parameters

<code>bstrFullPath</code>	A full path of the file to which the produced FDF file will be saved.
<code>bstrSubmitButton</code>	The name of an existing form field of type <code>button</code> (in case you want to include it in the FDF file, as if it had been used to trigger a <code>SubmitForm</code> action). You may pass an empty string.
<code>bEmptyFields</code>	A Boolean to indicate whether fields with no value should be included in the produced FDF file.
<code>arrFields</code>	Optional. An array of strings representing the fully-qualified names of the fields to include in the FDF file. This array may include the names of non-terminal fields, which is a fast and easy way to cause all their children to be included in the FDF file.

Related methods

[ExportAsFDF](#)

ImportAnFDF

Imports the FDF file into an Acrobat form.

Syntax

```
void ImportAnFDF (LPCTSTR bstrFullPath);
```

Parameters

<code>bstrFullPath</code>	The full path of the file containing the FDF file to be imported.
---------------------------	---

Related methods

[ExportAsFDF](#)

Remove

Removes a field from the Acrobat Form and from the `Fields` collection.

Syntax

```
void Remove (LPCTSTR bstrFieldName);
```

Parameters

<code>bstrFieldName</code>	The fully-qualified name of the field to be removed from the Acrobat form. If the field has multiple child annotations, all of them are removed. If multiple fields have the same name, all are removed.
----------------------------	--

Related methods

[Add](#)

Example

```
'Remove fields you no longer used.  
Fields.Remove("MyOldField")
```

Properties

The `Fields` object has the following properties.

- [Count](#)
- [Item](#)
- [NewEnum](#)

Count

The number of items in the collection.

Syntax

```
[read-only] long
```

Example

```
Dim Field As AFORMAUTLib.Field
Dim nFields As Long

nFields = Fields.Count

For Each Field In Fields
If Field.IsTerminal Then
print Field.Value
End If
Next Field
```

Item

Takes the fully qualified name of the field (for example, "name.last") as a parameter, and returns the Field object for it. It is the default member of the Fields interface. That is, `item` is the property invoked if the object name is specified by itself without a property or a method in the controller script.

Syntax

```
[read-only] IDispatch*
```

Example

```
Dim Field As AFORMAUTLib.Field
Dim nFields As Long

Set Field = Fields.Item("name.last")
'Since Item is the default_ property:
Set Field = Fields("name.last")
```

NewEnum

The IEnumVariant enumerator for the collection.

You do not need to call this property directly. Visual Basic calls it in the background whenever the code contains a `For Each Field In Fields` loop. For example:

```
For Each Field in Fields
If Field.IsTerminal
print Field.Value
End If
Next Field
```

Syntax

```
[read-only] IUnknown*
```


This chapter describes IAC support for the Acrobat Search plug-in, which allows users to perform text searches in PDF documents. It adds menus, menu items, toolbar buttons, and a Search panel to the Acrobat application. The Search plug-in exports a host function table (HFT) containing several methods that can be used by other plug-ins.

Search supports interapplication communication in the form of DDE messages in Windows and Apple events in Mac OS. These messages and events allow remote clients to submit search queries and manipulate a list of indexes (the list of indexes is referred to as the shelf).

For more information on the Search plug-in, see the Acrobat Help and the *Acrobat and PDF Library API Reference*.

Search plug-in using DDE

A client can connect to the Search plug-in with DDE using the service name "Acrobat Search" and the topic name "Acrobat Search".

```
DdeInitialize(&id, &DDE_ProcessMessage, APPCMD_CLIENONLY, 0);
hszServerName = DdeCreateStringHandle(id, "Acrobat Search", 0);
hszTopicName = DdeCreateStringHandle(id, "Acrobat Search", 0);
hConv = DdeConnect(id, hszServerName, hszTopicName, NULL);
```

After a connection has been made, a single poke transaction will submit a search query. Two types of queries are supported: simple query and query.

Simple query item

A simple query has the item name "SimpleQuery". When using a simple query, pass only a string that contains the query, using the ASQL query parser's format (see `QLangType_CQL` in the table "[Query language type constants](#)" on page 211). It is not possible to choose another parser or to set word options using the simple query item.

Query item

A query has the item name "Query". When using query, a `QueryData` structure is used. This structure contains the query, as well as specifying the query parser to use and additional options.

```
hszItemName = DdeCreateStringHandle(id, "Query", 0);
DdeClientTransaction(qd, nLen, hConv, hszItemName, CF_TEXT, XTYP_POKE,
1000, &dwResult);
DdeDisconnect(hConv)
```

The global data handle (qd) passed to the server must be in the following format:

```
typedef struct _QueryData {
    eQLangType qlt;
    boolean bOverrideWordOptions;
    uns32 nWordOptions;
    uns16 nMaxDocs;
    uns16 nQueryOffset;
    uns16 nNumSorts; //deprecated in Acrobat 6.0
    uns16 nSortOffset [QP_MAX_SORT_FIELDS]; //deprecated in Acrobat 6.0
    boolean bSortWays [QP_MAX_SORT_FIELDS]; //deprecated in Acrobat 6.0
    unsigned char cData[1];
} QueryData;
```

Query options

qlt	The query language type. Must be one of the values shown in “Query language type constants” on page 211 .
bOverrideWordOptions	Indicates that the client wishes to use different word options than those currently set by the user.
nWordOptions	The word options. Must be an OR of the values shown in “Word option bit-flag constants” on page 211 .
nMaxDocs	If non-zero, the client wishes to use a different limit for the maximum number of documents than the limit currently set by the user.
nSortOffsets	A list of offsets into the cData chunk. Each offset points to a NULL-terminated string containing the field name. This value has no effect in Acrobat 6.0 or later, because sort options are not valid.
nQueryOffset	An offset into the cData chunk that points to a NULL-terminated string containing the query to execute.
nNumSorts	The number of fields in the sort spec. If this number is 0, the plug-in uses the current sort spec set by the user. This value has no effect in Acrobat 6.0 or later, because sort options are not valid.
bSortWays	A list of sort order flags, one for each sort field. true indicates an ascending sort, and false indicates a descending sort. This value has no effect in Acrobat 6.0 or later, because sort options are not valid.

Query language type constants

QLangType_Simple	Allows only simple phrase searches; does not allow Boolean searching. This query type does not work in the DDE interface of the Search plug-in shipped with version 2.0 of Acrobat.
QLangType_CQL	Allows Boolean searches using AND, OR, and NOT, as described in the Acrobat Search plug-in's online help file.
QLangType_Passthrough	The Verity BooleanPlus query language. Contact Verity for further information on this language.

Word option bit-flag constants

QPON_Case	The search is case-sensitive.
QPON_Stemming	Find not only the specified word, but other words that have the same stem. For example, run and ran have the same stem.
QPON_SoundsLike	Find not only the specified word, but other words that sound like it.
QPON_Thesaurus	Find not only the specified word, but other words that have the same meaning.
QPON_Proximity	Consider the proximity of results when using the AND operator to look for more than one word in a document. Without this option, AND terms can be anywhere in a document. Searching for "red" and "blue," for example, finds a document where "red" is the first word on the first page and where "blue" is the last word on the last page. With this option, however, AND terms must be within two or three pages of each other to be found. Also, the closer AND terms appear together, the higher the relevance ranking of the document that contains them.
QPON_Refine	Do not search the entire list of indexes, but only the documents that matched the previous search. This is used to refine the results of the previous search.

To create and populate this structure correctly, the client must know the sum of the lengths of each sort field (s1s), the length of the query (lq), and the size of the QueryData structure. The client then allocates memory as follows:

```
nSize = sizeof(QueryData) + s1s + lq;  
qd = (QueryData *)malloc(nSize);
```

For example, if the query was "Adobe" and the sort spec was "Title" ascending and "Score" descending then the structure would be packed as follows:

```
memset(qd, 0, nSize);  
qd->nQueryOffset = 0;  
strcpy(&cData[0], "Adobe");  
qd->nNumSort = 2;  
qd->nSortOffset[0] = strlen("Adobe") + 1;  
qd->bSortWays[0] = TRUE;  
strcpy(&cData[qd->nSortOffset[0]], "Title");  
qd->bSortWays[1] = FALSE;  
qd->nSortOffset[1] = qd->nSortOffset[0] + strlen("Title") + 1;  
strcpy(&cData[qd->nSortOffset[1]], "Score");
```

Manipulating indexes through DDE

After a connection has been made, a single poke transaction can add, delete, add, or remove indexes. The item name to use is "Index" .

```
hszItemName = DdeCreateStringHandle(id, "Index", 0);  
DdeClientTransaction(qd, nLen, hConv, hszItemName, CF_TEXT, XTYP_POKE,  
1000, &dwResult);  
DdeDisconnect(hConv);
```

The global data handle (gd) passed to the server must be in the following format:

```
typedef struct _IndexData {  
    IndexActionType eAction;  
    int16 nIndexOffset;  
    int16 nTempNameOffset;  
    unsigned char cData[1];  
} IndexData;
```

Options

eAction	The operation to be performed on the index. Must be one of values listed in "Index operation selectors" on page 212 .
nIndexOffset	An offset into the cData chunk that points to a NULL-terminated string containing the PDX file representing the index.
nTempNameOffset	An offset into cData. It points to a temporary name that is displayed by the Search plug-in when the index is unavailable. This field must specify an offset either to an empty string (\0) or to a non-empty C string.

Index operation selectors

IndexAction_Add	Adds an index to the shelf.
IndexAction_Remove	Removes an index from the shelf.
IndexAction_Enable	Enables an index on the shelf.
IndexAction_Disable	Disables an index on the shelf.

To create and populate this structure correctly, the client must know the sum of the lengths of the Index (li) and Temp names (lt) (including NULL-terminating characters), and the size of the IndexData structure.

The client then allocates memory as follows:

```
nSize = sizeof(IndexData) + li + lt;  
id = (IndexData *)malloc(nSize);
```

For example, to add the index C:\FOO.PDX to the Search plug-in's shelf:

```
memset(id, 0, nSize);  
id->eAction = IndexAction_Add;  
id->nIndexOffset = 0;  
strcpy(&id->cData[0], "C:\\FOO.PDX");  
id->nTempNameOffset = strlen("C:\\FOO.PDX") + 1;  
strcpy(&id->cData[id->nTempNameOffset],  
"My Favorite Index");
```

Search plug-in using Apple events

The Search plug-in supports the Apple events described in this section.

SearchAddIndex

Adds a specified index to the shelf.

Apple event ID

```
kSearchAddIndex ('addx')
```

Parameters

<code>kIndexListTag ('SilP'), typeLongInteger</code>	An opaque <code>void*</code> representing the shelf, obtained from <code>SearchGetIndexList</code> .
<code>kPathTag ('Path'), typeChar</code>	Mac OS full path representing an index, of the form: <code>MyDisk:TopFolder:BottomFolder:Strange.pdx</code>
<code>kFlagTag ('Flag'), typeLongInteger</code>	Index flags. See SearchGetIndexFlags on page 216 for a description. The <code>kIndexAvailable</code> flag should always be set.

Returns

```
kIndexTag ('SixP'), typeLongInteger
```

An opaque `void*` representing an index. Returns `NULL` if failure.

Returns

```
#define kIndexExists ((SearchIndexPtr)-1)
```

if the index already exists in the index list. If the index already exists, you can retrieve it using [SearchGetIndexByPath on page 215](#).

SearchCountIndexList

Gets the number of indexes currently on the shelf.

Apple event ID

```
kSearchCountIndexList ('cidx')
```

Parameters

<code>kIndexListTag ('SilP'), typeLongInteger</code>	An opaque <code>void*</code> representing the shelf, obtained from SearchGetIndexList .
--	---

Returns

`kIndexListTag ('SilP'), typeLongInteger`

Number of indexes on the shelf (`kIndexListTag` here is not semantically correct, but works).

SearchDoQuery

Executes a specified query, using the set of indexes currently on the shelf. The search results are displayed in the Acrobat Search plug-in's Results window.

Apple event ID

`kSearchDoQuery ('kwry')`

Parameters

<code>kQueryStringTag ('Quryv'), typeChar</code>	The query string, a NULL-terminated block of text. Its format is the same as what a user would type into the search Query window, and depends on the search language specified by <code>kParserTag</code> .
<code>kParserTag ('Prsr'), typeShortInteger</code>	The query parser to use; may be one of (see <code>SrchType.h</code>): <code>kParserSimple 0</code> — Allows only simple phrase searches; does not allow Boolean searching. <code>kParserCQL 1</code> — Allows Boolean searches using AND, OR, and NOT, as described in the Acrobat Search plug-in's online help file. <code>kParserBPlus 2</code> — The Verity BooleanPlus query language. Contact Verity for further information on this language.
<code>kSortSpecTag ('Sort'), typeAEList</code>	A list of C strings representing fields to sort by. The first element is the first level sort, the second is the second level sort, and so forth. Each string may be any field that appears in the index, plus <code>Score</code> (which sorts results by relevance ranking). Some common fields are Title, ModificationDate, CreationDate, and Keywords.
<code>kWordOptionsTag ('WOpt'), typeLongInteger</code>	A bit field of word options. Must be a logical OR of the values listed below in "Word options for Apple events" on page 215 . The manner in which the options are used depends on the value associated with <code>kOptionsOverrideTag</code> .
<code>kOptionsOverrideTag ('WOer'), typeShortInteger</code>	Flag that indicates whether the word options are OR'ed with the search options set in the user interface, or used instead of them. If 0, the word options are OR'ed with the user interface search options, and the resulting value is used. If non-zero, the word options are used instead of the user interface search options.
<code>kMaxDocsTag ('MaxD'), typeShortInteger</code>	The maximum number of documents to display in the Results window. If more documents than this have hits, only the first <code>maxDocs</code> are displayed. <code>maxDocs</code> cannot be greater than 999.

Word options for Apple events

<code>kWordOptionCase</code>	The search is case-sensitive.
<code>kWordOptionStemming</code>	Find not only the specified word, but other words that have the same stem (for example, run and ran have the same stem).
<code>kWordOptionSoundsLike</code>	Find not only the specified word, but other words that sound like it.
<code>kWordOptionThesaurus</code>	Find not only the specified word, but other words that have the same meaning.
<code>kWordOptionProximity</code>	Consider the proximity of results when using the AND operator to look for more than one word in a document. Without <code>kWordOptionProximity</code> , AND terms can be anywhere in a document. Searching for “red” and “blue,” for example, finds a document where “red” is the first word on the first page and where “blue” is the last word on the last page. With <code>kWordOptionProximity</code> , however, AND terms must be within two or three pages of each other to be found. Also, with <code>kWordOptionProximity</code> , the closer AND terms appear together, the higher the relevance ranking of the document that contains them.
<code>kWordOptionRefine</code>	Do not search the entire list of indexes, but only the documents that matched the previous search. This is used to refine the results of the previous search.

SearchGetIndexByPath

Gets the index that has the specified path. The index must already be on the shelf. The index can be passed to other Search Apple events to remove it from the shelf, obtain its title, and so forth.

Apple event ID

`kSearchGetIndexByPath ('fpdx')`

Parameters

<code>kIndexListTag ('SilP'), typeLongInteger</code>	An opaque <code>void*</code> representing the shelf, obtained from SearchGetIndexList .
<code>kPathTag ('Path'), typeChar</code>	Mac OS full path representing an index, of the form: <code>MyDisk:TopFolder:BottomFolder:Strange.pdx</code>

Returns

`kIndexTag ('SixP'), typeLongInteger`

An opaque `void*` representing an index. Returns `NULL` if the specified index is gone.

SearchGetIndexFlags

Get the flags for an index.

Apple event ID

`kSearchGetIndexFlags ('gfdx')`

Parameters

<code>kIndexTag ('SixP'), typeLongInteger</code>	An opaque <code>void*</code> representing an index.
--	---

Returns

`kFlagTag ('Flag'), typeLongInteger`

A logical OR of the following:

`kIndexAvailableFlag (1L << 0)` — Set if the index is available for searching.

`kIndexSelectedFlag (1L << 1)` — Set if the index appears with a check mark in the Search plug-in's user interface.

`kIndexPtrInvalidFlag (1L << 31)` — Set if the index is not valid or is no longer valid.

SearchGetIndexList

Gets a list of the indexes currently on the shelf.

Apple event ID

`kSearchGetIndexList ('gidx')`

Returns

`kIndexListTag ('SilP'), typeLongInteger`

An opaque `void*` representing the list of indexes currently on the shelf. This value can subsequently be used by other search Apple events to obtain information about a specific index, the number of indexes on the shelf, and so forth.

SearchGetIndexPath

Gets the full path to an index.

Apple event ID

`kSearchGetIndexPath ('gidx')`

Parameters

<code>kIndexTag ('SixP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing the index whose path is to be obtained. The index may be obtained using SearchGetIndexByPath , SearchGetNthIndex , or SearchAddIndex .
--	--

Returns

`kPathTag ('Path'), typeChar`

A NULL-terminated character string representing the full path of the index. Returns an empty string if the requested index is not valid.

SearchGetIndexTitle

Gets the title of an index.

Apple event ID

`kSearchGetIndexTitle ('gtdx')`

Parameters

<code>kIndexTag ('SixP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing the index whose title is to be obtained. The index may be obtained using SearchGetIndexByPath , SearchGetNthIndex , or SearchAddIndex .
--	---

Returns

`kTitleTag ('Title'), typeChar`

A NULL-terminated character string representing the title of the index. If there is no title, it returns the index's path. Returns an empty string if the requested index is not valid.

SearchGetNthIndex

Gets the n^{th} index on the shelf. The index can be passed to other Search Apple events to remove it from the shelf, obtain its title, and so forth.

Apple event ID

`kSearchGetNthIndex ('fndx')`

Parameters

<code>kIndexListTag ('SilP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing the shelf, obtained from SearchGetIndexList .
<code>kNthIndexTag ('Enth'),</code> <code>typeLongInteger</code>	The index to get. The first index on the shelf is index zero.

Returns

`kIndexTag ('SixP'), typeLongInteger`

An opaque `void*` representing an index. Returns `NULL` if the `nth` index is gone.

SearchRemoveIndex

Removes the specified index from the shelf.

Apple event ID

`kSearchRemoveIndex ('rmdx')`

Parameters

<code>kIndexListTag ('SilP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing the shelf, obtained from SearchGetIndexList .
<code>kIndexTag ('SixP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing the index to be removed. The index may be obtained using SearchGetIndexByPath , SearchGetNthIndex , or SearchAddIndex .

SearchSetIndexFlags

Sets the flags for an index.

Apple event ID

`kSearchSetIndexFlags ('sfdx')`

Parameters

<code>kIndexTag ('SixP'),</code> <code>typeLongInteger</code>	An opaque <code>void*</code> representing an index.
<code>kFlagTag ('Flag'),</code> <code>typeLongInteger</code>	Index flags. See the description in SearchGetIndexFlags . In practice, <code>kIndexAvailableFlag</code> should always be set.

Returns

`kFlagTag ('Flag'), typeLongInteger`

Index flags. See the description in [“SearchGetIndexFlags” on page 216](#). This value is returned because it is possible for a request to set a flag to fail.

Search lists

The Search plug-in adds a new menu, menu items, and toolbar buttons to the Acrobat application.

Menu names

The Search plug-in adds the following menu to Acrobat.

Menu name	Description
<code>AcroSrch:ToolsSubMenu</code>	Acrobat Search submenu of Edit menu

Menu item names

The Search plug-in adds the following menu items to Acrobat.

Menu item name	Description
<code>AcroSrch:Query</code>	Displays the Search dialog box.
<code>AcroSrch:Indexes</code>	Displays the Index dialog box.
<code>AcroSrch:Results</code>	Displays the Results dialog box.
<code>AcroSrch:Assist</code>	Displays the Word Assistant dialog box.
<code>AcroSrch:Separator</code>	A separator item in the Search tools menu.
<code>AcroSrch:PrevDoc</code>	Goes to the previous document in the hit list.
<code>AcroSrch:PrevHit</code>	Goes to the previous hit in the hit list.
<code>AcroSrch:NextHit</code>	Goes to the next hit in the hit list.
<code>AcroSrch:NextDoc</code>	Goes to the next document in the hit list.

Toolbar button names

The Search plug-in adds the following buttons to the Acrobat toolbar.

Button name	Description
<code>AcroSrch:Separator</code>	Separator (not visible).
<code>AcroSrch:Query</code>	Displays the Acrobat Search plug-in's query dialog box.
<code>AcroSrch:Results</code>	Displays the Acrobat Search plug-in's search results dialog box.
<code>AcroSrch:Prev</code>	Goes to the previous hit in the Acrobat Search plug-in's results list.
<code>AcroSrch:Next</code>	Goes to the next hit in the Acrobat Search plug-in's results list.

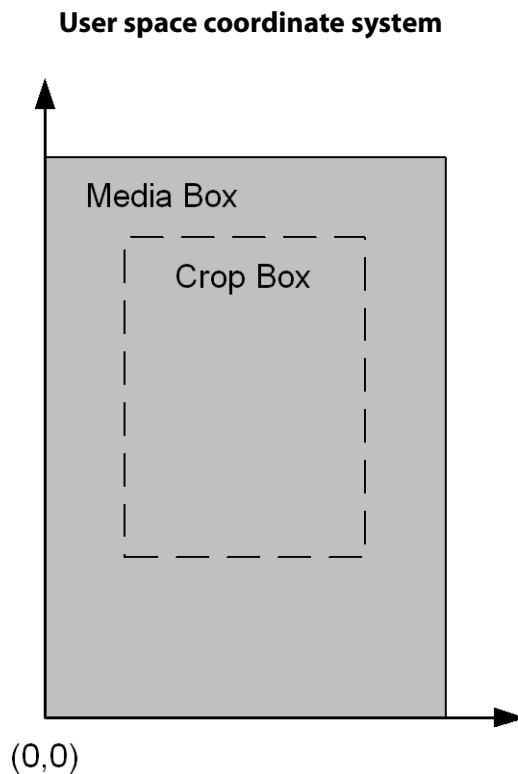
7

Coordinate Systems

This chapter describes the coordinate systems used by IAC: user space and device space.

User space

The user space is the coordinate system used within PDF files. In the IAC interface, it is used for most PD layer objects (that is, objects such as `PDBookmark` whose names begin with “PD”). The following graphic shows the user space coordinate system. The orientation, origin, and scale of the user space coordinate system can be changed by operators in the page description in a PDF file.

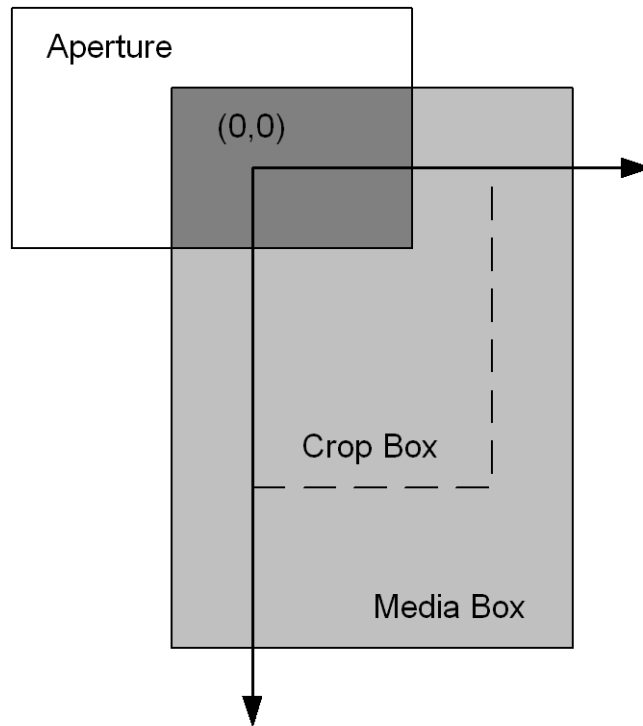


The default user space is the user space coordinate system in effect immediately before each page begins drawing. The origin of this coordinate system is the lower left corner of a page’s media box. The x-coordinate increases to the right, and the y-coordinate increases upward. One unit in the default user space is 1/72 of an inch.

Device space

The device space specifies coordinates in screen pixels, as shown in the following graphic. It is used in the AV layer of the IAC interface (that is, objects such as `AVDoc` whose names begin with "AV").

Device space coordinate system



The origin of the device space coordinate system is at the upper left corner of the visible page on the screen (that is, the upper left corner of the white part of the page). The x-coordinate increases to the right, and the y-coordinate increases downward.

The upper left corner of the visible page is determined by the intersection of a page's PDF crop box and media box. As a result, the device space coordinate system changes if the cropping on a page changes.

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