CGPDFDocument Reference

Graphics & Imaging > Quartz

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CGPDFDocument Reference

Derived From:	CFType
Framework:	ApplicationServices/ApplicationServices.h
Companion guide	Quartz 2D Programming Guide
Declared in	CGPDFDocument.h

Overview

The `CGPDFDocumentRef` opaque type encapsulates a document that contains PDF (Portable Document Format) drawing information. PDF provides an efficient format for cross-platform exchange of documents with rich content. PDF files can contain multiple pages of images and text. A PDF document object contains all the information relating to a PDF document, including its catalog and contents.

Note that PDF documents may be encrypted, and that some operations may be restricted until a valid password is supplied—see the functions listed in "Managing Encryption" (page 6). Quartz also supports decrypting encrypted documents.

Quartz can both display and generate files that are compliant with the PDF standard. When imaging PDF files, `CGPDFDocumentRef` is the basic type used to represent a PDF document.

Functions by Task

Creating PDF Document Objects

`CGPDFDocumentCreateWithProvider` (page 8)
Creates a Quartz PDF document using a data provider.

`CGPDFDocumentCreateWithURL` (page 8)
Creates a Quartz PDF document using data specified by a URL.

Retaining and Releasing PDF Documents

`CGPDFDocumentRelease` (page 13)
Decrements the retain count of a PDF document.

`CGPDFDocumentRetain` (page 13)
Increments the retain count of a Quartz PDF document.

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Getting the CFType ID for a PDF Document Object

`CGPDFDocumentGetTypeID` (page 11)
Returns the type identifier for Quartz PDF documents.

Getting Information About Quartz PDF Documents

`CGPDFDocumentGetCatalog` (page 9)
Returns the document catalog of a Quartz PDF document.

`CGPDFDocumentGetNumberOfPages` (page 10)
Returns the number of pages in a PDF document.

`CGPDFDocumentGetPage` (page 11)
Returns a page from a Quartz PDF document.

`CGPDFDocumentGetVersion` (page 11)
Returns the major and minor version numbers of a Quartz PDF document.

`CGPDFDocumentGetInfo` (page 10)
Gets the information dictionary for a PDF document.

`CGPDFDocumentGetID` (page 9)
Gets the file identifier for a PDF document.

Managing Encryption

`CGPDFDocumentAllowsCopying` (page 7)
Returns whether the specified PDF document allows copying.

`CGPDFDocumentAllowsPrinting` (page 7)
Returns whether a PDF document allows printing.

`CGPDFDocumentIsEncrypted` (page 12)
Returns whether the specified PDF file is encrypted.

`CGPDFDocumentIsUnlocked` (page 12)
Returns whether the specified PDF document is currently unlocked.

`CGPDFDocumentUnlockWithPassword` (page 14)
Unlocks an encrypted PDF document, if a valid password is supplied.

Getting Page Information

`CGPDFDocumentGetArtBox` (page 17) Deprecated in Mac OS X version 10.3 and later
Returns the art box of a page in a PDF document.

`CGPDFDocumentGetBleedBox` (page 17) Deprecated in Mac OS X version 10.3 and later
Returns the bleed box of a page in a PDF document.

`CGPDFDocumentGetCropBox` (page 18) Deprecated in Mac OS X version 10.3 and later
Returns the crop box of a page in a PDF document.

`CGPDFDocumentGetMediaBox` (page 19) Deprecated in Mac OS X version 10.3 and later
Returns the media box of a page in a PDF document.

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`CGPDFDocumentGetRotationAngle` (page 19) Deprecated in Mac OS X version 10.3 and later
Returns the rotation angle of a page in a PDF document.

`CGPDFDocumentGetTrimBox` (page 20) Deprecated in Mac OS X version 10.3 and later
Returns the trim box of a page in a PDF document.

Functions

CGPDFDocumentAllowsCopying

Returns whether the specified PDF document allows copying.

```
bool CGPDFDocumentAllowsCopying (
   CGPDFDocumentRef document
);
```

Parameters

document
A PDF document.

Return Value

A Boolean that, if `true`, indicates that the document allows copying. If the value is `false`, the document does not allow copying.

Discussion

This function returns `true` if the specified PDF document allows copying. It returns `false` if the document is encrypted and the current password doesn't grant permission to perform copying.

Availability

Available in Mac OS X version 10.2 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentAllowsPrinting

Returns whether a PDF document allows printing.

```
bool CGPDFDocumentAllowsPrinting (
   CGPDFDocumentRef document
);
```

Parameters

document
A PDF document.

Return Value

A Boolean that, if `true`, indicates that the document allows printing. If the value is `false`, the document does not allow printing.

Discussion

This function returns `true` if the specified PDF document allows printing. It returns `false` if the document is encrypted and the current password doesn't grant permission to perform printing.

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Availability
Available in Mac OS X version 10.2 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentCreateWithProvider

Creates a Quartz PDF document using a data provider.

```
CGPDFDocumentRef CGPDFDocumentCreateWithProvider (
   CGDataProviderRef provider
);
```

Parameters

provider

A data provider that supplies the PDF document data.

Return Value
A new Quartz PDF document, or `NULL` if a document can not be created. You are responsible for releasing the object using `CGPDFDocumentRelease` (page 13).

Discussion
Distributing individual pages of a PDF document to separate threads is not supported. If you want to use threads, consider creating a separate document for each thread and operating on a block of pages per thread.

Availability
Available in Mac OS X version 10.0 and later.

See Also
`CGContextDrawPDFDocument`

Related Sample Code
CarbonSketch

Declared In
`CGPDFDocument.h`

CGPDFDocumentCreateWithURL

Creates a Quartz PDF document using data specified by a URL.

```
CGPDFDocumentRef CGPDFDocumentCreateWithURL (
   CFURLRef url
);
```

Parameters

url

The URL address at which the PDF document data is located.

Return Value
A new Quartz PDF document, or `NULL` if a document could not be created. You are responsible for releasing the object using `CGPDFDocumentRelease` (page 13).

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Discussion
Distributing individual pages of a PDF document to separate threads is not supported. If you want to use threads, consider creating a separate document for each thread and operating on a block of pages per thread.

Availability
Available in Mac OS X version 10.0 and later.

See Also
`CGContextDrawPDFDocument`

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetCatalog

Returns the document catalog of a Quartz PDF document.

```
CGPDFDictionaryRef CGPDFDocumentGetCatalog (
   CGPDFDocumentRef document
);
```

Parameters

document
A PDF document.

Return Value
The document catalog of the specified document.

Discussion
The entries in a PDF document catalog recursively describe the contents of the PDF document. You can access the contents of a PDF document catalog by calling the function `CGPDFDocumentGetCatalog`. For information on accessing PDF metadata, see *Quartz 2D Programming Guide*.

Availability
Available in Mac OS X version 10.3 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetID

Gets the file identifier for a PDF document.

```
CGPDFArrayRef CGPDFDocumentGetID (
   CGPDFDocumentRef document
);
```

Parameters

document
The document whose file identifier you want to obtain.

Return Value
Returns the file identifier for the document.

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Discussion
A PDF file identifier is defined in the PDF specification as an array of two strings, the first of which is a permanent identifier that doesn't change even when the file is updated. The second string changes each time the file is updated. For more information, see *PDF Reference: Version 1.3 (Second Edition)*, Adobe Systems Incorporated.

Availability
Available in Mac OS X v10.4 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetInfo

Gets the information dictionary for a PDF document.

```
CGPDFDictionaryRef CGPDFDocumentGetInfo (
   CGPDFDocumentRef document
);
```

Parameters

document
The document whose dictionary you want to obtain.

Return Value
The information dictionary for the document.

Availability
Available in Mac OS X v10.4 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetNumberOfPages

Returns the number of pages in a PDF document.

```
size_t CGPDFDocumentGetNumberOfPages (
   CGPDFDocumentRef document
);
```

Parameters

document
The PDF document to examine.

Return Value
The total number of pages in the PDF document.

Availability
Available in Mac OS X version 10.0 and later.

Declared In
`CGPDFDocument.h`

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CGPDFDocumentGetPage

Returns a page from a Quartz PDF document.

```
CGPDFPageRef CGPDFDocumentGetPage (
   CGPDFDocumentRef document,
   size_t pageNumber
);
```

Parameters

document

A PDF document.

pageNumber

The number of the page requested.

Return Value

Return the PDF page corresponding to the specified page number, or `NULL` if no such page exists in the document. Pages are numbered starting at 1.

Availability

Available in Mac OS X version 10.3 and later.

Related Sample Code

CarbonSketch

Declared In

`CGPDFDocument.h`

CGPDFDocumentGetTypeID

Returns the type identifier for Quartz PDF documents.

```
CFTypeID CGPDFDocumentGetTypeID (
   void
);
```

Return Value

The identifier for the opaque type `CGPDFDocumentRef` (page 15).

Availability

Available in Mac OS X version 10.2 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentGetVersion

Returns the major and minor version numbers of a Quartz PDF document.

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```
void CGPDFDocumentGetVersion (
   CGPDFDocumentRef document,
   int *majorVersion,
   int *minorVersion
);
```

Parameters

document

A PDF document.

majorVersion

On return, contains the major version number of the document.

minorVersion

On return, contains the minor version number of the document.

Return Value

On return, the values of the `majorVersion` and `minorVersion` parameters are set to the major and minor version numbers of the document respectively.

Availability

Available in Mac OS X version 10.3 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentIsEncrypted

Returns whether the specified PDF file is encrypted.

```
bool CGPDFDocumentIsEncrypted (
   CGPDFDocumentRef document
);
```

Parameters

document

A PDF document.

Return Value

A Boolean that, if `true`, indicates that the document is encrypted. If the value is `false`, the document is not encrypted.

Discussion

If the document is encrypted, a password must be supplied before certain operations are enabled. For more information, see `CGPDFDocumentUnlockWithPassword` (page 14).

Availability

Available in Mac OS X version 10.2 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentIsUnlocked

Returns whether the specified PDF document is currently unlocked.

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```
bool CGPDFDocumentIsUnlocked (
   CGPDFDocumentRef document
);
```

Parameters

document

A PDF document.

Return Value

A Boolean that, if `true`, indicates that the document is not locked. If the value is `false`, the document is locked.

Discussion

There are two possible reasons why a PDF document is unlocked:

- The document is not encrypted.
- The document is encrypted, and a valid password was previously specified using `CGPDFDocumentUnlockWithPassword` (page 14).

Availability

Available in Mac OS X version 10.2 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentRelease

Decrements the retain count of a PDF document.

```
void CGPDFDocumentRelease (
    CGPDFDocumentRef document
);
```

Parameters

document

The PDF document to release.

Discussion

This function is equivalent to `CFRelease`, except that it does not cause an error if the `document` parameter is `NULL`.

Availability

Available in Mac OS X version 10.0 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentRetain

Increments the retain count of a Quartz PDF document.

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```
CGPDFDocumentRef CGPDFDocumentRetain (
    CGPDFDocumentRef document
);
```

Parameters

document

The PDF document to retain.

Return Value

The same document you passed in as the *document* parameter.

Discussion

This function is equivalent to `CFRetain`, except that it does not cause an error if the `document` parameter is `NULL`.

Availability

Available in Mac OS X version 10.0 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentUnlockWithPassword

Unlocks an encrypted PDF document, if a valid password is supplied.

```
bool CGPDFDocumentUnlockWithPassword (
   CGPDFDocumentRef document,
   const char *password
);
```

Parameters

document

A PDF document.

password

A pointer to a string that contains the password.

Return Value

A Boolean that, if `true`, indicates that the document has been successfully unlocked. If the value is `false`, the document has not been unlocked.

Discussion

Given an encrypted PDF document and a password, this function does the following:

- Sets the lock state of the document, based on the validity of the password.
- Returns `true` if the document is unlocked.
- Returns `false` if the document cannot be unlocked with the specified password.

Unlocking a PDF document makes it possible to decrypt the document and perform other privileged operations. Different passwords enable different operations.

Availability

Available in Mac OS X version 10.2 and later.

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Declared In
`CGPDFDocument.h`

Data Types

CGPDFDocumentRef

An opaque type that represents a PDF (Portable Document Format) document.

```
typedef struct CGPDFDocument * CGPDFDocumentRef;
```

Availability
Available in Mac OS X v10.0 and later.

Declared In
`CGPDFDocument.h`

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Deprecated CGPDFDocument Functions

A function identified as deprecated has been superseded and may become unsupported in the future.

Deprecated in Mac OS X version 10.3 and later

CGPDFDocumentGetArtBox

Returns the art box of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

```
CGRect CGPDFDocumentGetArtBox (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document

The PDF document to examine.

page

An integer that specifies the number of the page to examine.

Return Value

A rectangle that represents the art box for the specified page, expressed in default PDF user space units (points).

Discussion

The replacement function for this one is `CGPDFPageGetBoxRect`, which gets the rectangle associated with a type of box (art, media, crop, bleed trim) that represents a content region or page dimensions of a PDF page. For more information see *CGPDFPage Reference*.

The art box defines the extent of the page's meaningful content (including potential white space) as intended by the document creator. The default value is the page's crop box.

Availability

Available in Mac OS X version 10.0 and later.

Deprecated in Mac OS X version 10.3 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentGetBleedBox

Returns the bleed box of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

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```
CGRect CGPDFDocumentGetBleedBox (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document

The PDF document to examine.

page

An integer that specifies the number of the page to examine.

Return Value

A rectangle that represents the bleed box for the specified page, expressed in default PDF user space units (points).

Discussion

The replacement function for this one is `CGPDFPageGetBoxRect`, which gets the rectangle associated with a type of box (art, media, crop, bleed trim) that represents a content region or page dimensions of a PDF page. For more information see *CGPDFPage Reference*.

The bleed box defines the bounds to which the contents of the page should be clipped when output in a production environment. The default value is the page's crop box.

Availability

Available in Mac OS X version 10.0 and later.

Deprecated in Mac OS X version 10.3 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentGetCropBox

Returns the crop box of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

```
CGRect CGPDFDocumentGetCropBox (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document

The PDF document to examine.

page

An integer that specifies the number of the page to examine.

Return Value

A rectangle that represents the crop box for the specified page, expressed in default PDF user space units (points).

Discussion

The replacement function for this one is `CGPDFPageGetBoxRect`, which gets the rectangle associated with a type of box (art, media, crop, bleed trim) that represents a content region or page dimensions of a PDF page. For more information see *CGPDFPage Reference*.

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The crop box defines the region to which the contents of the page are to be clipped (or cropped) when displayed or printed. Unlike the other boxes, the crop box has no defined meaning in terms of physical page geometry or intended use—it merely suggests where the page should be clipped.

Availability
Available in Mac OS X version 10.0 and later.
Deprecated in Mac OS X version 10.3 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetMediaBox

Returns the media box of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

```
CGRect CGPDFDocumentGetMediaBox (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document
The PDF document to examine.

page
An integer that specifies the number of the page to examine.

Return Value
A rectangle that represents the media box for the specified page, expressed in default PDF user space units (points).

Discussion
The replacement function for this one is `CGPDFPageGetBoxRect`, which gets the rectangle associated with a type of box (art, media, crop, bleed trim) that represents a content region or page dimensions of a PDF page. For more information see *CGPDFPage Reference*.

The media box defines the location and size of the physical medium on which the page is intended to be displayed or printed. For example, if the page size is 8.5 by 11 inches, this function returns the coordinate pairs `(0,0)` and `(612,792)`.

Availability
Available in Mac OS X version 10.0 and later.
Deprecated in Mac OS X version 10.3 and later.

Declared In
`CGPDFDocument.h`

CGPDFDocumentGetRotationAngle

Returns the rotation angle of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

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```
int CGPDFDocumentGetRotationAngle (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document

The PDF document to examine.

page

An integer that specifies the number of the page to examine.

Return Value

The rotation angle of the page, expressed in degrees. If the specified page does not exist, returns 0.

Discussion

The replacement function for this one is `CGPDFPageGetRotationAngle`. For more information see *CGPDFPage Reference*.

Availability

Available in Mac OS X version 10.0 and later.

Deprecated in Mac OS X version 10.3 and later.

Declared In

`CGPDFDocument.h`

CGPDFDocumentGetTrimBox

Returns the trim box of a page in a PDF document. (Deprecated in Mac OS X version 10.3 and later.)

```
CGRect CGPDFDocumentGetTrimBox (
   CGPDFDocumentRef document,
   int page
);
```

Parameters

document

The PDF document to examine.

page

A value specifying the number of the page to examine.

Return Value

Returns a rectangle that represents the trim box for the specified page, expressed in default PDF user space units (points).

Discussion

The replacement function for this one is `CGPDFPageGetBoxRect`, which gets the rectangle associated with a type of box (art, media, crop, bleed trim) that represents a content region or page dimensions of a PDF page. For more information see *CGPDFPage Reference*.

The trim box defines the intended dimensions of the finished page after trimming. It may be smaller than the media box, to allow for production-related content such as printing instructions, cut marks, or color bars. The default value is the page's crop box.

Availability

Available in Mac OS X version 10.0 and later.

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Deprecated in Mac OS X version 10.3 and later.

Declared In
`CGPDFDocument.h`

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Document Revision History

This table describes the changes to *CGPDFDocument Reference*.

Date	Notes
2006-12-22	Added information about using threads.
2005-04-29	Updated for Mac OS X v10.4.
	Added the functions `CGPDFDocumentGetInfo` (page 10) and `CGPDFDocumentGetID` (page 9).
2004-08-31	Added introductory material, additional information about deprecated functions, and cross references to conceptual documentation.
2004-02-26	First version of this document. An earlier version of this information appeared in *Quartz 2D Reference*.

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