
CTFramesetter Reference

[Carbon > Text & Fonts](#)



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CTFramesetter Reference

Derived From:	CType
Framework:	ApplicationServices/CoreText
Declared in	CTFramesetter.h

Overview

The CTFramesetter opaque type is used to generate text frames. That is, CTFramesetter is an object factory for CTFrame objects.

The framesetter takes an attributed string object and a shape descriptor object and calls into the typesetter to create line objects that fill that shape. The output is a frame object containing an array of lines. The frame can then draw itself directly into the current graphic context.

Functions by Task

Creating a Framesetter

[CTFramesetterCreateWithAttributedString](#) (page 6)
Creates an immutable framesetter object from an attributed string.

Creating Frames

[CTFramesetterCreateFrame](#) (page 6)
Creates an immutable frame using a framesetter.

[CTFramesetterGetTypeSetter](#) (page 7)
Returns the typesetter object being used by the framesetter.

Getting the Type Identifier

[CTFramesetterGetTypeID](#) (page 7)
Returns the Core Foundation type identifier of the framesetter object.

Functions

CTFramesetterCreateFrame

Creates an immutable frame using a framesetter.

```
CTFrameRef CTFramesetterCreateFrame( CTFramesetterRef framesetter, CFRange
stringRange, CGPathRef path, CFDictionaryRef frameAttributes );
```

Parameters

framesetter

The framesetter used to create the frame.

stringRange

The range, of the attributed string that was used to create the framesetter, that is to be typeset in lines fitted into the frame. If the length portion of the range is set to 0, then the framesetter continues to add lines until it runs out of text or space.

path

A CGPath object that specifies the shape of the frame.

frameAttributes

Additional attributes that control the frame filling process can be specified here, or NULL if there are no such attributes.

Return Value

A reference to a new CTFrame object if the call was successful; otherwise, NULL.

Discussion

This call creates a frame full of glyphs in the shape of the path provided by the *path* parameter. The framesetter continues to fill the frame until it either runs out of text or it finds that text no longer fits.

Availability

Available in Mac OS X v10.5 and later.

Declared In

CTFramesetter.h

CTFramesetterCreateWithAttributedString

Creates an immutable framesetter object from an attributed string.

```
CTFramesetterRef CTFramesetterCreateWithAttributedString( CFAttributedStringRef
string );
```

Parameters

string

The attributed string with which to construct the framesetter object.

Return Value

A reference to a CTFramesetter object if the call was successful; otherwise, NULL.

Discussion

The resultant framesetter object can be used to create and fill text frames with the [CTFramesetterCreateFrame](#) (page 6) call.

Availability

Available in Mac OS X v10.5 and later.

Declared In

CTFramesetter.h

CTFramesetterGetTypeID

Returns the Core Foundation type identifier of the framesetter object.

```
CTTypeID CTFramesetterGetTypeID( void );
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

CTFramesetter.h

CTFramesetterGetTypesetter

Returns the typesetter object being used by the framesetter.

```
CTTypesetterRef CTFramesetterGetTypesetter( CTFramesetterRef framesetter );
```

Parameters

framesetter

The framesetter from which a typesetter is requested.

Return Value

A reference to a CTypesetter object if the call was successful; otherwise, NULL. The framesetter maintains a reference to the returned object, which should not be released by the caller.

Discussion

Each framesetter uses a typesetter internally to perform line breaking and other contextual analysis based on the characters in a string; this function returns the typesetter being used by a particular framesetter in case the caller would like to perform other operations on that typesetter.

Availability

Available in Mac OS X v10.5 and later.

Declared In

CTFramesetter.h

Data Types

CTFramesetterRef

A reference to a Core Foundation framesetter object.

```
typedef const struct __CTFramesetter *CTFramesetterRef;
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

CTFramesetter.h

Document Revision History

This table describes the changes to *CTFramesetter Reference*.

Date	Notes
2007-04-21	New document that describes the Core Text opaque type used to generate text frames.

REVISION HISTORY

Document Revision History

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