CTGlyphInfo Reference

Carbon > Text & Fonts

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CTGlyphInfo Reference

Derived From:	CFType
Framework:	ApplicationServices/CoreText
Declared in	CTGlyphInfo.h

Overview

The CTGlyphInfo opaque type enables you to override a font's specified mapping from Unicode to the glyph ID.

Functions by Task

Getting the GlyphInfo Type

`CTGlyphInfoGetTypeID` (page 8)
Returns the Core Foundation type identifier of the glyph info object

Creating GlyphInfo Objects

`CTGlyphInfoCreateWithGlyphName` (page 7)
Creates an immutable glyph info object with a glyph name.

`CTGlyphInfoCreateWithGlyph` (page 6)
Creates an immutable glyph info object with a glyph index.

`CTGlyphInfoCreateWithCharacterIdentifier` (page 6)
Creates an immutable glyph info object with a character identifier.

Getting GlyphInfo Data

`CTGlyphInfoGetGlyphName` (page 8)
Gets the glyph name for a glyph info object if that object exists.

`CTGlyphInfoGetCharacterIdentifier` (page 8)
Gets the character identifier for a glyph info object.

`CTGlyphInfoGetCharacterCollection` (page 7)
Gets the character collection for a glyph info object.

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Functions

CTGlyphInfoCreateWithCharacterIdentifier

Creates an immutable glyph info object with a character identifier.

```
CTGlyphInfoRef CTGlyphInfoCreateWithCharacterIdentifier( CGFontIndex cid,
CTCharacterCollection collection, CFStringRef baseString );
```

Parameters

cid

A character identifier.

collection

A character collection identifier.

baseString

The part of the string the returned object is intended to override.

Return Value

A valid reference to an immutable CTGlyphInfo object if glyph info creation was successful; otherwise, `NULL`.

Discussion

This function creates an immutable glyph info object for a character identifier and a character collection.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CTGlyphInfo.h`

CTGlyphInfoCreateWithGlyph

Creates an immutable glyph info object with a glyph index.

```
CTGlyphInfoRef CTGlyphInfoCreateWithGlyph( CGGlyph glyph, CTFontRef font, CFStringRef
 baseString );
```

Parameters

glyph

The index of the glyph.

font

The font to be associated with the returned CTGlyphInfo object.

baseString

The part of the string the returned object is intended to override.

Return Value

A valid reference to an immutable CTGlyphInfo object, If glyph info creation was successful; otherwise, `NULL`.

Discussion

This function creates an immutable glyph info object for a glyph index using a specified font.

Availability

Available in Mac OS X v10.5 and later.

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Declared In
`CTGlyphInfo.h`

CTGlyphInfoCreateWithGlyphName

Creates an immutable glyph info object with a glyph name.

```
CTGlyphInfoRef CTGlyphInfoCreateWithGlyphName( CFStringRef glyphName, CTFontRef
font, CFStringRef baseString );
```

Parameters

glyphName
The name of the glyph.

font
The font to be associated with the returned CTGlyphInfo object.

baseString
The part of the string the returned object is intended to override.

Return Value
A valid reference to an immutable CTGlyphInfo object if glyph info creation was successful; otherwise, `NULL`.

Discussion
This function creates an immutable glyph info object for a glyph name such as `copyright` using a specified font.

Availability
Available in Mac OS X v10.5 and later.

Declared In
`CTGlyphInfo.h`

CTGlyphInfoGetCharacterCollection

Gets the character collection for a glyph info object.

```
CTCharacterCollection CTGlyphInfoGetCharacterCollection( CTGlyphInfoRef glyphInfo
 );
```

Parameters

glyphInfo
The glyph info from which to get the character collection. May not be `NULL`.

Return Value
The character collection of the given glyph info object.

Discussion
If the glyph info object was created with a glyph name or a glyph index, its character collection is `kCTIdentityMappingCharacterCollection` (page 9).

Availability
Available in Mac OS X v10.5 and later.

Declared In
`CTGlyphInfo.h`

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CTGlyphInfoGetCharacterIdentifier

Gets the character identifier for a glyph info object.

```
CGFontIndex CTGlyphInfoGetCharacterIdentifier( CTGlyphInfoRef glyphInfo );
```

Parameters

glyphInfo

The glyph info from which to get the character identifier. May not be `NULL`.

Return Value

The character identifier of the given glyph info object.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CTGlyphInfo.h`

CTGlyphInfoGetGlyphName

Gets the glyph name for a glyph info object if that object exists.

```
CFStringRef CTGlyphInfoGetGlyphName( CTGlyphInfoRef glyphInfo );
```

Parameters

glyphInfo

The glyph info from which to get the glyph name. May not be `NULL`.

Return Value

A glyph name if the glyph info object was created; otherwise, `NULL`.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CTGlyphInfo.h`

CTGlyphInfoGetTypeID

Returns the Core Foundation type identifier of the glyph info object

```
CFTypeID CTGlyphInfoGetTypeID( void );
```

Availability

Available in Mac OS X v10.5 and later.

Declared In

`CTGlyphInfo.h`

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Data Types

CTGlyphInfoRef

A reference to a glyph info object.

```
typedef const struct __CTGlyphInfo *CTGlyphInfoRef;
```

Availability
Available in Mac OS X v10.5 and later.

Declared In
`CTGlyphInfo.h`

Constants

CTCharacterCollection

These constants specify character collections.

```
enum{ kCTIdentityMappingCharacterCollection = 0,
kCTAdobeCNS1CharacterCollection = 1,
kCTAdobeGB1CharacterCollection = 2,
kCTAdobeJapan1CharacterCollection = 3,
kCTAdobeJapan2CharacterCollection = 4,
kCTAdobeKorea1CharacterCollection = 5};
typedef uint16_t CTCharacterCollection;
```

Constants

`kCTIdentityMappingCharacterCollection`
The character identifier is equal to the `CGGlyph` glyph index.
Available in Mac OS X v10.5 and later.
Declared in `CTGlyphInfo.h`.

`kCTAdobeCNS1CharacterCollection`
The Adobe-CNS1 mapping.
Available in Mac OS X v10.5 and later.
Declared in `CTGlyphInfo.h`.

`kCTAdobeGB1CharacterCollection`
The Adobe-GB1 mapping.
Available in Mac OS X v10.5 and later.
Declared in `CTGlyphInfo.h`.

`kCTAdobeJapan1CharacterCollection`
The Adobe-Japan1 mapping.
Available in Mac OS X v10.5 and later.
Declared in `CTGlyphInfo.h`.

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`kCTAdobeJapan2CharacterCollection`
The Adobe-Japan2 mapping.

Available in Mac OS X v10.5 and later.

Declared in `CTGlyphInfo.h`.

`kCTAdobeKorea1CharacterCollection`
The Adobe-Korea1 mapping.

Available in Mac OS X v10.5 and later.

Declared in `CTGlyphInfo.h`.

Declared In
`CTGlyphInfo.h`

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Document Revision History

This table describes the changes to *CTGlyphInfo Reference*.

Date	Notes
2007-05-09	New document that describes the Core Text opaque type that enables you to override a font's specified mapping from Unicode to the glyph ID.

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Document Revision History

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