NSGlyphInfo Class Reference

Cocoa > Text & Fonts



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Conforms to	NSCoding NSCopying NSObject (NSObject)
Framework Availability	/System/Library/Frameworks/AppKit.framework Available in Mac OS X v10.2 and later.
Companion guide	Font Handling
Declared in	NSGlyphInfo.h

Overview

An NSGlyphInfo object represents a glyph attribute value (NSGlyphInfoAttributeName) in an attributed string. NSGlyphInfo allows you to override a font's specified mapping from Unicode to the glyph ID. Overriding the mapping allows you to specify a variant glyph for a given character if the font contains multiple variations for that character or to specify a glyph that doesn't have a standard mapping (such as some ligature glyphs).

Adopted Protocols

NSCoding

- encodeWithCoder:
- initWithCoder:

Tasks

Creating an NSGlyphInfo Object

+ glyphInfoWithCharacterIdentifier:collection:baseString: (page 6) Instantiates and returns an NSGlyphInfo object using a character identifier and a character collection. + glyphInfoWithGlyph:forFont:baseString: (page 6)

Instantiates and returns an NSGlyphInfo object using a glyph index and a specified font.

+ glyphInfoWithGlyphName:forFont:baseString: (page 7)

Instantiates and returns an NSGlyphInfo object using a glyph name and a specified font.

Getting Information About an NSGlyphInfo Object

- characterIdentifier (page 8)
 Returns the receiver's character identifier (CID).
- characterCollection (page 7)

Returns an NSCharacterCollection value specifying the glyph-to-character identifier mapping of the receiver.

- glyphName (page 8)

Returns the receiver's glyph name.

Class Methods

glyphInfoWithCharacterIdentifier:collection:baseString:

Instantiates and returns an NSGlyphInfo object using a character identifier and a character collection.

```
+ (NSGlyphInfo *)glyphInfoWithCharacterIdentifier:(NSUInteger)cid
collection:(NSCharacterCollection)characterCollection baseString:(NSString
*)theString
```

Parameters

cid

A character identifier.

characterCollection

A string constant representing a character collection. Possible values for *characterCollection* are described in "Constants" (page 9).

theString

The part of the attributed string the returned instance is intended to override.

Return Value

The created NSGlyphInfo object or nil if the object couldn't be created.

Availability

Available in Mac OS X v10.2 and later.

Declared In

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NSGlyphInfo.h

glyphInfoWithGlyph:forFont:baseString:

Instantiates and returns an NSGlyphInfo object using a glyph index and a specified font.

```
+ (NSGlyphInfo *)glyphInfoWithGlyph:(NSGlyph)glyph forFont:(NSFont *)font
baseString:(NSString *)theString
```

Parameters

glyph

The identifier of the glyph.

font

The font object to be associated with the returned NSGlyphInfo object,

theString

The part of the attributed string the returned instance is intended to override.

Return Value

The created NSGlyphInfo object or nil if the object couldn't be created.

Availability

Available in Mac OS X v10.2 and later.

Declared In

NSGlyphInfo.h

glyphInfoWithGlyphName:forFont:baseString:

Instantiates and returns an NSGlyphInfo object using a glyph name and a specified font.

```
+ (NSGlyphInfo *)glyphInfoWithGlyphName:(NSString *)glyphName forFont:(NSFont *)font
baseString:(NSString *)theString
```

Parameters

glyphName

The name of the glyph.

font

The font object to be associated with the returned NSGlyphInfo object,

theString

The part of the attributed string the returned instance is intended to override.

Return Value

The created NSGlyphInfo object or nil if the object couldn't be created.

Availability

Available in Mac OS X v10.2 and later.

Declared In NSGlyphInfo.h

Instance Methods

characterCollection

Returns an NSCharacterCollection value specifying the glyph-to-character identifier mapping of the receiver.

- (NSCharacterCollection)characterCollection

Discussion

This method returns NSIdentityMappingCharacterCollection if the receiver was instantiated with either an NSGlyph identifier or a glyph name. It returns other possible values if the receiver was instantiated using glyphInfoWithCharacterIdentifier:collection:baseString: (page 6). These constants are described in NSCharacterCollection (page 9).

Availability

Available in Mac OS X v10.2 and later.

Declared In NSGlyphInfo.h

characterIdentifier

Returns the receiver's character identifier (CID).

- (NSUInteger)characterIdentifier

Discussion

If the receiver was instantiated with a method other than glyphInfoWithCharacterIdentifier:collection:baseString: (page 6), this method returns NULL.

Availability

Available in Mac OS X v10.2 and later.

Declared In

NSGlyphInfo.h

glyphName

Returns the receiver's glyph name.

- (NSString *)glyphName

Discussion

If the receiver was instantiated with a method other than
glyphInfoWithGlyphName:forFont:baseString: (page 7), this method returns nil.

Availability

Available in Mac OS X v10.2 and later.

Declared In NSGlyphInfo.h

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Constants

NSCharacterCollection

The following values specify the mapping of character identifiers to glyphs, and are returned by characterCollection (page 7).

```
typedef enum {
```

```
NSIdentityMappingCharacterCollection = 0,
NSAdobeCNS1CharacterCollection = 1,
NSAdobeGB1CharacterCollection = 2,
NSAdobeJapan1CharacterCollection = 3,
NSAdobeJapan2CharacterCollection = 4,
NSAdobeKorea1CharacterCollection = 5,
} NSCharacterCollection;
```

Constants

NSIdentityMappingCharacterCollection

Indicates that the character identifier is equal to the glyph index.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

NSAdobeCNS1CharacterCollection

Indicates the Adobe-CNS1 mapping.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

NSAdobeGB1CharacterCollection

Indicates the Adobe-GB1 mapping.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

NSAdobeJapan1CharacterCollection

Indicates the Adobe-Japan1 mapping.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

NSAdobeJapan2CharacterCollection

Indicates the Adobe-Japan2 mapping.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

NSAdobeKorealCharacterCollection

Indicates the Adobe-Korea1 mapping.

Available in Mac OS X v10.2 and later.

Declared in NSGlyphInfo.h.

Availability

Available in Mac OS X v10.2 and later.

Declared In

NSGlyphInfo.h

NSGlyphInfo Class Reference

Document Revision History

This table describes the changes to NSGlyphInfo Class Reference.

Date	Notes
2007-03-01	Revised task headings.
2006-05-23	First publication of this content as a separate document.

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