
NSGlyphGenerator Class Reference

User Experience: Text Layout



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NSGlyphGenerator Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/AppKit.framework
Availability	Available in Mac OS X v10.3 and later.
Declared in	NSGlyphGenerator.h
Companion guides	Text System Overview Text Layout Programming Guide for Cocoa

Overview

An `NSGlyphGenerator` object performs the initial, nominal glyph generation phase in the layout process.

The nominal glyph generation pass essentially generates one glyph per character; the typesetter may later make substitutions in the glyph stream, for example, changing an acute accent glyph followed by an “e” glyph into a single acute-accented “é” glyph.

`NSGlyphGenerator` communicates via the `NSGlyphStorage` protocol. An example of a class conforming to the protocol is `NSLayoutManager`.

Tasks

Obtaining a Glyph Generator

+ `sharedGlyphGenerator` (page 6)
Returns a shared instance of `NSGlyphGenerator`.

Generating Glyphs

- `generateGlyphsForGlyphStorage:desiredNumberOfCharacters:glyphIndex:characterIndex:` (page 6)
Generates glyphs for the specified glyph storage object (`NSLayoutManager` by default).

Class Methods

sharedGlyphGenerator

Returns a shared instance of `NSGlyphGenerator`.

```
+ (id)sharedGlyphGenerator
```

Availability

Available in Mac OS X v10.3 and later.

Declared In

`NSGlyphGenerator.h`

Instance Methods

generateGlyphsForGlyphStorage:desiredNumberOfCharacters:glyphIndex:characterIndex:

Generates glyphs for the specified glyph storage object (`NSLayoutManager` by default).

```
- (void)generateGlyphsForGlyphStorage:(id < NSGlyphStorage >)glyphStorage
    desiredNumberOfCharacters:(NSUInteger)nChars glyphIndex:(NSUInteger *)glyphIndex
    characterIndex:(NSUInteger *)charIndex
```

Discussion

Generates glyphs for the glyph storage object specified by *glyphStorage*, beginning with the character at *charIndex* and continuing for *nChars* characters. The *glyphIndex* specifies the index of the first glyph generated.

Availability

Available in Mac OS X v10.3 and later.

Declared In

`NSGlyphGenerator.h`

Document Revision History

This table describes the changes to *NSGlyphGenerator Class Reference*.

Date	Notes
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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 characterIndex: **instance method** [6](#)

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sharedGlyphGenerator **class method** [6](#)