NSTextTab Class Reference

Cocoa > Text & Fonts



2006-05-23

Ś

Apple Inc. © 2006 Apple Computer, Inc. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc. 1 Infinite Loop Cupertino, CA 95014 408-996-1010

Apple, the Apple logo, Cocoa, Mac, Mac OS, and Quartz are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.

IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Contents

NSTextTab Class Reference 5

Overview 5 Adopted Protocols 5 Tasks 6 Creating an NSTextTab 6 Getting Tab Stop Information 6 Getting Text Tab Information 6 Instance Methods 6 alignment 6 initWithTextAlignment:location:options: 6 initWithType:location: 7 location 7 options 7 tabStopType 8 Constants 8 NSTextTabType 8 Terminating character 9

Document Revision History 11

Index 13

CONTENTS

NSTextTab Class Reference

Inherits from	NSObject
Conforms to	NSCoding NSCopying NSObject (NSObject)
Framework Availability	/System/Library/Frameworks/AppKit.framework Available in Mac OS X v10.0 and later.
Companion guide	Text System Overview
Declared in	NSParagraphStyle.h
Related sample code	Quartz Composer WWDC 2005 TextEdit TextEditPlus

Overview

An NSTextTab object represents a tab in an NSParagraphStyle object, storing an alignment type and location. NSTextTab objects are most frequently used with the Application Kit's text system and with NSRulerView and NSRulerMarker objects. See the appropriate class specifications for more information on these uses.

The text system supports four alignment types: left, center, right, and decimal (based on the decimal separator character of the locale in effect). These alignment types are absolute, not based on the line sweep direction of text. For example, tabbed text is always positioned to the left of a right-aligned tab, whether the line sweep direction is left to right or right to left. A tab's location, on the other hand, is relative to the back margin. A tab set at 1.5" for example, is at 1.5" from the right in right to left text.

Adopted Protocols

NSCoding

- encodeWithCoder:
- initWithCoder:

NSCopying

- copyWithZone:

Tasks

Creating an NSTextTab

- initWithType:location: (page 7)
 Initializes a newly allocated NSTextTab with an alignment of *type* at *location* on the paragraph.
- initWithTextAlignment:location:options: (page 6)
 Initializes a text tab with the text alignment, location, and options.

Getting Tab Stop Information

- location (page 7)
 Returns the receiver's ruler location relative to the back margin.
- tabStopType (page 8)
 Returns the receiver's tab stop type.

Getting Text Tab Information

- alignment (page 6)
 Returns the text alignment of the receiver.
- options (page 7)
 Returns the dictionary of attributes associated with the receiver.

Instance Methods

alignment

Returns the text alignment of the receiver.

- (NSTextAlignment)alignment

Return Value The text alignment of the receiver as an NSTextAlignment constant

Availability Available in Mac OS X v10.3 and later.

Declared In NSParagraphStyle.h

6

initWithTextAlignment:location:options:

Initializes a text tab with the text alignment, location, and options.

- (id)initWithTextAlignment:(NSTextAlignment)alignment location:(CGFloat)loc options:(NSDictionary *)options

Discussion

The text alignment is used to determine the position of text inside the tab column. See NSTextTabType (page 8) for a mapping between alignments and tab stop types

Availability Available in Mac OS X v10.3 and later.

Declared In NSParagraphStyle.h

initWithType:location:

Initializes a newly allocated NSTextTab with an alignment of *type* at *location* on the paragraph.

- (id)initWithType:(NSTextTabType)type location:(CGFloat)location

Discussion

The location is relative to the back margin, based on the line sweep direction of the paragraph. type can be any of the values described in NSTextTabType (page 8).

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

Related Sample Code

Quartz Composer WWDC 2005 TextEdit TextEditPlus

Declared In NSParagraphStyle.h

location

Returns the receiver's ruler location relative to the back margin.

- (CGFloat)location

Return Value The receiver's ruler location relative to the back margin.

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

Declared In NSParagraphStyle.h

options

Returns the dictionary of attributes associated with the receiver.

- (NSDictionary *)options

Return Value

The dictionary of attributes associated with the receiver.

Availability

Available in Mac OS X v10.3 and later.

Declared In

NSParagraphStyle.h

tabStopType

Returns the receiver's tab stop type.

- (NSTextTabType)tabStopType

Return Value The receiver's tab stop type. Possible values are listed in NSTextTabType (page 8).

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

Declared In NSParagraphStyle.h

Constants

NSTextTabType

These constants describe the various type of tab stop.

```
typedef enum _NSTextTabType {
    NSLeftTabStopType = 0,
    NSRightTabStopType,
    NSCenterTabStopType,
    NSDecimalTabStopType
} NSTextTabType;
```

Constants

NSLeftTabStopType A left-aligned tab stop. Available in Mac OS X v10.0 and later.

Declared in NSParagraphStyle.h.

- NSRightTabStopType
 - A right-aligned tab stop.

Available in Mac OS X v10.0 and later.

Declared in NSParagraphStyle.h.

NSCenterTabStopType

A center-aligned tab stop.

Available in Mac OS X v10.0 and later.

Declared in NSParagraphStyle.h.

NSDecimalTabStopType

Aligns columns of numbers by the decimal point.

Available in Mac OS X v10.0 and later.

Declared in NSParagraphStyle.h.

Discussion

The following mappings define the conversions between text alignment in NSTextTab and tab stop types defined by NSTextTab:

Alignment	Tab Stop Type
NSLeftTextAlignment	NSLeftTabStopType
NSRightTextAlignment	NSRightTabStopType
NSCenterTextAlignment	NSCenterTabStopType
NSJustifiedTextAlignment	NSLeftTabStopType
NSNaturalTextAlignment	NSLeftTabStopType or NSRightTabStopType, depending on the user setting
NSRightTextAlignment with terminator	NSDecimalTabStopType

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSParagraphStyle.h

Terminating character

This constant specifies the terminating character for a tab column.

NSString *NSTabColumnTerminatorsAttributeName;

Constants

```
NSTabColumnTerminatorsAttributeName
```

The value is an NSCharacterSet object.

The character set is used to determine the terminating character for a tab column. The tab and newline characters are implied even if they don't exist in the character set. This attribute is optional.

Available in Mac OS X v10.3 and later.

Declared in NSParagraphStyle.h.

Declared In

NSParagraphStyle.h

NSTextTab Class Reference

Document Revision History

This table describes the changes to NSTextTab Class Reference.

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

REVISION HISTORY

Document Revision History

Index

А

alignment instance method 6

I

initWithTextAlignment:location:options: instance method 6 initWithType:location:instance method 7

L

location instance method 7

Ν

NSCenterTabStopType constant 9 NSDecimalTabStopType constant 9 NSLeftTabStopType constant 8 NSRightTabStopType constant 8 NSTabColumnTerminatorsAttributeName constant 9 NSTextTabType data type 8

0

options instance method 7

Т

tabStopType instance method 8 Terminating character 9