
NSSpellServer Class Reference

[Cocoa](#) > [Text & Fonts](#)



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NSSpellServer Class Reference

Inherits from	NSObject
Conforms to	NSObject (NSObject)
Framework	/System/Library/Frameworks/Foundation.framework
Availability	Available in Mac OS X v10.0 and later.
Companion guide	Spell Checking
Declared in	NSSpellServer.h

Overview

The `NSSpellServer` class gives you a way to make your application's spell checker available as a **spelling service** available to any application.

A **service provider** is an application that declares its availability in a standard way, so that any other applications that wish to use it can do so. If you build a spelling checker that makes use of the `NSSpellServer` class and list it as an available service, then users of any application that makes use of `NSSpellChecker` or includes a Services menu will see your spelling checker as one of the available dictionaries.

Tasks

Configuring Spelling Servers

- [setDelegate:](#) (page 8)
Assigns the specified delegate to the receiver.
- [delegate](#) (page 6)
Returns the receiver's delegate.

Providing Spelling Services

- [registerLanguage:byVendor:](#) (page 7)
Notifies the receiver of a language your spelling checker can check.
- [run](#) (page 7)
Causes the receiver to start listening for spell-checking requests.

Managing the Spell-Checking Process

- [isWordInUserDictionaries:caseSensitive:](#) (page 6)
Indicates whether a given word is in the user's list of learned words or the document's list of words to ignore.
- [spellServer:didForgetWord:inLanguage:](#) (page 9) *delegate method*
Notifies the delegate that the sender has removed the specified word from the user's list of acceptable words in the specified language.
- [spellServer:didLearnWord:inLanguage:](#) (page 9) *delegate method*
Notifies the delegate that the sender has added the specified word to the user's list of acceptable words in the specified language.
- [spellServer:findMisspelledWordInString:language:wordCount:countOnly:](#) (page 10) *delegate method*
Asks the delegate to search for a misspelled word in a given string, using the specified language, and marking the first misspelled word found by returning its range within the string.
- [spellServer:suggestCompletionsForPartialWordRange:inString:language:](#) (page 10) *delegate method*
This delegate method returns an array of possible word completions from the spell checker, based on a partially completed string and a given range.
- [spellServer:suggestGuessesForWord:inLanguage:](#) (page 11) *delegate method*
Gives the delegate the opportunity to suggest guesses to the sender for the correct spelling of the given misspelled word in the specified language.
- [spellServer:checkGrammarInString:language:details:](#) (page 8) *delegate method*
Gives the delegate the opportunity to customize the grammatical analysis of a given string.

Instance Methods

delegate

Returns the receiver's delegate.

- (id)delegate

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setDelegate:](#) (page 8)

Declared In

NSSpellServer.h

isWordInUserDictionaries:caseSensitive:

Indicates whether a given word is in the user's list of learned words or the document's list of words to ignore.

- (BOOL)isWordInUserDictionaries:(NSString *)word caseSensitive:(BOOL)caseSensitive

Parameters*word*

The word to compare with those in the user dictionaries.

caseSensitive

Specifies whether the comparison is case sensitive.

Return Value

A Boolean value indicating whether the word is in the user dictionaries. If YES, the word is acceptable to the user.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSSpellServer.h

registerLanguage:byVendor:

Notifies the receiver of a language your spelling checker can check.

```
- (BOOL)registerLanguage:(NSString *)language byVendor:(NSString *)vendor
```

Parameters*language*

A string specifying the English name of a language on Apple's list of languages.

vendor

A string that identifies the vendor (to distinguish your spelling checker from those that others may offer for the same language).

Return Value

Returns YES if the language is registered, NO if for some reason it can't be registered.

Discussion

If your spelling checker supports more than one language, it should invoke this method once for each language. Registering a language-vendor combination causes it to appear in the Spelling panel's pop-up menu of spelling checkers.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSSpellServer.h

run

Causes the receiver to start listening for spell-checking requests.

```
- (void)run
```

Discussion

This method starts a loop that never returns; you need to set the NSSpellServer object's delegate before sending this message.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [setDelegate:](#) (page 8)

Declared In

NSSpellServer.h

setDelegate:

Assigns the specified delegate to the receiver.

```
- (void)setDelegate:(id)anObject
```

Parameters

anObject

The delegate assigned to the receiver.

Discussion

Because the delegate is where the real work is done, this step is essential before telling the NSSpellServer object to run.

Availability

Available in Mac OS X v10.0 and later.

See Also

- [delegate](#) (page 6)

- [run](#) (page 7)

Declared In

NSSpellServer.h

Delegate Methods

spellServer:checkGrammarInString:language:details:

Gives the delegate the opportunity to customize the grammatical analysis of a given string.

```
- (NSRange)spellServer:(NSSpellServer *)sender checkGrammarInString:(NSString *)string language:(NSString *)language details:(NSArray **)outDetails
```

Parameters

sender

Spell server satisfying a grammatical analysis request.

string

String to analyze.

language

Language use in *string*. When *nil*, the language selected in the Spelling panel is used.

outDetails

On output, dictionaries describing grammar-analysis details within the flagged grammatical unit. See the `NSSpellServer` class for information about these dictionaries.

Return Value

Location of the first flagged grammatical unit within *string*.

Availability

Available in Mac OS X v10.5 and later.

Declared In

`NSSpellServer.h`

spellServer:didForgetWord:inLanguage:

Notifies the delegate that the sender has removed the specified word from the user's list of acceptable words in the specified language.

```
- (void)spellServer:(NSSpellServer *)sender didForgetWord:(NSString *)word
  inLanguage:(NSString *)language
```

Parameters

sender

The `NSSpellServer` object that removed the word.

word

The word that was removed.

language

The language of the removed word.

Discussion

If your delegate maintains a similar auxiliary word list, you may wish to edit the list accordingly.

Availability

Available in Mac OS X v10.0 and later.

Declared In

`NSSpellServer.h`

spellServer:didLearnWord:inLanguage:

Notifies the delegate that the sender has added the specified word to the user's list of acceptable words in the specified language.

```
- (void)spellServer:(NSSpellServer *)sender didLearnWord:(NSString *)word
  inLanguage:(NSString *)language
```

Parameters

sender

The `NSSpellServer` object that added the word.

word

The word that was added.

language

The language of the added word.

Discussion

If your delegate maintains a similar auxiliary word list, you may wish to edit the list accordingly.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSSpellServer.h

spellServer:findMisspelledWordInString:language:wordCount:countOnly:

Asks the delegate to search for a misspelled word in a given string, using the specified language, and marking the first misspelled word found by returning its range within the string.

```
- (NSRange)spellServer:(NSSpellServer *)sender findMisspelledWordInString:(NSString *)stringToCheck language:(NSString *)language wordCount:(int32_t *)wordCount countOnly:(BOOL)countOnly
```

Parameters

sender

The NSSpellServer object that sent this message.

stringToCheck

The string to search for the misspelled word.

language

The language to use for the search.

wordCount

On output, returns by reference the number of words from the beginning of the string object until the misspelled word (or the end of string).

countOnly

If YES, the method only counts the words in the string object and does not spell checking.

Return Value

The range of the misspelled word within the given string.

Discussion

Send [isWordInUserDictionaries:caseSensitive:](#) (page 6) to the spelling server to determine if the word exists in the user's language dictionaries.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSSpellServer.h

spellServer:suggestCompletionsForPartialWordRange:inString:language:

This delegate method returns an array of possible word completions from the spell checker, based on a partially completed string and a given range.

```
- (NSArray *)spellServer:(NSSpellServer *)sender
    suggestCompletionsForPartialWordRange:(NSRange)range inString:(NSString *)string
    language:(NSString *)language
```

Parameters

sender

The NSSpellServer object that sent this message.

range

The range of the partially completed word.

string

The string containing the partial word range.

language

The language to use for the completion.

Return Value

An array of NSString objects indicating possible completions.

Discussion

See `completionsForPartialWordRange:inString:language:inSpellDocumentWithTag:inNSSpellChecker` for more information.

Availability

Available in Mac OS X v10.3 and later.

Declared In

NSSpellServer.h

spellServer:suggestGuessesForWord:inLanguage:

Gives the delegate the opportunity to suggest guesses to the sender for the correct spelling of the given misspelled word in the specified language.

```
- (NSArray *)spellServer:(NSSpellServer *)sender suggestGuessesForWord:(NSString *)word
    inLanguage:(NSString *)language
```

Parameters

sender

The NSSpellServer object that sent this message.

word

The misspelled word.

language

The language to use for the guesses.

Return Value

An array of NSString objects indicating possible correct spellings.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSSpellServer.h

Constants

Grammatical-Analysis Details

These constants are use as the keys in the `outDetails` dictionaries returned by `spellServer:checkGrammarInString:language:details:` (page 8) and `NSSpellChecker` `-checkGrammarOfString:startingAt:language:wrap:inSpellingDocumentWithTag:details:.`

```
FOUNDATION_EXPORT NSString *const NSGrammarRange;  
FOUNDATION_EXPORT NSString *const NSGrammarUserDescription;  
FOUNDATION_EXPORT NSString *const NSGrammarCorrections;
```

Constants

`NSGrammarRange`

`NSGrammarUserDescription`

`NSGrammarCorrections`

Declared In

`NSSpellServer.h`

Document Revision History

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

Date	Notes
2007-04-27	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

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