| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV PACKAGE**](http://docs.google.com/java/sql/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/java/text/spi/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?java/text/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package java.text

Provides classes and interfaces for handling text, dates, numbers, and messages in a manner independent of natural languages.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/AttributedCharacterIterator.html) | An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**CharacterIterator**](http://docs.google.com/java/text/CharacterIterator.html) | This interface defines a protocol for bidirectional iteration over text. |

| **Class Summary** | |
| --- | --- |
| [**Annotation**](http://docs.google.com/java/text/Annotation.html) | An Annotation object is used as a wrapper for a text attribute value if the attribute has annotation characteristics. |
| [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/AttributedCharacterIterator.Attribute.html) | Defines attribute keys that are used to identify text attributes. |
| [**AttributedString**](http://docs.google.com/java/text/AttributedString.html) | An AttributedString holds text and related attribute information. |
| [**Bidi**](http://docs.google.com/java/text/Bidi.html) | This class implements the Unicode Bidirectional Algorithm. |
| [**BreakIterator**](http://docs.google.com/java/text/BreakIterator.html) | The BreakIterator class implements methods for finding the location of boundaries in text. |
| [**ChoiceFormat**](http://docs.google.com/java/text/ChoiceFormat.html) | A ChoiceFormat allows you to attach a format to a range of numbers. |
| [**CollationElementIterator**](http://docs.google.com/java/text/CollationElementIterator.html) | The CollationElementIterator class is used as an iterator to walk through each character of an international string. |
| [**CollationKey**](http://docs.google.com/java/text/CollationKey.html) | A CollationKey represents a String under the rules of a specific Collator object. |
| [**Collator**](http://docs.google.com/java/text/Collator.html) | The Collator class performs locale-sensitive String comparison. |
| [**DateFormat**](http://docs.google.com/java/text/DateFormat.html) | DateFormat is an abstract class for date/time formatting subclasses which formats and parses dates or time in a language-independent manner. |
| [**DateFormat.Field**](http://docs.google.com/java/text/DateFormat.Field.html) | Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from DateFormat.formatToCharacterIterator and as field identifiers in FieldPosition. |
| [**DateFormatSymbols**](http://docs.google.com/java/text/DateFormatSymbols.html) | DateFormatSymbols is a public class for encapsulating localizable date-time formatting data, such as the names of the months, the names of the days of the week, and the time zone data. |
| [**DecimalFormat**](http://docs.google.com/java/text/DecimalFormat.html) | DecimalFormat is a concrete subclass of NumberFormat that formats decimal numbers. |
| [**DecimalFormatSymbols**](http://docs.google.com/java/text/DecimalFormatSymbols.html) | This class represents the set of symbols (such as the decimal separator, the grouping separator, and so on) needed by DecimalFormat to format numbers. |
| [**FieldPosition**](http://docs.google.com/java/text/FieldPosition.html) | FieldPosition is a simple class used by Format and its subclasses to identify fields in formatted output. |
| [**Format**](http://docs.google.com/java/text/Format.html) | Format is an abstract base class for formatting locale-sensitive information such as dates, messages, and numbers. |
| [**Format.Field**](http://docs.google.com/java/text/Format.Field.html) | Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from Format.formatToCharacterIterator and as field identifiers in FieldPosition. |
| [**MessageFormat**](http://docs.google.com/java/text/MessageFormat.html) | MessageFormat provides a means to produce concatenated messages in a language-neutral way. |
| [**MessageFormat.Field**](http://docs.google.com/java/text/MessageFormat.Field.html) | Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from MessageFormat.formatToCharacterIterator. |
| [**Normalizer**](http://docs.google.com/java/text/Normalizer.html) | This class provides the method normalize which transforms Unicode text into an equivalent composed or decomposed form, allowing for easier sorting and searching of text. |
| [**NumberFormat**](http://docs.google.com/java/text/NumberFormat.html) | NumberFormat is the abstract base class for all number formats. |
| [**NumberFormat.Field**](http://docs.google.com/java/text/NumberFormat.Field.html) | Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from NumberFormat.formatToCharacterIterator and as field identifiers in FieldPosition. |
| [**ParsePosition**](http://docs.google.com/java/text/ParsePosition.html) | ParsePosition is a simple class used by Format and its subclasses to keep track of the current position during parsing. |
| [**RuleBasedCollator**](http://docs.google.com/java/text/RuleBasedCollator.html) | The RuleBasedCollator class is a concrete subclass of Collator that provides a simple, data-driven, table collator. |
| [**SimpleDateFormat**](http://docs.google.com/java/text/SimpleDateFormat.html) | SimpleDateFormat is a concrete class for formatting and parsing dates in a locale-sensitive manner. |
| [**StringCharacterIterator**](http://docs.google.com/java/text/StringCharacterIterator.html) | StringCharacterIterator implements the CharacterIterater protocol for a String. |

| **Enum Summary** | |
| --- | --- |
| [**Normalizer.Form**](http://docs.google.com/java/text/Normalizer.Form.html) | This enum provides constants of the four Unicode normalization forms that are described in  [Unicode Standard Annex #15 — Unicode Normalization Forms](http://www.unicode.org/unicode/reports/tr15/tr15-23.html) and two methods to access them. |

| **Exception Summary** | |
| --- | --- |
| [**ParseException**](http://docs.google.com/java/text/ParseException.html) | Signals that an error has been reached unexpectedly while parsing. |

## Package java.text Description

Provides classes and interfaces for handling text, dates, numbers, and messages in a manner independent of natural languages. This means your main application or applet can be written to be language-independent, and it can rely upon separate, dynamically-linked localized resources. This allows the flexibility of adding localizations for new localizations at any time.

These classes are capable of formatting dates, numbers, and messages, parsing; searching and sorting strings; and iterating over characters, words, sentences, and line breaks. This package contains three main groups of classes and interfaces:

* Classes for iteration over text
* Classes for formatting and parsing
* Classes for string collation

**Since:** JDK1.1

| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV PACKAGE**](http://docs.google.com/java/sql/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/java/text/spi/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?java/text/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).