| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/text/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**java.text**

| Packages that use [java.text](http://docs.google.com/java/text/package-summary.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.event**](#2et92p0) | Provides interfaces and classes for dealing with different types of events fired by AWT components. |
| [**java.awt.font**](#tyjcwt) | Provides classes and interface relating to fonts. |
| [**java.awt.im**](#3dy6vkm) | Provides classes and interfaces for the input method framework. |
| [**java.awt.im.spi**](#1t3h5sf) | Provides interfaces that enable the development of input methods that can be used with any Java runtime environment. |
| [**java.text**](#4d34og8) | Provides classes and interfaces for handling text, dates, numbers, and messages in a manner independent of natural languages. |
| [**java.text.spi**](#2s8eyo1) | Service provider classes for the classes in the java.text package. |
| [**javax.swing**](#17dp8vu) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.plaf.synth**](#3rdcrjn) | Synth is a skinnable look and feel in which all painting is delegated. |
| [**javax.swing.text**](#26in1rg) | Provides classes and interfaces that deal with editable and noneditable text components. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.awt)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.Attribute.html#java.awt)            Defines attribute keys that are used to identify text attributes. |
| [**CharacterIterator**](http://docs.google.com/java/text/class-use/CharacterIterator.html#java.awt)            This interface defines a protocol for bidirectional iteration over text. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.awt.event)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.awt.font)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.Attribute.html#java.awt.font)            Defines attribute keys that are used to identify text attributes. |
| [**BreakIterator**](http://docs.google.com/java/text/class-use/BreakIterator.html#java.awt.font)            The BreakIterator class implements methods for finding the location of boundaries in text. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.awt.im](http://docs.google.com/java/awt/im/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.awt.im)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.Attribute.html#java.awt.im)            Defines attribute keys that are used to identify text attributes. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.awt.im.spi](http://docs.google.com/java/awt/im/spi/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.awt.im.spi)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.text](http://docs.google.com/java/text/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#java.text)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**AttributedCharacterIterator.Attribute**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.Attribute.html#java.text)            Defines attribute keys that are used to identify text attributes. |
| [**Bidi**](http://docs.google.com/java/text/class-use/Bidi.html#java.text)            This class implements the Unicode Bidirectional Algorithm. |
| [**BreakIterator**](http://docs.google.com/java/text/class-use/BreakIterator.html#java.text)            The BreakIterator class implements methods for finding the location of boundaries in text. |
| [**CharacterIterator**](http://docs.google.com/java/text/class-use/CharacterIterator.html#java.text)            This interface defines a protocol for bidirectional iteration over text. |
| [**CollationElementIterator**](http://docs.google.com/java/text/class-use/CollationElementIterator.html#java.text)            The CollationElementIterator class is used as an iterator to walk through each character of an international string. |
| [**CollationKey**](http://docs.google.com/java/text/class-use/CollationKey.html#java.text)            A CollationKey represents a String under the rules of a specific Collator object. |
| [**Collator**](http://docs.google.com/java/text/class-use/Collator.html#java.text)            The Collator class performs locale-sensitive String comparison. |
| [**DateFormat**](http://docs.google.com/java/text/class-use/DateFormat.html#java.text)            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/class-use/DateFormat.Field.html#java.text)            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/class-use/DateFormatSymbols.html#java.text)            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. |
| [**DecimalFormatSymbols**](http://docs.google.com/java/text/class-use/DecimalFormatSymbols.html#java.text)            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/class-use/FieldPosition.html#java.text)            FieldPosition is a simple class used by Format and its subclasses to identify fields in formatted output. |
| [**Format**](http://docs.google.com/java/text/class-use/Format.html#java.text)            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/class-use/Format.Field.html#java.text)            Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from Format.formatToCharacterIterator and as field identifiers in FieldPosition. |
| [**MessageFormat.Field**](http://docs.google.com/java/text/class-use/MessageFormat.Field.html#java.text)            Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from MessageFormat.formatToCharacterIterator. |
| [**Normalizer.Form**](http://docs.google.com/java/text/class-use/Normalizer.Form.html#java.text)            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. |
| [**NumberFormat**](http://docs.google.com/java/text/class-use/NumberFormat.html#java.text)            NumberFormat is the abstract base class for all number formats. |
| [**NumberFormat.Field**](http://docs.google.com/java/text/class-use/NumberFormat.Field.html#java.text)            Defines constants that are used as attribute keys in the AttributedCharacterIterator returned from NumberFormat.formatToCharacterIterator and as field identifiers in FieldPosition. |
| [**ParseException**](http://docs.google.com/java/text/class-use/ParseException.html#java.text)            Signals that an error has been reached unexpectedly while parsing. |
| [**ParsePosition**](http://docs.google.com/java/text/class-use/ParsePosition.html#java.text)            ParsePosition is a simple class used by Format and its subclasses to keep track of the current position during parsing. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [java.text.spi](http://docs.google.com/java/text/spi/package-summary.html) | |
| --- | --- |
| [**BreakIterator**](http://docs.google.com/java/text/class-use/BreakIterator.html#java.text.spi)            The BreakIterator class implements methods for finding the location of boundaries in text. |
| [**Collator**](http://docs.google.com/java/text/class-use/Collator.html#java.text.spi)            The Collator class performs locale-sensitive String comparison. |
| [**DateFormat**](http://docs.google.com/java/text/class-use/DateFormat.html#java.text.spi)            DateFormat is an abstract class for date/time formatting subclasses which formats and parses dates or time in a language-independent manner. |
| [**DateFormatSymbols**](http://docs.google.com/java/text/class-use/DateFormatSymbols.html#java.text.spi)            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. |
| [**DecimalFormatSymbols**](http://docs.google.com/java/text/class-use/DecimalFormatSymbols.html#java.text.spi)            This class represents the set of symbols (such as the decimal separator, the grouping separator, and so on) needed by DecimalFormat to format numbers. |
| [**NumberFormat**](http://docs.google.com/java/text/class-use/NumberFormat.html#java.text.spi)            NumberFormat is the abstract base class for all number formats. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |
| [**AttributedCharacterIterator**](http://docs.google.com/java/text/class-use/AttributedCharacterIterator.html#javax.swing)            An AttributedCharacterIterator allows iteration through both text and related attribute information. |
| [**DecimalFormat**](http://docs.google.com/java/text/class-use/DecimalFormat.html#javax.swing)            DecimalFormat is a concrete subclass of NumberFormat that formats decimal numbers. |
| [**Format**](http://docs.google.com/java/text/class-use/Format.html#javax.swing)            Format is an abstract base class for formatting locale-sensitive information such as dates, messages, and numbers. |
| [**MessageFormat**](http://docs.google.com/java/text/class-use/MessageFormat.html#javax.swing)            MessageFormat provides a means to produce concatenated messages in a language-neutral way. |
| [**ParseException**](http://docs.google.com/java/text/class-use/ParseException.html#javax.swing)            Signals that an error has been reached unexpectedly while parsing. |
| [**SimpleDateFormat**](http://docs.google.com/java/text/class-use/SimpleDateFormat.html#javax.swing)            SimpleDateFormat is a concrete class for formatting and parsing dates in a locale-sensitive manner. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [javax.swing.plaf.synth](http://docs.google.com/javax/swing/plaf/synth/package-summary.html) | |
| --- | --- |
| [**ParseException**](http://docs.google.com/java/text/class-use/ParseException.html#javax.swing.plaf.synth)            Signals that an error has been reached unexpectedly while parsing. |

| Classes in [java.text](http://docs.google.com/java/text/package-summary.html) used by [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
| --- | --- |
| [**CharacterIterator**](http://docs.google.com/java/text/class-use/CharacterIterator.html#javax.swing.text)            This interface defines a protocol for bidirectional iteration over text. |
| [**DateFormat**](http://docs.google.com/java/text/class-use/DateFormat.html#javax.swing.text)            DateFormat is an abstract class for date/time formatting subclasses which formats and parses dates or time in a language-independent manner. |
| [**Format**](http://docs.google.com/java/text/class-use/Format.html#javax.swing.text)            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/class-use/Format.Field.html#javax.swing.text)            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/class-use/MessageFormat.html#javax.swing.text)            MessageFormat provides a means to produce concatenated messages in a language-neutral way. |
| [**NumberFormat**](http://docs.google.com/java/text/class-use/NumberFormat.html#javax.swing.text)            NumberFormat is the abstract base class for all number formats. |
| [**ParseException**](http://docs.google.com/java/text/class-use/ParseException.html#javax.swing.text)            Signals that an error has been reached unexpectedly while parsing. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/text/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.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.

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