| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/nio/CharBuffer.html) | **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/nio//class-useCharBuffer.html)    [**NO FRAMES**](http://docs.google.com/CharBuffer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.nio.CharBuffer**

| Packages that use [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| [**java.io**](#3znysh7) | Provides for system input and output through data streams, serialization and the file system. |
| [**java.lang**](#2et92p0) | Provides classes that are fundamental to the design of the Java programming language. |
| [**java.nio**](#tyjcwt) | Defines buffers, which are containers for data, and provides an overview of the other NIO packages. |
| [**java.nio.charset**](#3dy6vkm) | Defines charsets, decoders, and encoders, for translating between bytes and Unicode characters. |

| Uses of [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in [java.io](http://docs.google.com/java/io/package-summary.html) | |
| --- | --- |

| Methods in [java.io](http://docs.google.com/java/io/package-summary.html) with parameters of type [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| int | **Reader.**[**read**](http://docs.google.com/java/io/Reader.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) target)            Attempts to read characters into the specified character buffer. |

| Uses of [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in [java.lang](http://docs.google.com/java/lang/package-summary.html) | |
| --- | --- |

| Methods in [java.lang](http://docs.google.com/java/lang/package-summary.html) with parameters of type [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| int | **Readable.**[**read**](http://docs.google.com/java/lang/Readable.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) cb)            Attempts to read characters into the specified character buffer. |

| Uses of [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in [java.nio](http://docs.google.com/java/nio/package-summary.html) | |
| --- | --- |

| Methods in [java.nio](http://docs.google.com/java/nio/package-summary.html) that return [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| static [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**allocate**](http://docs.google.com/java/nio/CharBuffer.html#allocate(int))(int capacity)            Allocates a new character buffer. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**append**](http://docs.google.com/java/nio/CharBuffer.html#append(char))(char c)            Appends the specified character to this buffer  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**append**](http://docs.google.com/java/nio/CharBuffer.html#append(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Appends the specified character sequence to this buffer  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**append**](http://docs.google.com/java/nio/CharBuffer.html#append(java.lang.CharSequence,%20int,%20int))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq, int start, int end)            Appends a subsequence of the specified character sequence to this buffer  *(optional operation)*. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **ByteBuffer.**[**asCharBuffer**](http://docs.google.com/java/nio/ByteBuffer.html#asCharBuffer())()            Creates a view of this byte buffer as a char buffer. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**asReadOnlyBuffer**](http://docs.google.com/java/nio/CharBuffer.html#asReadOnlyBuffer())()            Creates a new, read-only character buffer that shares this buffer's content. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**compact**](http://docs.google.com/java/nio/CharBuffer.html#compact())()            Compacts this buffer  *(optional operation)*. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**duplicate**](http://docs.google.com/java/nio/CharBuffer.html#duplicate())()            Creates a new character buffer that shares this buffer's content. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**get**](http://docs.google.com/java/nio/CharBuffer.html#get(char%5B%5D))(char[] dst)            Relative bulk *get* method. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**get**](http://docs.google.com/java/nio/CharBuffer.html#get(char%5B%5D,%20int,%20int))(char[] dst, int offset, int length)            Relative bulk *get* method. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(char))(char c)            Relative *put* method  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(char%5B%5D))(char[] src)            Relative bulk *put* method  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(char%5B%5D,%20int,%20int))(char[] src, int offset, int length)            Relative bulk *put* method  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) src)            Relative bulk *put* method  *(optional operation)*. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(int,%20char))(int index, char c)            Absolute *put* method  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(java.lang.String))([String](http://docs.google.com/java/lang/String.html) src)            Relative bulk *put* method  *(optional operation)*. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(java.lang.String,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) src, int start, int end)            Relative bulk *put* method  *(optional operation)*. |
| abstract  [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**slice**](http://docs.google.com/java/nio/CharBuffer.html#slice())()            Creates a new character buffer whose content is a shared subsequence of this buffer's content. |
| static [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**wrap**](http://docs.google.com/java/nio/CharBuffer.html#wrap(char%5B%5D))(char[] array)            Wraps a character array into a buffer. |
| static [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**wrap**](http://docs.google.com/java/nio/CharBuffer.html#wrap(char%5B%5D,%20int,%20int))(char[] array, int offset, int length)            Wraps a character array into a buffer. |
| static [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**wrap**](http://docs.google.com/java/nio/CharBuffer.html#wrap(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq)            Wraps a character sequence into a buffer. |
| static [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**wrap**](http://docs.google.com/java/nio/CharBuffer.html#wrap(java.lang.CharSequence,%20int,%20int))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) csq, int start, int end)            Wraps a character sequence into a buffer. |

| Methods in [java.nio](http://docs.google.com/java/nio/package-summary.html) with parameters of type [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| int | **CharBuffer.**[**compareTo**](http://docs.google.com/java/nio/CharBuffer.html#compareTo(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) that)            Compares this buffer to another. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharBuffer.**[**put**](http://docs.google.com/java/nio/CharBuffer.html#put(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) src)            Relative bulk *put* method  *(optional operation)*. |
| int | **CharBuffer.**[**read**](http://docs.google.com/java/nio/CharBuffer.html#read(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) target)            Attempts to read characters into the specified character buffer. |

| Uses of [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in [java.nio.charset](http://docs.google.com/java/nio/charset/package-summary.html) | |
| --- | --- |

| Methods in [java.nio.charset](http://docs.google.com/java/nio/charset/package-summary.html) that return [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **CharsetDecoder.**[**decode**](http://docs.google.com/java/nio/charset/CharsetDecoder.html#decode(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) in)            Convenience method that decodes the remaining content of a single input byte buffer into a newly-allocated character buffer. |
| [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | **Charset.**[**decode**](http://docs.google.com/java/nio/charset/Charset.html#decode(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) bb)            Convenience method that decodes bytes in this charset into Unicode characters. |

| Methods in [java.nio.charset](http://docs.google.com/java/nio/charset/package-summary.html) with parameters of type [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) | |
| --- | --- |
| [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetDecoder.**[**decode**](http://docs.google.com/java/nio/charset/CharsetDecoder.html#decode(java.nio.ByteBuffer,%20java.nio.CharBuffer,%20boolean))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) in, [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) out, boolean endOfInput)            Decodes as many bytes as possible from the given input buffer, writing the results to the given output buffer. |
| protected abstract  [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetDecoder.**[**decodeLoop**](http://docs.google.com/java/nio/charset/CharsetDecoder.html#decodeLoop(java.nio.ByteBuffer,%20java.nio.CharBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) in, [CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) out)            Decodes one or more bytes into one or more characters. |
| [ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) | **CharsetEncoder.**[**encode**](http://docs.google.com/java/nio/charset/CharsetEncoder.html#encode(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in)            Convenience method that encodes the remaining content of a single input character buffer into a newly-allocated byte buffer. |
| [ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) | **Charset.**[**encode**](http://docs.google.com/java/nio/charset/Charset.html#encode(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) cb)            Convenience method that encodes Unicode characters into bytes in this charset. |
| [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetEncoder.**[**encode**](http://docs.google.com/java/nio/charset/CharsetEncoder.html#encode(java.nio.CharBuffer,%20java.nio.ByteBuffer,%20boolean))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in, [ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) out, boolean endOfInput)            Encodes as many characters as possible from the given input buffer, writing the results to the given output buffer. |
| protected abstract  [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetEncoder.**[**encodeLoop**](http://docs.google.com/java/nio/charset/CharsetEncoder.html#encodeLoop(java.nio.CharBuffer,%20java.nio.ByteBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) in, [ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) out)            Encodes one or more characters into one or more bytes. |
| [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetDecoder.**[**flush**](http://docs.google.com/java/nio/charset/CharsetDecoder.html#flush(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) out)            Flushes this decoder. |
| protected  [CoderResult](http://docs.google.com/java/nio/charset/CoderResult.html) | **CharsetDecoder.**[**implFlush**](http://docs.google.com/java/nio/charset/CharsetDecoder.html#implFlush(java.nio.CharBuffer))([CharBuffer](http://docs.google.com/java/nio/CharBuffer.html) out)            Flushes this decoder. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/nio/CharBuffer.html) | **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/nio//class-useCharBuffer.html)    [**NO FRAMES**](http://docs.google.com/CharBuffer.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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