| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DataInputStream.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 CLASS**](http://docs.google.com/java/io/DataInput.html)   [**NEXT CLASS**](http://docs.google.com/java/io/DataOutput.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/DataInputStream.html)    [**NO FRAMES**](http://docs.google.com/DataInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **java.io**

Class DataInputStream

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.io.InputStream](http://docs.google.com/java/io/InputStream.html)  
 [java.io.FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html)  
 **java.io.DataInputStream**

**All Implemented Interfaces:** [Closeable](http://docs.google.com/java/io/Closeable.html), [DataInput](http://docs.google.com/java/io/DataInput.html)

public class **DataInputStream**extends [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html)implements [DataInput](http://docs.google.com/java/io/DataInput.html)

A data input stream lets an application read primitive Java data types from an underlying input stream in a machine-independent way. An application uses a data output stream to write data that can later be read by a data input stream.

DataInputStream is not necessarily safe for multithreaded access. Thread safety is optional and is the responsibility of users of methods in this class.

**Since:** JDK1.0 **See Also:**[DataOutputStream](http://docs.google.com/java/io/DataOutputStream.html)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.io.**[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html) |
| --- |
| [in](http://docs.google.com/java/io/FilterInputStream.html#in) |

| **Constructor Summary** | |
| --- | --- |
| [**DataInputStream**](http://docs.google.com/java/io/DataInputStream.html#DataInputStream(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) in)            Creates a DataInputStream that uses the specified underlying InputStream. |

| **Method Summary** | |
| --- | --- |
| int | [**read**](http://docs.google.com/java/io/DataInputStream.html#read(byte%5B%5D))(byte[] b)            Reads some number of bytes from the contained input stream and stores them into the buffer array b. |
| int | [**read**](http://docs.google.com/java/io/DataInputStream.html#read(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Reads up to len bytes of data from the contained input stream into an array of bytes. |
| boolean | [**readBoolean**](http://docs.google.com/java/io/DataInputStream.html#readBoolean())()            See the general contract of the readBoolean method of DataInput. |
| byte | [**readByte**](http://docs.google.com/java/io/DataInputStream.html#readByte())()            See the general contract of the readByte method of DataInput. |
| char | [**readChar**](http://docs.google.com/java/io/DataInputStream.html#readChar())()            See the general contract of the readChar method of DataInput. |
| double | [**readDouble**](http://docs.google.com/java/io/DataInputStream.html#readDouble())()            See the general contract of the readDouble method of DataInput. |
| float | [**readFloat**](http://docs.google.com/java/io/DataInputStream.html#readFloat())()            See the general contract of the readFloat method of DataInput. |
| void | [**readFully**](http://docs.google.com/java/io/DataInputStream.html#readFully(byte%5B%5D))(byte[] b)            See the general contract of the readFully method of DataInput. |
| void | [**readFully**](http://docs.google.com/java/io/DataInputStream.html#readFully(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            See the general contract of the readFully method of DataInput. |
| int | [**readInt**](http://docs.google.com/java/io/DataInputStream.html#readInt())()            See the general contract of the readInt method of DataInput. |
| [String](http://docs.google.com/java/lang/String.html) | [**readLine**](http://docs.google.com/java/io/DataInputStream.html#readLine())()  **Deprecated.** *This method does not properly convert bytes to characters. As of JDK 1.1, the preferred way to read lines of text is via the BufferedReader.readLine() method. Programs that use the DataInputStream class to read lines can be converted to use the BufferedReader class by replacing code of the form:*  *DataInputStream d = new DataInputStream(in);*  *with:*  *BufferedReader d  = new BufferedReader(new InputStreamReader(in));* |
| long | [**readLong**](http://docs.google.com/java/io/DataInputStream.html#readLong())()            See the general contract of the readLong method of DataInput. |
| short | [**readShort**](http://docs.google.com/java/io/DataInputStream.html#readShort())()            See the general contract of the readShort method of DataInput. |
| int | [**readUnsignedByte**](http://docs.google.com/java/io/DataInputStream.html#readUnsignedByte())()            See the general contract of the readUnsignedByte method of DataInput. |
| int | [**readUnsignedShort**](http://docs.google.com/java/io/DataInputStream.html#readUnsignedShort())()            See the general contract of the readUnsignedShort method of DataInput. |
| [String](http://docs.google.com/java/lang/String.html) | [**readUTF**](http://docs.google.com/java/io/DataInputStream.html#readUTF())()            See the general contract of the readUTF method of DataInput. |
| static [String](http://docs.google.com/java/lang/String.html) | [**readUTF**](http://docs.google.com/java/io/DataInputStream.html#readUTF(java.io.DataInput))([DataInput](http://docs.google.com/java/io/DataInput.html) in)            Reads from the stream in a representation of a Unicode character string encoded in [modified UTF-8](http://docs.google.com/DataInput.html#modified-utf-8) format; this string of characters is then returned as a String. |
| int | [**skipBytes**](http://docs.google.com/java/io/DataInputStream.html#skipBytes(int))(int n)            See the general contract of the skipBytes method of DataInput. |

| **Methods inherited from class java.io.**[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html) |
| --- |
| [available](http://docs.google.com/java/io/FilterInputStream.html#available()), [close](http://docs.google.com/java/io/FilterInputStream.html#close()), [mark](http://docs.google.com/java/io/FilterInputStream.html#mark(int)), [markSupported](http://docs.google.com/java/io/FilterInputStream.html#markSupported()), [read](http://docs.google.com/java/io/FilterInputStream.html#read()), [reset](http://docs.google.com/java/io/FilterInputStream.html#reset()), [skip](http://docs.google.com/java/io/FilterInputStream.html#skip(long)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### DataInputStream

public **DataInputStream**([InputStream](http://docs.google.com/java/io/InputStream.html) in)

Creates a DataInputStream that uses the specified underlying InputStream.

**Parameters:**in - the specified input stream

| **Method Detail** |
| --- |

### read

public final int **read**(byte[] b)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads some number of bytes from the contained input stream and stores them into the buffer array b. The number of bytes actually read is returned as an integer. This method blocks until input data is available, end of file is detected, or an exception is thrown.

If b is null, a NullPointerException is thrown. If the length of b is zero, then no bytes are read and 0 is returned; otherwise, there is an attempt to read at least one byte. If no byte is available because the stream is at end of file, the value -1 is returned; otherwise, at least one byte is read and stored into b.

The first byte read is stored into element b[0], the next one into b[1], and so on. The number of bytes read is, at most, equal to the length of b. Let k be the number of bytes actually read; these bytes will be stored in elements b[0] through b[k-1], leaving elements b[k] through b[b.length-1] unaffected.

The read(b) method has the same effect as:

read(b, 0, b.length)

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - the buffer into which the data is read. **Returns:**the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the first byte cannot be read for any reason other than end of file, the stream has been closed and the underlying input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [InputStream.read(byte[], int, int)](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D,%20int,%20int))

### read

public final int **read**(byte[] b,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads up to len bytes of data from the contained input stream into an array of bytes. An attempt is made to read as many as len bytes, but a smaller number may be read, possibly zero. The number of bytes actually read is returned as an integer.

This method blocks until input data is available, end of file is detected, or an exception is thrown.

If len is zero, then no bytes are read and 0 is returned; otherwise, there is an attempt to read at least one byte. If no byte is available because the stream is at end of file, the value -1 is returned; otherwise, at least one byte is read and stored into b.

The first byte read is stored into element b[off], the next one into b[off+1], and so on. The number of bytes read is, at most, equal to len. Let *k* be the number of bytes actually read; these bytes will be stored in elements b[off] through b[off+*k*-1], leaving elements b[off+*k*] through b[off+len-1] unaffected.

In every case, elements b[0] through b[off] and elements b[off+len] through b[b.length-1] are unaffected.

**Overrides:**[read](http://docs.google.com/java/io/FilterInputStream.html#read(byte%5B%5D,%20int,%20int)) in class [FilterInputStream](http://docs.google.com/java/io/FilterInputStream.html) **Parameters:**b - the buffer into which the data is read.off - the start offset in the destination array blen - the maximum number of bytes read. **Returns:**the total number of bytes read into the buffer, or -1 if there is no more data because the end of the stream has been reached. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - If b is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - If off is negative, len is negative, or len is greater than b.length - off [IOException](http://docs.google.com/java/io/IOException.html) - if the first byte cannot be read for any reason other than end of file, the stream has been closed and the underlying input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in), [InputStream.read(byte[], int, int)](http://docs.google.com/java/io/InputStream.html#read(byte%5B%5D,%20int,%20int))

### readFully

public final void **readFully**(byte[] b)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readFully method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readFully](http://docs.google.com/java/io/DataInput.html#readFully(byte%5B%5D)) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Parameters:**b - the buffer into which the data is read. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading all the bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readFully

public final void **readFully**(byte[] b,  
 int off,  
 int len)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readFully method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readFully](http://docs.google.com/java/io/DataInput.html#readFully(byte%5B%5D,%20int,%20int)) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Parameters:**b - the buffer into which the data is read.off - the start offset of the data.len - the number of bytes to read. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading all the bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### skipBytes

public final int **skipBytes**(int n)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the skipBytes method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[skipBytes](http://docs.google.com/java/io/DataInput.html#skipBytes(int)) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Parameters:**n - the number of bytes to be skipped. **Returns:**the actual number of bytes skipped. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the contained input stream does not support seek, or the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.

### readBoolean

public final boolean **readBoolean**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readBoolean method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readBoolean](http://docs.google.com/java/io/DataInput.html#readBoolean()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the boolean value read. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream has reached the end. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readByte

public final byte **readByte**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readByte method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readByte](http://docs.google.com/java/io/DataInput.html#readByte()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next byte of this input stream as a signed 8-bit byte. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream has reached the end. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readUnsignedByte

public final int **readUnsignedByte**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readUnsignedByte method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readUnsignedByte](http://docs.google.com/java/io/DataInput.html#readUnsignedByte()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next byte of this input stream, interpreted as an unsigned 8-bit number. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream has reached the end. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readShort

public final short **readShort**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readShort method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readShort](http://docs.google.com/java/io/DataInput.html#readShort()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next two bytes of this input stream, interpreted as a signed 16-bit number. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading two bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readUnsignedShort

public final int **readUnsignedShort**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readUnsignedShort method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readUnsignedShort](http://docs.google.com/java/io/DataInput.html#readUnsignedShort()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next two bytes of this input stream, interpreted as an unsigned 16-bit integer. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading two bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readChar

public final char **readChar**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readChar method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readChar](http://docs.google.com/java/io/DataInput.html#readChar()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next two bytes of this input stream, interpreted as a char. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading two bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readInt

public final int **readInt**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readInt method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readInt](http://docs.google.com/java/io/DataInput.html#readInt()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next four bytes of this input stream, interpreted as an int. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading four bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readLong

public final long **readLong**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readLong method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readLong](http://docs.google.com/java/io/DataInput.html#readLong()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next eight bytes of this input stream, interpreted as a long. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading eight bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readFloat

public final float **readFloat**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readFloat method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readFloat](http://docs.google.com/java/io/DataInput.html#readFloat()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next four bytes of this input stream, interpreted as a float. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading four bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[readInt()](http://docs.google.com/java/io/DataInputStream.html#readInt()), [Float.intBitsToFloat(int)](http://docs.google.com/java/lang/Float.html#intBitsToFloat(int))

### readDouble

public final double **readDouble**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readDouble method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readDouble](http://docs.google.com/java/io/DataInput.html#readDouble()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next eight bytes of this input stream, interpreted as a double. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading eight bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs.**See Also:**[readLong()](http://docs.google.com/java/io/DataInputStream.html#readLong()), [Double.longBitsToDouble(long)](http://docs.google.com/java/lang/Double.html#longBitsToDouble(long))

### readLine

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public final [String](http://docs.google.com/java/lang/String.html) **readLine**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Deprecated.** *This method does not properly convert bytes to characters. As of JDK 1.1, the preferred way to read lines of text is via the BufferedReader.readLine() method. Programs that use the DataInputStream class to read lines can be converted to use the BufferedReader class by replacing code of the form:*

*DataInputStream d = new DataInputStream(in);*

*with:*

*BufferedReader d  
 = new BufferedReader(new InputStreamReader(in));*

See the general contract of the readLine method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readLine](http://docs.google.com/java/io/DataInput.html#readLine()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**the next line of text from this input stream. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs.**See Also:**[BufferedReader.readLine()](http://docs.google.com/java/io/BufferedReader.html#readLine()), [FilterInputStream.in](http://docs.google.com/java/io/FilterInputStream.html#in)

### readUTF

public final [String](http://docs.google.com/java/lang/String.html) **readUTF**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

See the general contract of the readUTF method of DataInput.

Bytes for this operation are read from the contained input stream.

**Specified by:**[readUTF](http://docs.google.com/java/io/DataInput.html#readUTF()) in interface [DataInput](http://docs.google.com/java/io/DataInput.html) **Returns:**a Unicode string. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if this input stream reaches the end before reading all the bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs. [UTFDataFormatException](http://docs.google.com/java/io/UTFDataFormatException.html) - if the bytes do not represent a valid modified UTF-8 encoding of a string.**See Also:**[readUTF(java.io.DataInput)](http://docs.google.com/java/io/DataInputStream.html#readUTF(java.io.DataInput))

### readUTF

public static final [String](http://docs.google.com/java/lang/String.html) **readUTF**([DataInput](http://docs.google.com/java/io/DataInput.html) in)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Reads from the stream in a representation of a Unicode character string encoded in [modified UTF-8](http://docs.google.com/DataInput.html#modified-utf-8) format; this string of characters is then returned as a String. The details of the modified UTF-8 representation are exactly the same as for the readUTF method of DataInput.

**Parameters:**in - a data input stream. **Returns:**a Unicode string. **Throws:** [EOFException](http://docs.google.com/java/io/EOFException.html) - if the input stream reaches the end before all the bytes. [IOException](http://docs.google.com/java/io/IOException.html) - the stream has been closed and the contained input stream does not support reading after close, or another I/O error occurs. [UTFDataFormatException](http://docs.google.com/java/io/UTFDataFormatException.html) - if the bytes do not represent a valid modified UTF-8 encoding of a Unicode string.**See Also:**[readUnsignedShort()](http://docs.google.com/java/io/DataInputStream.html#readUnsignedShort())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DataInputStream.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 CLASS**](http://docs.google.com/java/io/DataInput.html)   [**NEXT CLASS**](http://docs.google.com/java/io/DataOutput.html) | [**FRAMES**](http://docs.google.com/index.html?java/io/DataInputStream.html)    [**NO FRAMES**](http://docs.google.com/DataInputStream.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

[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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