

JAVA.IO.DATAINPUTSTREAM CLASS

http://www.tutorialspoint.com/java/io/java_io_datainputstream.htm

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Introduction

The **Java.io.DataInputStream** class lets an application read primitive Java data types from an underlying input stream in a machine-independent way. Following are the important points about DataInputStream:

- 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.

Class declaration

Following is the declaration for **Java.io.DataInputStream** class:

```
public class DataInputStream
    extends FilterInputStream
    implements DataInput
```

Field

Following are the fields for **Java.io.DataInputStream** class:

- **protected InputStream in** -- This is the input stream to be filtered.

Class constructors

S.N. Constructor & Description

- | | |
|---|--|
| 1 | DataInputStream(InputStream in)
This creates a DataInputStream that uses the specified underlying InputStream. |
|---|--|

Class methods

S.N. Method & Description

- | | |
|---|--|
| 1 | <u>int readByte()</u>
This method reads some number of bytes from the contained input stream and stores them into the buffer array <i>b</i> |
| 2 | <u>int readBytes(byte[] b, int off, int len)</u>
This method reads up to <i>len</i> bytes of data from the contained input stream into an array of bytes. |
| 3 | <u>boolean readBoolean()</u> |

This method reads one input byte and returns true if that byte is nonzero, false if that byte is zero.

4

[byte readByte](#)

This method reads and returns one input byte.

5

[char readChar](#)

This method reads two input bytes and returns a char value.

6

[double readDouble](#)

This method reads eight input bytes and returns a double value.

7

[float readFloat](#)

This method reads four input bytes and returns a float value.

8

[void readFullybyte\[\]b](#)

This method reads some bytes from an input stream and stores them into the buffer array *b*.

9

[void readFullybyte\[\]b, intoff, intlen](#)

This method reads *len* bytes from an input stream.

10

[int readInt](#)

This method reads four input bytes and returns an int value.

11

[long readLong](#)

This method reads eight input bytes and returns a long value.

12

[short readShort](#)

This method reads two input bytes and returns a short value.

13

[int readUnsignedByte](#)

This method reads one input byte, zero-extends it to type int, and returns the result, which is therefore in the range 0 through 255.

14

[int readUnsignedShort](#)

This method reads two input bytes and returns an int value in the range 0 through 65535.

15

[String readUTF](#)

This method reads in a string that has been encoded using a modified UTF-8 format.

16

[static String readUTFDataInputin](#)

This method reads from the stream in a representation of a Unicode character string encoded in modified UTF-8 format; this string of characters is then returned as a String.

17

[int skipBytesintn](#)

This method makes an attempt to skip over n bytes of data from the input stream, discarding the skipped bytes.

Methods inherited

This class inherits methods from the following classes:

- [Java.io.FilterInputStream](#)
- [Java.io.Object](#)

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