

Class `java.io.DataInputStream`

```
java.lang.Object
|
+----java.io.InputStream
|
+----java.io.FilterInputStream
|
+----java.io.DataInputStream
```

public class **DataInputStream**
extends [FilterInputStream](#)
implements [DataInput](#)

A data input stream that lets you read primitive Java data types from a stream in a portable way. Primitive data types are well understood types with associated operations. For example, Integers are considered primitive data types.

See Also:

[DataOutputStream](#)

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Author:

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Reads an unsigned 8 bit byte.
- o **readUnsignedShort()**
Reads 16 bit short.
- o **skipBytes(int)**
Skips bytes, block until all bytes are skipped.

Constructors

o **DataInputStream**

```
public DataInputStream(InputStream in)
```

Creates a new DataInputStream.

Parameters:

in – the input stream

Methods

o **read**

```
public final int read(byte b[]) throws IOException
```

Reads data into an array of bytes. This method blocks until some input is

available.

Parameters:

b – the buffer into which the data is read

Returns:

the actual number of bytes read, -1 is returned when the end of the stream is reached.

Throws: IOException

If an I/O error has occurred.

Overrides:

read in class FilterInputStream

o read

```
public final int read(byte b[],  
                     int off,  
                     int len) throws IOException
```

Reads data into an array of bytes. This method blocks until some input is available.

Parameters:

b – the buffer into which the data is read

off – the start offset of the data

len – the maximum number of bytes read

Returns:

the actual number of bytes read, -1 is returned when the end of the stream is reached.

Throws: IOException

If an I/O error has occurred.

Overrides:

read in class FilterInputStream

o readFully

```
public final void readFully(byte b[]) throws IOException
```

Reads bytes, blocking until all bytes are read.

Parameters:

b – the buffer into which the data is read

Throws: IOException

If an I/O error has occurred.

Throws: EOFException

If EOF reached before all bytes are read.

o readFully

```
public final void readFully(byte b[],  
                          int off,  
                          int len) throws IOException
```

Reads bytes, blocking until all bytes are read.

Parameters:

b – the buffer into which the data is read
off – the start offset of the data
len – the maximum number of bytes read

Throws: IOException

If an I/O error has occurred.

Throws: EOFException

If EOF reached before all bytes are read.

o skipBytes

```
public final int skipBytes(int n) throws IOException
```

Skips bytes, block until all bytes are skipped.

Parameters:

n – the number of bytes to be skipped

Returns:

the actual number of bytes skipped.

Throws: IOException

If an I/O error has occurred.

o readBoolean

```
public final boolean readBoolean() throws IOException
```

Reads in a boolean.

Returns:

the boolean read.

o readByte

```
public final byte readByte() throws IOException
```

Reads an 8 bit byte.

Returns:

the 8 bit byte read.

o readUnsignedByte

```
public final int readUnsignedByte() throws IOException
```

Reads an unsigned 8 bit byte.

Returns:

the 8 bit byte read.

o readShort

```
public final short readShort() throws IOException
```

Reads 16 bit short.

Returns:
the read 16 bit short.

o readUnsignedShort

```
public final int readUnsignedShort() throws IOException
```

Reads 16 bit short.

Returns:
the read 16 bit short.

o readChar

```
public final char readChar() throws IOException
```

Reads a 16 bit char.

Returns:
the read 16 bit char.

o readInt

```
public final int readInt() throws IOException
```

Reads a 32 bit int.

Returns:
the read 32 bit integer.

o readLong

```
public final long readLong() throws IOException
```

Reads a 64 bit long.

Returns:
the read 64 bit long.

o readFloat

```
public final float readFloat() throws IOException
```

Reads a 32 bit float.

Returns:
the read 32 bit float.

o readDouble

```
public final double readDouble() throws IOException
```

Reads a 64 bit double.

Returns:

the read 64 bit double.

o readLine

```
public final String readLine() throws IOException
```

Reads in a line that has been terminated by a \n, \r, \r\n or EOF.

Returns:

a String copy of the line.

o readUTF

```
public final String readUTF() throws IOException
```

Reads a UTF format String.

Returns:

the String.

o readUTF

```
public final static String readUTF(DataInput in) throws IOException
```

Reads a UTF format String from the given input stream.

Returns:

the String.

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