| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Number.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/lang/NullPointerException.html)   [**NEXT CLASS**](http://docs.google.com/java/lang/NumberFormatException.html) | [**FRAMES**](http://docs.google.com/index.html?java/lang/Number.html)    [**NO FRAMES**](http://docs.google.com/Number.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.lang**

Class Number

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.lang.Number**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Direct Known Subclasses:** [AtomicInteger](http://docs.google.com/java/util/concurrent/atomic/AtomicInteger.html), [AtomicLong](http://docs.google.com/java/util/concurrent/atomic/AtomicLong.html), [BigDecimal](http://docs.google.com/java/math/BigDecimal.html), [BigInteger](http://docs.google.com/java/math/BigInteger.html), [Byte](http://docs.google.com/java/lang/Byte.html), [Double](http://docs.google.com/java/lang/Double.html), [Float](http://docs.google.com/java/lang/Float.html), [Integer](http://docs.google.com/java/lang/Integer.html), [Long](http://docs.google.com/java/lang/Long.html), [Short](http://docs.google.com/java/lang/Short.html)

public abstract class **Number**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

The abstract class Number is the superclass of classes BigDecimal, BigInteger, Byte, Double, Float, Integer, Long, and Short.

Subclasses of Number must provide methods to convert the represented numeric value to byte, double, float, int, long, and short.

**Since:** JDK1.0 **See Also:**[Byte](http://docs.google.com/java/lang/Byte.html), [Double](http://docs.google.com/java/lang/Double.html), [Float](http://docs.google.com/java/lang/Float.html), [Integer](http://docs.google.com/java/lang/Integer.html), [Long](http://docs.google.com/java/lang/Long.html), [Short](http://docs.google.com/java/lang/Short.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.lang.Number)

| **Constructor Summary** | |
| --- | --- |
| [**Number**](http://docs.google.com/java/lang/Number.html#Number())() |

| **Method Summary** | |
| --- | --- |
| byte | [**byteValue**](http://docs.google.com/java/lang/Number.html#byteValue())()            Returns the value of the specified number as a byte. |
| abstract  double | [**doubleValue**](http://docs.google.com/java/lang/Number.html#doubleValue())()            Returns the value of the specified number as a double. |
| abstract  float | [**floatValue**](http://docs.google.com/java/lang/Number.html#floatValue())()            Returns the value of the specified number as a float. |
| abstract  int | [**intValue**](http://docs.google.com/java/lang/Number.html#intValue())()            Returns the value of the specified number as an int. |
| abstract  long | [**longValue**](http://docs.google.com/java/lang/Number.html#longValue())()            Returns the value of the specified number as a long. |
| short | [**shortValue**](http://docs.google.com/java/lang/Number.html#shortValue())()            Returns the value of the specified number as a short. |

| **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** |
| --- |

### Number

public **Number**()

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

### intValue

public abstract int **intValue**()

Returns the value of the specified number as an int. This may involve rounding or truncation.

**Returns:**the numeric value represented by this object after conversion to type int.

### longValue

public abstract long **longValue**()

Returns the value of the specified number as a long. This may involve rounding or truncation.

**Returns:**the numeric value represented by this object after conversion to type long.

### floatValue

public abstract float **floatValue**()

Returns the value of the specified number as a float. This may involve rounding.

**Returns:**the numeric value represented by this object after conversion to type float.

### doubleValue

public abstract double **doubleValue**()

Returns the value of the specified number as a double. This may involve rounding.

**Returns:**the numeric value represented by this object after conversion to type double.

### byteValue

public byte **byteValue**()

Returns the value of the specified number as a byte. This may involve rounding or truncation.

**Returns:**the numeric value represented by this object after conversion to type byte.**Since:** JDK1.1

### shortValue

public short **shortValue**()

Returns the value of the specified number as a short. This may involve rounding or truncation.

**Returns:**the numeric value represented by this object after conversion to type short.**Since:** JDK1.1

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Number.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*** |
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[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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