| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Any.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/org/omg/CORBA/ACTIVITY_REQUIRED.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/AnyHolder.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/Any.html)    [**NO FRAMES**](http://docs.google.com/Any.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **org.omg.CORBA**

Class Any

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **org.omg.CORBA.Any**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [IDLEntity](http://docs.google.com/org/omg/CORBA/portable/IDLEntity.html)

public abstract class **Any**extends [Object](http://docs.google.com/java/lang/Object.html)implements [IDLEntity](http://docs.google.com/org/omg/CORBA/portable/IDLEntity.html)

Serves as a container for any data that can be described in IDL or for any IDL primitive type. An Any object is used as a component of a NamedValue object, which provides information about arguments or return values in requests, and which is used to define name/value pairs in Context objects.

An Any object consists of two parts:

1. a data value
2. a TypeCode object describing the type of the data value contained in the Any object. For example, a TypeCode object for an array contains a field for the length of the array and a field for the type of elements in the array. (Note that in this case, the second field of the TypeCode object is itself a TypeCode object.)

A large part of the Any class consists of pairs of methods for inserting values into and extracting values from an Any object.

For a given primitive type X, these methods are:

void insert\_X(X x) This method allows the insertion of an instance x of primitive type X into the value field of the Any object. Note that the method insert\_X also resets the Any object's type field if necessary. X extract\_X() This method allows the extraction of an instance of type X from the Any object.

This method throws the exception BAD\_OPERATION under two conditions:

1. the type of the element contained in the Any object is not X
2. the method extract\_X is called before the value field of the Any object has been set

There are distinct method pairs for each primitive IDL data type (insert\_long and extract\_long, insert\_string and extract\_string, and so on).

The class Any also has methods for getting and setting the type code, for testing two Any objects for equality, and for reading an Any object from a stream or writing it to a stream.

**Since:** JDK1.2

| **Constructor Summary** | |
| --- | --- |
| [**Any**](http://docs.google.com/org/omg/CORBA/Any.html#Any())() |

| **Method Summary** | |
| --- | --- |
| abstract  [InputStream](http://docs.google.com/org/omg/CORBA/portable/InputStream.html) | [**create\_input\_stream**](http://docs.google.com/org/omg/CORBA/Any.html#create_input_stream())()            Creates an input stream from which this Any object's value can be unmarshalled. |
| abstract  [OutputStream](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html) | [**create\_output\_stream**](http://docs.google.com/org/omg/CORBA/Any.html#create_output_stream())()            Creates an output stream into which this Any object's value can be marshalled. |
| abstract  boolean | [**equal**](http://docs.google.com/org/omg/CORBA/Any.html#equal(org.omg.CORBA.Any))([Any](http://docs.google.com/org/omg/CORBA/Any.html) a)            Checks for equality between this Any object and the given Any object. |
| abstract  [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**extract\_any**](http://docs.google.com/org/omg/CORBA/Any.html#extract_any())()            Extracts the Any object in this Any object's value field. |
| abstract  boolean | [**extract\_boolean**](http://docs.google.com/org/omg/CORBA/Any.html#extract_boolean())()            Extracts the boolean in this Any object's value field. |
| abstract  char | [**extract\_char**](http://docs.google.com/org/omg/CORBA/Any.html#extract_char())()            Extracts the char in this Any object's value field. |
| abstract  double | [**extract\_double**](http://docs.google.com/org/omg/CORBA/Any.html#extract_double())()            Extracts the double in this Any object's value field. |
| [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) | [**extract\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#extract_fixed())()            Extracts the java.math.BigDecimal object in this Any object's value field. |
| abstract  float | [**extract\_float**](http://docs.google.com/org/omg/CORBA/Any.html#extract_float())()            Extracts the float in this Any object's value field. |
| abstract  int | [**extract\_long**](http://docs.google.com/org/omg/CORBA/Any.html#extract_long())()            Extracts the int in this Any object's value field. |
| abstract  long | [**extract\_longlong**](http://docs.google.com/org/omg/CORBA/Any.html#extract_longlong())()            Extracts the long in this Any object's value field. |
| abstract  [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**extract\_Object**](http://docs.google.com/org/omg/CORBA/Any.html#extract_Object())()            Extracts the org.omg.CORBA.Object in this Any object's value field. |
| abstract  byte | [**extract\_octet**](http://docs.google.com/org/omg/CORBA/Any.html#extract_octet())()            Extracts the byte in this Any object's value field. |
| [Principal](http://docs.google.com/org/omg/CORBA/Principal.html) | [**extract\_Principal**](http://docs.google.com/org/omg/CORBA/Any.html#extract_Principal())()  **Deprecated.** *Deprecated by CORBA 2.2.* |
| abstract  short | [**extract\_short**](http://docs.google.com/org/omg/CORBA/Any.html#extract_short())()            Extracts the short in this Any object's value field. |
| [Streamable](http://docs.google.com/org/omg/CORBA/portable/Streamable.html) | [**extract\_Streamable**](http://docs.google.com/org/omg/CORBA/Any.html#extract_Streamable())()            Extracts a Streamable from this Any object's value field. |
| abstract  [String](http://docs.google.com/java/lang/String.html) | [**extract\_string**](http://docs.google.com/org/omg/CORBA/Any.html#extract_string())()            Extracts the String object in this Any object's value field. |
| abstract  [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) | [**extract\_TypeCode**](http://docs.google.com/org/omg/CORBA/Any.html#extract_TypeCode())()            Extracts the TypeCode object in this Any object's value field. |
| abstract  int | [**extract\_ulong**](http://docs.google.com/org/omg/CORBA/Any.html#extract_ulong())()            Extracts the int in this Any object's value field. |
| abstract  long | [**extract\_ulonglong**](http://docs.google.com/org/omg/CORBA/Any.html#extract_ulonglong())()            Extracts the long in this Any object's value field. |
| abstract  short | [**extract\_ushort**](http://docs.google.com/org/omg/CORBA/Any.html#extract_ushort())()            Extracts the short in this Any object's value field. |
| abstract  [Serializable](http://docs.google.com/java/io/Serializable.html) | [**extract\_Value**](http://docs.google.com/org/omg/CORBA/Any.html#extract_Value())()            Extracts the java.io.Serializable object in this Any object's value field. |
| abstract  char | [**extract\_wchar**](http://docs.google.com/org/omg/CORBA/Any.html#extract_wchar())()            Extracts the char in this Any object's value field. |
| abstract  [String](http://docs.google.com/java/lang/String.html) | [**extract\_wstring**](http://docs.google.com/org/omg/CORBA/Any.html#extract_wstring())()            Extracts the String object in this Any object's value field. |
| abstract  void | [**insert\_any**](http://docs.google.com/org/omg/CORBA/Any.html#insert_any(org.omg.CORBA.Any))([Any](http://docs.google.com/org/omg/CORBA/Any.html) a)            Inserts the given Any object into this Any object's value field. |
| abstract  void | [**insert\_boolean**](http://docs.google.com/org/omg/CORBA/Any.html#insert_boolean(boolean))(boolean b)            Inserts the given boolean into this Any object's value field. |
| abstract  void | [**insert\_char**](http://docs.google.com/org/omg/CORBA/Any.html#insert_char(char))(char c)            Inserts the given char into this Any object's value field. |
| abstract  void | [**insert\_double**](http://docs.google.com/org/omg/CORBA/Any.html#insert_double(double))(double d)            Inserts the given double into this Any object's value field. |
| void | [**insert\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#insert_fixed(java.math.BigDecimal))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value)            Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/package-summary.html#NO_IMPLEMENT) exception. |
| void | [**insert\_fixed**](http://docs.google.com/org/omg/CORBA/Any.html#insert_fixed(java.math.BigDecimal,%20org.omg.CORBA.TypeCode))([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) type)            Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/package-summary.html#NO_IMPLEMENT) exception. |
| abstract  void | [**insert\_float**](http://docs.google.com/org/omg/CORBA/Any.html#insert_float(float))(float f)            Inserts the given float into this Any object's value field. |
| abstract  void | [**insert\_long**](http://docs.google.com/org/omg/CORBA/Any.html#insert_long(int))(int l)            Inserts the given int into this Any object's value field. |
| abstract  void | [**insert\_longlong**](http://docs.google.com/org/omg/CORBA/Any.html#insert_longlong(long))(long l)            Inserts the given long into this Any object's value field. |
| abstract  void | [**insert\_Object**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Object(org.omg.CORBA.Object))([Object](http://docs.google.com/org/omg/CORBA/Object.html) o)            Inserts the given org.omg.CORBA.Object object into this Any object's value field. |
| abstract  void | [**insert\_Object**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Object(org.omg.CORBA.Object,%20org.omg.CORBA.TypeCode))([Object](http://docs.google.com/org/omg/CORBA/Object.html) o, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)            Inserts the given org.omg.CORBA.Object object into this Any object's value field. |
| abstract  void | [**insert\_octet**](http://docs.google.com/org/omg/CORBA/Any.html#insert_octet(byte))(byte b)            Inserts the given byte into this Any object's value field. |
| void | [**insert\_Principal**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Principal(org.omg.CORBA.Principal))([Principal](http://docs.google.com/org/omg/CORBA/Principal.html) p)  **Deprecated.** *Deprecated by CORBA 2.2.* |
| abstract  void | [**insert\_short**](http://docs.google.com/org/omg/CORBA/Any.html#insert_short(short))(short s)            Inserts the given short into this Any object's value field. |
| void | [**insert\_Streamable**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Streamable(org.omg.CORBA.portable.Streamable))([Streamable](http://docs.google.com/org/omg/CORBA/portable/Streamable.html) s)            Inserts the given Streamable object into this Any object's value field. |
| abstract  void | [**insert\_string**](http://docs.google.com/org/omg/CORBA/Any.html#insert_string(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Inserts the given String object into this Any object's value field. |
| abstract  void | [**insert\_TypeCode**](http://docs.google.com/org/omg/CORBA/Any.html#insert_TypeCode(org.omg.CORBA.TypeCode))([TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)            Inserts the given TypeCode object into this Any object's value field. |
| abstract  void | [**insert\_ulong**](http://docs.google.com/org/omg/CORBA/Any.html#insert_ulong(int))(int l)            Inserts the given int into this Any object's value field. |
| abstract  void | [**insert\_ulonglong**](http://docs.google.com/org/omg/CORBA/Any.html#insert_ulonglong(long))(long l)            Inserts the given long into this Any object's value field. |
| abstract  void | [**insert\_ushort**](http://docs.google.com/org/omg/CORBA/Any.html#insert_ushort(short))(short s)            Inserts the given short into this Any object's value field. |
| abstract  void | [**insert\_Value**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Value(java.io.Serializable))([Serializable](http://docs.google.com/java/io/Serializable.html) v)            Inserts the given java.io.Serializable object into this Any object's value field. |
| abstract  void | [**insert\_Value**](http://docs.google.com/org/omg/CORBA/Any.html#insert_Value(java.io.Serializable,%20org.omg.CORBA.TypeCode))([Serializable](http://docs.google.com/java/io/Serializable.html) v, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)            Inserts the given java.io.Serializable object into this Any object's value field. |
| abstract  void | [**insert\_wchar**](http://docs.google.com/org/omg/CORBA/Any.html#insert_wchar(char))(char c)            Inserts the given char into this Any object's value field. |
| abstract  void | [**insert\_wstring**](http://docs.google.com/org/omg/CORBA/Any.html#insert_wstring(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Inserts the given String object into this Any object's value field. |
| abstract  void | [**read\_value**](http://docs.google.com/org/omg/CORBA/Any.html#read_value(org.omg.CORBA.portable.InputStream,%20org.omg.CORBA.TypeCode))([InputStream](http://docs.google.com/org/omg/CORBA/portable/InputStream.html) is, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)            Reads off (unmarshals) the value of an Any object from the given input stream using the given typecode. |
| abstract  [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) | [**type**](http://docs.google.com/org/omg/CORBA/Any.html#type())()            Returns type information for the element contained in this Any object. |
| abstract  void | [**type**](http://docs.google.com/org/omg/CORBA/Any.html#type(org.omg.CORBA.TypeCode))([TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)            Sets this Any object's type field to the given TypeCode object and clears its value. |
| abstract  void | [**write\_value**](http://docs.google.com/org/omg/CORBA/Any.html#write_value(org.omg.CORBA.portable.OutputStream))([OutputStream](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html) os)            Writes out the value of this Any object to the given output stream. |

| **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** |
| --- |

### Any

public **Any**()

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

### equal

public abstract boolean **equal**([Any](http://docs.google.com/org/omg/CORBA/Any.html) a)

Checks for equality between this Any object and the given Any object. Two Any objects are equal if both their values and type codes are equal.

**Parameters:**a - the Any object to test for equality **Returns:**true if the Any objects are equal; false otherwise**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### type

public abstract [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) **type**()

Returns type information for the element contained in this Any object.

**Returns:**the TypeCode object containing type information about the value contained in this Any object

### type

public abstract void **type**([TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)

Sets this Any object's type field to the given TypeCode object and clears its value.

Note that using this method to set the type code wipes out the value if there is one. The method is provided primarily so that the type may be set properly for IDL out parameters. Generally, setting the type is done by the insert\_X methods, which will set the type to X if it is not already set to X.

**Parameters:**t - the TypeCode object giving information for the value in this Any object

### read\_value

public abstract void **read\_value**([InputStream](http://docs.google.com/org/omg/CORBA/portable/InputStream.html) is,  
 [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)  
 throws [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html)

Reads off (unmarshals) the value of an Any object from the given input stream using the given typecode.

**Parameters:**is - the org.omg.CORBA.portable.InputStream object from which to read the value contained in this Any objectt - a TypeCode object containing type information about the value to be read **Throws:** [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html) - when the given TypeCode object is not consistent with the value that was contained in the input stream

### write\_value

public abstract void **write\_value**([OutputStream](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html) os)

Writes out the value of this Any object to the given output stream. If both typecode and value need to be written, use create\_output\_stream() to create an OutputStream, then use write\_any on the OutputStream.

If this method is called on an Any object that has not had a value inserted into its value field, it will throw the exception java.lang.NullPointerException.

**Parameters:**os - the org.omg.CORBA.portable.OutputStream object into which to marshal the value of this Any object

### create\_output\_stream

public abstract [OutputStream](http://docs.google.com/org/omg/CORBA/portable/OutputStream.html) **create\_output\_stream**()

Creates an output stream into which this Any object's value can be marshalled.

**Returns:**the newly-created OutputStream

### create\_input\_stream

public abstract [InputStream](http://docs.google.com/org/omg/CORBA/portable/InputStream.html) **create\_input\_stream**()

Creates an input stream from which this Any object's value can be unmarshalled.

**Returns:**the newly-created InputStream

### extract\_short

public abstract short **extract\_short**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the short in this Any object's value field.

**Returns:**the short stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a short or the value field has not yet been set

### insert\_short

public abstract void **insert\_short**(short s)

Inserts the given short into this Any object's value field.

**Parameters:**s - the short to insert into this Any object

### extract\_long

public abstract int **extract\_long**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the int in this Any object's value field.

**Returns:**the int stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than an int or the value field has not yet been set

### insert\_long

public abstract void **insert\_long**(int l)

Inserts the given int into this Any object's value field.

**Parameters:**l - the int to insert into this Any object

### extract\_longlong

public abstract long **extract\_longlong**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the long in this Any object's value field.

**Returns:**the long stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a long or the value field has not yet been set

### insert\_longlong

public abstract void **insert\_longlong**(long l)

Inserts the given long into this Any object's value field.

**Parameters:**l - the long to insert into this Any object

### extract\_ushort

public abstract short **extract\_ushort**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the short in this Any object's value field.

**Returns:**the short stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a short or the value field has not yet been set

### insert\_ushort

public abstract void **insert\_ushort**(short s)

Inserts the given short into this Any object's value field.

**Parameters:**s - the short to insert into this Any object

### extract\_ulong

public abstract int **extract\_ulong**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the int in this Any object's value field.

**Returns:**the int stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than an int or the value field has not yet been set

### insert\_ulong

public abstract void **insert\_ulong**(int l)

Inserts the given int into this Any object's value field.

**Parameters:**l - the int to insert into this Any object

### extract\_ulonglong

public abstract long **extract\_ulonglong**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the long in this Any object's value field.

**Returns:**the long stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a long or the value field has not yet been set

### insert\_ulonglong

public abstract void **insert\_ulonglong**(long l)

Inserts the given long into this Any object's value field.

**Parameters:**l - the long to insert into this Any object

### extract\_float

public abstract float **extract\_float**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the float in this Any object's value field.

**Returns:**the float stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a float or the value field has not yet been set

### insert\_float

public abstract void **insert\_float**(float f)

Inserts the given float into this Any object's value field.

**Parameters:**f - the float to insert into this Any object

### extract\_double

public abstract double **extract\_double**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the double in this Any object's value field.

**Returns:**the double stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a double or the value field has not yet been set

### insert\_double

public abstract void **insert\_double**(double d)

Inserts the given double into this Any object's value field.

**Parameters:**d - the double to insert into this Any object

### extract\_boolean

public abstract boolean **extract\_boolean**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the boolean in this Any object's value field.

**Returns:**the boolean stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a boolean or the value field has not yet been set

### insert\_boolean

public abstract void **insert\_boolean**(boolean b)

Inserts the given boolean into this Any object's value field.

**Parameters:**b - the boolean to insert into this Any object

### extract\_char

public abstract char **extract\_char**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the char in this Any object's value field.

**Returns:**the char stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a char or the value field has not yet been set

### insert\_char

public abstract void **insert\_char**(char c)  
 throws [DATA\_CONVERSION](http://docs.google.com/org/omg/CORBA/DATA_CONVERSION.html)

Inserts the given char into this Any object's value field.

**Parameters:**c - the char to insert into this Any object **Throws:** [DATA\_CONVERSION](http://docs.google.com/org/omg/CORBA/DATA_CONVERSION.html) - if there is a data conversion error

### extract\_wchar

public abstract char **extract\_wchar**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the char in this Any object's value field.

**Returns:**the char stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a char or the value field has not yet been set

### insert\_wchar

public abstract void **insert\_wchar**(char c)

Inserts the given char into this Any object's value field.

**Parameters:**c - the char to insert into this Any object

### extract\_octet

public abstract byte **extract\_octet**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the byte in this Any object's value field.

**Returns:**the byte stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a byte or the value field has not yet been set

### insert\_octet

public abstract void **insert\_octet**(byte b)

Inserts the given byte into this Any object's value field.

**Parameters:**b - the byte to insert into this Any object

### extract\_any

public abstract [Any](http://docs.google.com/org/omg/CORBA/Any.html) **extract\_any**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the Any object in this Any object's value field.

**Returns:**the Any object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than an Any object or the value field has not yet been set

### insert\_any

public abstract void **insert\_any**([Any](http://docs.google.com/org/omg/CORBA/Any.html) a)

Inserts the given Any object into this Any object's value field.

**Parameters:**a - the Any object to insert into this Any object

### extract\_Object

public abstract [Object](http://docs.google.com/org/omg/CORBA/Object.html) **extract\_Object**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the org.omg.CORBA.Object in this Any object's value field.

**Returns:**the org.omg.CORBA.Object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than an org.omg.CORBA.Object or the value field has not yet been set

### insert\_Object

public abstract void **insert\_Object**([Object](http://docs.google.com/org/omg/CORBA/Object.html) o)

Inserts the given org.omg.CORBA.Object object into this Any object's value field.

**Parameters:**o - the org.omg.CORBA.Object object to insert into this Any object

### extract\_Value

public abstract [Serializable](http://docs.google.com/java/io/Serializable.html) **extract\_Value**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the java.io.Serializable object in this Any object's value field.

**Returns:**the java.io.Serializable object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a java.io.Serializable object or the value field has not yet been set

### insert\_Value

public abstract void **insert\_Value**([Serializable](http://docs.google.com/java/io/Serializable.html) v)

Inserts the given java.io.Serializable object into this Any object's value field.

**Parameters:**v - the java.io.Serializable object to insert into this Any object

### insert\_Value

public abstract void **insert\_Value**([Serializable](http://docs.google.com/java/io/Serializable.html) v,  
 [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)  
 throws [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html)

Inserts the given java.io.Serializable object into this Any object's value field.

**Parameters:**v - the java.io.Serializable object to insert into this Any objectt - the TypeCode object that is to be inserted into this Any object's type field and that describes the java.io.Serializable object being inserted **Throws:** [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html) - if the ORB has a problem marshalling or unmarshalling parameters

### insert\_Object

public abstract void **insert\_Object**([Object](http://docs.google.com/org/omg/CORBA/Object.html) o,  
 [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)  
 throws [BAD\_PARAM](http://docs.google.com/org/omg/CORBA/BAD_PARAM.html)

Inserts the given org.omg.CORBA.Object object into this Any object's value field.

**Parameters:**o - the org.omg.CORBA.Object instance to insert into this Any objectt - the TypeCode object that is to be inserted into this Any object and that describes the Object being inserted **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this method is invalid for this Any object [BAD\_PARAM](http://docs.google.com/org/omg/CORBA/BAD_PARAM.html)

### extract\_string

public abstract [String](http://docs.google.com/java/lang/String.html) **extract\_string**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the String object in this Any object's value field.

**Returns:**the String object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a String object or the value field has not yet been set

### insert\_string

public abstract void **insert\_string**([String](http://docs.google.com/java/lang/String.html) s)  
 throws [DATA\_CONVERSION](http://docs.google.com/org/omg/CORBA/DATA_CONVERSION.html),  
 [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html)

Inserts the given String object into this Any object's value field.

**Parameters:**s - the String object to insert into this Any object **Throws:** [DATA\_CONVERSION](http://docs.google.com/org/omg/CORBA/DATA_CONVERSION.html) - if there is a data conversion error [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html) - if the ORB has a problem marshalling or unmarshalling parameters

### extract\_wstring

public abstract [String](http://docs.google.com/java/lang/String.html) **extract\_wstring**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the String object in this Any object's value field.

**Returns:**the String object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a String object or the value field has not yet been set

### insert\_wstring

public abstract void **insert\_wstring**([String](http://docs.google.com/java/lang/String.html) s)  
 throws [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html)

Inserts the given String object into this Any object's value field.

**Parameters:**s - the String object to insert into this Any object **Throws:** [MARSHAL](http://docs.google.com/org/omg/CORBA/MARSHAL.html) - if the ORB has a problem marshalling or unmarshalling parameters

### extract\_TypeCode

public abstract [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) **extract\_TypeCode**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

Extracts the TypeCode object in this Any object's value field.

**Returns:**the TypeCode object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a TypeCode object or the value field has not yet been set

### insert\_TypeCode

public abstract void **insert\_TypeCode**([TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) t)

Inserts the given TypeCode object into this Any object's value field.

**Parameters:**t - the TypeCode object to insert into this Any object

### extract\_Principal

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public [Principal](http://docs.google.com/org/omg/CORBA/Principal.html) **extract\_Principal**()  
 throws [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html)

**Deprecated.** *Deprecated by CORBA 2.2.*

Extracts the Principal object in this Any object's value field. Note that the class Principal has been deprecated.

**Returns:**the Principal object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a Principal object or the value field has not yet been set**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### insert\_Principal

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public void **insert\_Principal**([Principal](http://docs.google.com/org/omg/CORBA/Principal.html) p)

**Deprecated.** *Deprecated by CORBA 2.2.*

Inserts the given Principal object into this Any object's value field. Note that the class Principal has been deprecated.

**Parameters:**p - the Principal object to insert into this Any object**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### extract\_Streamable

public [Streamable](http://docs.google.com/org/omg/CORBA/portable/Streamable.html) **extract\_Streamable**()  
 throws [BAD\_INV\_ORDER](http://docs.google.com/org/omg/CORBA/BAD_INV_ORDER.html)

Extracts a Streamable from this Any object's value field. This method allows the extraction of non-primitive IDL types.

**Returns:**the Streamable stored in the Any object. **Throws:** [BAD\_INV\_ORDER](http://docs.google.com/org/omg/CORBA/BAD_INV_ORDER.html) - if the caller has invoked operations in the wrong order**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### insert\_Streamable

public void **insert\_Streamable**([Streamable](http://docs.google.com/org/omg/CORBA/portable/Streamable.html) s)

Inserts the given Streamable object into this Any object's value field. This method allows the insertion of non-primitive IDL types.

**Parameters:**s - the Streamable object to insert into this Any object; may be a non-primitive IDL type**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### extract\_fixed

public [BigDecimal](http://docs.google.com/java/math/BigDecimal.html) **extract\_fixed**()

Extracts the java.math.BigDecimal object in this Any object's value field.

**Returns:**the java.math.BigDecimal object stored in this Any object **Throws:** [BAD\_OPERATION](http://docs.google.com/org/omg/CORBA/BAD_OPERATION.html) - if this Any object contains something other than a java.math.BigDecimal object or the value field has not yet been set**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### insert\_fixed

public void **insert\_fixed**([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value)

Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/package-summary.html#NO_IMPLEMENT) exception.

Inserts the given java.math.BigDecimal object into this Any object's value field.

**Parameters:**value - the java.math.BigDecimal object to insert into this Any object**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### insert\_fixed

public void **insert\_fixed**([BigDecimal](http://docs.google.com/java/math/BigDecimal.html) value,  
 [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) type)  
 throws [BAD\_INV\_ORDER](http://docs.google.com/org/omg/CORBA/BAD_INV_ORDER.html)

Throws an  [org.omg.CORBA.NO\_IMPLEMENT](http://docs.google.com/package-summary.html#NO_IMPLEMENT) exception.

Inserts the given java.math.BigDecimal object into this Any object's value field.

**Parameters:**value - the java.math.BigDecimal object to insert into this Any objecttype - the TypeCode object that is to be inserted into this Any object's type field and that describes the java.math.BigDecimal object being inserted **Throws:** [BAD\_INV\_ORDER](http://docs.google.com/org/omg/CORBA/BAD_INV_ORDER.html) - if this method is invoked improperly**See Also:**[CORBA package comments for unimplemented features](http://docs.google.com/package-summary.html#unimpl)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Any.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/org/omg/CORBA/ACTIVITY_REQUIRED.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/CORBA/AnyHolder.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/CORBA/Any.html)    [**NO FRAMES**](http://docs.google.com/Any.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

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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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