| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TypeKind.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/javax/lang/model/type/ReferenceType.html)   [**NEXT CLASS**](http://docs.google.com/javax/lang/model/type/TypeMirror.html) | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/type/TypeKind.html)    [**NO FRAMES**](http://docs.google.com/TypeKind.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [ENUM CONSTANTS](#3znysh7) | FIELD | [METHOD](#2et92p0) | DETAIL: [ENUM CONSTANTS](#1t3h5sf) | FIELD | [METHOD](#3as4poj) |

## **javax.lang.model.type**

Enum TypeKind

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.lang.Enum](http://docs.google.com/java/lang/Enum.html)<[TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html)>  
 **javax.lang.model.type.TypeKind**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Comparable](http://docs.google.com/java/lang/Comparable.html)<[TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html)>

public enum **TypeKind**extends [Enum](http://docs.google.com/java/lang/Enum.html)<[TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html)>

The kind of a type mirror.

Note that it is possible additional type kinds will be added to accommodate new, currently unknown, language structures added to future versions of the Java™ programming language.

**Since:** 1.6 **See Also:**[TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html)

| **Enum Constant Summary** | |
| --- | --- |
| [**ARRAY**](http://docs.google.com/javax/lang/model/type/TypeKind.html#ARRAY)            An array type. |
| [**BOOLEAN**](http://docs.google.com/javax/lang/model/type/TypeKind.html#BOOLEAN)            The primitive type boolean. |
| [**BYTE**](http://docs.google.com/javax/lang/model/type/TypeKind.html#BYTE)            The primitive type byte. |
| [**CHAR**](http://docs.google.com/javax/lang/model/type/TypeKind.html#CHAR)            The primitive type char. |
| [**DECLARED**](http://docs.google.com/javax/lang/model/type/TypeKind.html#DECLARED)            A class or interface type. |
| [**DOUBLE**](http://docs.google.com/javax/lang/model/type/TypeKind.html#DOUBLE)            The primitive type double. |
| [**ERROR**](http://docs.google.com/javax/lang/model/type/TypeKind.html#ERROR)            A class or interface type that could not be resolved. |
| [**EXECUTABLE**](http://docs.google.com/javax/lang/model/type/TypeKind.html#EXECUTABLE)            A method, constructor, or initializer. |
| [**FLOAT**](http://docs.google.com/javax/lang/model/type/TypeKind.html#FLOAT)            The primitive type float. |
| [**INT**](http://docs.google.com/javax/lang/model/type/TypeKind.html#INT)            The primitive type int. |
| [**LONG**](http://docs.google.com/javax/lang/model/type/TypeKind.html#LONG)            The primitive type long. |
| [**NONE**](http://docs.google.com/javax/lang/model/type/TypeKind.html#NONE)            A pseudo-type used where no actual type is appropriate. |
| [**NULL**](http://docs.google.com/javax/lang/model/type/TypeKind.html#NULL)            The null type. |
| [**OTHER**](http://docs.google.com/javax/lang/model/type/TypeKind.html#OTHER)            An implementation-reserved type. |
| [**PACKAGE**](http://docs.google.com/javax/lang/model/type/TypeKind.html#PACKAGE)            A pseudo-type corresponding to a package element. |
| [**SHORT**](http://docs.google.com/javax/lang/model/type/TypeKind.html#SHORT)            The primitive type short. |
| [**TYPEVAR**](http://docs.google.com/javax/lang/model/type/TypeKind.html#TYPEVAR)            A type variable. |
| [**VOID**](http://docs.google.com/javax/lang/model/type/TypeKind.html#VOID)            The pseudo-type corresponding to the keyword void. |
| [**WILDCARD**](http://docs.google.com/javax/lang/model/type/TypeKind.html#WILDCARD)            A wildcard type argument. |

| **Method Summary** | |
| --- | --- |
| boolean | [**isPrimitive**](http://docs.google.com/javax/lang/model/type/TypeKind.html#isPrimitive())()            Returns true if this kind corresponds to a primitive type and false otherwise. |
| static [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) | [**valueOf**](http://docs.google.com/javax/lang/model/type/TypeKind.html#valueOf(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the enum constant of this type with the specified name. |
| static [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html)[] | [**values**](http://docs.google.com/javax/lang/model/type/TypeKind.html#values())()            Returns an array containing the constants of this enum type, in the order they are declared. |

| **Methods inherited from class java.lang.**[**Enum**](http://docs.google.com/java/lang/Enum.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Enum.html#clone()), [compareTo](http://docs.google.com/java/lang/Enum.html#compareTo(E)), [equals](http://docs.google.com/java/lang/Enum.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Enum.html#finalize()), [getDeclaringClass](http://docs.google.com/java/lang/Enum.html#getDeclaringClass()), [hashCode](http://docs.google.com/java/lang/Enum.html#hashCode()), [name](http://docs.google.com/java/lang/Enum.html#name()), [ordinal](http://docs.google.com/java/lang/Enum.html#ordinal()), [toString](http://docs.google.com/java/lang/Enum.html#toString()), [valueOf](http://docs.google.com/java/lang/Enum.html#valueOf(java.lang.Class,%20java.lang.String)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [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)) |

| **Enum Constant Detail** |
| --- |

### BOOLEAN

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **BOOLEAN**

The primitive type boolean.

### BYTE

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **BYTE**

The primitive type byte.

### SHORT

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **SHORT**

The primitive type short.

### INT

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **INT**

The primitive type int.

### LONG

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **LONG**

The primitive type long.

### CHAR

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **CHAR**

The primitive type char.

### FLOAT

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **FLOAT**

The primitive type float.

### DOUBLE

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **DOUBLE**

The primitive type double.

### VOID

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **VOID**

The pseudo-type corresponding to the keyword void.

**See Also:**[NoType](http://docs.google.com/javax/lang/model/type/NoType.html)

### NONE

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **NONE**

A pseudo-type used where no actual type is appropriate.

**See Also:**[NoType](http://docs.google.com/javax/lang/model/type/NoType.html)

### NULL

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **NULL**

The null type.

### ARRAY

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **ARRAY**

An array type.

### DECLARED

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **DECLARED**

A class or interface type.

### ERROR

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **ERROR**

A class or interface type that could not be resolved.

### TYPEVAR

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **TYPEVAR**

A type variable.

### WILDCARD

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **WILDCARD**

A wildcard type argument.

### PACKAGE

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **PACKAGE**

A pseudo-type corresponding to a package element.

**See Also:**[NoType](http://docs.google.com/javax/lang/model/type/NoType.html)

### EXECUTABLE

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **EXECUTABLE**

A method, constructor, or initializer.

### OTHER

public static final [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **OTHER**

An implementation-reserved type. This is not the type you are looking for.

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

### values

public static [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html)[] **values**()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (TypeKind c : TypeKind.values())  
  System.out.println(c);

**Returns:**an array containing the constants of this enum type, in the order they are declared

### valueOf

public static [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) **valueOf**([String](http://docs.google.com/java/lang/String.html) name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

**Parameters:**name - the name of the enum constant to be returned. **Returns:**the enum constant with the specified name **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this enum type has no constant with the specified name [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the argument is null

### isPrimitive

public boolean **isPrimitive**()

Returns true if this kind corresponds to a primitive type and false otherwise.

**Returns:**true if this kind corresponds to a primitive type

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TypeKind.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/javax/lang/model/type/ReferenceType.html)   [**NEXT CLASS**](http://docs.google.com/javax/lang/model/type/TypeMirror.html) | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/type/TypeKind.html)    [**NO FRAMES**](http://docs.google.com/TypeKind.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [ENUM CONSTANTS](#3znysh7) | FIELD | [METHOD](#2et92p0) | DETAIL: [ENUM CONSTANTS](#1t3h5sf) | FIELD | [METHOD](#3as4poj) |

[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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