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

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

Interface TypeMirror

**All Known Subinterfaces:** [ArrayType](http://docs.google.com/javax/lang/model/type/ArrayType.html), [DeclaredType](http://docs.google.com/javax/lang/model/type/DeclaredType.html), [ErrorType](http://docs.google.com/javax/lang/model/type/ErrorType.html), [ExecutableType](http://docs.google.com/javax/lang/model/type/ExecutableType.html), [NoType](http://docs.google.com/javax/lang/model/type/NoType.html), [NullType](http://docs.google.com/javax/lang/model/type/NullType.html), [PrimitiveType](http://docs.google.com/javax/lang/model/type/PrimitiveType.html), [ReferenceType](http://docs.google.com/javax/lang/model/type/ReferenceType.html), [TypeVariable](http://docs.google.com/javax/lang/model/type/TypeVariable.html), [WildcardType](http://docs.google.com/javax/lang/model/type/WildcardType.html)

public interface **TypeMirror**

Represents a type in the Java programming language. Types include primitive types, declared types (class and interface types), array types, type variables, and the null type. Also represented are wildcard type arguments, the signature and return types of executables, and pseudo-types corresponding to packages and to the keyword void.

Types should be compared using the utility methods in [Types](http://docs.google.com/javax/lang/model/util/Types.html). There is no guarantee that any particular type will always be represented by the same object.

To implement operations based on the class of an TypeMirror object, either use a [visitor](http://docs.google.com/javax/lang/model/type/TypeVisitor.html) or use the result of the [getKind()](http://docs.google.com/javax/lang/model/type/TypeMirror.html#getKind()) method. Using instanceof is *not* necessarily a reliable idiom for determining the effective class of an object in this modeling hierarchy since an implementation may choose to have a single object implement multiple TypeMirror subinterfaces.

**Since:** 1.6 **See Also:**[Element](http://docs.google.com/javax/lang/model/element/Element.html), [Types](http://docs.google.com/javax/lang/model/util/Types.html)

| **Method Summary** | |
| --- | --- |
| | <R,P> R | | --- | | [**accept**](http://docs.google.com/javax/lang/model/type/TypeMirror.html#accept(javax.lang.model.type.TypeVisitor,%20P))([TypeVisitor](http://docs.google.com/javax/lang/model/type/TypeVisitor.html)<R,P> v, P p)            Applies a visitor to this type. |
| boolean | [**equals**](http://docs.google.com/javax/lang/model/type/TypeMirror.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Obeys the general contract of [Object.equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)). |
| [TypeKind](http://docs.google.com/javax/lang/model/type/TypeKind.html) | [**getKind**](http://docs.google.com/javax/lang/model/type/TypeMirror.html#getKind())()            Returns the kind of this type. |
| int | [**hashCode**](http://docs.google.com/javax/lang/model/type/TypeMirror.html#hashCode())()            Obeys the general contract of [Object.hashCode](http://docs.google.com/java/lang/Object.html#hashCode()). |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/lang/model/type/TypeMirror.html#toString())()            Returns an informative string representation of this type. |

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

### getKind

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

Returns the kind of this type.

**Returns:**the kind of this type

### equals

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

Obeys the general contract of [Object.equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)). This method does not, however, indicate whether two types represent the same type. Semantic comparisons of type equality should instead use [Types.isSameType(TypeMirror, TypeMirror)](http://docs.google.com/javax/lang/model/util/Types.html#isSameType(javax.lang.model.type.TypeMirror,%20javax.lang.model.type.TypeMirror)). The results of t1.equals(t2) and Types.isSameType(t1, t2) may differ.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the object to be compared with this type **Returns:**true if the specified object is equal to this one**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

int **hashCode**()

Obeys the general contract of [Object.hashCode](http://docs.google.com/java/lang/Object.html#hashCode()).

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this object.**See Also:**[equals(java.lang.Object)](http://docs.google.com/javax/lang/model/type/TypeMirror.html#equals(java.lang.Object))

### toString

[String](http://docs.google.com/java/lang/String.html) **toString**()

Returns an informative string representation of this type. If possible, the string should be of a form suitable for representing this type in source code. Any names embedded in the result are qualified if possible.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this type

### accept

<R,P> R **accept**([TypeVisitor](http://docs.google.com/javax/lang/model/type/TypeVisitor.html)<R,P> v,  
 P p)

Applies a visitor to this type.

**Type Parameters:**R - the return type of the visitor's methodsP - the type of the additional parameter to the visitor's methods**Parameters:**v - the visitor operating on this typep - additional parameter to the visitor **Returns:**a visitor-specified result

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TypeMirror.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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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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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