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

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

Interface DeclaredType

**All Superinterfaces:** [ReferenceType](http://docs.google.com/javax/lang/model/type/ReferenceType.html), [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html) **All Known Subinterfaces:** [ErrorType](http://docs.google.com/javax/lang/model/type/ErrorType.html)

public interface **DeclaredType**extends [ReferenceType](http://docs.google.com/javax/lang/model/type/ReferenceType.html)

Represents a declared type, either a class type or an interface type. This includes parameterized types such as java.util.Set<String> as well as raw types.

While a TypeElement represents a class or interface *element*, a DeclaredType represents a class or interface *type*, the latter being a use (or *invocation*) of the former. See [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) for more on this distinction.

The supertypes (both class and interface types) of a declared type may be found using the [Types.directSupertypes(TypeMirror)](http://docs.google.com/javax/lang/model/util/Types.html#directSupertypes(javax.lang.model.type.TypeMirror)) method. This returns the supertypes with any type arguments substituted in.

This interface is also used to represent intersection types. An intersection type is implicit in a program rather than being explictly declared. For example, the bound of the type parameter <T extends Number & Runnable> is an intersection type. It is represented by a DeclaredType with Number as its superclass and Runnable as its lone superinterface.

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

| **Method Summary** | |
| --- | --- |
| [Element](http://docs.google.com/javax/lang/model/element/Element.html) | [**asElement**](http://docs.google.com/javax/lang/model/type/DeclaredType.html#asElement())()            Returns the element corresponding to this type. |
| [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html) | [**getEnclosingType**](http://docs.google.com/javax/lang/model/type/DeclaredType.html#getEnclosingType())()            Returns the type of the innermost enclosing instance or a NoType of kind NONE if there is no enclosing instance. |
| [List](http://docs.google.com/java/util/List.html)<? extends [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html)> | [**getTypeArguments**](http://docs.google.com/javax/lang/model/type/DeclaredType.html#getTypeArguments())()            Returns the actual type arguments of this type. |

| **Methods inherited from interface javax.lang.model.type.**[**TypeMirror**](http://docs.google.com/javax/lang/model/type/TypeMirror.html) |
| --- |
| [accept](http://docs.google.com/javax/lang/model/type/TypeMirror.html#accept(javax.lang.model.type.TypeVisitor,%20P)), [equals](http://docs.google.com/javax/lang/model/type/TypeMirror.html#equals(java.lang.Object)), [getKind](http://docs.google.com/javax/lang/model/type/TypeMirror.html#getKind()), [hashCode](http://docs.google.com/javax/lang/model/type/TypeMirror.html#hashCode()), [toString](http://docs.google.com/javax/lang/model/type/TypeMirror.html#toString()) |

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

### asElement

[Element](http://docs.google.com/javax/lang/model/element/Element.html) **asElement**()

Returns the element corresponding to this type.

**Returns:**the element corresponding to this type

### getEnclosingType

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

Returns the type of the innermost enclosing instance or a NoType of kind NONE if there is no enclosing instance. Only types corresponding to inner classes have an enclosing instance.

**Returns:**a type mirror for the enclosing type**See**  [**The Java Language Specification, Third Edition**](http://java.sun.com/docs/books/jls/)**:** 8.1.3 Inner Classes and Enclosing Instances, 15.9.2 Determining Enclosing Instances

### getTypeArguments

[List](http://docs.google.com/java/util/List.html)<? extends [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html)> **getTypeArguments**()

Returns the actual type arguments of this type. For a type nested within a parameterized type (such as Outer<String>.Inner<Number>), only the type arguments of the innermost type are included.

**Returns:**the actual type arguments of this type, or an empty list if none

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

[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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