| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/lang/model/element/TypeElement.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/element//class-useTypeElement.html)    [**NO FRAMES**](http://docs.google.com/TypeElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**javax.lang.model.element.TypeElement**

| Packages that use [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| [**javax.annotation.processing**](#3znysh7) | Facilities for declaring annotation processors and for allowing annotation processors to communicate with an annotation processing tool environment. |
| [**javax.lang.model.element**](#2et92p0) | Interfaces used to model elements of the Java programming language. |
| [**javax.lang.model.util**](#tyjcwt) | Utilities to assist in the processing of [program elements](http://docs.google.com/javax/lang/model/element/package-summary.html) and [types](http://docs.google.com/javax/lang/model/type/package-summary.html). |

| Uses of [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) | |
| --- | --- |

| Methods in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) with parameters of type [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| [Set](http://docs.google.com/java/util/Set.html)<? extends [Element](http://docs.google.com/javax/lang/model/element/Element.html)> | **RoundEnvironment.**[**getElementsAnnotatedWith**](http://docs.google.com/javax/annotation/processing/RoundEnvironment.html#getElementsAnnotatedWith(javax.lang.model.element.TypeElement))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) a)            Returns the elements annotated with the given annotation type. |

| Method parameters in [javax.annotation.processing](http://docs.google.com/javax/annotation/processing/package-summary.html) with type arguments of type [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| abstract  boolean | **AbstractProcessor.**[**process**](http://docs.google.com/javax/annotation/processing/AbstractProcessor.html#process(java.util.Set,%20javax.annotation.processing.RoundEnvironment))([Set](http://docs.google.com/java/util/Set.html)<? extends [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> annotations, [RoundEnvironment](http://docs.google.com/javax/annotation/processing/RoundEnvironment.html) roundEnv)            Processes a set of annotation types on type elements originating from the prior round and returns whether or not these annotations are claimed by this processor. |
| boolean | **Processor.**[**process**](http://docs.google.com/javax/annotation/processing/Processor.html#process(java.util.Set,%20javax.annotation.processing.RoundEnvironment))([Set](http://docs.google.com/java/util/Set.html)<? extends [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> annotations, [RoundEnvironment](http://docs.google.com/javax/annotation/processing/RoundEnvironment.html) roundEnv)            Processes a set of annotation types on type elements originating from the prior round and returns whether or not these annotations are claimed by this processor. |

| Uses of [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) in [javax.lang.model.element](http://docs.google.com/javax/lang/model/element/package-summary.html) | |
| --- | --- |

| Methods in [javax.lang.model.element](http://docs.google.com/javax/lang/model/element/package-summary.html) with parameters of type [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| [R](http://docs.google.com/javax/lang/model/element/ElementVisitor.html) | **ElementVisitor.**[**visitType**](http://docs.google.com/javax/lang/model/element/ElementVisitor.html#visitType(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/element/ElementVisitor.html) p)            Visits a type element. |

| Uses of [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) in [javax.lang.model.util](http://docs.google.com/javax/lang/model/util/package-summary.html) | |
| --- | --- |

| Methods in [javax.lang.model.util](http://docs.google.com/javax/lang/model/util/package-summary.html) that return [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | **Types.**[**boxedClass**](http://docs.google.com/javax/lang/model/util/Types.html#boxedClass(javax.lang.model.type.PrimitiveType))([PrimitiveType](http://docs.google.com/javax/lang/model/type/PrimitiveType.html) p)            Returns the class of a boxed value of a given primitive type. |
| [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | **Elements.**[**getTypeElement**](http://docs.google.com/javax/lang/model/util/Elements.html#getTypeElement(java.lang.CharSequence))([CharSequence](http://docs.google.com/java/lang/CharSequence.html) name)            Returns a type element given its canonical name. |

| Methods in [javax.lang.model.util](http://docs.google.com/javax/lang/model/util/package-summary.html) that return types with arguments of type [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| static [List](http://docs.google.com/java/util/List.html)<[TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> | **ElementFilter.**[**typesIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#typesIn(java.lang.Iterable))([Iterable](http://docs.google.com/java/lang/Iterable.html)<? extends [Element](http://docs.google.com/javax/lang/model/element/Element.html)> elements)            Returns a list of types in elements. |
| static [Set](http://docs.google.com/java/util/Set.html)<[TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> | **ElementFilter.**[**typesIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#typesIn(java.util.Set))([Set](http://docs.google.com/java/util/Set.html)<? extends [Element](http://docs.google.com/javax/lang/model/element/Element.html)> elements)            Returns a set of types in elements. |

| Methods in [javax.lang.model.util](http://docs.google.com/javax/lang/model/util/package-summary.html) with parameters of type [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) | |
| --- | --- |
| [List](http://docs.google.com/java/util/List.html)<? extends [Element](http://docs.google.com/javax/lang/model/element/Element.html)> | **Elements.**[**getAllMembers**](http://docs.google.com/javax/lang/model/util/Elements.html#getAllMembers(javax.lang.model.element.TypeElement))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) type)            Returns all members of a type element, whether inherited or declared directly. |
| [Name](http://docs.google.com/javax/lang/model/element/Name.html) | **Elements.**[**getBinaryName**](http://docs.google.com/javax/lang/model/util/Elements.html#getBinaryName(javax.lang.model.element.TypeElement))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) type)            Returns the *binary name* of a type element. |
| [DeclaredType](http://docs.google.com/javax/lang/model/type/DeclaredType.html) | **Types.**[**getDeclaredType**](http://docs.google.com/javax/lang/model/util/Types.html#getDeclaredType(javax.lang.model.type.DeclaredType,%20javax.lang.model.element.TypeElement,%20javax.lang.model.type.TypeMirror...))([DeclaredType](http://docs.google.com/javax/lang/model/type/DeclaredType.html) containing, [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) typeElem, [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html)... typeArgs)            Returns the type corresponding to a type element and actual type arguments, given a [containing type](http://docs.google.com/javax/lang/model/type/DeclaredType.html#getEnclosingType()) of which it is a member. |
| [DeclaredType](http://docs.google.com/javax/lang/model/type/DeclaredType.html) | **Types.**[**getDeclaredType**](http://docs.google.com/javax/lang/model/util/Types.html#getDeclaredType(javax.lang.model.element.TypeElement,%20javax.lang.model.type.TypeMirror...))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) typeElem, [TypeMirror](http://docs.google.com/javax/lang/model/type/TypeMirror.html)... typeArgs)            Returns the type corresponding to a type element and actual type arguments. |
| boolean | **Elements.**[**overrides**](http://docs.google.com/javax/lang/model/util/Elements.html#overrides(javax.lang.model.element.ExecutableElement,%20javax.lang.model.element.ExecutableElement,%20javax.lang.model.element.TypeElement))([ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html) overrider, [ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html) overridden, [TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) type)            Tests whether one method, as a member of a given type, overrides another method. |
| [R](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | **ElementKindVisitor6.**[**visitType**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html#visitType(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) p)            Visits a type element, dispatching to the visit method for the specific [kind](http://docs.google.com/javax/lang/model/element/ElementKind.html) of type, ANNOTATION\_TYPE, CLASS, ENUM, or INTERFACE. |
| [R](http://docs.google.com/javax/lang/model/util/SimpleElementVisitor6.html) | **SimpleElementVisitor6.**[**visitType**](http://docs.google.com/javax/lang/model/util/SimpleElementVisitor6.html#visitType(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/SimpleElementVisitor6.html) p)            Visits a type element. |
| [R](http://docs.google.com/javax/lang/model/util/ElementScanner6.html) | **ElementScanner6.**[**visitType**](http://docs.google.com/javax/lang/model/util/ElementScanner6.html#visitType(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementScanner6.html) p)            Visits a type element. |
| [R](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | **ElementKindVisitor6.**[**visitTypeAsAnnotationType**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html#visitTypeAsAnnotationType(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) p)            Visits an ANNOTATION\_TYPE type element by calling defaultAction. |
| [R](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | **ElementKindVisitor6.**[**visitTypeAsClass**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html#visitTypeAsClass(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) p)            Visits a CLASS type element by calling defaultAction. |
| [R](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | **ElementKindVisitor6.**[**visitTypeAsEnum**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html#visitTypeAsEnum(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) p)            Visits an ENUM type element by calling defaultAction. |
| [R](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | **ElementKindVisitor6.**[**visitTypeAsInterface**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html#visitTypeAsInterface(javax.lang.model.element.TypeElement,%20P))([TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html) e, [P](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) p)            Visits an INTERFACE type element by calling defaultAction. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/lang/model/element/TypeElement.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/element//class-useTypeElement.html)    [**NO FRAMES**](http://docs.google.com/TypeElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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