Overview Package | Class | Use Tree Deprecated Index Help

Java™ Platform
Standard Ed. 7

Prev Class **Next Class**   Frames No Frames   All Classes
Summary: Nested | Field | Constr | Method   Detail: Field | Constr | Method

java.lang.reflect

Interface ParameterizedType

All Superinterfaces:

Type

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public interface **ParameterizedType**
extends Type

ParameterizedType represents a parameterized type such as Collection<String>.

A parameterized type is created the first time it is needed by a reflective method, as specified in this package. When a parameterized type p is created, the generic type declaration that p instantiates is resolved, and all type arguments of p are created recursively. See TypeVariable for details on the creation process for type variables. Repeated creation of a parameterized type has no effect.

Instances of classes that implement this interface must implement an equals() method that equates any two instances that share the same generic type declaration and have equal type parameters.

Since:

1.5

Method Summary

Methods

Modifier and Type	Method and Description
Type[]	getActualTypeArguments() Returns an array of Type objects representing the actual type arguments to this type.
Type	getOwnerType() Returns a Type object representing the type that this type is a member of.
Type	getRawType() Returns the Type object representing the class or interface that declared this type.

Method Detail

getActualTypeArguments

Type[] getActualTypeArguments()

Returns an array of Type objects representing the actual type arguments to this type.

Note that in some cases, the returned array be empty. This can occur if this type represents a non-parameterized type nested within a parameterized type.

Returns:

an array of Type objects representing the actual type arguments to this type

Throws:

TypeNotPresentException - if any of the actual type arguments refers to a non-existent type declaration

`MalformedParameterizedTypeException` - if any of the actual type parameters refer to a parameterized type that cannot be instantiated for any reason

Since:

1.5

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getRawType

`Type getRawType()`

Returns the `Type` object representing the class or interface that declared this type.

Returns:

the `Type` object representing the class or interface that declared this type

Since:

1.5

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getOwnerType

`Type getOwnerType()`

Returns a `Type` object representing the type that this type is a member of. For example, if this type is `O<T>.I<S>`, return a representation of `O<T>`.

If this type is a top-level type, `null` is returned.

Returns:

a `Type` object representing the type that this type is a member of. If this type is a top-level type, `null` is returned

Throws:

`TypeNotPresentException` - if the owner type refers to a non-existent type declaration

`MalformedParameterizedTypeException` - if the owner type refers to a parameterized type that cannot be instantiated for any reason

Since:

1.5

Submit a bug or feature
For further API reference and developer documentation, see Java SE Documentation. That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.