| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ElementFilter.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/util/AbstractTypeVisitor6.html)   [**NEXT CLASS**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/util/ElementFilter.html)    [**NO FRAMES**](http://docs.google.com/ElementFilter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **javax.lang.model.util**

Class ElementFilter

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.lang.model.util.ElementFilter**

public class **ElementFilter**extends [Object](http://docs.google.com/java/lang/Object.html)

Filters for selecting just the elements of interest from a collection of elements. The returned sets and lists are new collections and do use the argument as a backing store. The methods in this class do not make any attempts to guard against concurrent modifications of the arguments. The returned sets and lists are mutable but unsafe for concurrent access. A returned set has the same iteration order as the argument set to a method.

If iterables and sets containing null are passed as arguments to methods in this class, a NullPointerException will be thrown.

Note that a *static import* statement can make the text of calls to the methods in this class more concise; for example:

import static javax.lang.model.util.ElementFilter.\*;  
 ...  
 List<VariableElement> fs = fieldsIn(someClass.getEnclosedElements());

**Since:** 1.6

| **Method Summary** | |
| --- | --- |
| static [List](http://docs.google.com/java/util/List.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> | [**constructorsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#constructorsIn(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 constructors in elements. |
| static [Set](http://docs.google.com/java/util/Set.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> | [**constructorsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#constructorsIn(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 constructors in elements. |
| static [List](http://docs.google.com/java/util/List.html)<[VariableElement](http://docs.google.com/javax/lang/model/element/VariableElement.html)> | [**fieldsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#fieldsIn(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 fields in elements. |
| static [Set](http://docs.google.com/java/util/Set.html)<[VariableElement](http://docs.google.com/javax/lang/model/element/VariableElement.html)> | [**fieldsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#fieldsIn(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 fields in elements. |
| static [List](http://docs.google.com/java/util/List.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> | [**methodsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#methodsIn(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 methods in elements. |
| static [Set](http://docs.google.com/java/util/Set.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> | [**methodsIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#methodsIn(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 methods in elements. |
| static [List](http://docs.google.com/java/util/List.html)<[PackageElement](http://docs.google.com/javax/lang/model/element/PackageElement.html)> | [**packagesIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#packagesIn(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 packages in elements. |
| static [Set](http://docs.google.com/java/util/Set.html)<[PackageElement](http://docs.google.com/javax/lang/model/element/PackageElement.html)> | [**packagesIn**](http://docs.google.com/javax/lang/model/util/ElementFilter.html#packagesIn(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 packages in elements. |
| static [List](http://docs.google.com/java/util/List.html)<[TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> | [**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)> | [**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 inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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)) |

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

### fieldsIn

public static [List](http://docs.google.com/java/util/List.html)<[VariableElement](http://docs.google.com/javax/lang/model/element/VariableElement.html)> **fieldsIn**([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 fields in elements.

**Parameters:**elements - the elements to filter **Returns:**a list of fields in elements

### fieldsIn

public static [Set](http://docs.google.com/java/util/Set.html)<[VariableElement](http://docs.google.com/javax/lang/model/element/VariableElement.html)> **fieldsIn**([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 fields in elements.

**Parameters:**elements - the elements to filter **Returns:**a set of fields in elements

### constructorsIn

public static [List](http://docs.google.com/java/util/List.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> **constructorsIn**([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 constructors in elements.

**Parameters:**elements - the elements to filter **Returns:**a list of constructors in elements

### constructorsIn

public static [Set](http://docs.google.com/java/util/Set.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> **constructorsIn**([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 constructors in elements.

**Parameters:**elements - the elements to filter **Returns:**a set of constructors in elements

### methodsIn

public static [List](http://docs.google.com/java/util/List.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> **methodsIn**([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 methods in elements.

**Parameters:**elements - the elements to filter **Returns:**a list of methods in elements

### methodsIn

public static [Set](http://docs.google.com/java/util/Set.html)<[ExecutableElement](http://docs.google.com/javax/lang/model/element/ExecutableElement.html)> **methodsIn**([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 methods in elements.

**Parameters:**elements - the elements to filter **Returns:**a set of methods in elements

### typesIn

public static [List](http://docs.google.com/java/util/List.html)<[TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> **typesIn**([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.

**Parameters:**elements - the elements to filter **Returns:**a list of types in elements

### typesIn

public static [Set](http://docs.google.com/java/util/Set.html)<[TypeElement](http://docs.google.com/javax/lang/model/element/TypeElement.html)> **typesIn**([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.

**Parameters:**elements - the elements to filter **Returns:**a set of types in elements

### packagesIn

public static [List](http://docs.google.com/java/util/List.html)<[PackageElement](http://docs.google.com/javax/lang/model/element/PackageElement.html)> **packagesIn**([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 packages in elements.

**Parameters:**elements - the elements to filter **Returns:**a list of packages in elements

### packagesIn

public static [Set](http://docs.google.com/java/util/Set.html)<[PackageElement](http://docs.google.com/javax/lang/model/element/PackageElement.html)> **packagesIn**([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 packages in elements.

**Parameters:**elements - the elements to filter **Returns:**a set of packages in elements

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ElementFilter.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/util/AbstractTypeVisitor6.html)   [**NEXT CLASS**](http://docs.google.com/javax/lang/model/util/ElementKindVisitor6.html) | [**FRAMES**](http://docs.google.com/index.html?javax/lang/model/util/ElementFilter.html)    [**NO FRAMES**](http://docs.google.com/ElementFilter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| 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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