| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InputMap.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/swing/ImageIcon.AccessibleImageIcon.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/InputVerifier.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/InputMap.html)    [**NO FRAMES**](http://docs.google.com/InputMap.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.swing**

Class InputMap

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.InputMap**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html) **Direct Known Subclasses:** [ComponentInputMap](http://docs.google.com/javax/swing/ComponentInputMap.html), [InputMapUIResource](http://docs.google.com/javax/swing/plaf/InputMapUIResource.html)

public class **InputMap**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

InputMap provides a binding between an input event (currently only KeyStrokes are used) and an Object. InputMaps are usually used with an ActionMap, to determine an Action to perform when a key is pressed. An InputMap can have a parent that is searched for bindings not defined in the InputMap.

As with ActionMap if you create a cycle, eg:

InputMap am = new InputMap();  
 InputMap bm = new InputMap():  
 am.setParent(bm);  
 bm.setParent(am);

some of the methods will cause a StackOverflowError to be thrown.

**Since:** 1.3

| **Constructor Summary** | |
| --- | --- |
| [**InputMap**](http://docs.google.com/javax/swing/InputMap.html#InputMap())()            Creates an InputMap with no parent and no mappings. |

| **Method Summary** | |
| --- | --- |
| [KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html)[] | [**allKeys**](http://docs.google.com/javax/swing/InputMap.html#allKeys())()            Returns an array of the KeyStrokes defined in this InputMap and its parent. |
| void | [**clear**](http://docs.google.com/javax/swing/InputMap.html#clear())()            Removes all the mappings from this InputMap. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/javax/swing/InputMap.html#get(javax.swing.KeyStroke))([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) keyStroke)            Returns the binding for keyStroke, messaging the parent InputMap if the binding is not locally defined. |
| [InputMap](http://docs.google.com/javax/swing/InputMap.html) | [**getParent**](http://docs.google.com/javax/swing/InputMap.html#getParent())()            Gets this InputMap's parent. |
| [KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html)[] | [**keys**](http://docs.google.com/javax/swing/InputMap.html#keys())()            Returns the KeyStrokes that are bound in this InputMap. |
| void | [**put**](http://docs.google.com/javax/swing/InputMap.html#put(javax.swing.KeyStroke,%20java.lang.Object))([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) keyStroke, [Object](http://docs.google.com/java/lang/Object.html) actionMapKey)            Adds a binding for keyStroke to actionMapKey. |
| void | [**remove**](http://docs.google.com/javax/swing/InputMap.html#remove(javax.swing.KeyStroke))([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) key)            Removes the binding for key from this InputMap. |
| void | [**setParent**](http://docs.google.com/javax/swing/InputMap.html#setParent(javax.swing.InputMap))([InputMap](http://docs.google.com/javax/swing/InputMap.html) map)            Sets this InputMap's parent. |
| int | [**size**](http://docs.google.com/javax/swing/InputMap.html#size())()            Returns the number of KeyStroke bindings. |

| **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)) |

| **Constructor Detail** |
| --- |

### InputMap

public **InputMap**()

Creates an InputMap with no parent and no mappings.

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

### setParent

public void **setParent**([InputMap](http://docs.google.com/javax/swing/InputMap.html) map)

Sets this InputMap's parent.

**Parameters:**map - the InputMap that is the parent of this one

### getParent

public [InputMap](http://docs.google.com/javax/swing/InputMap.html) **getParent**()

Gets this InputMap's parent.

**Returns:**map the InputMap that is the parent of this one, or null if this InputMap has no parent

### put

public void **put**([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) keyStroke,  
 [Object](http://docs.google.com/java/lang/Object.html) actionMapKey)

Adds a binding for keyStroke to actionMapKey. If actionMapKey is null, this removes the current binding for keyStroke.

### get

public [Object](http://docs.google.com/java/lang/Object.html) **get**([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) keyStroke)

Returns the binding for keyStroke, messaging the parent InputMap if the binding is not locally defined.

### remove

public void **remove**([KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html) key)

Removes the binding for key from this InputMap.

### clear

public void **clear**()

Removes all the mappings from this InputMap.

### keys

public [KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html)[] **keys**()

Returns the KeyStrokes that are bound in this InputMap.

### size

public int **size**()

Returns the number of KeyStroke bindings.

### allKeys

public [KeyStroke](http://docs.google.com/javax/swing/KeyStroke.html)[] **allKeys**()

Returns an array of the KeyStrokes defined in this InputMap and its parent. This differs from keys() in that this method includes the keys defined in the parent.

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