| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanInfo.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/java/beans/BeanDescriptor.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/Beans.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/BeanInfo.html)    [**NO FRAMES**](http://docs.google.com/BeanInfo.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#17dp8vu) |

## **java.beans**

Interface BeanInfo

**All Known Subinterfaces:** [BeanContextServiceProviderBeanInfo](http://docs.google.com/java/beans/beancontext/BeanContextServiceProviderBeanInfo.html) **All Known Implementing Classes:** [SimpleBeanInfo](http://docs.google.com/java/beans/SimpleBeanInfo.html)

public interface **BeanInfo**

A bean implementor who wishes to provide explicit information about their bean may provide a BeanInfo class that implements this BeanInfo interface and provides explicit information about the methods, properties, events, etc, of their bean.

A bean implementor doesn't need to provide a complete set of explicit information. You can pick and choose which information you want to provide and the rest will be obtained by automatic analysis using low-level reflection of the bean classes' methods and applying standard design patterns.

You get the opportunity to provide lots and lots of different information as part of the various XyZDescriptor classes. But don't panic, you only really need to provide the minimal core information required by the various constructors.

See also the SimpleBeanInfo class which provides a convenient "noop" base class for BeanInfo classes, which you can override for those specific places where you want to return explicit info.

To learn about all the behaviour of a bean see the Introspector class.

| **Field Summary** | |
| --- | --- |
| static int | [**ICON\_COLOR\_16x16**](http://docs.google.com/java/beans/BeanInfo.html#ICON_COLOR_16x16)            Constant to indicate a 16 x 16 color icon. |
| static int | [**ICON\_COLOR\_32x32**](http://docs.google.com/java/beans/BeanInfo.html#ICON_COLOR_32x32)            Constant to indicate a 32 x 32 color icon. |
| static int | [**ICON\_MONO\_16x16**](http://docs.google.com/java/beans/BeanInfo.html#ICON_MONO_16x16)            Constant to indicate a 16 x 16 monochrome icon. |
| static int | [**ICON\_MONO\_32x32**](http://docs.google.com/java/beans/BeanInfo.html#ICON_MONO_32x32)            Constant to indicate a 32 x 32 monochrome icon. |

| **Method Summary** | |
| --- | --- |
| [BeanInfo](http://docs.google.com/java/beans/BeanInfo.html)[] | [**getAdditionalBeanInfo**](http://docs.google.com/java/beans/BeanInfo.html#getAdditionalBeanInfo())()            This method allows a BeanInfo object to return an arbitrary collection of other BeanInfo objects that provide additional information on the current bean. |
| [BeanDescriptor](http://docs.google.com/java/beans/BeanDescriptor.html) | [**getBeanDescriptor**](http://docs.google.com/java/beans/BeanInfo.html#getBeanDescriptor())()            Gets the beans BeanDescriptor. |
| int | [**getDefaultEventIndex**](http://docs.google.com/java/beans/BeanInfo.html#getDefaultEventIndex())()            A bean may have a "default" event that is the event that will mostly commonly be used by humans when using the bean. |
| int | [**getDefaultPropertyIndex**](http://docs.google.com/java/beans/BeanInfo.html#getDefaultPropertyIndex())()            A bean may have a "default" property that is the property that will mostly commonly be initially chosen for update by human's who are customizing the bean. |
| [EventSetDescriptor](http://docs.google.com/java/beans/EventSetDescriptor.html)[] | [**getEventSetDescriptors**](http://docs.google.com/java/beans/BeanInfo.html#getEventSetDescriptors())()            Gets the beans EventSetDescriptors. |
| [Image](http://docs.google.com/java/awt/Image.html) | [**getIcon**](http://docs.google.com/java/beans/BeanInfo.html#getIcon(int))(int iconKind)            This method returns an image object that can be used to represent the bean in toolboxes, toolbars, etc. |
| [MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] | [**getMethodDescriptors**](http://docs.google.com/java/beans/BeanInfo.html#getMethodDescriptors())()            Gets the beans MethodDescriptors. |
| [PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html)[] | [**getPropertyDescriptors**](http://docs.google.com/java/beans/BeanInfo.html#getPropertyDescriptors())()            Gets the beans PropertyDescriptors. |

| **Field Detail** |
| --- |

### ICON\_COLOR\_16x16

static final int **ICON\_COLOR\_16x16**

Constant to indicate a 16 x 16 color icon.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.beans.BeanInfo.ICON_COLOR_16x16)

### ICON\_COLOR\_32x32

static final int **ICON\_COLOR\_32x32**

Constant to indicate a 32 x 32 color icon.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.beans.BeanInfo.ICON_COLOR_32x32)

### ICON\_MONO\_16x16

static final int **ICON\_MONO\_16x16**

Constant to indicate a 16 x 16 monochrome icon.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.beans.BeanInfo.ICON_MONO_16x16)

### ICON\_MONO\_32x32

static final int **ICON\_MONO\_32x32**

Constant to indicate a 32 x 32 monochrome icon.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.beans.BeanInfo.ICON_MONO_32x32)

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

### getBeanDescriptor

[BeanDescriptor](http://docs.google.com/java/beans/BeanDescriptor.html) **getBeanDescriptor**()

Gets the beans BeanDescriptor.

**Returns:**A BeanDescriptor providing overall information about the bean, such as its displayName, its customizer, etc. May return null if the information should be obtained by automatic analysis.

### getEventSetDescriptors

[EventSetDescriptor](http://docs.google.com/java/beans/EventSetDescriptor.html)[] **getEventSetDescriptors**()

Gets the beans EventSetDescriptors.

**Returns:**An array of EventSetDescriptors describing the kinds of events fired by this bean. May return null if the information should be obtained by automatic analysis.

### getDefaultEventIndex

int **getDefaultEventIndex**()

A bean may have a "default" event that is the event that will mostly commonly be used by humans when using the bean.

**Returns:**Index of default event in the EventSetDescriptor array returned by getEventSetDescriptors.

Returns -1 if there is no default event.

### getPropertyDescriptors

[PropertyDescriptor](http://docs.google.com/java/beans/PropertyDescriptor.html)[] **getPropertyDescriptors**()

Gets the beans PropertyDescriptors.

**Returns:**An array of PropertyDescriptors describing the editable properties supported by this bean. May return null if the information should be obtained by automatic analysis.

If a property is indexed, then its entry in the result array will belong to the IndexedPropertyDescriptor subclass of PropertyDescriptor. A client of getPropertyDescriptors can use "instanceof" to check if a given PropertyDescriptor is an IndexedPropertyDescriptor.

### getDefaultPropertyIndex

int **getDefaultPropertyIndex**()

A bean may have a "default" property that is the property that will mostly commonly be initially chosen for update by human's who are customizing the bean.

**Returns:**Index of default property in the PropertyDescriptor array returned by getPropertyDescriptors.

Returns -1 if there is no default property.

### getMethodDescriptors

[MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] **getMethodDescriptors**()

Gets the beans MethodDescriptors.

**Returns:**An array of MethodDescriptors describing the externally visible methods supported by this bean. May return null if the information should be obtained by automatic analysis.

### getAdditionalBeanInfo

[BeanInfo](http://docs.google.com/java/beans/BeanInfo.html)[] **getAdditionalBeanInfo**()

This method allows a BeanInfo object to return an arbitrary collection of other BeanInfo objects that provide additional information on the current bean.

If there are conflicts or overlaps between the information provided by different BeanInfo objects, then the current BeanInfo takes precedence over the getAdditionalBeanInfo objects, and later elements in the array take precedence over earlier ones.

**Returns:**an array of BeanInfo objects. May return null.

### getIcon

[Image](http://docs.google.com/java/awt/Image.html) **getIcon**(int iconKind)

This method returns an image object that can be used to represent the bean in toolboxes, toolbars, etc. Icon images will typically be GIFs, but may in future include other formats.

Beans aren't required to provide icons and may return null from this method.

There are four possible flavors of icons (16x16 color, 32x32 color, 16x16 mono, 32x32 mono). If a bean choses to only support a single icon we recommend supporting 16x16 color.

We recommend that icons have a "transparent" background so they can be rendered onto an existing background.

**Parameters:**iconKind - The kind of icon requested. This should be one of the constant values ICON\_COLOR\_16x16, ICON\_COLOR\_32x32, ICON\_MONO\_16x16, or ICON\_MONO\_32x32. **Returns:**An image object representing the requested icon. May return null if no suitable icon is available.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanInfo.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](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#tyjcwt) | CONSTR | [METHOD](#17dp8vu) |

[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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