| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContext.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   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContext.html)    [**NO FRAMES**](http://docs.google.com/BeanContext.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#17dp8vu) | CONSTR | [METHOD](#26in1rg) |

## **java.beans.beancontext**

Interface BeanContext

**All Superinterfaces:** [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html), [Collection](http://docs.google.com/java/util/Collection.html), [DesignMode](http://docs.google.com/java/beans/DesignMode.html), [Iterable](http://docs.google.com/java/lang/Iterable.html), [Visibility](http://docs.google.com/java/beans/Visibility.html) **All Known Subinterfaces:** [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **All Known Implementing Classes:** [BeanContextServicesSupport](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html), [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html)

public interface **BeanContext**extends [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html), [Collection](http://docs.google.com/java/util/Collection.html), [DesignMode](http://docs.google.com/java/beans/DesignMode.html), [Visibility](http://docs.google.com/java/beans/Visibility.html)

The BeanContext acts a logical hierarchical container for JavaBeans.

**Since:** 1.2 **See Also:**[Beans](http://docs.google.com/java/beans/Beans.html), [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html), [BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html), [PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html), java.beans.VetoableChangeEvent, [DesignMode](http://docs.google.com/java/beans/DesignMode.html), [Visibility](http://docs.google.com/java/beans/Visibility.html), [Collection](http://docs.google.com/java/util/Collection.html)

| **Field Summary** | |
| --- | --- |
| static [Object](http://docs.google.com/java/lang/Object.html) | [**globalHierarchyLock**](http://docs.google.com/java/beans/beancontext/BeanContext.html#globalHierarchyLock)            This global lock is used by both BeanContext and BeanContextServices implementors to serialize changes in a BeanContext hierarchy and any service requests etc. |

| **Fields inherited from interface java.beans.**[**DesignMode**](http://docs.google.com/java/beans/DesignMode.html) |
| --- |
| [PROPERTYNAME](http://docs.google.com/java/beans/DesignMode.html#PROPERTYNAME) |

| **Method Summary** | |
| --- | --- |
| void | [**addBeanContextMembershipListener**](http://docs.google.com/java/beans/beancontext/BeanContext.html#addBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener))([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)            Adds the specified BeanContextMembershipListener to receive BeanContextMembershipEvents from this BeanContext whenever it adds or removes a child Component(s). |
| [URL](http://docs.google.com/java/net/URL.html) | [**getResource**](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild))([String](http://docs.google.com/java/lang/String.html) name, [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)            Analagous to java.lang.ClassLoader.getResource(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | [**getResourceAsStream**](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild))([String](http://docs.google.com/java/lang/String.html) name, [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)            Analagous to java.lang.ClassLoader.getResourceAsStream(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**instantiateChild**](http://docs.google.com/java/beans/beancontext/BeanContext.html#instantiateChild(java.lang.String))([String](http://docs.google.com/java/lang/String.html) beanName)            Instantiate the javaBean named as a child of this BeanContext. |
| void | [**removeBeanContextMembershipListener**](http://docs.google.com/java/beans/beancontext/BeanContext.html#removeBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener))([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)            Removes the specified BeanContextMembershipListener so that it no longer receives BeanContextMembershipEvents when the child Component(s) are added or removed. |

| **Methods inherited from interface java.beans.beancontext.**[**BeanContextChild**](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) |
| --- |
| [addPropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [addVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#addVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [getBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#getBeanContext()), [removePropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#removePropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [removeVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#removeVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [setBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#setBeanContext(java.beans.beancontext.BeanContext)) |

| **Methods inherited from interface java.util.**[**Collection**](http://docs.google.com/java/util/Collection.html) |
| --- |
| [add](http://docs.google.com/java/util/Collection.html#add(E)), [addAll](http://docs.google.com/java/util/Collection.html#addAll(java.util.Collection)), [clear](http://docs.google.com/java/util/Collection.html#clear()), [contains](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object)), [containsAll](http://docs.google.com/java/util/Collection.html#containsAll(java.util.Collection)), [equals](http://docs.google.com/java/util/Collection.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/Collection.html#hashCode()), [isEmpty](http://docs.google.com/java/util/Collection.html#isEmpty()), [iterator](http://docs.google.com/java/util/Collection.html#iterator()), [remove](http://docs.google.com/java/util/Collection.html#remove(java.lang.Object)), [removeAll](http://docs.google.com/java/util/Collection.html#removeAll(java.util.Collection)), [retainAll](http://docs.google.com/java/util/Collection.html#retainAll(java.util.Collection)), [size](http://docs.google.com/java/util/Collection.html#size()), [toArray](http://docs.google.com/java/util/Collection.html#toArray()), [toArray](http://docs.google.com/java/util/Collection.html#toArray(T%5B%5D)) |

| **Methods inherited from interface java.beans.**[**DesignMode**](http://docs.google.com/java/beans/DesignMode.html) |
| --- |
| [isDesignTime](http://docs.google.com/java/beans/DesignMode.html#isDesignTime()), [setDesignTime](http://docs.google.com/java/beans/DesignMode.html#setDesignTime(boolean)) |

| **Methods inherited from interface java.beans.**[**Visibility**](http://docs.google.com/java/beans/Visibility.html) |
| --- |
| [avoidingGui](http://docs.google.com/java/beans/Visibility.html#avoidingGui()), [dontUseGui](http://docs.google.com/java/beans/Visibility.html#dontUseGui()), [needsGui](http://docs.google.com/java/beans/Visibility.html#needsGui()), [okToUseGui](http://docs.google.com/java/beans/Visibility.html#okToUseGui()) |

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

### globalHierarchyLock

static final [Object](http://docs.google.com/java/lang/Object.html) **globalHierarchyLock**

This global lock is used by both BeanContext and BeanContextServices implementors to serialize changes in a BeanContext hierarchy and any service requests etc.

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

### instantiateChild

[Object](http://docs.google.com/java/lang/Object.html) **instantiateChild**([String](http://docs.google.com/java/lang/String.html) beanName)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

Instantiate the javaBean named as a child of this BeanContext. The implementation of the JavaBean is derived from the value of the beanName parameter, and is defined by the java.beans.Beans.instantiate() method.

**Parameters:**beanName - The name of the JavaBean to instantiate as a child of this BeanContext **Throws:** IOException ClassNotFoundException - if the class identified by the beanName parameter is not found [IOException](http://docs.google.com/java/io/IOException.html) [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

### getResourceAsStream

[InputStream](http://docs.google.com/java/io/InputStream.html) **getResourceAsStream**([String](http://docs.google.com/java/lang/String.html) name,  
 [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Analagous to java.lang.ClassLoader.getResourceAsStream(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader.

**Parameters:**name - the resource namebcc - the specified child **Returns:**an InputStream for reading the resource, or null if the resource could not be found. **Throws:** IllegalArgumentException - if the resource is not valid [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

### getResource

[URL](http://docs.google.com/java/net/URL.html) **getResource**([String](http://docs.google.com/java/lang/String.html) name,  
 [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Analagous to java.lang.ClassLoader.getResource(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader.

**Parameters:**name - the resource namebcc - the specified child **Returns:**a URL for the named resource for the specified child **Throws:** IllegalArgumentException - if the resource is not valid [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

### addBeanContextMembershipListener

void **addBeanContextMembershipListener**([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)

Adds the specified BeanContextMembershipListener to receive BeanContextMembershipEvents from this BeanContext whenever it adds or removes a child Component(s).

**Parameters:**bcml - the BeanContextMembershipListener to be added

### removeBeanContextMembershipListener

void **removeBeanContextMembershipListener**([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)

Removes the specified BeanContextMembershipListener so that it no longer receives BeanContextMembershipEvents when the child Component(s) are added or removed.

**Parameters:**bcml - the BeanContextMembershipListener to be removed

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContext.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   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContext.html)    [**NO FRAMES**](http://docs.google.com/BeanContext.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#17dp8vu) | CONSTR | [METHOD](#26in1rg) |

[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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