| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AsyncBoxView.ChildState.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/text/AsyncBoxView.ChildLocator.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/AttributeSet.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/AsyncBoxView.ChildState.html)    [**NO FRAMES**](http://docs.google.com/AsyncBoxView.ChildState.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.text**

Class AsyncBoxView.ChildState

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

**All Implemented Interfaces:** [Runnable](http://docs.google.com/java/lang/Runnable.html) **Enclosing class:**[AsyncBoxView](http://docs.google.com/javax/swing/text/AsyncBoxView.html)

public class **AsyncBoxView.ChildState**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Runnable](http://docs.google.com/java/lang/Runnable.html)

A record representing the layout state of a child view. It is runnable as a task on another thread. All access to the child view that is based upon a read-lock on the model should synchronize on this object (i.e. The layout thread and the GUI thread can both have a read lock on the model at the same time and are not protected from each other). Access to a child view hierarchy is serialized via synchronization on the ChildState instance.

**Since:** 1.3

| **Constructor Summary** | |
| --- | --- |
| [**AsyncBoxView.ChildState**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#AsyncBoxView.ChildState(javax.swing.text.View))([View](http://docs.google.com/javax/swing/text/View.html) v)            Construct a child status. |

| **Method Summary** | |
| --- | --- |
| [View](http://docs.google.com/javax/swing/text/View.html) | [**getChildView**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#getChildView())()            Fetch the child view this record represents |
| float | [**getMajorOffset**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#getMajorOffset())()            Get the offset along the major axis |
| float | [**getMajorSpan**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#getMajorSpan())()            What is the span along the major axis. |
| float | [**getMinorOffset**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#getMinorOffset())()            What is the offset along the minor axis |
| float | [**getMinorSpan**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#getMinorSpan())()            What is the span along the minor axis. |
| boolean | [**isLayoutValid**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#isLayoutValid())()            Has the child view been laid out. |
| void | [**preferenceChanged**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#preferenceChanged(boolean,%20boolean))(boolean width, boolean height)            Mark preferences changed for this child. |
| void | [**run**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#run())()            Update the child state. |
| void | [**setMajorOffset**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildState.html#setMajorOffset(float))(float offs)            This method should only be called by the ChildLocator, it is simply a convenient place to hold the cached location. |

| **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** |
| --- |

### AsyncBoxView.ChildState

public **AsyncBoxView.ChildState**([View](http://docs.google.com/javax/swing/text/View.html) v)

Construct a child status. This needs to start out as fairly large so we don't falsely begin with the idea that all of the children are visible.

**Since:** 1.4

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

### getChildView

public [View](http://docs.google.com/javax/swing/text/View.html) **getChildView**()

Fetch the child view this record represents

### run

public void **run**()

Update the child state. This should be called by the thread that desires to spend time updating the child state (intended to be the layout thread).

This aquires a read lock on the associated document for the duration of the update to ensure the model is not changed while it is operating. The first thing to do would be to see if any work actually needs to be done. The following could have conceivably happened while the state was waiting to be updated:

1. The child may have been removed from the view hierarchy.
2. The child may have been updated by a higher priority operation (i.e. the child may have become visible).

**Specified by:**[run](http://docs.google.com/java/lang/Runnable.html#run()) in interface [Runnable](http://docs.google.com/java/lang/Runnable.html) **See Also:**[Thread.run()](http://docs.google.com/java/lang/Thread.html#run())

### getMinorSpan

public float **getMinorSpan**()

What is the span along the minor axis.

### getMinorOffset

public float **getMinorOffset**()

What is the offset along the minor axis

### getMajorSpan

public float **getMajorSpan**()

What is the span along the major axis.

### getMajorOffset

public float **getMajorOffset**()

Get the offset along the major axis

### setMajorOffset

public void **setMajorOffset**(float offs)

This method should only be called by the ChildLocator, it is simply a convenient place to hold the cached location.

### preferenceChanged

public void **preferenceChanged**(boolean width,  
 boolean height)

Mark preferences changed for this child.

**Parameters:**width - true if the width preference has changedheight - true if the height preference has changed**See Also:**[JComponent.revalidate()](http://docs.google.com/javax/swing/JComponent.html#revalidate())

### isLayoutValid

public boolean **isLayoutValid**()

Has the child view been laid out.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AsyncBoxView.ChildState.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 | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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