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

## **javax.swing.event**

Interface TreeModelListener

**All Superinterfaces:** [EventListener](http://docs.google.com/java/util/EventListener.html) **All Known Implementing Classes:** [BasicTreeUI.TreeModelHandler](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.TreeModelHandler.html), [JTree.AccessibleJTree](http://docs.google.com/javax/swing/JTree.AccessibleJTree.html), [JTree.TreeModelHandler](http://docs.google.com/javax/swing/JTree.TreeModelHandler.html)

public interface **TreeModelListener**extends [EventListener](http://docs.google.com/java/util/EventListener.html)

Defines the interface for an object that listens to changes in a TreeModel. For further information and examples see [How to Write a Tree Model Listener](http://java.sun.com/docs/books/tutorial/uiswing/events/treemodellistener.html), a section in *The Java Tutorial.*

| **Method Summary** | |
| --- | --- |
| void | [**treeNodesChanged**](http://docs.google.com/javax/swing/event/TreeModelListener.html#treeNodesChanged(javax.swing.event.TreeModelEvent))([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)            Invoked after a node (or a set of siblings) has changed in some way. |
| void | [**treeNodesInserted**](http://docs.google.com/javax/swing/event/TreeModelListener.html#treeNodesInserted(javax.swing.event.TreeModelEvent))([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)            Invoked after nodes have been inserted into the tree. |
| void | [**treeNodesRemoved**](http://docs.google.com/javax/swing/event/TreeModelListener.html#treeNodesRemoved(javax.swing.event.TreeModelEvent))([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)            Invoked after nodes have been removed from the tree. |
| void | [**treeStructureChanged**](http://docs.google.com/javax/swing/event/TreeModelListener.html#treeStructureChanged(javax.swing.event.TreeModelEvent))([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)            Invoked after the tree has drastically changed structure from a given node down. |

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

### treeNodesChanged

void **treeNodesChanged**([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)

Invoked after a node (or a set of siblings) has changed in some way. The node(s) have not changed locations in the tree or altered their children arrays, but other attributes have changed and may affect presentation. Example: the name of a file has changed, but it is in the same location in the file system.

To indicate the root has changed, childIndices and children will be null.

Use e.getPath() to get the parent of the changed node(s). e.getChildIndices() returns the index(es) of the changed node(s).

### treeNodesInserted

void **treeNodesInserted**([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)

Invoked after nodes have been inserted into the tree.

Use e.getPath() to get the parent of the new node(s). e.getChildIndices() returns the index(es) of the new node(s) in ascending order.

### treeNodesRemoved

void **treeNodesRemoved**([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)

Invoked after nodes have been removed from the tree. Note that if a subtree is removed from the tree, this method may only be invoked once for the root of the removed subtree, not once for each individual set of siblings removed.

Use e.getPath() to get the former parent of the deleted node(s). e.getChildIndices() returns, in ascending order, the index(es) the node(s) had before being deleted.

### treeStructureChanged

void **treeStructureChanged**([TreeModelEvent](http://docs.google.com/javax/swing/event/TreeModelEvent.html) e)

Invoked after the tree has drastically changed structure from a given node down. If the path returned by e.getPath() is of length one and the first element does not identify the current root node the first element should become the new root of the tree.

Use e.getPath() to get the path to the node. e.getChildIndices() returns null.

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

[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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