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

## **javax.swing.table**

Interface TableModel

**All Known Implementing Classes:** [AbstractTableModel](http://docs.google.com/javax/swing/table/AbstractTableModel.html), [DefaultTableModel](http://docs.google.com/javax/swing/table/DefaultTableModel.html)

public interface **TableModel**

The TableModel interface specifies the methods the JTable will use to interrogate a tabular data model.

The JTable can be set up to display any data model which implements the TableModel interface with a couple of lines of code:

TableModel myData = new MyTableModel();   
 JTable table = new JTable(myData);

For further documentation, see [Creating a Table Model](http://java.sun.com/docs/books/tutorial/uiswing/components/table.html#data) in *The Java Tutorial*.

**See Also:**[JTable](http://docs.google.com/javax/swing/JTable.html)

| **Method Summary** | |
| --- | --- |
| void | [**addTableModelListener**](http://docs.google.com/javax/swing/table/TableModel.html#addTableModelListener(javax.swing.event.TableModelListener))([TableModelListener](http://docs.google.com/javax/swing/event/TableModelListener.html) l)            Adds a listener to the list that is notified each time a change to the data model occurs. |
| [Class](http://docs.google.com/java/lang/Class.html)<?> | [**getColumnClass**](http://docs.google.com/javax/swing/table/TableModel.html#getColumnClass(int))(int columnIndex)            Returns the most specific superclass for all the cell values in the column. |
| int | [**getColumnCount**](http://docs.google.com/javax/swing/table/TableModel.html#getColumnCount())()            Returns the number of columns in the model. |
| [String](http://docs.google.com/java/lang/String.html) | [**getColumnName**](http://docs.google.com/javax/swing/table/TableModel.html#getColumnName(int))(int columnIndex)            Returns the name of the column at columnIndex. |
| int | [**getRowCount**](http://docs.google.com/javax/swing/table/TableModel.html#getRowCount())()            Returns the number of rows in the model. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getValueAt**](http://docs.google.com/javax/swing/table/TableModel.html#getValueAt(int,%20int))(int rowIndex, int columnIndex)            Returns the value for the cell at columnIndex and rowIndex. |
| boolean | [**isCellEditable**](http://docs.google.com/javax/swing/table/TableModel.html#isCellEditable(int,%20int))(int rowIndex, int columnIndex)            Returns true if the cell at rowIndex and columnIndex is editable. |
| void | [**removeTableModelListener**](http://docs.google.com/javax/swing/table/TableModel.html#removeTableModelListener(javax.swing.event.TableModelListener))([TableModelListener](http://docs.google.com/javax/swing/event/TableModelListener.html) l)            Removes a listener from the list that is notified each time a change to the data model occurs. |
| void | [**setValueAt**](http://docs.google.com/javax/swing/table/TableModel.html#setValueAt(java.lang.Object,%20int,%20int))([Object](http://docs.google.com/java/lang/Object.html) aValue, int rowIndex, int columnIndex)            Sets the value in the cell at columnIndex and rowIndex to aValue. |

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

### getRowCount

int **getRowCount**()

Returns the number of rows in the model. A JTable uses this method to determine how many rows it should display. This method should be quick, as it is called frequently during rendering.

**Returns:**the number of rows in the model**See Also:**[getColumnCount()](http://docs.google.com/javax/swing/table/TableModel.html#getColumnCount())

### getColumnCount

int **getColumnCount**()

Returns the number of columns in the model. A JTable uses this method to determine how many columns it should create and display by default.

**Returns:**the number of columns in the model**See Also:**[getRowCount()](http://docs.google.com/javax/swing/table/TableModel.html#getRowCount())

### getColumnName

[String](http://docs.google.com/java/lang/String.html) **getColumnName**(int columnIndex)

Returns the name of the column at columnIndex. This is used to initialize the table's column header name. Note: this name does not need to be unique; two columns in a table can have the same name.

**Parameters:**columnIndex - the index of the column **Returns:**the name of the column

### getColumnClass

[Class](http://docs.google.com/java/lang/Class.html)<?> **getColumnClass**(int columnIndex)

Returns the most specific superclass for all the cell values in the column. This is used by the JTable to set up a default renderer and editor for the column.

**Parameters:**columnIndex - the index of the column **Returns:**the common ancestor class of the object values in the model.

### isCellEditable

boolean **isCellEditable**(int rowIndex,  
 int columnIndex)

Returns true if the cell at rowIndex and columnIndex is editable. Otherwise, setValueAt on the cell will not change the value of that cell.

**Parameters:**rowIndex - the row whose value to be queriedcolumnIndex - the column whose value to be queried **Returns:**true if the cell is editable**See Also:**[setValueAt(java.lang.Object, int, int)](http://docs.google.com/javax/swing/table/TableModel.html#setValueAt(java.lang.Object,%20int,%20int))

### getValueAt

[Object](http://docs.google.com/java/lang/Object.html) **getValueAt**(int rowIndex,  
 int columnIndex)

Returns the value for the cell at columnIndex and rowIndex.

**Parameters:**rowIndex - the row whose value is to be queriedcolumnIndex - the column whose value is to be queried **Returns:**the value Object at the specified cell

### setValueAt

void **setValueAt**([Object](http://docs.google.com/java/lang/Object.html) aValue,  
 int rowIndex,  
 int columnIndex)

Sets the value in the cell at columnIndex and rowIndex to aValue.

**Parameters:**aValue - the new valuerowIndex - the row whose value is to be changedcolumnIndex - the column whose value is to be changed**See Also:**[getValueAt(int, int)](http://docs.google.com/javax/swing/table/TableModel.html#getValueAt(int,%20int)), [isCellEditable(int, int)](http://docs.google.com/javax/swing/table/TableModel.html#isCellEditable(int,%20int))

### addTableModelListener

void **addTableModelListener**([TableModelListener](http://docs.google.com/javax/swing/event/TableModelListener.html) l)

Adds a listener to the list that is notified each time a change to the data model occurs.

**Parameters:**l - the TableModelListener

### removeTableModelListener

void **removeTableModelListener**([TableModelListener](http://docs.google.com/javax/swing/event/TableModelListener.html) l)

Removes a listener from the list that is notified each time a change to the data model occurs.

**Parameters:**l - the TableModelListener

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