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

Class DefaultRowSorter.ModelWrapper<M,I>

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.DefaultRowSorter.ModelWrapper<M,I>**

**Type Parameters:**M - the type of the underlying modelI - the identifier supplied to the filter **Enclosing class:**[DefaultRowSorter](http://docs.google.com/javax/swing/DefaultRowSorter.html)<[M](http://docs.google.com/javax/swing/DefaultRowSorter.html),[I](http://docs.google.com/javax/swing/DefaultRowSorter.html)>

protected abstract static class **DefaultRowSorter.ModelWrapper<M,I>**extends [Object](http://docs.google.com/java/lang/Object.html)

DefaultRowSorter.ModelWrapper is responsible for providing the data that gets sorted by DefaultRowSorter. You normally do not interact directly with ModelWrapper. Subclasses of DefaultRowSorter provide an implementation of ModelWrapper wrapping another model. For example, TableRowSorter provides a ModelWrapper that wraps a TableModel.

ModelWrapper makes a distinction between values as Objects and Strings. This allows implementations to provide a custom string converter to be used instead of invoking toString on the object.

**Since:** 1.6 **See Also:**[RowFilter](http://docs.google.com/javax/swing/RowFilter.html), [RowFilter.Entry](http://docs.google.com/javax/swing/RowFilter.Entry.html)

| **Constructor Summary** | |
| --- | --- |
| protected | [**DefaultRowSorter.ModelWrapper**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#DefaultRowSorter.ModelWrapper())()            Creates a new ModelWrapper. |

| **Method Summary** | |
| --- | --- |
| abstract  int | [**getColumnCount**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getColumnCount())()            Returns the number of columns in the model. |
| abstract  [I](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html) | [**getIdentifier**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getIdentifier(int))(int row)            Returns the identifier for the specified row. |
| abstract  [M](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html) | [**getModel**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getModel())()            Returns the underlying model that this Model is wrapping. |
| abstract  int | [**getRowCount**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getRowCount())()            Returns the number of rows in the model. |
| [String](http://docs.google.com/java/lang/String.html) | [**getStringValueAt**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getStringValueAt(int,%20int))(int row, int column)            Returns the value as a String at the specified index. |
| abstract  [Object](http://docs.google.com/java/lang/Object.html) | [**getValueAt**](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html#getValueAt(int,%20int))(int row, int column)            Returns the value at the specified index. |

| **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** |
| --- |

### DefaultRowSorter.ModelWrapper

protected **DefaultRowSorter.ModelWrapper**()

Creates a new ModelWrapper.

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

### getModel

public abstract [M](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html) **getModel**()

Returns the underlying model that this Model is wrapping.

**Returns:**the underlying model

### getColumnCount

public abstract int **getColumnCount**()

Returns the number of columns in the model.

**Returns:**the number of columns in the model

### getRowCount

public abstract int **getRowCount**()

Returns the number of rows in the model.

**Returns:**the number of rows in the model

### getValueAt

public abstract [Object](http://docs.google.com/java/lang/Object.html) **getValueAt**(int row,  
 int column)

Returns the value at the specified index.

**Parameters:**row - the row indexcolumn - the column index **Returns:**the value at the specified index **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if the indices are outside the range of the model

### getStringValueAt

public [String](http://docs.google.com/java/lang/String.html) **getStringValueAt**(int row,  
 int column)

Returns the value as a String at the specified index. This implementation uses toString on the result from getValueAt (making sure to return an empty string for null values). Subclasses that override this method should never return null.

**Parameters:**row - the row indexcolumn - the column index **Returns:**the value at the specified index as a String **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if the indices are outside the range of the model

### getIdentifier

public abstract [I](http://docs.google.com/javax/swing/DefaultRowSorter.ModelWrapper.html) **getIdentifier**(int row)

Returns the identifier for the specified row. The return value of this is used as the identifier for the RowFilter.Entry that is passed to the RowFilter.

**Parameters:**row - the row to return the identifier for, in terms of the underlying model **Returns:**the identifier**See Also:**[RowFilter.Entry.getIdentifier()](http://docs.google.com/javax/swing/RowFilter.Entry.html#getIdentifier())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultRowSorter.ModelWrapper.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/DefaultRowSorter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/DefaultSingleSelectionModel.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/DefaultRowSorter.ModelWrapper.html)    [**NO FRAMES**](http://docs.google.com/DefaultRowSorter.ModelWrapper.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| 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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