| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MenuBar.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/java/awt/Menu.AccessibleAWTMenu.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/MenuBar.AccessibleAWTMenuBar.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/MenuBar.html)    [**NO FRAMES**](http://docs.google.com/MenuBar.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | FIELD | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: FIELD | [CONSTR](#3rdcrjn) | [METHOD](#lnxbz9) |

## **java.awt**

Class MenuBar

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.MenuComponent](http://docs.google.com/java/awt/MenuComponent.html)  
 **java.awt.MenuBar**

**All Implemented Interfaces:** [MenuContainer](http://docs.google.com/java/awt/MenuContainer.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)

public class **MenuBar**extends [MenuComponent](http://docs.google.com/java/awt/MenuComponent.html)implements [MenuContainer](http://docs.google.com/java/awt/MenuContainer.html), [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)

The MenuBar class encapsulates the platform's concept of a menu bar bound to a frame. In order to associate the menu bar with a Frame object, call the frame's setMenuBar method.

This is what a menu bar might look like:



A menu bar handles keyboard shortcuts for menu items, passing them along to its child menus. (Keyboard shortcuts, which are optional, provide the user with an alternative to the mouse for invoking a menu item and the action that is associated with it.) Each menu item can maintain an instance of MenuShortcut. The MenuBar class defines several methods, [shortcuts()](http://docs.google.com/java/awt/MenuBar.html#shortcuts()) and [getShortcutMenuItem(java.awt.MenuShortcut)](http://docs.google.com/java/awt/MenuBar.html#getShortcutMenuItem(java.awt.MenuShortcut)) that retrieve information about the shortcuts a given menu bar is managing.

**Since:** JDK1.0 **See Also:**[Frame](http://docs.google.com/java/awt/Frame.html), [Frame.setMenuBar(java.awt.MenuBar)](http://docs.google.com/java/awt/Frame.html#setMenuBar(java.awt.MenuBar)), [Menu](http://docs.google.com/java/awt/Menu.html), [MenuItem](http://docs.google.com/java/awt/MenuItem.html), [MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.MenuBar)

| **Nested Class Summary** | |
| --- | --- |
| protected  class | [**MenuBar.AccessibleAWTMenuBar**](http://docs.google.com/java/awt/MenuBar.AccessibleAWTMenuBar.html)            Inner class of MenuBar used to provide default support for accessibility. |

| **Nested classes/interfaces inherited from class java.awt.**[**MenuComponent**](http://docs.google.com/java/awt/MenuComponent.html) |
| --- |
| [MenuComponent.AccessibleAWTMenuComponent](http://docs.google.com/java/awt/MenuComponent.AccessibleAWTMenuComponent.html) |

| **Constructor Summary** | |
| --- | --- |
| [**MenuBar**](http://docs.google.com/java/awt/MenuBar.html#MenuBar())()            Creates a new menu bar. |

| **Method Summary** | |
| --- | --- |
| [Menu](http://docs.google.com/java/awt/Menu.html) | [**add**](http://docs.google.com/java/awt/MenuBar.html#add(java.awt.Menu))([Menu](http://docs.google.com/java/awt/Menu.html) m)            Adds the specified menu to the menu bar. |
| void | [**addNotify**](http://docs.google.com/java/awt/MenuBar.html#addNotify())()            Creates the menu bar's peer. |
| int | [**countMenus**](http://docs.google.com/java/awt/MenuBar.html#countMenus())()  **Deprecated.** *As of JDK version 1.1, replaced by getMenuCount().* |
| void | [**deleteShortcut**](http://docs.google.com/java/awt/MenuBar.html#deleteShortcut(java.awt.MenuShortcut))([MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html) s)            Deletes the specified menu shortcut. |
| [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) | [**getAccessibleContext**](http://docs.google.com/java/awt/MenuBar.html#getAccessibleContext())()            Gets the AccessibleContext associated with this MenuBar. |
| [Menu](http://docs.google.com/java/awt/Menu.html) | [**getHelpMenu**](http://docs.google.com/java/awt/MenuBar.html#getHelpMenu())()            Gets the help menu on the menu bar. |
| [Menu](http://docs.google.com/java/awt/Menu.html) | [**getMenu**](http://docs.google.com/java/awt/MenuBar.html#getMenu(int))(int i)            Gets the specified menu. |
| int | [**getMenuCount**](http://docs.google.com/java/awt/MenuBar.html#getMenuCount())()            Gets the number of menus on the menu bar. |
| [MenuItem](http://docs.google.com/java/awt/MenuItem.html) | [**getShortcutMenuItem**](http://docs.google.com/java/awt/MenuBar.html#getShortcutMenuItem(java.awt.MenuShortcut))([MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html) s)            Gets the instance of MenuItem associated with the specified MenuShortcut object, or null if none of the menu items being managed by this menu bar is associated with the specified menu shortcut. |
| void | [**remove**](http://docs.google.com/java/awt/MenuBar.html#remove(int))(int index)            Removes the menu located at the specified index from this menu bar. |
| void | [**remove**](http://docs.google.com/java/awt/MenuBar.html#remove(java.awt.MenuComponent))([MenuComponent](http://docs.google.com/java/awt/MenuComponent.html) m)            Removes the specified menu component from this menu bar. |
| void | [**removeNotify**](http://docs.google.com/java/awt/MenuBar.html#removeNotify())()            Removes the menu bar's peer. |
| void | [**setHelpMenu**](http://docs.google.com/java/awt/MenuBar.html#setHelpMenu(java.awt.Menu))([Menu](http://docs.google.com/java/awt/Menu.html) m)            Sets the specified menu to be this menu bar's help menu. |
| [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html)> | [**shortcuts**](http://docs.google.com/java/awt/MenuBar.html#shortcuts())()            Gets an enumeration of all menu shortcuts this menu bar is managing. |

| **Methods inherited from class java.awt.**[**MenuComponent**](http://docs.google.com/java/awt/MenuComponent.html) |
| --- |
| [dispatchEvent](http://docs.google.com/java/awt/MenuComponent.html#dispatchEvent(java.awt.AWTEvent)), [getFont](http://docs.google.com/java/awt/MenuComponent.html#getFont()), [getName](http://docs.google.com/java/awt/MenuComponent.html#getName()), [getParent](http://docs.google.com/java/awt/MenuComponent.html#getParent()), [getPeer](http://docs.google.com/java/awt/MenuComponent.html#getPeer()), [getTreeLock](http://docs.google.com/java/awt/MenuComponent.html#getTreeLock()), [paramString](http://docs.google.com/java/awt/MenuComponent.html#paramString()), [postEvent](http://docs.google.com/java/awt/MenuComponent.html#postEvent(java.awt.Event)), [processEvent](http://docs.google.com/java/awt/MenuComponent.html#processEvent(java.awt.AWTEvent)), [setFont](http://docs.google.com/java/awt/MenuComponent.html#setFont(java.awt.Font)), [setName](http://docs.google.com/java/awt/MenuComponent.html#setName(java.lang.String)), [toString](http://docs.google.com/java/awt/MenuComponent.html#toString()) |

| **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()), [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)) |

| **Methods inherited from interface java.awt.**[**MenuContainer**](http://docs.google.com/java/awt/MenuContainer.html) |
| --- |
| [getFont](http://docs.google.com/java/awt/MenuContainer.html#getFont()), [postEvent](http://docs.google.com/java/awt/MenuContainer.html#postEvent(java.awt.Event)) |

| **Constructor Detail** |
| --- |

### MenuBar

public **MenuBar**()  
 throws [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html)

Creates a new menu bar.

**Throws:** [HeadlessException](http://docs.google.com/java/awt/HeadlessException.html) - if GraphicsEnvironment.isHeadless() returns true.**See Also:**[GraphicsEnvironment.isHeadless()](http://docs.google.com/java/awt/GraphicsEnvironment.html#isHeadless())

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

### addNotify

public void **addNotify**()

Creates the menu bar's peer. The peer allows us to change the appearance of the menu bar without changing any of the menu bar's functionality.

### removeNotify

public void **removeNotify**()

Removes the menu bar's peer. The peer allows us to change the appearance of the menu bar without changing any of the menu bar's functionality.

**Overrides:**[removeNotify](http://docs.google.com/java/awt/MenuComponent.html#removeNotify()) in class [MenuComponent](http://docs.google.com/java/awt/MenuComponent.html)

### getHelpMenu

public [Menu](http://docs.google.com/java/awt/Menu.html) **getHelpMenu**()

Gets the help menu on the menu bar.

**Returns:**the help menu on this menu bar.

### setHelpMenu

public void **setHelpMenu**([Menu](http://docs.google.com/java/awt/Menu.html) m)

Sets the specified menu to be this menu bar's help menu. If this menu bar has an existing help menu, the old help menu is removed from the menu bar, and replaced with the specified menu.

**Parameters:**m - the menu to be set as the help menu

### add

public [Menu](http://docs.google.com/java/awt/Menu.html) **add**([Menu](http://docs.google.com/java/awt/Menu.html) m)

Adds the specified menu to the menu bar. If the menu has been part of another menu bar, removes it from that menu bar.

**Parameters:**m - the menu to be added **Returns:**the menu added**See Also:**[remove(int)](http://docs.google.com/java/awt/MenuBar.html#remove(int)), [remove(java.awt.MenuComponent)](http://docs.google.com/java/awt/MenuBar.html#remove(java.awt.MenuComponent))

### remove

public void **remove**(int index)

Removes the menu located at the specified index from this menu bar.

**Parameters:**index - the position of the menu to be removed.**See Also:**[add(java.awt.Menu)](http://docs.google.com/java/awt/MenuBar.html#add(java.awt.Menu))

### remove

public void **remove**([MenuComponent](http://docs.google.com/java/awt/MenuComponent.html) m)

Removes the specified menu component from this menu bar.

**Specified by:**[remove](http://docs.google.com/java/awt/MenuContainer.html#remove(java.awt.MenuComponent)) in interface [MenuContainer](http://docs.google.com/java/awt/MenuContainer.html) **Parameters:**m - the menu component to be removed.**See Also:**[add(java.awt.Menu)](http://docs.google.com/java/awt/MenuBar.html#add(java.awt.Menu))

### getMenuCount

public int **getMenuCount**()

Gets the number of menus on the menu bar.

**Returns:**the number of menus on the menu bar.**Since:** JDK1.1

### countMenus

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public int **countMenus**()

**Deprecated.** *As of JDK version 1.1, replaced by getMenuCount().*

### getMenu

public [Menu](http://docs.google.com/java/awt/Menu.html) **getMenu**(int i)

Gets the specified menu.

**Parameters:**i - the index position of the menu to be returned. **Returns:**the menu at the specified index of this menu bar.

### shortcuts

public [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html)> **shortcuts**()

Gets an enumeration of all menu shortcuts this menu bar is managing.

**Returns:**an enumeration of menu shortcuts that this menu bar is managing.**Since:** JDK1.1 **See Also:**[MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html)

### getShortcutMenuItem

public [MenuItem](http://docs.google.com/java/awt/MenuItem.html) **getShortcutMenuItem**([MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html) s)

Gets the instance of MenuItem associated with the specified MenuShortcut object, or null if none of the menu items being managed by this menu bar is associated with the specified menu shortcut.

**Parameters:**s - the specified menu shortcut.**Since:** JDK1.1 **See Also:**[MenuItem](http://docs.google.com/java/awt/MenuItem.html), [MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html)

### deleteShortcut

public void **deleteShortcut**([MenuShortcut](http://docs.google.com/java/awt/MenuShortcut.html) s)

Deletes the specified menu shortcut.

**Parameters:**s - the menu shortcut to delete.**Since:** JDK1.1

### getAccessibleContext

public [AccessibleContext](http://docs.google.com/javax/accessibility/AccessibleContext.html) **getAccessibleContext**()

Gets the AccessibleContext associated with this MenuBar. For menu bars, the AccessibleContext takes the form of an AccessibleAWTMenuBar. A new AccessibleAWTMenuBar instance is created if necessary.

**Specified by:**[getAccessibleContext](http://docs.google.com/javax/accessibility/Accessible.html#getAccessibleContext()) in interface [Accessible](http://docs.google.com/javax/accessibility/Accessible.html)**Overrides:**[getAccessibleContext](http://docs.google.com/java/awt/MenuComponent.html#getAccessibleContext()) in class [MenuComponent](http://docs.google.com/java/awt/MenuComponent.html) **Returns:**an AccessibleAWTMenuBar that serves as the AccessibleContext of this MenuBar**Since:** 1.3

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MenuBar.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/java/awt/Menu.AccessibleAWTMenu.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/MenuBar.AccessibleAWTMenuBar.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/MenuBar.html)    [**NO FRAMES**](http://docs.google.com/MenuBar.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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