| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/image/ImageObserver.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt/image//class-useImageObserver.html)    [**NO FRAMES**](http://docs.google.com/ImageObserver.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**java.awt.image.ImageObserver**

| Packages that use [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| [**java.applet**](#3znysh7) | Provides the classes necessary to create an applet and the classes an applet uses to communicate with its applet context. |
| [**java.awt**](#2et92p0) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.image**](#tyjcwt) | Provides classes for creating and modifying images. |
| [**javax.swing**](#3dy6vkm) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.colorchooser**](#4d34og8) | Contains classes and interfaces used by the JColorChooser component. |
| [**javax.swing.plaf.basic**](#2s8eyo1) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#17dp8vu) | Provides user interface objects built according to the Java look and feel (once codenamed *Metal*), which is the default look and feel. |
| [**javax.swing.table**](#3rdcrjn) | Provides classes and interfaces for dealing with javax.swing.JTable. |
| [**javax.swing.text**](#26in1rg) | Provides classes and interfaces that deal with editable and noneditable text components. |
| [**javax.swing.tree**](#lnxbz9) | Provides classes and interfaces for dealing with javax.swing.JTree. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [java.applet](http://docs.google.com/java/applet/package-summary.html) | |
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| Classes in [java.applet](http://docs.google.com/java/applet/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| class | [**Applet**](http://docs.google.com/java/applet/Applet.html)            An applet is a small program that is intended not to be run on its own, but rather to be embedded inside another application. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| Classes in [java.awt](http://docs.google.com/java/awt/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| class | [**Button**](http://docs.google.com/java/awt/Button.html)            This class creates a labeled button. |
| class | [**Canvas**](http://docs.google.com/java/awt/Canvas.html)            A Canvas component represents a blank rectangular area of the screen onto which the application can draw or from which the application can trap input events from the user. |
| class | [**Checkbox**](http://docs.google.com/java/awt/Checkbox.html)            A check box is a graphical component that can be in either an "on" (true) or "off" (false) state. |
| class | [**Choice**](http://docs.google.com/java/awt/Choice.html)            The Choice class presents a pop-up menu of choices. |
| class | [**Component**](http://docs.google.com/java/awt/Component.html)            A *component* is an object having a graphical representation that can be displayed on the screen and that can interact with the user. |
| class | [**Container**](http://docs.google.com/java/awt/Container.html)            A generic Abstract Window Toolkit(AWT) container object is a component that can contain other AWT components. |
| class | [**Dialog**](http://docs.google.com/java/awt/Dialog.html)            A Dialog is a top-level window with a title and a border that is typically used to take some form of input from the user. |
| class | [**FileDialog**](http://docs.google.com/java/awt/FileDialog.html)            The FileDialog class displays a dialog window from which the user can select a file. |
| class | [**Frame**](http://docs.google.com/java/awt/Frame.html)            A Frame is a top-level window with a title and a border. |
| class | [**Label**](http://docs.google.com/java/awt/Label.html)            A Label object is a component for placing text in a container. |
| class | [**List**](http://docs.google.com/java/awt/List.html)            The List component presents the user with a scrolling list of text items. |
| class | [**Panel**](http://docs.google.com/java/awt/Panel.html)            Panel is the simplest container class. |
| class | [**Scrollbar**](http://docs.google.com/java/awt/Scrollbar.html)            The Scrollbar class embodies a scroll bar, a familiar user-interface object. |
| class | [**ScrollPane**](http://docs.google.com/java/awt/ScrollPane.html)            A container class which implements automatic horizontal and/or vertical scrolling for a single child component. |
| class | [**TextArea**](http://docs.google.com/java/awt/TextArea.html)            A TextArea object is a multi-line region that displays text. |
| class | [**TextComponent**](http://docs.google.com/java/awt/TextComponent.html)            The TextComponent class is the superclass of any component that allows the editing of some text. |
| class | [**TextField**](http://docs.google.com/java/awt/TextField.html)            A TextField object is a text component that allows for the editing of a single line of text. |
| class | [**Window**](http://docs.google.com/java/awt/Window.html)            A Window object is a top-level window with no borders and no menubar. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| int | **Component.**[**checkImage**](http://docs.google.com/java/awt/Component.html#checkImage(java.awt.Image,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Returns the status of the construction of a screen representation of the specified image. |
| int | **Component.**[**checkImage**](http://docs.google.com/java/awt/Component.html#checkImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Returns the status of the construction of a screen representation of the specified image. |
| abstract  int | **Toolkit.**[**checkImage**](http://docs.google.com/java/awt/Toolkit.html#checkImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Indicates the construction status of a specified image that is being prepared for display. |
| abstract  boolean | **Graphics2D.**[**drawImage**](http://docs.google.com/java/awt/Graphics2D.html#drawImage(java.awt.Image,%20java.awt.geom.AffineTransform,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) obs)            Renders an image, applying a transform from image space into user space before drawing. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified image as is currently available. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified image as is currently available. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, int width, int height, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified image as has already been scaled to fit inside the specified rectangle. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified image as has already been scaled to fit inside the specified rectangle. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int dx1, int dy1, int dx2, int dy2, int sx1, int sy1, int sx2, int sy2, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface. |
| abstract  boolean | **Graphics.**[**drawImage**](http://docs.google.com/java/awt/Graphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int dx1, int dy1, int dx2, int dy2, int sx1, int sy1, int sx2, int sy2, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface. |
| abstract  int | **Image.**[**getHeight**](http://docs.google.com/java/awt/Image.html#getHeight(java.awt.image.ImageObserver))([ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Determines the height of the image. |
| abstract  [Object](http://docs.google.com/java/lang/Object.html) | **Image.**[**getProperty**](http://docs.google.com/java/awt/Image.html#getProperty(java.lang.String,%20java.awt.image.ImageObserver))([String](http://docs.google.com/java/lang/String.html) name, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Gets a property of this image by name. |
| abstract  int | **Image.**[**getWidth**](http://docs.google.com/java/awt/Image.html#getWidth(java.awt.image.ImageObserver))([ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Determines the width of the image. |
| boolean | **Component.**[**prepareImage**](http://docs.google.com/java/awt/Component.html#prepareImage(java.awt.Image,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Prepares an image for rendering on this component. |
| boolean | **Component.**[**prepareImage**](http://docs.google.com/java/awt/Component.html#prepareImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Prepares an image for rendering on this component at the specified width and height. |
| abstract  boolean | **Toolkit.**[**prepareImage**](http://docs.google.com/java/awt/Toolkit.html#prepareImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) image, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Prepares an image for rendering. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| int | **BufferedImage.**[**getHeight**](http://docs.google.com/java/awt/image/BufferedImage.html#getHeight(java.awt.image.ImageObserver))([ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Returns the height of the BufferedImage. |
| [Object](http://docs.google.com/java/lang/Object.html) | **BufferedImage.**[**getProperty**](http://docs.google.com/java/awt/image/BufferedImage.html#getProperty(java.lang.String,%20java.awt.image.ImageObserver))([String](http://docs.google.com/java/lang/String.html) name, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Returns a property of the image by name. |
| int | **BufferedImage.**[**getWidth**](http://docs.google.com/java/awt/image/BufferedImage.html#getWidth(java.awt.image.ImageObserver))([ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Returns the width of the BufferedImage. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
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| Classes in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| class | [**AbstractButton**](http://docs.google.com/javax/swing/AbstractButton.html)            Defines common behaviors for buttons and menu items. |
| class | [**Box**](http://docs.google.com/javax/swing/Box.html)            A lightweight container that uses a BoxLayout object as its layout manager. |
| static class | [**Box.Filler**](http://docs.google.com/javax/swing/Box.Filler.html)            An implementation of a lightweight component that participates in layout but has no view. |
| class | [**CellRendererPane**](http://docs.google.com/javax/swing/CellRendererPane.html)            This class is inserted in between cell renderers and the components that use them. |
| class | [**DefaultListCellRenderer**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html)            Renders an item in a list. |
| static class | [**DefaultListCellRenderer.UIResource**](http://docs.google.com/javax/swing/DefaultListCellRenderer.UIResource.html)            A subclass of DefaultListCellRenderer that implements UIResource. |
| class | [**JApplet**](http://docs.google.com/javax/swing/JApplet.html)            An extended version of java.applet.Applet that adds support for the JFC/Swing component architecture. |
| class | [**JButton**](http://docs.google.com/javax/swing/JButton.html)            An implementation of a "push" button. |
| class | [**JCheckBox**](http://docs.google.com/javax/swing/JCheckBox.html)            An implementation of a check box -- an item that can be selected or deselected, and which displays its state to the user. |
| class | [**JCheckBoxMenuItem**](http://docs.google.com/javax/swing/JCheckBoxMenuItem.html)            A menu item that can be selected or deselected. |
| class | [**JColorChooser**](http://docs.google.com/javax/swing/JColorChooser.html)            JColorChooser provides a pane of controls designed to allow a user to manipulate and select a color. |
| class | [**JComboBox**](http://docs.google.com/javax/swing/JComboBox.html)            A component that combines a button or editable field and a drop-down list. |
| class | [**JComponent**](http://docs.google.com/javax/swing/JComponent.html)            The base class for all Swing components except top-level containers. |
| class | [**JDesktopPane**](http://docs.google.com/javax/swing/JDesktopPane.html)            A container used to create a multiple-document interface or a virtual desktop. |
| class | [**JDialog**](http://docs.google.com/javax/swing/JDialog.html)            The main class for creating a dialog window. |
| class | [**JEditorPane**](http://docs.google.com/javax/swing/JEditorPane.html)            A text component to edit various kinds of content. |
| class | [**JFileChooser**](http://docs.google.com/javax/swing/JFileChooser.html)            JFileChooser provides a simple mechanism for the user to choose a file. |
| class | [**JFormattedTextField**](http://docs.google.com/javax/swing/JFormattedTextField.html)            JFormattedTextField extends JTextField adding support for formatting arbitrary values, as well as retrieving a particular object once the user has edited the text. |
| class | [**JFrame**](http://docs.google.com/javax/swing/JFrame.html)            An extended version of java.awt.Frame that adds support for the JFC/Swing component architecture. |
| class | [**JInternalFrame**](http://docs.google.com/javax/swing/JInternalFrame.html)            A lightweight object that provides many of the features of a native frame, including dragging, closing, becoming an icon, resizing, title display, and support for a menu bar. |
| static class | [**JInternalFrame.JDesktopIcon**](http://docs.google.com/javax/swing/JInternalFrame.JDesktopIcon.html)            This component represents an iconified version of a JInternalFrame. |
| class | [**JLabel**](http://docs.google.com/javax/swing/JLabel.html)            A display area for a short text string or an image, or both. |
| class | [**JLayeredPane**](http://docs.google.com/javax/swing/JLayeredPane.html)            JLayeredPane adds depth to a JFC/Swing container, allowing components to overlap each other when needed. |
| class | [**JList**](http://docs.google.com/javax/swing/JList.html)            A component that displays a list of objects and allows the user to select one or more items. |
| class | [**JMenu**](http://docs.google.com/javax/swing/JMenu.html)            An implementation of a menu -- a popup window containing JMenuItems that is displayed when the user selects an item on the JMenuBar. |
| class | [**JMenuBar**](http://docs.google.com/javax/swing/JMenuBar.html)            An implementation of a menu bar. |
| class | [**JMenuItem**](http://docs.google.com/javax/swing/JMenuItem.html)            An implementation of an item in a menu. |
| class | [**JOptionPane**](http://docs.google.com/javax/swing/JOptionPane.html)            JOptionPane makes it easy to pop up a standard dialog box that prompts users for a value or informs them of something. |
| class | [**JPanel**](http://docs.google.com/javax/swing/JPanel.html)            JPanel is a generic lightweight container. |
| class | [**JPasswordField**](http://docs.google.com/javax/swing/JPasswordField.html)            JPasswordField is a lightweight component that allows the editing of a single line of text where the view indicates something was typed, but does not show the original characters. |
| class | [**JPopupMenu**](http://docs.google.com/javax/swing/JPopupMenu.html)            An implementation of a popup menu -- a small window that pops up and displays a series of choices. |
| static class | [**JPopupMenu.Separator**](http://docs.google.com/javax/swing/JPopupMenu.Separator.html)            A popup menu-specific separator. |
| class | [**JProgressBar**](http://docs.google.com/javax/swing/JProgressBar.html)            A component that visually displays the progress of some task. |
| class | [**JRadioButton**](http://docs.google.com/javax/swing/JRadioButton.html)            An implementation of a radio button -- an item that can be selected or deselected, and which displays its state to the user. |
| class | [**JRadioButtonMenuItem**](http://docs.google.com/javax/swing/JRadioButtonMenuItem.html)            An implementation of a radio button menu item. |
| class | [**JRootPane**](http://docs.google.com/javax/swing/JRootPane.html)            A lightweight container used behind the scenes by JFrame, JDialog, JWindow, JApplet, and JInternalFrame. |
| class | [**JScrollBar**](http://docs.google.com/javax/swing/JScrollBar.html)            An implementation of a scrollbar. |
| class | [**JScrollPane**](http://docs.google.com/javax/swing/JScrollPane.html)            Provides a scrollable view of a lightweight component. |
| protected  class | [**JScrollPane.ScrollBar**](http://docs.google.com/javax/swing/JScrollPane.ScrollBar.html)            By default JScrollPane creates scrollbars that are instances of this class. |
| class | [**JSeparator**](http://docs.google.com/javax/swing/JSeparator.html)            JSeparator provides a general purpose component for implementing divider lines - most commonly used as a divider between menu items that breaks them up into logical groupings. |
| class | [**JSlider**](http://docs.google.com/javax/swing/JSlider.html)            A component that lets the user graphically select a value by sliding a knob within a bounded interval. |
| class | [**JSpinner**](http://docs.google.com/javax/swing/JSpinner.html)            A single line input field that lets the user select a number or an object value from an ordered sequence. |
| static class | [**JSpinner.DateEditor**](http://docs.google.com/javax/swing/JSpinner.DateEditor.html)            An editor for a JSpinner whose model is a SpinnerDateModel. |
| static class | [**JSpinner.DefaultEditor**](http://docs.google.com/javax/swing/JSpinner.DefaultEditor.html)            A simple base class for more specialized editors that displays a read-only view of the model's current value with a JFormattedTextField. |
| static class | [**JSpinner.ListEditor**](http://docs.google.com/javax/swing/JSpinner.ListEditor.html)            An editor for a JSpinner whose model is a SpinnerListModel. |
| static class | [**JSpinner.NumberEditor**](http://docs.google.com/javax/swing/JSpinner.NumberEditor.html)            An editor for a JSpinner whose model is a SpinnerNumberModel. |
| class | [**JSplitPane**](http://docs.google.com/javax/swing/JSplitPane.html)            JSplitPane is used to divide two (and only two) Components. |
| class | [**JTabbedPane**](http://docs.google.com/javax/swing/JTabbedPane.html)            A component that lets the user switch between a group of components by clicking on a tab with a given title and/or icon. |
| class | [**JTable**](http://docs.google.com/javax/swing/JTable.html)            The JTable is used to display and edit regular two-dimensional tables of cells. |
| class | [**JTextArea**](http://docs.google.com/javax/swing/JTextArea.html)            A JTextArea is a multi-line area that displays plain text. |
| class | [**JTextField**](http://docs.google.com/javax/swing/JTextField.html)            JTextField is a lightweight component that allows the editing of a single line of text. |
| class | [**JTextPane**](http://docs.google.com/javax/swing/JTextPane.html)            A text component that can be marked up with attributes that are represented graphically. |
| class | [**JToggleButton**](http://docs.google.com/javax/swing/JToggleButton.html)            An implementation of a two-state button. |
| class | [**JToolBar**](http://docs.google.com/javax/swing/JToolBar.html)            JToolBar provides a component that is useful for displaying commonly used Actions or controls. |
| static class | [**JToolBar.Separator**](http://docs.google.com/javax/swing/JToolBar.Separator.html)            A toolbar-specific separator. |
| class | [**JToolTip**](http://docs.google.com/javax/swing/JToolTip.html)            Used to display a "Tip" for a Component. |
| class | [**JTree**](http://docs.google.com/javax/swing/JTree.html)  A control that displays a set of hierarchical data as an outline. |
| class | [**JViewport**](http://docs.google.com/javax/swing/JViewport.html)            The "viewport" or "porthole" through which you see the underlying information. |
| class | [**JWindow**](http://docs.google.com/javax/swing/JWindow.html)            A JWindow is a container that can be displayed anywhere on the user's desktop. |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that return [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
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| [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | **ImageIcon.**[**getImageObserver**](http://docs.google.com/javax/swing/ImageIcon.html#getImageObserver())()            Returns the image observer for the image. |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, int width, int height, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int x, int y, int width, int height, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20java.awt.Color,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int dx1, int dy1, int dx2, int dy2, int sx1, int sy1, int sx2, int sy2, [Color](http://docs.google.com/java/awt/Color.html) bgcolor, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| boolean | **DebugGraphics.**[**drawImage**](http://docs.google.com/javax/swing/DebugGraphics.html#drawImage(java.awt.Image,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20int,%20java.awt.image.ImageObserver))([Image](http://docs.google.com/java/awt/Image.html) img, int dx1, int dy1, int dx2, int dy2, int sx1, int sy1, int sx2, int sy2, [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Overrides Graphics.drawImage. |
| void | **ImageIcon.**[**setImageObserver**](http://docs.google.com/javax/swing/ImageIcon.html#setImageObserver(java.awt.image.ImageObserver))([ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) observer)            Sets the image observer for the image. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.colorchooser](http://docs.google.com/javax/swing/colorchooser/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.colorchooser](http://docs.google.com/javax/swing/colorchooser/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**AbstractColorChooserPanel**](http://docs.google.com/javax/swing/colorchooser/AbstractColorChooserPanel.html)            This is the abstract superclass for color choosers. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**BasicArrowButton**](http://docs.google.com/javax/swing/plaf/basic/BasicArrowButton.html)            JButton object that draws a scaled Arrow in one of the cardinal directions. |
| class | [**BasicComboBoxRenderer**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxRenderer.html)            ComboBox renderer |
| static class | [**BasicComboBoxRenderer.UIResource**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxRenderer.UIResource.html)            A subclass of BasicComboBoxRenderer that implements UIResource. |
| class | [**BasicComboPopup**](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.html)            This is a basic implementation of the ComboPopup interface. |
| class | [**BasicInternalFrameTitlePane**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.html)            The class that manages a basic title bar |
| class | [**BasicInternalFrameTitlePane.SystemMenuBar**](http://docs.google.com/javax/swing/plaf/basic/BasicInternalFrameTitlePane.SystemMenuBar.html)            This class should be treated as a "protected" inner class. |
| class | [**BasicSplitPaneDivider**](http://docs.google.com/javax/swing/plaf/basic/BasicSplitPaneDivider.html)            Divider used by BasicSplitPaneUI. |
| protected  class | [**BasicToolBarUI.DragWindow**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.DragWindow.html) |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**MetalComboBoxButton**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxButton.html)            JButton subclass to help out MetalComboBoxUI |
| class | [**MetalComboBoxUI.MetalComboPopup**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxUI.MetalComboPopup.html)  **Deprecated.** *As of Java 2 platform v1.4.* |
| protected  class | [**MetalFileChooserUI.FileRenderer**](http://docs.google.com/javax/swing/plaf/metal/MetalFileChooserUI.FileRenderer.html) |
| class | [**MetalFileChooserUI.FilterComboBoxRenderer**](http://docs.google.com/javax/swing/plaf/metal/MetalFileChooserUI.FilterComboBoxRenderer.html)            Render different type sizes and styles. |
| class | [**MetalInternalFrameTitlePane**](http://docs.google.com/javax/swing/plaf/metal/MetalInternalFrameTitlePane.html)            Class that manages a JLF title bar |
| class | [**MetalScrollButton**](http://docs.google.com/javax/swing/plaf/metal/MetalScrollButton.html)            JButton object for Metal scrollbar arrows. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**DefaultTableCellRenderer**](http://docs.google.com/javax/swing/table/DefaultTableCellRenderer.html)            The standard class for rendering (displaying) individual cells in a JTable. |
| static class | [**DefaultTableCellRenderer.UIResource**](http://docs.google.com/javax/swing/table/DefaultTableCellRenderer.UIResource.html)            A subclass of DefaultTableCellRenderer that implements UIResource. |
| class | [**JTableHeader**](http://docs.google.com/javax/swing/table/JTableHeader.html)            This is the object which manages the header of the JTable. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**JTextComponent**](http://docs.google.com/javax/swing/text/JTextComponent.html)            JTextComponent is the base class for swing text components. |

| Uses of [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) in [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) | |
| --- | --- |

| Classes in [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) that implement [ImageObserver](http://docs.google.com/java/awt/image/ImageObserver.html) | |
| --- | --- |
| class | [**DefaultTreeCellEditor.DefaultTextField**](http://docs.google.com/javax/swing/tree/DefaultTreeCellEditor.DefaultTextField.html)            TextField used when no editor is supplied. |
| class | [**DefaultTreeCellEditor.EditorContainer**](http://docs.google.com/javax/swing/tree/DefaultTreeCellEditor.EditorContainer.html)            Container responsible for placing the editingComponent. |
| class | [**DefaultTreeCellRenderer**](http://docs.google.com/javax/swing/tree/DefaultTreeCellRenderer.html)            Displays an entry in a tree. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/image/ImageObserver.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt/image//class-useImageObserver.html)    [**NO FRAMES**](http://docs.google.com/ImageObserver.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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