| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/event/FocusListener.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/event//class-useFocusListener.html)    [**NO FRAMES**](http://docs.google.com/FocusListener.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**java.awt.event.FocusListener**

| Packages that use [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.event**](#2et92p0) | Provides interfaces and classes for dealing with different types of events fired by AWT components. |
| [**javax.accessibility**](#tyjcwt) | Defines a contract between user-interface components and an assistive technology that provides access to those components. |
| [**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.plaf.basic**](#1t3h5sf) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#4d34og8) | 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**](#2s8eyo1) | Provides classes and interfaces for dealing with javax.swing.JTable. |
| [**javax.swing.text**](#17dp8vu) | Provides classes and interfaces that deal with editable and noneditable text components. |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
| --- | --- |

| Classes in [java.awt](http://docs.google.com/java/awt/package-summary.html) that implement [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| class | [**AWTEventMulticaster**](http://docs.google.com/java/awt/AWTEventMulticaster.html)            AWTEventMulticaster implements efficient and thread-safe multi-cast event dispatching for the AWT events defined in the java.awt.event package. |
| protected  class | [**Component.AccessibleAWTComponent.AccessibleAWTFocusHandler**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.AccessibleAWTFocusHandler.html)            Fire PropertyChange listener, if one is registered, when focus events happen |

| Fields in [java.awt](http://docs.google.com/java/awt/package-summary.html) declared as [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **Component.AccessibleAWTComponent.**[**accessibleAWTFocusHandler**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#accessibleAWTFocusHandler) |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that return [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| static [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **AWTEventMulticaster.**[**add**](http://docs.google.com/java/awt/AWTEventMulticaster.html#add(java.awt.event.FocusListener,%20java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) a, [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) b)            Adds focus-listener-a with focus-listener-b and returns the resulting multicast listener. |
| [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html)[] | **Component.**[**getFocusListeners**](http://docs.google.com/java/awt/Component.html#getFocusListeners())()            Returns an array of all the focus listeners registered on this component. |
| static [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **AWTEventMulticaster.**[**remove**](http://docs.google.com/java/awt/AWTEventMulticaster.html#remove(java.awt.event.FocusListener,%20java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l, [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) oldl)            Removes the old focus-listener from focus-listener-l and returns the resulting multicast listener. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| static [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **AWTEventMulticaster.**[**add**](http://docs.google.com/java/awt/AWTEventMulticaster.html#add(java.awt.event.FocusListener,%20java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) a, [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) b)            Adds focus-listener-a with focus-listener-b and returns the resulting multicast listener. |
| void | **MenuComponent.AccessibleAWTMenuComponent.**[**addFocusListener**](http://docs.google.com/java/awt/MenuComponent.AccessibleAWTMenuComponent.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Adds the specified focus listener to receive focus events from this component. |
| void | **List.AccessibleAWTList.AccessibleAWTListChild.**[**addFocusListener**](http://docs.google.com/java/awt/List.AccessibleAWTList.AccessibleAWTListChild.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Adds the specified focus listener to receive focus events from this component. |
| void | **Component.**[**addFocusListener**](http://docs.google.com/java/awt/Component.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Adds the specified focus listener to receive focus events from this component when this component gains input focus. |
| void | **Component.AccessibleAWTComponent.**[**addFocusListener**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Adds the specified focus listener to receive focus events from this component. |
| static [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **AWTEventMulticaster.**[**remove**](http://docs.google.com/java/awt/AWTEventMulticaster.html#remove(java.awt.event.FocusListener,%20java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l, [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) oldl)            Removes the old focus-listener from focus-listener-l and returns the resulting multicast listener. |
| void | **MenuComponent.AccessibleAWTMenuComponent.**[**removeFocusListener**](http://docs.google.com/java/awt/MenuComponent.AccessibleAWTMenuComponent.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Removes the specified focus listener so it no longer receives focus events from this component. |
| void | **List.AccessibleAWTList.AccessibleAWTListChild.**[**removeFocusListener**](http://docs.google.com/java/awt/List.AccessibleAWTList.AccessibleAWTListChild.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Removes the specified focus listener so it no longer receives focus events from this component. |
| void | **Component.**[**removeFocusListener**](http://docs.google.com/java/awt/Component.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Removes the specified focus listener so that it no longer receives focus events from this component. |
| void | **Component.AccessibleAWTComponent.**[**removeFocusListener**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Removes the specified focus listener so it no longer receives focus events from this component. |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) | |
| --- | --- |

| Classes in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) that implement [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| class | [**FocusAdapter**](http://docs.google.com/java/awt/event/FocusAdapter.html)            An abstract adapter class for receiving keyboard focus events. |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) in [javax.accessibility](http://docs.google.com/javax/accessibility/package-summary.html) | |
| --- | --- |

| Methods in [javax.accessibility](http://docs.google.com/javax/accessibility/package-summary.html) with parameters of type [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| void | **AccessibleComponent.**[**addFocusListener**](http://docs.google.com/javax/accessibility/AccessibleComponent.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Adds the specified focus listener to receive focus events from this component. |
| void | **AccessibleComponent.**[**removeFocusListener**](http://docs.google.com/javax/accessibility/AccessibleComponent.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l)            Removes the specified focus listener so it no longer receives focus events from this component. |

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

| Classes in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that implement [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| protected  class | [**JComponent.AccessibleJComponent.AccessibleFocusHandler**](http://docs.google.com/javax/swing/JComponent.AccessibleJComponent.AccessibleFocusHandler.html)            Fire PropertyChange listener, if one is registered, when focus events happen |

| Fields in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) declared as [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **JComponent.AccessibleJComponent.**[**accessibleFocusHandler**](http://docs.google.com/javax/swing/JComponent.AccessibleJComponent.html#accessibleFocusHandler) |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| void | **JTree.AccessibleJTree.AccessibleJTreeNode.**[**addFocusListener**](http://docs.google.com/javax/swing/JTree.AccessibleJTree.AccessibleJTreeNode.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JTable.AccessibleJTable.AccessibleJTableCell.**[**addFocusListener**](http://docs.google.com/javax/swing/JTable.AccessibleJTable.AccessibleJTableCell.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JList.AccessibleJList.AccessibleJListChild.**[**addFocusListener**](http://docs.google.com/javax/swing/JList.AccessibleJList.AccessibleJListChild.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JTree.AccessibleJTree.AccessibleJTreeNode.**[**removeFocusListener**](http://docs.google.com/javax/swing/JTree.AccessibleJTree.AccessibleJTreeNode.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JTable.AccessibleJTable.AccessibleJTableCell.**[**removeFocusListener**](http://docs.google.com/javax/swing/JTable.AccessibleJTable.AccessibleJTableCell.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JList.AccessibleJList.AccessibleJListChild.**[**removeFocusListener**](http://docs.google.com/javax/swing/JList.AccessibleJList.AccessibleJListChild.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.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 [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| class | [**BasicButtonListener**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonListener.html)            Button Listener |
| class | [**BasicComboBoxEditor**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxEditor.html)            The default editor for editable combo boxes. |
| static class | [**BasicComboBoxEditor.UIResource**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxEditor.UIResource.html)            A subclass of BasicComboBoxEditor that implements UIResource. |
| class | [**BasicComboBoxUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.FocusHandler.html)            This listener hides the popup when the focus is lost. |
| class | [**BasicListUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.FocusHandler.html)            This inner class is marked "public" due to a compiler bug. |
| class | [**BasicSliderUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.FocusHandler.html)            Focus-change listener. |
| class | [**BasicSplitPaneUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicSplitPaneUI.FocusHandler.html)            Implementation of the FocusListener that the JSplitPane UI uses. |
| class | [**BasicTabbedPaneUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.FocusHandler.html)            This class should be treated as a "protected" inner class. |
| class | [**BasicTableUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.FocusHandler.html)            This inner class is marked "public" due to a compiler bug. |
| static class | [**BasicTextUI.BasicCaret**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicCaret.html) |
| protected  class | [**BasicToolBarUI.ToolBarFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.ToolBarFocusListener.html) |
| class | [**BasicTreeUI.FocusHandler**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.FocusHandler.html)            Repaints the lead selection row when focus is lost/gained. |

| Fields in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) declared as [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicTableUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#focusListener) |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicTabbedPaneUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#focusListener) |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicSliderUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#focusListener) |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicListUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.html#focusListener) |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicSplitPaneUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicSplitPaneUI.html#focusListener)            Instance of the FocusListener for this JSplitPane. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicComboBoxUI.**[**focusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.html#focusListener)            This protected field is implementation specific. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicToolBarUI.**[**toolBarFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.html#toolBarFocusListener) |

| Methods in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) that return [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicTableUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTableUI.html#createFocusListener())()            Creates the focus listener for handling keyboard navigation in the JTable. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicTabbedPaneUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#createFocusListener())() |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicListUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.html#createFocusListener())() |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicTreeUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#createFocusListener())()            Creates a listener that is responsible for updating the display when focus is lost/gained. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicSplitPaneUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicSplitPaneUI.html#createFocusListener())()            Creates a FocusListener for the JSplitPane UI. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicComboBoxUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.html#createFocusListener())()            Creates a FocusListener which will be added to the combo box. |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicSliderUI.**[**createFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#createFocusListener(javax.swing.JSlider))([JSlider](http://docs.google.com/javax/swing/JSlider.html) slider) |
| protected  [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | **BasicToolBarUI.**[**createToolBarFocusListener**](http://docs.google.com/javax/swing/plaf/basic/BasicToolBarUI.html#createToolBarFocusListener())() |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.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 [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| class | [**MetalComboBoxEditor**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxEditor.html)            The default editor for Metal editable combo boxes |
| static class | [**MetalComboBoxEditor.UIResource**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxEditor.UIResource.html)            A subclass of BasicComboBoxEditor that implements UIResource. |

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

| Methods in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) with parameters of type [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| void | **JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.**[**addFocusListener**](http://docs.google.com/javax/swing/table/JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.html#addFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |
| void | **JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.**[**removeFocusListener**](http://docs.google.com/javax/swing/table/JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.html#removeFocusListener(java.awt.event.FocusListener))([FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) l) |

| Uses of [FocusListener](http://docs.google.com/java/awt/event/FocusListener.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 [FocusListener](http://docs.google.com/java/awt/event/FocusListener.html) | |
| --- | --- |
| class | [**DefaultCaret**](http://docs.google.com/javax/swing/text/DefaultCaret.html)            A default implementation of Caret. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/event/FocusListener.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/event//class-useFocusListener.html)    [**NO FRAMES**](http://docs.google.com/FocusListener.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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