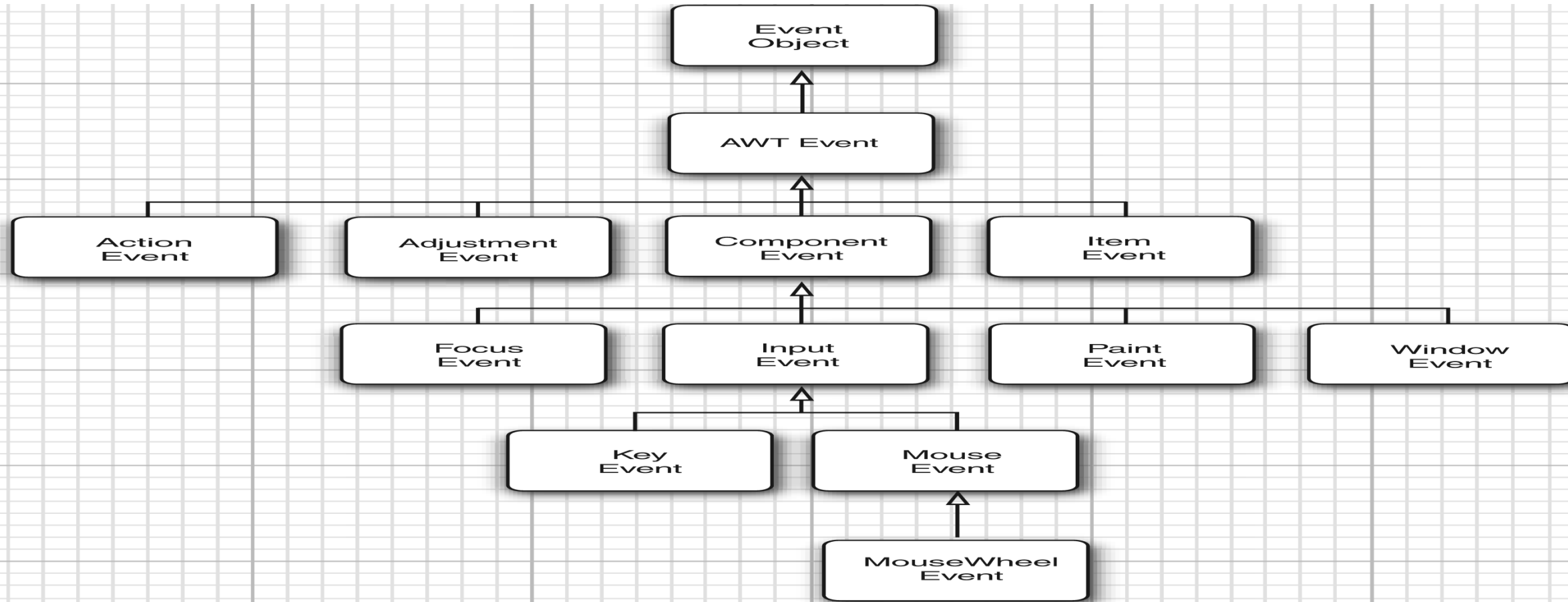


The AWT Event Hierarchy - java.util package.



Semantic and Low-Level Events

- A semantic event is one that expresses what the user is doing, such as “clicking that button”; an
 - `ActionEvent` is a semantic event.
- Low-level events are those events that make this possible
- commonly used semantic event classes in the `java.awt.event` package:
 - `ActionEvent` (for a button click, a menu selection, selecting a list item, or Enter typed in a text field)
 - `AdjustmentEvent` (the user adjusted a scrollbar)
 - `ItemEvent` (the user made a selection from a set of checkbox or list items)

- Five low-level event classes are commonly used:
- KeyEvent (a key was pressed or released)
- MouseEvent (the mouse button was pressed, released, moved, or dragged)
- MouseWheelEvent (the mouse wheel was rotated)
- FocusEvent (a component got focus or lost focus)
- WindowEvent (the window state changed)
- The following interfaces listen to these events:
 - ActionListener MouseMotionListener
 - AdjustmentListener MouseWheelListener
 - FocusListener WindowListener
 - ItemListener WindowFocusListener
 - KeyListener WindowStateListener
 - MouseListener

Interface	Methods	Parameter/Accessors	Events Generated By
ActionListener	actionPerformed	ActionEvent <ul style="list-style-type: none"> • getActionCommand • getModifiers 	AbstractButton JComboBox JTextField Timer
AdjustmentListener	adjustmentValueChanged	AdjustmentEvent <ul style="list-style-type: none"> • getAdjustable • getAdjustmentType • getValue 	JScrollbar
ItemListener	itemStateChanged	ItemEvent <ul style="list-style-type: none"> • getItem • getItemSelectable • getStateChange 	AbstractButton JComboBox
FocusListener	focusGained focusLost	FocusEvent <ul style="list-style-type: none"> • isTemporary 	Component
KeyListener	keyPressed keyReleased keyTyped	KeyEvent <ul style="list-style-type: none"> • getKeyChar • getKeyCode • getKeyModifiersText • getKeyText • isActionKey 	Component
MouseListener	mousePressed mouseReleased mouseEntered mouseExited mouseClicked	MouseEvent <ul style="list-style-type: none"> • getClickCount • getX • getY • getPoint • translatePoint 	Component

Interface	Methods	Parameter/Accessors	Events Generated By
MouseListener	mouseDragged mouseMoved	MouseEvent	Component
MouseWheelListener	mouseWheelMoved	MouseWheelEvent <ul style="list-style-type: none"> • getWheelRotation • getScrollAmount 	Component
WindowListener	windowClosing windowOpened windowIconified windowDeiconified windowClosed windowActivated windowDeactivated	WindowEvent <ul style="list-style-type: none"> • getWindow 	Window
WindowFocusListener	windowGainedFocus windowLostFocus	WindowEvent <ul style="list-style-type: none"> • getOppositeWindow 	Window
WindowStateListener	windowStateChanged	WindowEvent <ul style="list-style-type: none"> • getOldState • getNewState 	Window