SWING/AWT CHEAT SHEET

java.awt

Component
Color
Container
«interface» LayoutManager — GridLayout
Window
FlowLayout   BorderLayout
Frame

java.awt.event

ActionEvent
«interface» ActionListener

javax.swing

JFrame   BoxLayout   JComponent   AbstractButton   «interface» Icon
JButton   JMenuItem
JTextComponent
ImageIcon
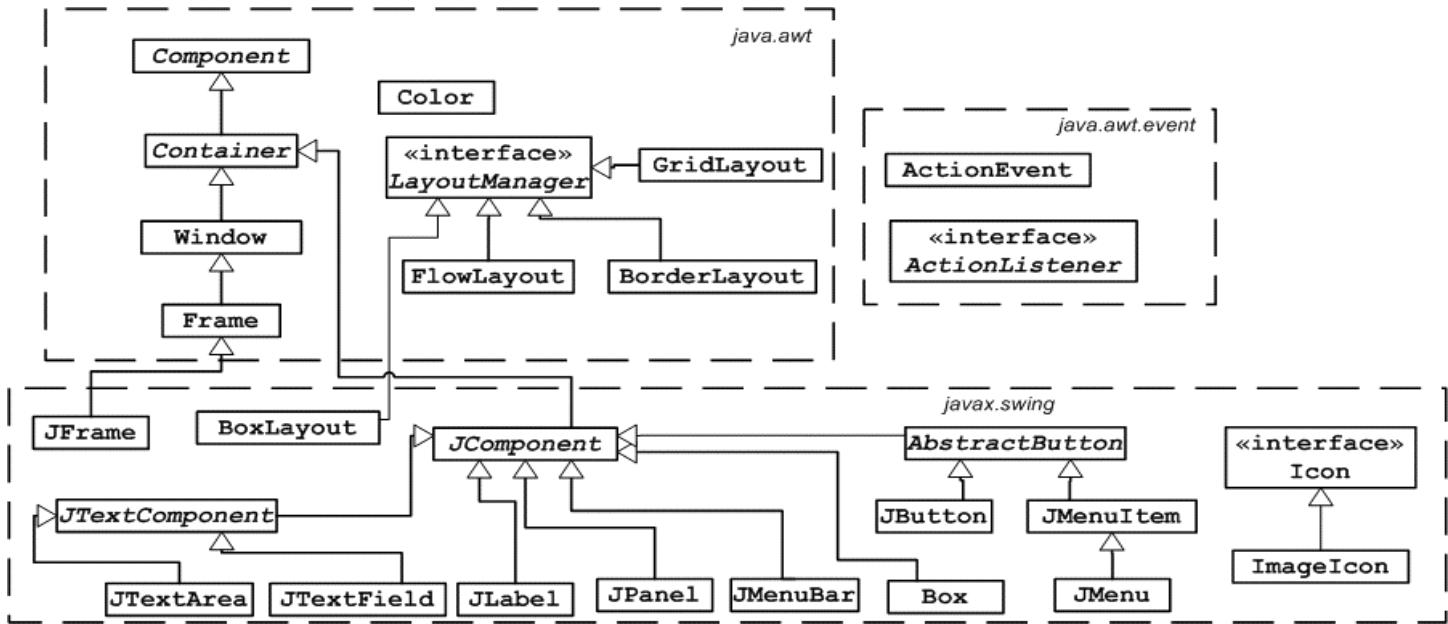JTextArea   JTextField   JLabel   JPanel   JMenuBar   Box   JMenu

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abstract class AbstractButton
```
void addActionListener(ActionListener l)
Icon getIcon()
String getText()
void setIcon(Icon defaultIcon)
void setIconTextGap(int iconTextGap)
void setText(String text)
```

class ActionEvent
```
Object getSource()
String getActionCommand()
```

interface ActionListener
```
void actionPerformed(ActionEvent e)
```

class BorderLayout
constants: CENTER, EAST, NORTH, SOUTH, WEST
constructors:
```
      BorderLayout()
      BorderLayout(int hgap, int vgap)
void setHgap(int hgap)
void setVgap(int vgap)
```

class Box
```
static Box createHorizontalBox()
static Box createVerticalBox()
```

class BoxLayout *(optional)*
constants: X_AXIS, Y_AXIS
constructors:
```
public BoxLayout(Container target,
                 int axis)
```

class Color
constants: black, blue, cyan, darkGray, gray,
      green, lightGray, magenta, orange,
      pink, red, white, yellow
constructor:
```
      Color(int red, int green, int blue)
```

abstract class Component
```
Color getBackground()
Font getFont()
Color getForeground()
int getHeight()
int getWidth()
void repaint()
void addMouseListener( MouseListener l )
void setBackground(Color c)
void setEnabled(boolean b)
void setFont(Font f)
void setForeground(Color c)
void setSize(int width, int height)
void setVisible(boolean b)
```

abstract class Container
```
Component add(Component comp) // ignore result
Component add(Component comp, int index)
// second form for BorderLayout, use constants
void remove(Component comp)
void remove(int index)
void setLayout(LayoutManager manager)
```

class FlowLayout
constants: CENTER, LEFT, RIGHT
constructors:
```
      FlowLayout()
      FlowLayout(int align)
      FlowLayout(int align, int hgap,
                 int vgap)
void setAlignment(int align)
void setHgap(int hgap)
void setVgap(int vgap)
```

class Font
constants: BOLD, ITALIC, PLAIN
constructor:
```
      Font(String name, int style,
           int size)
```
standard font names:
      "Serif", "SansSerif", "Monospaced"

class Frame
void setTitle(String title)
void setMenuBar(MenuBar mb)

class GridLayout
constructors:
      GridLayout(int rows, int cols)
      GridLayout(int rows, int cols,
              int hgap, int vgap)
void setHgap(int hgap)
void setVgap(int vgap)

class ImageIcon
constructor:
      ImageIcon(String filename)

class JButton
constructors:
      JButton()
      JButton(String text)
      JButton(Icon icon)
      JButton(String text, Icon icon)

abstract class JComponent
void setActionCommand(
      String actionCommand)
void setPreferredSize(Dimension preferredSize)
  // use new Dimension(width, height)

class JDialog *(optional)*
contains most methods used with JFrame plus:
void setModal(boolean b)

class JFrame
constructors:
      JFrame()
      JFrame(String title)
Container getContentPane()
void setContentPane(Container c);
void setBounds(int x, int y,
             int width, int height)
void setDefaultCloseOperation(int operation)
  operation = EXIT_ON_CLOSE to exit program
      when frame is closed
void setJMenuBar(JMenuBar menubar)

class JLabel
constants: LEFT, CENTER, RIGHT
constructors:
      JLabel()
      JLabel(String text)
      JLabel(String text,
          int horizontalAlignment)
      JLabel(Icon image)
      JLabel(String text, Icon icon,
          int horizontalAlignment)
Icon getIcon()
String getText()
void setHorizontalAlignment(int alignment)
void setIcon(Icon icon)
void setText(Sting text)

class MouseEvent
(returns X and Y position of mouse when mouse event occurs)
int getX( )
int getY( )

interface MouseListener
void mouseClicked(MouseEvent e)
void mouseEntered(MouseEvent e)
void mouseExited (MouseEvent e)
void mousePressed(MouseEvent e)
void mouseReleased(MouseEvent e)

class MouseAdapter
(Implements all methods in MouseListener)

class JMenu
constructors:
      JMenu()
      JMenu(String text)
Component add(Component c) //may ignore result
void addSeparator()
void remove(Component c)

class JMenuBar
constructor:
      JMenuBar()
JMenu add(JMenu c) //may ignore result

class JMenuItem
constructors:
      JMenuItem()
      JMenuItem(String text)
      JMenuItem(String text, int mnemonic)
      JMenuItem(Icon icon)
      JMenuItem(String text, Icon icon)

class JPanel
constructors:
      JPanel()
      JPanel(LayoutManager layout)

class JTextArea
constructors:
      JTextArea()
      JTextArea(int rows, int columns)
      JTextArea(String text)
      JTextArea(String text, int rows,
           int columns)
void append(String str)
void setLineWrap(boolean wrap)

abstract class JTextComponent
String getText()
void setEditable(boolean b)
void setText(String t)

class JTextField
constants: LEFT, CENTER, RIGHT
constructors:
      JTextField()
      JTextField(int columns)
      JTextField(String text)
      JTextField(String text, int columns)
void setHorizontalAlignment(int alignment)

interface LayoutManager
methods for internal use when implementing layout managers, not for normal users

class Window
void addWindowListener(WindowListener l)
void pack()