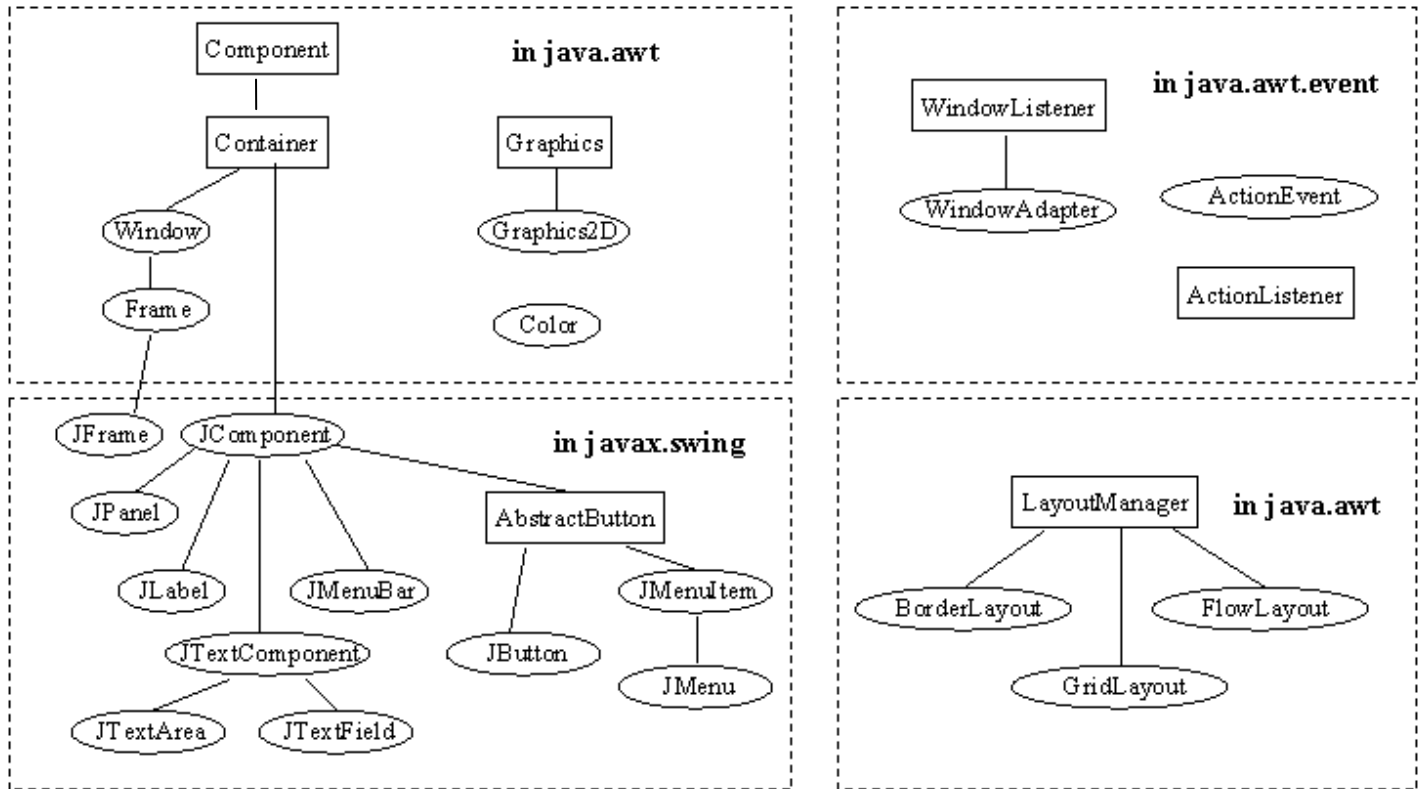


SWING/AWT CHEAT SHEET

CISC 124, fall 2002



abstract class AbstractButton

```

void addActionListener(ActionListener l)
String getText()
void setText(String text)

```

class ActionEvent

```

Object getSource()

```

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 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 paint(Graphics g) // user may override
void repaint() // don't override; calls paint
void setBackground(Color c)
void setEnabled(boolean b)
void setFont(Font f)
void setForeground(Color c)
void setVisible(boolean b)

```

abstract class Container

```

Component add(Component comp) // ignore result
Component add(Component comp, int index)
// second form for BorderLayout

```

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
setTitle(String title)

abstract class Graphics
// angles: 0 degrees is 3 o'clock
// positive distances are counter-clockwise
void drawLine(int x1, int y1, int x2, int y2)
void drawArc(int x, int y, int width,
             int height, int startAngle,
             int arcAngle)
void drawOval(int x, int y, int width,
             int height)
void drawRect(int x, int y, int width,
             int height)
void drawString(String str, int x, int y)
void fillArc(int x, int y, int width,
            int height, int startAngle,
            int arcAngle)
void fillOval(int x, int y, int width,
            int height)
Color getColor()
Font getFont()
void setColor(Color c)
void setFont(Font f)

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 JButton
constructors:
    JButton()
    JButton(String text)

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

class JFrame
constructors:
    JFrame()
    JFrame(String title)
Container getContentPane()
void setJMenuBar(JMenuBar menubar)
void setLayout(LayoutManager manager)
void setBounds(int x, int y,
               int width, int height)

class JLabel
constants: LEFT, CENTER, RIGHT
constructors:
    JLabel()
    JLabel(String text)
    JLabel(String text,
           int horizontalAlignment)
String getText()
void setHorizontalAlignment(int alignment)

```

```

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

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()

class WindowAdapter
implements all methods from WindowListener
with empty bodies
constructor:
    WindowAdapter()

interface WindowListener
in java.awt.event
void windowActivated(WindowEvent e)
void windowClosed(WindowEvent e)
void windowClosing(WindowEvent e)
void windowDeactivated(WindowEvent e)
void windowDeiconified(WindowEvent e)
void windowIconified(WindowEvent e)
void windowOpened(WindowEvent e)

```