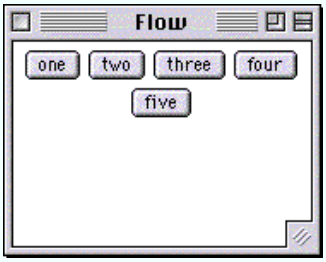
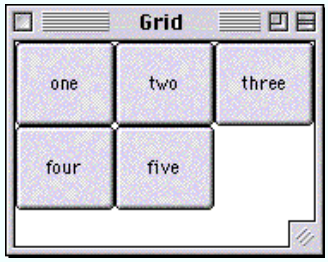


LayoutManager

Collectors
- void addLayoutComponent (String name, Component comp)
- void removeLayoutComponent (Component comp)

Other Public Methods
- void layoutContainer (Container parent)
- Dimension minimumLayoutSize (Container parent)
- Dimension preferredLayoutSize (Container parent)



Serializable

FlowLayout

FlowLayout ()
FlowLayout (int align)
FlowLayout (int align, int hgap, int vgap)

Accessors
- int get / setAlignment ()
- int get / setHgap ()
- int get / setVgap ()

Object
- String toString ()

int LEFT, CENTER, RIGHT, LEADING, TRAILING

LayoutManager2

Accessors + Collectors
- float getLayoutAlignmentX (Container target)
- float getLayoutAlignmentY (Container target)
- void addLayoutComponent (Component comp, Object constraints)

Other Public Methods
- void invalidateLayout (Container target)
- Dimension maximumLayoutSize (Container target)

Serializable

GridLayout

GridLayout ()
GridLayout (int rows, int cols)
GridLayout (int rows, int cols, int hgap, int vgap)

Accessors
- int get / setColumns ()
- int get / setHgap ()
- int get / setRows ()
- int get / setVgap ()

Object
- String toString ()

Serializable

CardLayout

CardLayout ()
CardLayout (int hgap, int vgap)

Accessors
- int get / setHgap ()
- int get / setVgap ()

Object
- String toString ()

Other Public Methods
- void first (Container parent)
- void last (Container parent)
- void next (Container parent)
- void previous (Container parent)
- void show (Container parent, String name)

Serializable

GridBagLayout

GridBagLayout ()

Accessors
- GridBagConstraints get / setConstraints (Component comp)
- int[][] getLayoutDimensions ()
- # GridBagLayoutInfo getLayoutInfo (Container parent, int sizeflag)
- Point getLayoutOrigin ()
- double[][] getLayoutWeights ()
- # Dimension getMinSize (Container parent, GridBagLayoutInfo info)

Object
- String toString ()

Other Methods
- Point location (int x, int y)
- # void AdjustForGravity (GridBagConstraints constraints, Rectangle r)
- # void ArrangeGrid (Container parent)
- # GridBagLayoutInfo GetLayoutInfo (Container parent, int sizeflag)
- # Dimension GetMinSize (Container parent, GridBagLayoutInfo info)
- # void adjustForGravity (GridBagConstraints constraints, Rectangle r)
- # void arrangeGrid (Container parent)
- # GridBagConstraints lookupConstraints (Component comp)

int[] columnWidths, rowHeights
double[] columnWeights, rowWeights

Serializable

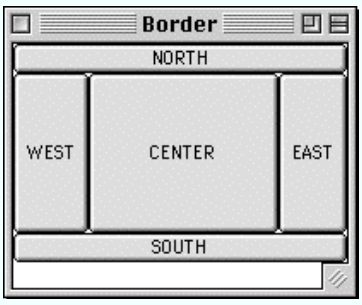
BorderLayout

BorderLayout ()
BorderLayout (int hgap, int vgap)

Accessors
- int get / setHgap ()
- int get / setVgap ()

Object
- String toString ()

String NORTH, SOUTH, EAST, WEST, CENTER, BEFORE_FIRST_LINE, AFTER_LAST_LINE, BEFORE_LINE_BEGINS, AFTER_LINE_ENDS, PAGE_START, PAGE_END, LINE_START, LINE_END



javax.swing. SpringLayout

SpringLayout ()

- Spring getConstraint (String edgeName, Component c)
- Constraints getConstraints (Component c)
- void putConstraint (String e1, Component c1, int pad, String e2, Component c2)
- void putConstraint (String e1, Component c1, Spring s, String e2, Component c2)

String NORTH, SOUTH, EAST, WEST

class **Constraints**

Serializable

javax.swing. BoxLayout

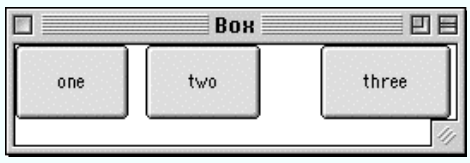
BoxLayout (Container target, int axis)

int X_AXIS, Y_AXIS, LINE_AXIS, PAGE_AXIS

Serializable

javax.swing. OverlayLayout

OverlayLayout (Container target)



java.awt.*
LayoutManager

LayoutManager and LayoutManager2 implementing methods are hidden.

Cloneable

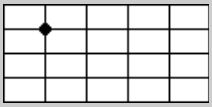
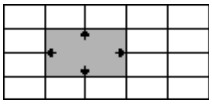
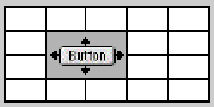
Serializable

GridBagConstraints

GridBagConstraints ()
GridBagConstraints (int gridx, int gridy, int gridwidth, int gridheight, double weightx, double weighty, int anchor, int fill, Insets insets, int ipadx, int ipady)

Object clone ()

int RELATIVE, REMAINDER, NONE, BOTH, HORIZONTAL, VERTICAL, CENTER, NORTH, NORTHEAST, EAST, SOUTHEAST, SOUTH, SOUTHWEST, WEST, NORTHWEST, PAGE_START, PAGE_END, LINE_START, LINE_END, FIRST_LINE_START, FIRST_LINE_END, LAST_LINE_START, LAST_LINE_END
int gridx, gridy, gridwidth, gridheight, anchor, fill, ipadx, ipady
double weightx, weighty
Insets insets

	Field	Default	Values
 Cell Position	int gridx	RELATIVE	0, 1, 2,..., RELATIVE (= next to last Component)
	int gridy	RELATIVE	
 Cell Size	int gridwidth	1	0, 1, 2 ,..., RELATIVE (= to end -1), REMAINDER (= to end)
	int gridheight	1	
	double weightx	0.	[0., ...]
	double weighty	0.	[0., ...]
	Insets insets	Insets (0, 0, 0, 0)	all Insets
 Comp Layout	int anchor	CENTER	NORTHWEST, NORTH, NORTHEAST, WEST, CENTER, EAST, SOUTHWEST, SOUTH, SOUTHEAST
	int fill	NONE	NONE, HORIZONTAL, VERTICAL, BOTH
	int ipadx	0	int
	int ipady	0	int

javax.swing. SpringLayout.Constraints

Constraints ()
Constraints (Spring x, Spring y)
Constraints (Spring x, Spring y, Spring width, Spring height)

Spring get / setConstraint (String edgeName)
Spring get / setHeight ()
Spring get / setWidth ()
Spring get / setX ()
Spring get / setY ()

javax.swing. *Spring*

Spring ()

Static Methods
Spring **constant** (int pref)
Spring **constant** (int min, int pref, int max)
Spring **max** (Spring s1, Spring s2)
Spring **minus** (Spring s)
Spring **sum** (Spring s1, Spring s2)
Accessors
int getMaximumValue ()
int getMinimumValue ()
int getPreferredValue ()
int get / setValue ()

int UNSET