

## Ctrl-shift-F1 in Swing Applications

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To see the hierarchy of a components in a swing application, one nice way is to type ctrl-shift-F1. Typing ctrl-shift-F1 displays the GUI hierarchy shown below:

```
javax.swing.JFrame[frame0,100,100,297x436,invalid,layout=java.awt.BorderLayout,title=JTree
Demo,resizable,normal,defaultCloseOperation=EXIT_ON_CLOSE,rootPane=javax.swing.JRootPane[,4,23,289x409,invalid,layout=javax.swing.JRootPane$RootLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777673,maximumSize=,minimumSize=,preferredSize=],rootPaneCheckingEnabled=true]
javax.swing.JRootPane[,4,23,289x409,invalid,layout=javax.swing.JRootPane$RootLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777673,maximumSize=,minimumSize=,preferredSize=]
```

```
javax.swing.JPanel[null.glassPane,0,0,289x409,hidden,layout=java.awt.FlowLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777217,maximumSize=,minimumSize=,preferredSize=]
```

```
javax.swing.JLayeredPane[null.layeredPane,0,0,289x409,invalid,alignmentX=0.0,alignmentY=0.0,border=,flags=0,maximumSize=,minimumSize=,preferredSize=,optimizedDrawingPossible=true]
```

```
javax.swing.JPanel[null.contentPane,0,0,289x409,invalid,layout=javax.swing.JRootPane$1,alignmentX=0.0,alignmentY=0.0,border=,flags=9,maximumSize=,minimumSize=,preferredSize=]
```

```
javax.swing.JPanel[,0,0,289x379,invalid,layout=java.awt.BorderLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=9,maximumSize=,minimumSize=,preferredSize=]
```

```
javax.swing.JScrollPane[,0,0,289x379,invalid,layout=javax.swing.ScrollPaneLayout$UIResource,alignmentX=0.0,alignmentY=0.0,border=javax.swing.plaf.metal.MetalBorders$ScrollPaneBorder@13f991,flags=16777544,maximumSize=,minimumSize=java.awt.Dimension[width=200,height=300],preferredSize=,columnHeader=javax.swing.JViewport[,1,1,271x16,invalid,layout=javax.swing.ViewportLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777224,maximumSize=,minimumSize=,preferredSize=,isViewSizeSet=true,lastPaintPosition=java.awt.Point[x=0,y=0],scrollUnderway=false],horizontalScrollBar=javax.swing.JScrollPane$ScrollBar[,0,0,0x0,hidden,layout=javax.swing.plaf.metal.MetalScrollBarUI,alignmentX=0.0,alignmentY=0.0,border=,flags=4194632,maximumSize=,minimumSize=,preferredSize=,blockIncrement=10,orientation=HORIZONTAL,unitIncrement=1],horizontalScrollBarPolicy=HORIZONTAL_SCROLLBAR_AS_NEEDED,lowerLeft=,lowerRight=,rowHeader=,upperLeft=,upperRight=javax.swing.JButton[,272,1,15x16,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=296,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=false,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=test,defaultCapable=true],verticalScrollBar=javax.swing.JScrollPane$ScrollBar[,272,17,15x360,layout=javax.swing.plaf.metal.MetalScrollBarUI,alignmentX=0.0,alignmentY=0.0,border=,flags=4194632,maximumSize=,minimumSize=,preferredSize=,blockIncrement=10,orientation=VERTICAL,unitIncrement=1],verticalScrollBarPolicy=VERTICAL_SCROLLBAR_ALWAYS,viewport=javax.swing.JViewport[,1,17,271x360,invalid,layout=javax.swing.ViewportLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777224,maximumSize=,minimumSize=,preferredSize=,isViewSizeSet=true,lastPaintPosition=java.awt.Point[x=0,y=0],scrollUnderway=false],viewportBorder=]
```

```
javax.swing.JViewport[,1,17,271x360,invalid,layout=javax.swing.ViewportLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777224,maximumSize=,minimumSize=,preferredSize=,isViewSizeSet=true,lastPaintPosition=java.awt.Point[x=0,y=0],scrollUnderway=false]
```

```
javax.swing.JTree[,0,0,271x360,alignmentX=0.0,alignmentY=0.0,border=,flags=16777576,maximumSize=,minimumSize=,preferredSize=,editable=false,invokesStopCellEditing=false,largeModel=false,rootVisible=true,rowHeight=0,scrollsOnExpand=true,showsRootHandles=false,toggleClickCount=2,visibleRowCount=20]
javax.swing.CellRendererPane[,0,0,0x0,hidden]
```

```
javax.swing.JScrollPane$ScrollBar[,272,17,15x360,layout=javax.swing.plaf.metal.MetalScrollBarUI,alignmentX=0.0,alignmentY=0.0,border=,flags=4194632,maximumSize=,minimumSize=,preferredSize=,blockIncrement=10,orientation=VERTICAL,unitIncrement=1]
```

```
javax.swing.plaf.metal.MetalScrollButton[,0,345,15x15,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=4194600,maximumSize=,minimumSize=,preferredSize=,defaultIcon=]
```

```
con=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=true,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=,defaultCapable=true]
```

```
javax.swing.plaf.metal.MetalScrollbar[,0,0,15x15,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=4194600,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=true,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=,defaultCapable=true]
```

```
javax.swing.JScrollPane$Scrollbar[,0,0,0x0,hidden,layout=javax.swing.plaf.metal.MetalScrollbarUI,alignmentX=0.0,alignmentY=0.0,border=,flags=4194632,maximumSize=,minimumSize=,preferredSize=,blockIncrement=10,orientation=HORIZONTAL,unitIncrement=1]
```

```
javax.swing.plaf.metal.MetalScrollbar[,0,0,0x0,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=4194600,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=true,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=,defaultCapable=true]
```

```
javax.swing.plaf.metal.MetalScrollbar[,0,0,0x0,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=4194600,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=true,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=,defaultCapable=true]
```

```
javax.swing.JViewport[,1,1,271x16,invalid,layout=javax.swing.ViewportLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=16777224,maximumSize=,minimumSize=,preferredSize=,isViewSizeSet=true,lastPaintPosition=java.awt.Point[x=0,y=0],scrollUnderway=false]
```

```
javax.swing.JLabel[,0,0,271x16,alignmentX=0.0,alignmentY=0.0,border=,flags=8388608,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,horizontalAlignment=LEADING,horizontalTextPosition=TRAILING,iconTextGap=4,labelFor=,text=test,verticalAlignment=CENTER,verticalTextPosition=CENTER]
```

```
javax.swing.JButton[,272,1,15x16,alignmentX=0.0,alignmentY=0.5,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@32efa7,flags=296,maximumSize=,minimumSize=,preferredSize=,defaultIcon=,disabledIcon=,disabledSelectedIcon=,margin=javax.swing.plaf.InsetsUIResource[top=2,left=14,bottom=2,right=14],paintBorder=true,paintFocus=false,pressedIcon=,rolloverEnabled=true,rolloverIcon=,rolloverSelectedIcon=,selectedIcon=,text=test,defaultCapable=true]
```

```
javax.swing.JPanel[,0,379,289x30,layout=java.awt.FlowLayout,alignmentX=0.0,alignmentY=0.0,border=,flags=9,maximumSize=,minimumSize=,preferredSize=]
```

```
javax.swing.JTextField[,5,5,279x20,layout=javax.swing.plaf.basic.BasicTextUI$UpdateHandler,alignmentX=0.0,alignmentY=0.0,border=javax.swing.plaf.BorderUIResource$CompoundBorderUIResource@e06940,flags=296,maximumSize=,minimumSize=,preferredSize=,caretColor=sun.swing.PrintColorUIResource[r=51,g=51,b=51],disabledTextColor=javax.swing.plaf.ColorUIResource[r=184,g=207,b=229],editable=true,margin=javax.swing.plaf.InsetsUIResource[top=0,left=0,bottom=0,right=0],selectedTextColor=sun.swing.PrintColorUIResource[r=51,g=51,b=51],selectionColor=javax.swing.plaf.ColorUIResource[r=184,g=207,b=229],columns=25,columnWidth=11,command=,horizontalAlignment=LEADING]
```