

Spectro

Class ImageDisplay

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      java.awt.Window
        java.awt.Frame
          javax.swing.JFrame
            Spectro.ImageDisplay
```

All Implemented Interfaces:

[java.awt.image.ImageObserver](#), [java.awt.MenuContainer](#), [java.io.Serializable](#), [javax.accessibility.Accessible](#), [javax.swing.RootPaneContainer](#), [javax.swing.WindowConstants](#)

```
public class ImageDisplay
  extends javax.swing.JFrame
```

display the student interface

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JFrame

[javax.swing.JFrame.AccessibleJFrame](#)

Nested classes/interfaces inherited from class java.awt.Frame

[java.awt.Frame.AccessibleAWTFrame](#)

Nested classes/interfaces inherited from class java.awt.Window

[java.awt.Window.AccessibleAWTWindow](#), [java.awt.Window.Type](#)

Nested classes/interfaces inherited from class java.awt.Container

[java.awt.Container.AccessibleAWTContainer](#)

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior,
java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy
```

Field Summary

Fields inherited from class javax.swing.JFrame

```
accessibleContext, EXIT_ON_CLOSE, rootPane, rootPaneCheckingEnabled
```

Fields inherited from class java.awt.Frame

```
CROSSHAIR_CURSOR, DEFAULT_CURSOR, E_RESIZE_CURSOR, HAND_CURSOR, ICONIFIED,
MAXIMIZED_BOTH, MAXIMIZED_HORIZ, MAXIMIZED_VERT, MOVE_CURSOR, N_RESIZE_CURSOR,
NE_RESIZE_CURSOR, NORMAL, NW_RESIZE_CURSOR, S_RESIZE_CURSOR, SE_RESIZE_CURSOR,
SW_RESIZE_CURSOR, TEXT_CURSOR, W_RESIZE_CURSOR, WAIT_CURSOR
```

Fields inherited from class java.awt.Component

```
BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT
```

Fields inherited from interface javax.swing.WindowConstants

```
DISPOSE_ON_CLOSE, DO_NOTHING_ON_CLOSE, HIDE_ON_CLOSE
```

Fields inherited from interface java.awt.image.ImageObserver

```
ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH
```

Constructor Summary

Constructors

Constructor and Description

```
ImageDisplay()
```

Display the student interface

Method Summary

Methods

Modifier and Type	Method and Description
double	<code>reader()</code>

```
static void      runStudentGUI ()
```

Methods inherited from class javax.swing.JFrame

```
addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane,
getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane,
getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated,
isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint,
setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane,
setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane,
setRootPaneCheckingEnabled, setTransferHandler, update
```

Methods inherited from class java.awt.Frame

```
addNotify, getCursorType, getExtendedState, getFrames, getIconImage,
getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove,
removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds,
setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated
```

Methods inherited from class java.awt.Window

```
addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener,
addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle,
createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy,
getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner,
getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale,
getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner,
getOwnerlessWindows, getShape, getToolkit, getType, getWarningString,
getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide,
isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow,
isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidRoot,
pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent,
removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape,
setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor,
setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation,
setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType,
setSize, setSize, setType, setVisible, show, toBack, toFront
```

Methods inherited from class java.awt.Container

```
add, add, add, add, add, addContainerListener, applyComponentOrientation,
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt,
findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt,
getComponentAt, getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize,
getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf,
isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout,
list, list, locate, minimumSize, paintComponents, preferredSize, print,
printComponents, processContainerEvent, remove, removeAll, removeContainerListener,
setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy,
setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate,
validateTree
```

Methods inherited from class java.awt.Component

```
action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener,
```

addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListener, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, processComponentEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Methods inherited from interface java.awt.MenuContainer

getFont, postEvent

Constructor Detail

ImageDisplay

```
public ImageDisplay()
```

Display the student interface

Method Detail

reader

```
public double reader()
```

Returns:

the value of selected test tube

runStudentGUI

```
public static void runStudentGUI()
```

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