

Package `me.miles.matthew.spaceflight.UI`

Class SpaceView

`java.lang.Object`
`java.awt.Component`
`java.awt.Container`
`javax.swing.JComponent`
`javax.swing.JPanel`
`me.miles.matthew.spaceflight.UI.SpaceView`

All Implemented Interfaces:

`java.awt.event.ActionListener`, `java.awt.event.KeyListener`, `java.awt.event.MouseListener`, `java.awt.event.MouseWheelListener`, `java.awt.image.ImageObserver`, `java.awt.MenuContainer`, `java.io.Serializable`, `java.util.EventListener`, `javax.accessibility.Accessible`

```
public class SpaceView
extends javax.swing.JPanel
implements java.awt.event.MouseListener, java.awt.event.MouseWheelListener, java.awt.event.ActionListener, java.awt.event.KeyListener
```

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class `javax.swing.JComponent`

`javax.swing.JComponent.AccessibleJComponent`

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

`java.awt.Component.BaselineResizeBehavior`

Field Summary

Fields inherited from class `javax.swing.JComponent`

`TOOL_TIP_TEXT_KEY`, `UNDEFINED_CONDITION`, `WHEN_ANCESTOR_OF_FOCUSED_COMPONENT`, `WHEN_FOCUSED`, `WHEN_IN_FOCUSED_WINDOW`

Fields inherited from class `java.awt.Component`

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

Fields inherited from interface `java.awt.image.ImageObserver`

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

Constructor Summary

Constructors

Constructor	Description
<code>SpaceView(SpaceEnvironment space)</code>	

Method Summary

All Methods	Instance Methods	Concrete Methods	
Modifier and Type	Method		Description
<code>void</code>	<code>actionPerformed(java.awt.event.ActionEvent ae)</code>		
<code>void</code>	<code>goTo(PhysicsObject obj)</code>		Sets the camera to follow a given PhysicsObject.
<code>void</code>	<code>keyPressed(java.awt.event.KeyEvent arg0)</code>		
<code>void</code>	<code>keyReleased(java.awt.event.KeyEvent e)</code>		
<code>void</code>	<code>keyTyped(java.awt.event.KeyEvent e)</code>		
<code>void</code>	<code>mouseClicked(java.awt.event.MouseEvent me)</code>		
<code>void</code>	<code>mouseEntered(java.awt.event.MouseEvent me)</code>		
<code>void</code>	<code>mouseExited(java.awt.event.MouseEvent me)</code>		

Modifier and Type	Method	Description
void	mousePressed (java.awt.event.MouseEvent me)	
void	mouseReleased (java.awt.event.MouseEvent me)	
void	mouseWheelMoved (java.awt.event.MouseWheelEvent mwe)	
void	paintComponent (java.awt.Graphics g)	
void	refresh ()	Refreshes the view
void	setFocus (CelestialBody focus)	Sets the focus of the camera to the given CelestialBody.

Methods inherited from class javax.swing.JPanel

[getAccessibleContext](#), [getUI](#), [getUIClassID](#), [setUI](#), [updateUI](#)

Methods inherited from class javax.swing.JComponent

[addAncestorListener](#), [addNotify](#), [addVetoableChangeListener](#), [computeVisibleRect](#), [contains](#), [createToolTip](#), [disable](#), [enable](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getActionForKeyStroke](#), [getActionMap](#), [getAlignmentX](#), [getAlignmentY](#), [getAncestorListeners](#), [getAutoscrolls](#), [getBaseline](#), [getBaselineResizeBehavior](#), [getBorder](#), [getBounds](#), [getClientProperty](#), [getComponentPopupMenu](#), [getConditionForKeyStroke](#), [getDebugGraphicsOptions](#), [getDefaultLocale](#), [getFontMetrics](#), [getGraphics](#), [getHeight](#), [getInheritsPopupMenu](#), [getInputMap](#), [getInputMap](#), [getInputVerifier](#), [getInsets](#), [getInsets](#), [getListeners](#), [getLocation](#), [getMaximumSize](#), [getMinimumSize](#), [getNextFocusableComponent](#), [getPopupLocation](#), [getPreferredSize](#), [getRegisteredKeyStrokes](#), [getRootPane](#), [getSize](#), [getToolTipLocation](#), [getToolTipText](#), [getToolTipText](#), [getTopLevelAncestor](#), [getTransferHandler](#), [getVerifyInputWhenFocusTarget](#), [getVetoableChangeListeners](#), [getVisibleRect](#), [getWidth](#), [getX](#), [getY](#), [grabFocus](#), [hide](#), [isDoubleBuffered](#), [isLightweightComponent](#), [isManagingFocus](#), [isOpaque](#), [isOptimizedDrawingEnabled](#), [isPaintingForPrint](#), [isPaintingTile](#), [isRequestFocusEnabled](#), [isValidateRoot](#), [paint](#), [paintImmediately](#), [paintImmediately](#), [print](#), [printAll](#), [putClientProperty](#), [registerKeyboardAction](#), [registerKeyboardAction](#), [removeAncestorListener](#), [removeNotify](#), [removeVetoableChangeListener](#), [repaint](#), [repaint](#), [requestDefaultFocus](#), [requestFocus](#), [requestFocus](#), [requestFocusInWindow](#), [resetKeyboardActions](#), [reshape](#), [revalidate](#), [scrollRectToVisible](#), [setActionMap](#), [setAlignmentX](#), [setAlignmentY](#), [setAutoscrolls](#), [setBackground](#), [setBorder](#), [setComponentPopupMenu](#), [setDebugGraphicsOptions](#), [setDefaultLocale](#), [setDoubleBuffered](#), [setEnabled](#), [setFocusTraversalKeys](#), [setFont](#), [setForeground](#), [setInheritsPopupMenu](#), [setInputMap](#), [setInputVerifier](#), [setMaximumSize](#), [setMinimumSize](#), [setNextFocusableComponent](#), [setOpaque](#), [setPreferredSize](#), [setRequestFocusEnabled](#), [setToolTipText](#), [setTransferHandler](#), [setVerifyInputWhenFocusTarget](#), [setVisible](#), [unregisterKeyboardAction](#), [update](#)

Methods inherited from class java.awt.Container

[add](#), [add](#), [add](#), [add](#), [add](#), [addContainerListener](#), [addPropertyChangeListener](#), [addPropertyChangeListener](#), [applyComponentOrientation](#), [areFocusTraversalKeysSet](#), [countComponents](#), [deliverEvent](#), [doLayout](#), [findComponentAt](#), [findComponentAt](#), [getComponent](#), [getComponentAt](#), [getComponentAt](#), [getComponentCount](#), [getComponents](#), [getComponentZOrder](#), [getContainerListeners](#), [getFocusTraversalKeys](#), [getFocusTraversalPolicy](#), [getLayout](#), [getMousePosition](#), [insets](#), [invalidate](#), [isAncestorOf](#), [isFocusCycleRoot](#), [isFocusCycleRoot](#), [isFocusTraversalPolicyProvider](#), [isFocusTraversalPolicySet](#), [layout](#), [list](#), [list](#), [locate](#), [minimumSize](#), [paintComponents](#), [preferredSize](#), [printComponents](#), [remove](#), [remove](#), [removeAll](#), [removeContainerListener](#), [setComponentZOrder](#), [setFocusCycleRoot](#), [setFocusTraversalPolicy](#), [setFocusTraversalPolicyProvider](#), [setLayout](#), [transferFocusDownCycle](#), [validate](#)

Methods inherited from class java.awt.Component

[action](#), [add](#), [addComponentListener](#), [addFocusListener](#), [addHierarchyBoundsListener](#), [addHierarchyListener](#), [addInputMethodListener](#), [addKeyListener](#), [addMouseListener](#), [addMouseMotionListener](#), [addMouseWheelListener](#), [bounds](#), [checkImage](#), [checkImage](#), [contains](#), [createImage](#), [createImage](#), [createVolatileImage](#), [createVolatileImage](#), [dispatchEvent](#), [enable](#), [enableInputMethods](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getBackground](#), [getBounds](#), [getColorModel](#), [getComponentListeners](#), [getComponentOrientation](#), [getCursor](#), [getDropTarget](#), [getFocusCycleRootAncestor](#), [getFocusListeners](#), [getFocusTraversalKeysEnabled](#), [getFont](#), [getForeground](#), [getGraphicsConfiguration](#), [getHierarchyBoundsListeners](#), [getHierarchyListeners](#), [getIgnoreRepaint](#), [getInputContext](#), [getInputMethodListeners](#), [getInputMethodRequests](#), [getKeyListeners](#), [getLocale](#), [getLocation](#), [getLocationOnScreen](#), [getMouseListeners](#), [getMouseMotionListeners](#), [getMousePosition](#), [getMouseWheelListeners](#), [getName](#), [getParent](#), [getPropertyChangeListeners](#), [getPropertyChangeListeners](#), [getSize](#), [getToolkit](#), [getTreeLock](#), [gotFocus](#), [handleEvent](#), [hasFocus](#), [imageUpdate](#), [inside](#), [isBackgroundSet](#), [isCursorSet](#), [isDisplayable](#), [isEnabled](#), [isFocusable](#), [isFocusOwner](#), [isFocusTraversable](#), [isFontSet](#), [isForegroundSet](#), [isLightweight](#), [isMaximumSizeSet](#), [isMinimumSizeSet](#), [isPreferredSizeSet](#), [isShowing](#), [isValid](#), [isVisible](#), [keyDown](#), [keyUp](#), [list](#), [list](#), [list](#), [location](#), [lostFocus](#), [mouseDown](#), [mouseDrag](#), [mouseEnter](#), [mouseExit](#), [mouseMove](#), [mouseUp](#), [move](#), [nextFocus](#), [paintAll](#), [postEvent](#), [prepareImage](#), [prepareImage](#), [remove](#), [removeComponentListener](#), [removeFocusListener](#), [removeHierarchyBoundsListener](#), [removeHierarchyListener](#), [removeInputMethodListener](#), [removeKeyListener](#), [removeMouseListener](#), [removeMouseMotionListener](#), [removeMouseWheelListener](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [repaint](#), [repaint](#), [repaint](#), [requestFocus](#), [requestFocusInWindow](#), [resize](#), [resize](#), [setBounds](#), [setBounds](#), [setComponentOrientation](#), [setCursor](#), [setDropTarget](#), [setFocusable](#), [setFocusTraversalKeysEnabled](#), [setIgnoreRepaint](#), [setLocale](#), [setLocation](#), [setLocation](#), [setMixingCutoutShape](#), [setName](#), [setSize](#), [setSize](#), [show](#), [show](#), [size](#), [toString](#), [transferFocus](#), [transferFocusBackward](#), [transferFocusUpCycle](#)

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Constructor Details

SpaceView

```
public SpaceView(SpaceEnvironment space)
```

Method Details

refresh

```
public void refresh()
```

Refreshes the view

paintComponent

```
public void paintComponent(java.awt.Graphics g)
```

actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent ae)
```

Specified by:

actionPerformed in interface `java.awt.event.ActionListener`

mouseWheelMoved

```
public void mouseWheelMoved(java.awt.event.MouseWheelEvent mwe)
```

Specified by:

mouseWheelMoved in interface `java.awt.event.MouseWheelListener`

setFocus

```
public void setFocus(CelestialBody focus)
```

Sets the focus of the camera to the given CelestialBody.

Parameters:

focus - The CelestialBody to focus on.

goTo

```
public void goTo(PhysicsObject obj)
```

Sets the camera to follow a given PhysicsObject.

Parameters:

obj - The PhysicsObject to follow.

mouseClicked

```
public void mouseClicked(java.awt.event.MouseEvent me)
```

Specified by:

mouseClicked in interface `java.awt.event.MouseListener`

mousePressed

```
public void mousePressed(java.awt.event.MouseEvent me)
```

Specified by:

mousePressed in interface `java.awt.event.MouseListener`

mouseReleased

```
public void mouseReleased(java.awt.event.MouseEvent me)
```

Specified by:

mouseReleased in interface `java.awt.event.MouseListener`

mouseEntered

```
public void mouseEntered(java.awt.event.MouseEvent me)
```

Specified by:

mouseEntered in interface `java.awt.event.MouseListener`

mouseExited

```
public void mouseExited(java.awt.event.MouseEvent me)
```

Specified by:

mouseExited in interface `java.awt.event.MouseListener`

keyPressed

```
public void keyPressed(java.awt.event.KeyEvent arg0)
```

Specified by:

keyPressed in interface `java.awt.event.KeyListener`

keyReleased

```
public void keyReleased(java.awt.event.KeyEvent e)
```

Specified by:

keyReleased in interface `java.awt.event.KeyListener`

keyTyped

```
public void keyTyped(java.awt.event.KeyEvent e)
```

Specified by:

keyTyped in interface `java.awt.event.KeyListener`