
jgsl.view.swing

Class AboutDialog

```
java.lang.Object
├─ java.awt.Component
│   └─ java.awt.Container
│       └─ java.awt.Window
│           └─ java.awt.Dialog
│               └─ javax.swing.JDialog
│                   └─ jgsl.view.swing.AboutDialog
```

All Implemented Interfaces:

java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

```
public class AboutDialog
```

```
extends javax.swing.JDialog
```

See Also:

[Serialized Form](#)

Field Summary

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, EXIT_ON_CLOSE, HIDE_ON_CLOSE

Fields inherited from interface java.awt.image.ImageObserver

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

Constructor Summary[AboutDialog](#)()**Method Summary**static void [main](#)(java.lang.String[] args)**Methods inherited from class javax.swing.JDialog**

getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getJMenuBar, getLayeredPane, getRootPane, isDefaultLookAndFeelDecorated, remove, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setJMenuBar, setLayeredPane, setLayout, update

Methods inherited from class java.awt.Dialog

addNotify, getTitle, hide, isModal, isResizable, isUndecorated, setModal, setResizable, setTitle, setUndecorated, show

Methods inherited from class java.awt.Window

addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getGraphicsConfiguration, getInputContext, getListeners, getLocale, getMostRecentFocusOwner, getOwnedWindows, getOwner, getToolkit, getWarningString, getWindowFocusListeners, getWindowListeners, getWindowStateListeners, isActive, isAlwaysOnTop, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isShowing, pack, postEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, setAlwaysOnTop, setBounds, setCursor,

```
setFocusableWindowState, setFocusCycleRoot, setLocationByPlatform,
setLocationRelativeTo, 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,
paint, paintComponents, preferredSize, print, printComponents,
remove, removeAll, removeContainerListener, removeNotify,
setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy,
setFocusTraversalPolicyProvider, setFont, transferFocusBackward,
transferFocusDownCycle, validate
```

Methods inherited from class java.awt.Component

```
action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener,
addInputMethodListener, addKeyListener, addMouseListener,
addMouseMotionListener, addMouseWheelListener, bounds, checkImage,
checkImage, contains, contains, createImage, createImage,
createVolatileImage, createVolatileImage, disable, dispatchEvent,
enable, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, firePropertyChange, getBackground, getBounds,
getBounds, getColorModel, getComponentListeners,
getComponentOrientation, getCursor, getDropTarget,
getFocusListeners, getFocusTraversalKeysEnabled, getFont,
getFontMetrics, getForeground, getGraphics, getHeight,
getHierarchyBoundsListeners, getHierarchyListeners,
getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, 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, isOpaque,
isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list,
list, location, lostFocus, mouseDown, mouseDrag, mouseEnter,
mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll,
prepareImage, prepareImage, printAll, remove,
removeComponentListener, removeFocusListener,
removeHierarchyBoundsListener, removeHierarchyListener,
removeInputMethodListener, removeKeyListener, removeMouseListener,
removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint,
repaint, repaint, repaint, requestFocus, requestFocusInWindow,
reshape, resize, resize, setBackground, setBounds,
setComponentOrientation, setDropTarget, setEnabled, setFocusable,
setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint,
setLocale, setLocation, setLocation, setMaximumSize, setMinimumSize,
setName, setPreferredSize, setSize, setSize, setVisible, show, size,
toString, transferFocus, transferFocusUpCycle
```

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Constructor Detail

AboutDialog

```
public AboutDialog()
```

Method Detail

main

```
public static void main(java.lang.String[] args)
```


jgsl.model

Class AbstractStatement

java.lang.Object

└─ jgsl.model.AbstractStatement

All Implemented Interfaces:

[Statement](#)

```
public abstract class AbstractStatement
```

extends java.lang.Object

implements [Statement](#)

Abstract base class for all Statement interface implementations.

Version:

\$Id: AbstractStatement.java,v 1.2 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[AbstractStatement](#) ()

Method Summary

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Methods inherited from interface [jgsl.model.Statement](#)

[getJava](#), [getType](#), [setJGSL](#)

Constructor Detail

AbstractStatement

```
public AbstractStatement( )
```

jgsl.model

Interface Argument

All Known Implementing Classes:

[JGSLColor](#), [JGSLLDouble](#), [JGSLInteger](#), [JGSLString](#)

```
public interface Argument
```

The name of a script argument.

Version:

\$Id: Argument.java,v 1.2 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

java. lang. String	getName () Get the name of the argument
--------------------------	---

Method Detail

getName

```
java.lang.String getName( )
```

Get the name of the argument

Returns:

String containing the name

`jgsl.model`

Class Assignment

`java.lang.Object``└─ jgsl.model.Assignment`

All Implemented Interfaces:

`java.io.Serializable`, [Statement](#)

```
public class Assignment
```

```
extends java.lang.Object
```

```
implements Statement, java.io.Serializable
```

An Assignment is a statement in which the value of one attribute is assigned to another via the "=" operator.

Version:

\$Id: Assignment.java,v 1.2 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[Assignment](#)(`java.lang.String lhs`, `java.lang.String rhs`)

Constructs an instance with the left-hand side and right-hand side arguments of the assignment statement

Method Summary

java. lang. String	<code>getJava()</code> This method returns the Java language equivalent of the JGSL statement.
java. lang. String	<code>getLhs()</code>
java. lang. String	<code>getRhs()</code>
java. lang. String	<code>getType()</code> Return the type of statement.
void	<code>setJGSL(java.lang.String jgsl)</code> Set the JGSL statement body
void	<code>setLhs(java.lang.String lhs)</code>
void	<code>setRhs(java.lang.String rhs)</code>

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

Assignment

```
public Assignment( java.lang.String lhs,
                   java.lang.String rhs)
```

Constructs an instance with the left-hand side and right-hand side arguments of the assignment statement

Parameters:

lhs - Left-hand side of the assignment

rhs - Right-hand side of the assignment

Method Detail

getJava

```
public java.lang.String getJava()
```

This method returns the Java language equivalent of the JGSL statement.

Specified by:

[getJava](#) in interface [Statement](#)

Returns:

Java language statement from the JGSL

getLhs

```
public java.lang.String getLhs()
```

getRhs

```
public java.lang.String getRhs()
```

getType

```
public java.lang.String getType()
```

Return the type of statement. The String form of the class name.

Specified by:

[getType](#) in interface [Statement](#)

setJGSL

```
public void setJGSL(java.lang.String jgsl)
```

Set the JGSL statement body

Specified by:

[setJGSL](#) in interface [Statement](#)

setLhs

```
public void setLhs(java.lang.String lhs)
```

setRhs

```
public void setRhs(java.lang.String rhs)
```

jgsl.view.swing

Class BaseFrame

java.lang.Object

└ java.awt.Component

└ java.awt.Container

└ java.awt.Window

└ java.awt.Frame

└ javax.swing.JFrame

└ **jgsl.view.swing.BaseFrame**

All Implemented Interfaces:

java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants

public class **BaseFrame**

extends javax.swing.JFrame

The BaseFrame class is used as a template to generate the JGSL compiled script class. This class is loaded by Javassist and renamed to the script name plus a package specification. The generated class is writting to the user's home directory + ".jgsl/cache" as the full path.

Version:

\$Id: BaseFrame.java,v 1.7 2005/05/21 01:42:11 zenarchitect Exp \$

Author:

Joe Chavez

See Also:

[Serialized Form](#)

Field Summary

static boolean	DEBUG
----------------	-----------------------

Fields inherited from class javax.swing.JFrame

EXIT_ON_CLOSE

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

[BaseFrame](#)()

Constructs a new frame that is initially invisible.

Method Summary

static void	main (java.lang.String[] args)
-------------	---

void	paint (java.awt.Graphics g) Paints the container.
------	---

Methods inherited from class javax.swing.JFrame

getAccessibleContext, getContentPane, getDefaultCloseOperation, getGlassPane, getJMenuBar, getLayeredPane, getRootPane, isDefaultLookAndFeelDecorated, remove, setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane, setIconImage, setJMenuBar, setLayeredPane, setLayout, update

Methods inherited from class java.awt.Frame

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

Methods inherited from class java.awt.Window

addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener, addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle, createBufferStrategy, createBufferStrategy, dispose, getBufferStrategy, getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner, getFocusTraversalKeys, getGraphicsConfiguration, getInputContext, getListeners, getLocale, getMostRecentFocusOwner, getOwnedWindows, getOwner, getToolkit, getWarningString, getWindowFocusListeners, getWindowListeners, getWindowStateListeners, hide, isActive, isAlwaysOnTop, isFocusableWindow, isFocusCycleRoot, isFocused, isLocationByPlatform, isShowing, pack, postEvent, removeWindowFocusListener, removeWindowListener, removeWindowStateListener, setAlwaysOnTop, setBounds, setCursor, setFocusableWindowState, setFocusCycleRoot, setLocationByPlatform, setLocationRelativeTo, show, toBack, toFront

Methods inherited from class java.awt.Container


```

add, 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, remove,
removeAll, removeContainerListener, setComponentZOrder,
setFocusTraversalKeys, setFocusTraversalPolicy,
setFocusTraversalPolicyProvider, setFont, transferFocusBackward,
transferFocusDownCycle, validate

```

Methods inherited from class java.awt.Component

```

action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener,
addInputMethodListener, addKeyListener, addMouseListener,
addMouseMotionListener, addMouseWheelListener, bounds, checkImage,
checkImage, contains, contains, createImage, createImage,
createVolatileImage, createVolatileImage, disable, dispatchEvent,
enable, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, firePropertyChange, getBackground, getBounds,
getBounds, getColorModel, getComponentListeners,
getComponentOrientation, getCursor, getDropTarget,
getFocusListeners, getFocusTraversalKeysEnabled, getFont,
getFontMetrics, getForeground, getGraphics, getHeight,
getHierarchyBoundsListeners, getHierarchyListeners,
getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, 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, isOpaque,
isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list,

```

```
list, location, lostFocus, mouseDown, mouseDrag, mouseEnter,
mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll,
prepareImage, prepareImage, printAll, removeComponentListener,
removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener,
removeKeyListener, removeMouseListener, removeMouseMotionListener,
removeMouseWheelListener, removePropertyChangeListener,
removePropertyChangeListener, repaint, repaint, repaint, repaint,
requestFocus, requestFocusInWindow, reshape, resize, resize,
setBackground, setBounds, setComponentOrientation, setDropTarget,
setEnabled, setFocusable, setFocusTraversalKeysEnabled,
setForeground, setIgnoreRepaint, setLocale, setLocation,
setLocation, setMaximumSize, setMinimumSize, setName,
setPreferredSize, setSize, setSize, setVisible, show, size,
toString, transferFocus, transferFocusUpCycle
```

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Methods inherited from interface java.awt.MenuContainer

```
getFont, postEvent
```

Field Detail

DEBUG

```
public static boolean DEBUG
```

Constructor Detail

BaseFrame

```
public BaseFrame()
    throws java.awt.HeadlessException
```

Constructs a new frame that is initially invisible.

This constructor sets the component's locale property to the value returned by `JComponent.getDefaultLocale`.

Throws:

`java.awt.HeadlessException` - if `GraphicsEnvironment.isHeadless()` returns true.

See Also:

`GraphicsEnvironment.isHeadless()`, `Component.setSize(int, int)`,
`Component.setVisible(boolean)`, `JComponent.getDefaultLocale()`

Method Detail

main

```
public static void main(java.lang.String[] args)
```

paint

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

Paints the container. This forwards the paint to any lightweight components that are children of this container. If this method is reimplemented, `super.paint(g)` should be called so that lightweight components are properly rendered. If a child component is entirely clipped by the current clipping setting in `g`, `paint()` will not be forwarded to that child.

Overrides:

`paint` in class `java.awt.Container`

Parameters:

`g` - the specified Graphics window

See Also:

`Component.update(java.awt.Graphics)`

jgsl.model

Class Command

java.lang.Object

└─ jgsl.model.Command

All Implemented Interfaces:

java.io.Serializable, [Statement](#)

```
public class Command
```

```
extends java.lang.Object
```

```
implements Statement, java.io.Serializable
```

A command statement is a JGSL command that performs a graphics operation.

Version:

\$Id: Command.java,v 1.3 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[Command](#)(java.lang.String name)

[Command](#)(java.lang.String name, java.util.
ArrayList<[Argument](#)> parameters)

```
Command(java.lang.String name, java.util.  
ArrayList<Argument> attributes, java.util.  
ArrayList<Argument> parameters)
```

Method Summary

java. lang. String	getJava () This method returns the Java language equivalent of the JGSL statement.
java. lang. String	getType () Return the type of statement.
void	setJGSL (java.lang.String jgsl) Set the JGSL statement body
void	setName (java.lang.String name)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

Command

```
public Command(java.lang.String name)
```

Command

```
public Command(java.lang.String name,  
                java.util.ArrayList<Argument> parameters)
```

Command

```
public Command(java.lang.String name,  
                java.util.ArrayList<Argument> attributes,  
                java.util.ArrayList<Argument> parameters)
```

Method Detail

getJava

```
public java.lang.String getJava()
```

This method returns the Java language equivalent of the JGSL statement.

Specified by:

[getJava](#) in interface [Statement](#)

Returns:

Java language statement from the JGSL

getType

```
public java.lang.String getType()
```

Return the type of statement. The String form of the class name.

Specified by:

[getType](#) in interface [Statement](#)

setJGSL

```
public void setJGSL(java.lang.String jgsl)
```

Set the JGSL statement body

Specified by:

[setJGSL](#) in interface [Statement](#)

setName

```
public void setName(java.lang.String name)
```

jgsl.model

Enum Commands

```
java.lang.Object
└─ java.lang.Enum<Commands>
    └─ jgsl.model.Commands
```

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<[Commands](#)>

```
public enum Commands

extends java.lang.Enum<Commands>
```

Enum of all possible commands and their corresponding command template and java code representation.

Version:

\$Id: Commands.java,v 1.3 2005/05/21 01:42:07 zenarchitect Exp \$

Author:

zenarchitect

Enum Constant Summary
ARC
CANVAS
CIRCLE
CLEAR
DEBUG
DRAW
ELIPSE
ERROR

LINE
LOG
POLYGON
RECTANGLE
SQUARE
TEXT
WAIT
WARNING

Method Summary	
java.lang. String	getCommandTemplate ()
java.lang. String	getFormattedCommand (java.util.ArrayList< Argument > attributes, java.util.ArrayList< Argument > parameters)
java.lang. String	getName ()
static Commands	valueOf (java.lang.String name) Returns the enum constant of this type with the specified name.
static Commands []	values () Returns an array containing the constants of this enum type, in the order they're declared.

Methods inherited from class java.lang.Enum
compareTo , equals , getDeclaringClass , hashCode , name , ordinal , toString , valueOf

Methods inherited from class java.lang.Object
getClass , notify , notifyAll , wait , wait , wait

Enum Constant Detail

```
public static final Commands ARC
```

CANVAS

```
public static final Commands CANVAS
```

CIRCLE

```
public static final Commands CIRCLE
```

CLEAR

```
public static final Commands CLEAR
```

DEBUG

```
public static final Commands DEBUG
```

DRAW

```
public static final Commands DRAW
```

ELIPSE

```
public static final Commands ELIPSE
```

ERROR

```
public static final Commands ERROR
```

LINE

```
public static final Commands LINE
```

LOG

```
public static final Commands LOG
```

POLYGON

```
public static final Commands POLYGON
```

RECTANGLE

```
public static final Commands RECTANGLE
```

SQUARE

```
public static final Commands SQUARE
```

TEXT

```
public static final Commands TEXT
```

WAIT

```
public static final Commands WAIT
```

WARNING

```
public static final Commands WARNING
```

Method Detail

getCommandTemplate

```
public java.lang.String getCommandTemplate()
```

getFormattedCommand

```
public java.lang.String getFormattedCommand(java.util.ArrayList<Argument> attributes,  
                                             java.util.ArrayList<Argument> parameters)
```

getName

```
public java.lang.String getName()
```

valueOf

```
public static Commands valueOf(java.lang.String name)
```

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

`java.lang.IllegalArgumentException` - if this enum type has no constant with the specified name

values

```
public static final Commands[] values()
```

Returns an array containing the constants of this enum type, in the order they're declared. This method may be used to iterate over the constants as follows:

```
for(Commands c : Commands.values())  
    System.out.println(c);
```

Returns:

an array containing the constants of this enum type, in the order they're declared

jgsl.model

Class Declaration

java.lang.Object

└─ jgsl.model.Declaration

All Implemented Interfaces:

java.io.Serializable, [Statement](#)

```
public class Declaration
```

```
extends java.lang.Object
```

```
implements Statement, java.io.Serializable
```

A Declaration statement is one that contains the declaration of a script variable.

Version:

\$Id: Declaration.java,v 1.2 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[Declaration](#)(java.lang.String type, java.lang.String identifier, java.lang.String value)

Create a declaration with a given type, identifier and initial value

Method Summary

java. lang. String	getJava () This method returns the Java language equivalent of the JGSL statement.
--------------------------	--

java. lang. String	getType () Return the type of statement.
void	setJGSL (java.lang.String jgsl) Set the JGSL statement body

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Declaration

```
public Declaration( java.lang.String type,
                   java.lang.String identifier,
                   java.lang.String value)
```

Create a declaration with a given type, identifier and initial value

Parameters:

type - type of the declaration
 identifier - script identifier
 value - initial value

Method Detail

getJava

```
public java.lang.String getJava()
```

This method returns the Java language equivalent of the JGSL statement.

Specified by:

[getJava](#) in interface [Statement](#)

Returns:

Java language statement from the JGSL

getType

```
public java.lang.String getType()
```

Return the type of statement. The String form of the class name.

Specified by:

[getType](#) in interface [Statement](#)

setJGSL

```
public void setJGSL(java.lang.String jgsl)
```

Set the JGSL statement body

Specified by:

[setJGSL](#) in interface [Statement](#)

`jgsl.model`

Class Documentation

`java.lang.Object``└─ jgsl.model.Documentation`

All Implemented Interfaces:

`java.io.Serializable`, [Statement](#)

```
public class Documentation
```

```
extends java.lang.Object
```

```
implements Statement, java.io.Serializable
```

A documentation statement is one that contains documentation of the JGSL script as written by the script author.

Version:

\$Id: Documentation.java,v 1.3 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

Documentation ()

Method Summary

void	addDoc (java.lang.String doc)
------	--

java. lang. String	getJava () This method returns the Java language equivalent of the JGSL statement.
java. lang. String	getType () Return the type of statement.
void	setJGSL (java.lang.String jgsl) Set the JGSL statement body

Methods inherited from class java.lang.Object
<code>equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</code>

Constructor Detail

Documentation

```
public Documentation()
```

Method Detail

addDoc

```
public void addDoc(java.lang.String doc)
```

getJava

```
public java.lang.String getJava()
```

This method returns the Java language equivalent of the JGSL statement.

Specified by:
[getJava](#) in interface [Statement](#)

Returns:

Java language statement from the JGSL

getType

```
public java.lang.String getType()
```

Return the type of statement. The String form of the class name.

Specified by:

[getType](#) in interface [Statement](#)

setJGSL

```
public void setJGSL(java.lang.String jgsl)
```

Set the JGSL statement body

Specified by:

[setJGSL](#) in interface [Statement](#)

jgsl.util

Class GifEncoder

java.lang.Object

└ [jgsl.util.ImageEncoder](#)└ **jgsl.util.GifEncoder****All Implemented Interfaces:**java.awt.image.ImageConsumer

```
public class GifEncoder
```

```
extends ImageEncoder
```

```
TODO - write java docs
```

Version:

```
$Id: GifEncoder.java,v 1.1 2005/05/21 01:42:10 zenarchitect Exp $
```

Author:

```
$Author: zenarchitect $
```

Field Summary

Fields inherited from interface java.awt.image.ImageConsumer

```
COMPLETESCANLINES, IMAGEABORTED, IMAGEERROR, RANDOMPIXELORDER,  
SINGLEFRAME, SINGLEFRAMEDONE, SINGLEPASS, STATICIMAGEDONE,  
TOPDOWNLEFTRIGHT
```

Constructor Summary

```
GifEncoder( java.awt.Image img, java.io.OutputStream out )
```

```
GifEncoder(java.awt.Image img, java.io.OutputStream out,  
boolean interlace)
```

```
GifEncoder(java.awt.image.ImageProducer prod, java.io.  
OutputStream out)
```

```
GifEncoder(java.awt.image.ImageProducer prod, java.io.  
OutputStream out, boolean interlace)
```

Method Summary

Methods inherited from class [jgsl.util.ImageEncoder](#)

[encode](#), [imageComplete](#), [setColorModel](#), [setDimensions](#), [setHints](#),
[setPixels](#), [setPixels](#), [setProperties](#)

Methods inherited from class [java.lang.Object](#)

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

Constructor Detail

GifEncoder

```
public GifEncoder(java.awt.Image img,  
                  java.io.OutputStream out)  
    throws java.io.IOException
```

Throws:

java.io.IOException

GifEncoder

```
public GifEncoder(java.awt.Image img,  
                  java.io.OutputStream out,  
                  boolean interlace)  
    throws java.io.IOException
```

Throws:

```
java.io.IOException
```

GifEncoder

```
public GifEncoder(java.awt.image.ImageProducer prod,  
                  java.io.OutputStream out)  
    throws java.io.IOException
```

Throws:

```
java.io.IOException
```

GifEncoder

```
public GifEncoder(java.awt.image.ImageProducer prod,  
                  java.io.OutputStream out,  
                  boolean interlace)  
    throws java.io.IOException
```

Throws:

```
java.io.IOException
```

jgsl.util

Class ImageEncoder

java.lang.Object

└─ jgsl.util.ImageEncoder

All Implemented Interfaces:

java.awt.image.ImageConsumer

Direct Known Subclasses:

[GifEncoder](#)

```
public abstract class ImageEncoder
```

```
extends java.lang.Object
```

```
implements java.awt.image.ImageConsumer
```

TODO - write java docs

Version:

\$Id: ImageEncoder.java,v 1.1 2005/05/21 01:42:10 zenarchitect Exp \$

Author:

\$Author: zenarchitect \$

Field Summary

Fields inherited from interface java.awt.image.ImageConsumer

COMPLETESCANLINES, IMAGEABORTED, IMAGEERROR, RANDOMPIXELORDER, SINGLEFRAME, SINGLEFRAMEDONE, SINGLEPASS, STATICIMAGEDONE, TOPDOWNLEFTRIGHT

Constructor Summary

[ImageEncoder](#)(java.awt.Image img, java.io.OutputStream out)

[ImageEncoder](#)(java.awt.image.ImageProducer producer, java.io.OutputStream out)

Method Summary

void	encode ()
void	imageComplete (int status)
void	setColorModel (java.awt.image.ColorModel model)
void	setDimensions (int width, int height)
void	setHints (int hintflags)
void	setPixels (int x, int y, int w, int h, java.awt.image.ColorModel model, byte[] pixels, int off, int scansize)
void	setPixels (int x, int y, int w, int h, java.awt.image.ColorModel model, int[] pixels, int off, int scansize)
void	setProperties (java.util.Hashtable<?,?> props)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ImageEncoder


```
public ImageEncoder(java.awt.Image img,  
                    java.io.OutputStream out)  
    throws java.io.IOException
```

Throws:

java.io.IOException

ImageEncoder

```
public ImageEncoder(java.awt.image.ImageProducer producer,  
                    java.io.OutputStream out)  
    throws java.io.IOException
```

Throws:

java.io.IOException

Method Detail

encode

```
public void encode()  
    throws java.io.IOException
```

Throws:

java.io.IOException

imageComplete

```
public void imageComplete(int status)
```

Specified by:

imageComplete in interface java.awt.image.ImageConsumer

setColorModel

```
public void setColorModel(java.awt.image.ColorModel model)
```

Specified by:

setColorModel in interface java.awt.image.ImageConsumer

setDimensions

```
public void setDimensions(int width,  
                           int height)
```

Specified by:

setDimensions in interface java.awt.image.ImageConsumer

setHints

```
public void setHints(int hintflags)
```

Specified by:

setHints in interface java.awt.image.ImageConsumer

setPixels

```
public void setPixels(int x,  
                      int y,  
                      int w,  
                      int h,  
                      java.awt.image.ColorModel model,  
                      byte[] pixels,  
                      int off,  
                      int scansize)
```

Specified by:

setPixels in interface java.awt.image.ImageConsumer

setPixels

```
public void setPixels(int x,  
                      int y,  
                      int w,  
                      int h,  
                      java.awt.image.ColorModel model,  
                      int[] pixels,  
                      int off,  
                      int scansize)
```

Specified by:

setPixels in interface `java.awt.image.ImageConsumer`

setProperties

```
public void setProperties(java.util.Hashtable<?,?> props)
```

Specified by:

setProperties in interface `java.awt.image.ImageConsumer`

jgsl.io

Class ImageFileFilter

java.lang.Object

- └─ javax.swing.filechooser.FileFilter
- └─ **jgsl.io.ImageFileFilter**

```
public class ImageFileFilter
```

```
extends javax.swing.filechooser.FileFilter
```

FileFilter for Image files

Version:

\$Id: ImageFileFilter.java,v 1.1 2005/05/21 01:42:07 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[ImageFileFilter](#)()

Method Summary

boolean	<u>accept</u> (java.io.File f)
---------	--

java. lang. String	<u>getDescription</u> ()
--------------------------	---

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Constructor Detail

ImageFileFilter

```
public ImageFileFilter()
```

Method Detail

accept

```
public boolean accept(java.io.File f)
```

Specified by:

accept in class javax.swing.filechooser.FileFilter

getDescription

```
public java.lang.String getDescription()
```

Specified by:

getDescription in class javax.swing.filechooser.FileFilter

jgsl.io

Class JARFileFilter

java.lang.Object

- ↳ javax.swing.filechooser.FileFilter
 - ↳ **jgsl.io.JARFileFilter**

```
public class JARFileFilter
```

```
extends javax.swing.filechooser.FileFilter
```

FileFilter for .JAR files

Version:

\$Id: JARFileFilter.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JARFileFilter](#)()

Method Summary

boolean	<u>accept</u> (java.io.File f)
---------	--

java. lang. String	<u>getDescription</u> ()
--------------------------	---

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Constructor Detail

JARFileFilter

```
public JARFileFilter()
```

Method Detail

accept

```
public boolean accept(java.io.File f)
```

Specified by:

accept in class javax.swing.filechooser.FileFilter

getDescription

```
public java.lang.String getDescription()
```

Specified by:

getDescription in class javax.swing.filechooser.FileFilter

jgsl.util

Class JarPackager

java.lang.Object

└─ jgsl.util.JarPackager

```
public class JarPackager
```

```
extends java.lang.Object
```

Create an executable JAR file for a JGSL script Java class.

Author:

jchavez

Constructor Summary

[JarPackager](#)()

Method Summary

static void	<u>makeJar</u> (java.io.File jarFileName, java.lang.String className) Create a jar file for JGSL distribution.
-------------	---

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

JarPackager

```
public JarPackager()
```

Method Detail

makeJar

```
public static void makeJar(java.io.File jarFileName,  
                           java.lang.String classFileName,  
                           java.lang.String className)  
    throws JarPackagerException
```

Create a jar file for JGSL distribution. The className parameter will be used to set the main class attribute.

Main-Class: className

Parameters:

jarFileName - Name of JAR to create

classFileName - Full path to the class file to add to the jar

className - Name of the class with full package specification. The "." will be replaced with "/".

Throws:

[JarPackagerException](#)

jgsl.util

Class JarPackagerException

java.lang.Object

└ java.lang.Throwable

└ java.lang.Exception

└ jgsl.util.JarPackagerException

All Implemented Interfaces:

java.io.Serializable

public class **JarPackagerException**

extends java.lang.Exception

Report JarPackageer exceptions.

Author:

jchavez

See Also:

[Serialized Form](#)

Constructor Summary

[JarPackagerException](#)(java.lang.String string)

Method Summary

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

JarPackagerException

public JarPackagerException(java.lang.String string)



jgsl.parser

Class JavaCharStream

java.lang.Object

└─ jgsl.parser.JavaCharStream

public class **JavaCharStream**

extends java.lang.Object

An implementation of interface CharStream, where the stream is assumed to contain only ASCII characters (with java-like unicode escape processing).

Field Summary

int	bufpos
static boolean	staticFlag

Constructor Summary

[JavaCharStream](#)(java.io.InputStream dstream)

[JavaCharStream](#)(java.io.InputStream dstream, int startline, int startcolumn)

[JavaCharStream](#)(java.io.InputStream dstream, int startline, int startcolumn, int buffersize)

[JavaCharStream](#)(java.io.Reader dstream)

```
JavaCharStream(java.io.Reader dstream, int startline,  
int startcolumn)
```

```
JavaCharStream(java.io.Reader dstream, int startline,  
int startcolumn, int buffersize)
```

Method Summary

void	adjustBeginLineColumn (int newLine, int newCol) Method to adjust line and column numbers for the start of a token.
void	backup (int amount)
char	BeginToken ()
void	Done ()
int	getBeginColumn ()
int	getBeginLine ()
int	getEndColumn ()
int	getEndLine ()
java. lang. String	GetImage ()
char []	GetSuffix (int len)
char	readChar ()
void	ReInit (java.io.InputStream dstream)

void	ReInit (java.io.InputStream dstream, int startline, int startcolumn)
void	ReInit (java.io.InputStream dstream, int startline, int startcolumn, int buffersize)
void	ReInit (java.io.Reader dstream)
void	ReInit (java.io.Reader dstream, int startline, int startcolumn)
void	ReInit (java.io.Reader dstream, int startline, int startcolumn, int buffersize)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

bufpos

public int **bufpos**

staticFlag

public static final boolean **staticFlag**

See Also:

[Constant Field Values](#)

Constructor Detail

JavaCharStream

```
public JavaCharStream(java.io.InputStream dstream)
```

JavaCharStream

```
public JavaCharStream(java.io.InputStream dstream,  
                        int startline,  
                        int startcolumn)
```

JavaCharStream

```
public JavaCharStream(java.io.InputStream dstream,  
                        int startline,  
                        int startcolumn,  
                        int buffersize)
```

JavaCharStream

```
public JavaCharStream(java.io.Reader dstream)
```

JavaCharStream

```
public JavaCharStream(java.io.Reader dstream,  
                        int startline,  
                        int startcolumn)
```

JavaCharStream

```
public JavaCharStream(java.io.Reader dstream,
```

```
int startline,  
int startcolumn,  
int buffersize)
```

Method Detail

adjustBeginLineColumn

```
public void adjustBeginLineColumn(int newLine,  
                                   int newCol)
```

Method to adjust line and column numbers for the start of a token.

backup

```
public void backup(int amount)
```

BeginToken

```
public char BeginToken()  
            throws java.io.IOException
```

Throws:

java.io.IOException

Done

```
public void Done()
```

getBeginColumn


```
public int getBeginColumn()
```

getBeginLine

```
public int getBeginLine()
```

getEndColumn

```
public int getEndColumn()
```

getEndLine

```
public int getEndLine()
```

GetImage

```
public java.lang.String GetImage()
```

GetSuffix

```
public char[] GetSuffix(int len)
```

readChar

```
public char readChar()  
    throws java.io.IOException
```

Throws:

java.io.IOException

ReInit

```
public void ReInit(java.io.InputStream dstream)
```

ReInit

```
public void ReInit(java.io.InputStream dstream,  
                    int startline,  
                    int startcolumn)
```

ReInit

```
public void ReInit(java.io.InputStream dstream,  
                    int startline,  
                    int startcolumn,  
                    int buffersize)
```

ReInit

```
public void ReInit(java.io.Reader dstream)
```

ReInit

```
public void ReInit(java.io.Reader dstream,  
                    int startline,  
                    int startcolumn)
```

ReInit

```
public void ReInit(java.io.Reader dstream,  
                   int startline,  
                   int startcolumn,  
                   int buffersize)
```

jgsl

Class JGSL

java.lang.Object

└─ **jgsl.JGSL**

```
public class JGSL
```

```
extends java.lang.Object
```

JGSL program main class. This is main entry point for executing the JGSL in both command line and GUI modes. This class configures 2 loggers using the Log4J API. The Log4J properties file is bundled with the jgsl.jar file and is located in the

```
jgsl/resources/jgsl_log.prop
```

```
file.
```

After the loggers are configured the control flow is passed to the ScriptEngine class.

Version:

\$Id: JGSL.java,v 1.8 2005/05/16 00:54:23 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSL](#)()

Method Summary

static void	<u>main</u> (java.lang.String[] args)
-------------	---

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

JGSL

```
public JGSL()
```

Method Detail

main

```
public static void main(java.lang.String[] args)
```

jgsl.parser

Class JGSL_Parser

java.lang.Object

└─ jgsl.parser.JGSL_Parser

All Implemented Interfaces:

[JGSL_ParserConstants](#)

```
public class JGSL_Parser
```

extends java.lang.Object

implements [JGSL_ParserConstants](#)

Version:

\$Id: JGSL_Parser.jj,v 1.5 2005/05/01 01:48:23 zenarchitect Exp \$

Author:

zenarchitect

Field Summary

Token	jj_nt
Token	token
JGSL_ParserTokenManager	token_source

Fields inherited from interface jgsl.parser.[JGSL_ParserConstants](#)

[AND](#), [ARC](#), [ASSIGN](#), [BACKGROUND](#), [BANG](#), [BEGIN](#), [BLACK](#), [BLUE](#), [BORDER](#), [CANVAS](#), [CIRCLE](#), [CLEAR](#), [COLON](#), [COLOR](#), [COMMA](#), [DARK_GRAY](#), [DEBUG](#), [DECIMAL_LITERAL](#), [DECLARE](#), [DEFAULT](#), [DIGIT](#), [DOC](#), [DRAW](#), [ELIPSE](#), [ELSE](#), [ELSEIF](#), [END](#), [EOF](#), [EQ](#), [ERROR](#), [FALSE](#), [FILL](#), [FLOATING_POINT_LITERAL](#), [FOREGROUND](#), [FORMAL_COMMENT](#), [GE](#), [GRADIENT](#), [GRAY](#), [GREEN](#), [GT](#), [HEX_LITERAL](#), [IDENTIFIER](#), [IF](#), [IN_FORMAL_COMMENT](#), [IN_MULTI_LINE_COMMENT](#), [IN_SINGLE_LINE_COMMENT](#), [INTEGER_LITERAL](#), [JGSL](#), [LE](#), [LETTER](#), [LIGHT_GRAY](#), [LINE](#), [LOG](#), [LOOP](#), [LPAREN](#), [LT](#), [MAGENTA](#), [MINUS](#), [MOD](#), [MULTI_LINE_COMMENT](#), [NE](#), [NOT](#), [OCTAL_LITERAL](#), [OR](#), [ORANGE](#), [PINK](#), [PLUS](#), [POLYGON](#), [READ](#), [RECTANGLE](#), [RED](#), [REPEAT](#), [RPAREN](#), [SC_AND](#), [SC_OR](#), [SEMICOLON](#), [SINGLE_LINE_COMMENT](#), [SLASH](#), [SQUARE](#), [STAR](#), [STRING_LITERAL](#), [TEXT](#), [THEN](#), [tokenImage](#), [TRUE](#), [VERSION](#), [WAIT](#), [WARNING](#), [WHITE](#), [WRITE](#), [YELLOW](#)

Constructor Summary

[JGSL_Parser](#)(`java.io.InputStream stream`)

[JGSL_Parser](#)([JGSL_ParserTokenManager](#) tm)

[JGSL_Parser](#)(`java.io.Reader stream`)

Method Summary

<code>java.util. ArrayList</code>	ArcAttributes ()
<code>void</code>	Assignment ()
<code>void</code>	Canvas ()
<code>java.util. ArrayList</code>	CanvasAttributes ()
<code>java.util. ArrayList</code>	CircleAttributes ()

void	Clear ()
void	Command ()
void	Debug ()
void	Declaration ()
void	DeclareCanvas ()
void	DeclareColor ()
void	DeclareRGB (Token type, Token id)
void	DeclareStandardColor (Token type, Token id)
void	disable_tracing ()
void	Documentation ()
void	Draw ()
void	DrawArc ()
java.util. ArrayList	DrawAttributes ()
void	DrawCircle ()
void	DrawEllipse ()
void	DrawLine ()

void	DrawPolygon()
void	DrawRectangle()
void	DrawShape()
void	DrawSquare()
void	DrawText()
java.util. ArrayList	EllipseAttributes()
void	enable_tracing()
void	Error()
ParseException	generateParseException()
java.awt.Color	GetColor()
Token	getNextToken()
java.awt.Color	GetRGB()
JGSLScript	getScript()
java.awt.Color	GetStandardColor()
Token	getToken(int index)
java.util. ArrayList	LineAttributes()

void	Log ()
static void	main (java.lang.String[] args)
void	Message ()
void	parseScript () THE JGSL GRAMMAR STARTS HERE *
java.util. ArrayList	PolygonAttributes ()
void	PolygonParameters (java.util.ArrayList parameters)
java.util. ArrayList	RectangleAttributes ()
void	ReInit (java.io.InputStream stream)
void	ReInit (JGSL_ParserTokenManager tm)
void	ReInit (java.io.Reader stream)
void	Script ()
void	ScriptBody ()
java.util. ArrayList	SquareAttributes ()
java.util. ArrayList	TextAttributes ()
void	Wait ()
void	Warning ()

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Field Detail

jj_nt

public [Token](#) jj_nt

token

public [Token](#) token

token_source

public [JGSL_ParserTokenManager](#) token_source

Constructor Detail

JGSL_Parser

public **JGSL_Parser**(java.io.InputStream stream)

JGSL_Parser

public **JGSL_Parser**([JGSL_ParserTokenManager](#) tm)

JGSL_Parser

```
public JGSL_Parser(java.io.Reader stream)
```

Method Detail

ArcAttributes

```
public final java.util.ArrayList ArcAttributes()  
                                   throws ParseException
```

Throws:

[ParseException](#)

Assignment

```
public final void Assignment()  
                 throws ParseException
```

Throws:

[ParseException](#)

Canvas

```
public final void Canvas()  
                 throws ParseException
```

Throws:

[ParseException](#)

CanvasAttributes

```
public final java.util.ArrayList CanvasAttributes()
```

throws [ParseException](#)**Throws:**[ParseException](#)

CircleAttributes

```
public final java.util.ArrayList CircleAttributes()  
                                throws ParseException
```

Throws:[ParseException](#)

Clear

```
public final void Clear()  
                throws ParseException
```

Throws:[ParseException](#)

Command

```
public final void Command()  
                throws ParseException
```

Throws:[ParseException](#)

Debug

```
public final void Debug()
```

throws [ParseException](#)

Throws:

[ParseException](#)

Declaration

```
public final void Declaration()  
                throws ParseException
```

Throws:

[ParseException](#)

DeclareCanvas

```
public final void DeclareCanvas()  
                throws ParseException
```

Throws:

[ParseException](#)

DeclareColor

```
public final void DeclareColor()  
                throws ParseException
```

Throws:

[ParseException](#)

DeclareRGB

```
public final void DeclareRGB(Token type,
```

[Token](#) id)
throws [ParseException](#)

Throws:

[ParseException](#)

DeclareStandardColor

```
public final void DeclareStandardColor(Token type,  
                                         Token id)  
                                         throws ParseException
```

Throws:

[ParseException](#)

disable_tracing

```
public final void disable_tracing()
```

Documentation

```
public final void Documentation()  
                 throws ParseException
```

Throws:

[ParseException](#)

Draw

```
public final void Draw()  
                 throws ParseException
```

Throws:[ParseException](#)

DrawArc

```
public final void DrawArc()  
    throws ParseException
```

Throws:[ParseException](#)

DrawAttributes

```
public final java.util.ArrayList DrawAttributes()  
    throws ParseException
```

Throws:[ParseException](#)

DrawCircle

```
public final void DrawCircle()  
    throws ParseException
```

Throws:[ParseException](#)

DrawEllipse

```
public final void DrawEllipse()  
    throws ParseException
```


Throws:[ParseException](#)

DrawLine

```
public final void DrawLine()  
                throws ParseException
```

Throws:[ParseException](#)

DrawPolygon

```
public final void DrawPolygon()  
                throws ParseException
```

Throws:[ParseException](#)

DrawRectangle

```
public final void DrawRectangle()  
                throws ParseException
```

Throws:[ParseException](#)

DrawShape

```
public final void DrawShape()  
                throws ParseException
```

Throws:[ParseException](#)

DrawSquare

```
public final void DrawSquare()  
                throws ParseException
```

Throws:[ParseException](#)

DrawText

```
public final void DrawText()  
                throws ParseException
```

Throws:[ParseException](#)

EllipseAttributes

```
public final java.util.ArrayList EllipseAttributes()  
                                throws ParseException
```

Throws:[ParseException](#)

enable_tracing

```
public final void enable_tracing()
```

Error

```
public final void Error()  
    throws ParseException
```

Throws:

[ParseException](#)

generateParseException

```
public ParseException generateParseException( )
```

GetColor

```
public final java.awt.Color GetColor()  
    throws ParseException
```

Throws:

[ParseException](#)

getNextToken

```
public final Token getNextToken()
```

GetRGB

```
public final java.awt.Color GetRGB( )  
    throws ParseException
```

Throws:

[ParseException](#)

getScript

```
public JGSLScript getScript()
```

GetStandardColor

```
public final java.awt.Color GetStandardColor()  
                                throws ParseException
```

Throws:

[ParseException](#)

getToken

```
public final Token getToken(int index)
```

LineAttributes

```
public final java.util.ArrayList LineAttributes()  
                                throws ParseException
```

Throws:

[ParseException](#)

Log

```
public final void Log()
```

throws [ParseException](#)

Throws:

[ParseException](#)

main

```
public static void main(java.lang.String[] args)
    throws ParseException
```

Throws:

[ParseException](#)

Message

```
public final void Message()
    throws ParseException
```

Throws:

[ParseException](#)

parseScript

```
public final void parseScript()
    throws ParseException
```

THE JGSL GRAMMAR STARTS HERE *

Throws:

[ParseException](#)

PolygonAttributes

```
public final java.util.ArrayList PolygonAttributes()  
                                throws ParseException
```

Throws:

[ParseException](#)

PolygonParameters

```
public final void PolygonParameters(java.util.ArrayList parameters)  
                                throws ParseException
```

Throws:

[ParseException](#)

RectangleAttributes

```
public final java.util.ArrayList RectangleAttributes()  
                                throws ParseException
```

Throws:

[ParseException](#)

ReInit

```
public void ReInit(java.io.InputStream stream)
```

ReInit

```
public void ReInit(JGSL\_ParserTokenManager tm)
```

ReInit

```
public void ReInit(java.io.Reader stream)
```

Script

```
public final void Script()  
    throws ParseException
```

Throws:

[ParseException](#)

ScriptBody

```
public final void ScriptBody()  
    throws ParseException
```

Throws:

[ParseException](#)

SquareAttributes

```
public final java.util.ArrayList SquareAttributes()  
    throws ParseException
```

Throws:

[ParseException](#)

TextAttributes

```
public final java.util.ArrayList TextAttributes()
```

throws [ParseException](#)

Throws:

[ParseException](#)

Wait

```
public final void Wait()  
    throws ParseException
```

Throws:

[ParseException](#)

Warning

```
public final void Warning()  
    throws ParseException
```

Throws:

[ParseException](#)

jgsl.parser

Interface JGSL_ParserConstants

All Known Implementing Classes:

[JGSL_Parser](#), [JGSL_ParserTokenManager](#)

```
public interface JGSL_ParserConstants
```

Field Summary	
static int	AND
static int	ARC
static int	ASSIGN
static int	BACKGROUND
static int	BANG
static int	BEGIN
static int	BLACK
static int	BLUE
static int	BORDER
static int	CANVAS

static int	<u>CIRCLE</u>
static int	<u>CLEAR</u>
static int	<u>COLON</u>
static int	<u>COLOR</u>
static int	<u>COMMA</u>
static int	<u>DARK_GRAY</u>
static int	<u>DEBUG</u>
static int	<u>DECIMAL_LITERAL</u>
static int	<u>DECLARE</u>
static int	<u>DEFAULT</u>
static int	<u>DIGIT</u>
static int	<u>DOC</u>
static int	<u>DRAW</u>
static int	<u>ELIPSE</u>
static int	<u>ELSE</u>
static int	<u>ELSEIF</u>

static int	<u>END</u>
static int	<u>EOF</u>
static int	<u>EQ</u>
static int	<u>ERROR</u>
static int	<u>FALSE</u>
static int	<u>FILL</u>
static int	<u>FLOATING POINT LITERAL</u>
static int	<u>FOREGROUND</u>
static int	<u>FORMAL_COMMENT</u>
static int	<u>GE</u>
static int	<u>GRADIENT</u>
static int	<u>GRAY</u>
static int	<u>GREEN</u>
static int	<u>GT</u>
static int	<u>HEX LITERAL</u>
static int	<u>IDENTIFIER</u>

static int	<u>IF</u>
static int	<u>IN_FORMAL_COMMENT</u>
static int	<u>IN_MULTI_LINE_COMMENT</u>
static int	<u>IN_SINGLE_LINE_COMMENT</u>
static int	<u>INTEGER_LITERAL</u>
static int	<u>JGSL</u>
static int	<u>LE</u>
static int	<u>LETTER</u>
static int	<u>LIGHT_GRAY</u>
static int	<u>LINE</u>
static int	<u>LOG</u>
static int	<u>LOOP</u>
static int	<u>LPAREN</u>
static int	<u>LT</u>
static int	<u>MAGENTA</u>
static int	<u>MINUS</u>

static int	<u>MOD</u>
static int	<u>MULTI_LINE_COMMENT</u>
static int	<u>NE</u>
static int	<u>NOT</u>
static int	<u>OCTAL_LITERAL</u>
static int	<u>OR</u>
static int	<u>ORANGE</u>
static int	<u>PINK</u>
static int	<u>PLUS</u>
static int	<u>POLYGON</u>
static int	<u>READ</u>
static int	<u>RECTANGLE</u>
static int	<u>RED</u>
static int	<u>REPEAT</u>
static int	<u>RPAREN</u>
static int	<u>SC_AND</u>

static int	<u>SC_OR</u>
static int	<u>SEMICOLON</u>
static int	<u>SINGLE_LINE_COMMENT</u>
static int	<u>SLASH</u>
static int	<u>SQUARE</u>
static int	<u>STAR</u>
static int	<u>STRING_LITERAL</u>
static int	<u>TEXT</u>
static int	<u>THEN</u>
static java. lang.String []	<u>tokenImage</u>
static int	<u>TRUE</u>
static int	<u>VERSION</u>
static int	<u>WAIT</u>
static int	<u>WARNING</u>
static int	<u>WHITE</u>
static int	<u>WRITE</u>

static int	YELLOW
------------	------------------------

Field Detail

AND

static final int **AND**

See Also:

[Constant Field Values](#)

ARC

static final int **ARC**

See Also:

[Constant Field Values](#)

ASSIGN

static final int **ASSIGN**

See Also:

[Constant Field Values](#)

BACKGROUND

static final int **BACKGROUND**

See Also:

[Constant Field Values](#)

BANG

```
static final int BANG
```

See Also:

[Constant Field Values](#)

BEGIN

```
static final int BEGIN
```

See Also:

[Constant Field Values](#)

BLACK

```
static final int BLACK
```

See Also:

[Constant Field Values](#)

BLUE

```
static final int BLUE
```

See Also:

[Constant Field Values](#)

BORDER

```
static final int BORDER
```

See Also:

[Constant Field Values](#)

CANVAS

```
static final int CANVAS
```

See Also:

[Constant Field Values](#)

CIRCLE

```
static final int CIRCLE
```

See Also:

[Constant Field Values](#)

CLEAR

```
static final int CLEAR
```

See Also:

[Constant Field Values](#)

COLON

```
static final int COLON
```

See Also:[Constant Field Values](#)

COLOR

```
static final int COLOR
```

See Also:[Constant Field Values](#)

COMMA

```
static final int COMMA
```

See Also:[Constant Field Values](#)

DARK_GRAY

```
static final int DARK_GRAY
```

See Also:[Constant Field Values](#)

DEBUG

```
static final int DEBUG
```

See Also:[Constant Field Values](#)

DECIMAL_LITERAL

```
static final int DECIMAL_LITERAL
```

See Also:

[Constant Field Values](#)

DECLARE

```
static final int DECLARE
```

See Also:

[Constant Field Values](#)

DEFAULT

```
static final int DEFAULT
```

See Also:

[Constant Field Values](#)

DIGIT

```
static final int DIGIT
```

See Also:

[Constant Field Values](#)

DOC

```
static final int DOC
```

See Also:[Constant Field Values](#)

DRAW

```
static final int DRAW
```

See Also:[Constant Field Values](#)

ELIPSE

```
static final int ELIPSE
```

See Also:[Constant Field Values](#)

ELSE

```
static final int ELSE
```

See Also:[Constant Field Values](#)

ELSEIF

```
static final int ELSEIF
```

See Also:[Constant Field Values](#)

END

```
static final int END
```

See Also:

[Constant Field Values](#)

EOF

```
static final int EOF
```

See Also:

[Constant Field Values](#)

EQ

```
static final int EQ
```

See Also:

[Constant Field Values](#)

ERROR

```
static final int ERROR
```

See Also:

[Constant Field Values](#)

FALSE

```
static final int FALSE
```

See Also:

[Constant Field Values](#)

FILL

```
static final int FILL
```

See Also:

[Constant Field Values](#)

FLOATING_POINT_LITERAL

```
static final int FLOATING_POINT_LITERAL
```

See Also:

[Constant Field Values](#)

BACKGROUND

```
static final int BACKGROUND
```

See Also:

[Constant Field Values](#)

FORMAL_COMMENT

```
static final int FORMAL_COMMENT
```

See Also:

[Constant Field Values](#)

GE

`static final int GE`

See Also:

[Constant Field Values](#)

GRADIENT

`static final int GRADIENT`

See Also:

[Constant Field Values](#)

GRAY

`static final int GRAY`

See Also:

[Constant Field Values](#)

GREEN

`static final int GREEN`

See Also:

[Constant Field Values](#)

GT

static final int **GT**

See Also:

[Constant Field Values](#)

HEX_LITERAL

static final int **HEX_LITERAL**

See Also:

[Constant Field Values](#)

IDENTIFIER

static final int **IDENTIFIER**

See Also:

[Constant Field Values](#)

IF

static final int **IF**

See Also:

[Constant Field Values](#)

IN_FORMAL_COMMENT

static final int **IN_FORMAL_COMMENT**

See Also:

[Constant Field Values](#)

IN_MULTI_LINE_COMMENT

```
static final int IN_MULTI_LINE_COMMENT
```

See Also:

[Constant Field Values](#)

IN_SINGLE_LINE_COMMENT

```
static final int IN_SINGLE_LINE_COMMENT
```

See Also:

[Constant Field Values](#)

INTEGER_LITERAL

```
static final int INTEGER_LITERAL
```

See Also:

[Constant Field Values](#)

JGSL

```
static final int JGSL
```

See Also:

[Constant Field Values](#)

LE

```
static final int LE
```

See Also:

[Constant Field Values](#)

LETTER

```
static final int LETTER
```

See Also:

[Constant Field Values](#)

LIGHT_GRAY

```
static final int LIGHT_GRAY
```

See Also:

[Constant Field Values](#)

LINE

```
static final int LINE
```

See Also:

[Constant Field Values](#)

LOG

```
static final int LOG
```

See Also:[Constant Field Values](#)

LOOP

```
static final int LOOP
```

See Also:[Constant Field Values](#)

LPAREN

```
static final int LPAREN
```

See Also:[Constant Field Values](#)

LT

```
static final int LT
```

See Also:[Constant Field Values](#)

MAGENTA

```
static final int MAGENTA
```

See Also:[Constant Field Values](#)

MINUS

```
static final int MINUS
```

See Also:

[Constant Field Values](#)

MOD

```
static final int MOD
```

See Also:

[Constant Field Values](#)

MULTI_LINE_COMMENT

```
static final int MULTI_LINE_COMMENT
```

See Also:

[Constant Field Values](#)

NE

```
static final int NE
```

See Also:

[Constant Field Values](#)

NOT

```
static final int NOT
```

See Also:[Constant Field Values](#)

OCTAL_LITERAL

```
static final int OCTAL_LITERAL
```

See Also:[Constant Field Values](#)

OR

```
static final int OR
```

See Also:[Constant Field Values](#)

ORANGE

```
static final int ORANGE
```

See Also:[Constant Field Values](#)

PINK

```
static final int PINK
```

See Also:[Constant Field Values](#)

PLUS

```
static final int PLUS
```

See Also:

[Constant Field Values](#)

POLYGON

```
static final int POLYGON
```

See Also:

[Constant Field Values](#)

READ

```
static final int READ
```

See Also:

[Constant Field Values](#)

RECTANGLE

```
static final int RECTANGLE
```

See Also:

[Constant Field Values](#)

RED

```
static final int RED
```

See Also:

[Constant Field Values](#)

REPEAT

```
static final int REPEAT
```

See Also:

[Constant Field Values](#)

RPAREN

```
static final int RPAREN
```

See Also:

[Constant Field Values](#)

SC_AND

```
static final int SC_AND
```

See Also:

[Constant Field Values](#)

SC_OR

```
static final int SC_OR
```

See Also:

[Constant Field Values](#)

SEMICOLON

```
static final int SEMICOLON
```

See Also:

[Constant Field Values](#)

SINGLE_LINE_COMMENT

```
static final int SINGLE_LINE_COMMENT
```

See Also:

[Constant Field Values](#)

SLASH

```
static final int SLASH
```

See Also:

[Constant Field Values](#)

SQUARE

```
static final int SQUARE
```

See Also:

[Constant Field Values](#)

STAR

`static final int STAR`

See Also:

[Constant Field Values](#)

STRING_LITERAL

`static final int STRING_LITERAL`

See Also:

[Constant Field Values](#)

TEXT

`static final int TEXT`

See Also:

[Constant Field Values](#)

THEN

`static final int THEN`

See Also:

[Constant Field Values](#)

tokenImage

`static final java.lang.String[] tokenImage`

TRUE

```
static final int TRUE
```

See Also:

[Constant Field Values](#)

VERSION

```
static final int VERSION
```

See Also:

[Constant Field Values](#)

WAIT

```
static final int WAIT
```

See Also:

[Constant Field Values](#)

WARNING

```
static final int WARNING
```

See Also:

[Constant Field Values](#)

WHITE

```
static final int WHITE
```

See Also:[Constant Field Values](#)

WRITE

```
static final int WRITE
```

See Also:[Constant Field Values](#)

YELLOW

```
static final int YELLOW
```

See Also:[Constant Field Values](#)

jgsl.parser

Class JGSL_ParseTokenManager

java.lang.Object
└─ jgsl.parser.JGSL_ParseTokenManager

All Implemented Interfaces:
[JGSL_ParseConstants](#)

public class JGSL_ParseTokenManager

extends java.lang.Object
implements [JGSL_ParseConstants](#)

Field Summary	
java.io. PrintStream	debugStream
static int[]	jjnewLexState
static java. lang.String []	jjstrLiteralImages
static java. lang.String []	lexStateNames

Fields inherited from interface jgsl.parser. JGSL_ParseConstants

[AND](#), [ARC](#), [ASSIGN](#), [BACKGROUND](#), [BANG](#), [BEGIN](#), [BLACK](#), [BLUE](#), [BORDER](#), [CANVAS](#), [CIRCLE](#), [CLEAR](#), [COLON](#), [COLOR](#), [COMMA](#), [DARK_GRAY](#), [DEBUG](#), [DECIMAL_LITERAL](#), [DECLARE](#), [DEFAULT](#), [DIGIT](#), [DOC](#), [DRAW](#), [ELIPSE](#), [ELSE](#), [ELSEIF](#), [END](#), [EOF](#), [EQ](#), [ERROR](#), [FALSE](#), [FILL](#), [FLOATING_POINT_LITERAL](#), [FOREGROUND](#), [FORMAL_COMMENT](#), [GE](#), [GRADIENT](#), [GRAY](#), [GREEN](#), [GT](#), [HEX_LITERAL](#), [IDENTIFIER](#), [IF](#), [IN_FORMAL_COMMENT](#), [IN_MULTI_LINE_COMMENT](#), [IN_SINGLE_LINE_COMMENT](#), [INTEGER_LITERAL](#), [JGSL](#), [LE](#), [LETTER](#), [LIGHT_GRAY](#), [LINE](#), [LOG](#), [LOOP](#), [LPAREN](#), [LT](#), [MAGENTA](#), [MINUS](#), [MOD](#), [MULTI_LINE_COMMENT](#), [NE](#), [NOT](#), [OCTAL_LITERAL](#), [OR](#), [ORANGE](#), [PINK](#), [PLUS](#), [POLYGON](#), [READ](#), [RECTANGLE](#), [RED](#), [REPEAT](#), [RPAREN](#), [SC_AND](#), [SC_OR](#), [SEMICOLON](#), [SINGLE_LINE_COMMENT](#), [SLASH](#), [SQUARE](#), [STAR](#), [STRING_LITERAL](#), [TEXT](#), [THEN](#), [tokenImage](#), [TRUE](#), [VERSION](#), [WAIT](#), [WARNING](#), [WHITE](#), [WRITE](#), [YELLOW](#)

Constructor Summary

[JGSL_ParseTokenManager](#)([JavaCharStream](#) stream)

[JGSL_ParseTokenManager](#)([JavaCharStream](#) stream, int lexState)

Method Summary

Token	getNextToken ()
void	ReInit (JavaCharStream stream)
void	ReInit (JavaCharStream stream, int lexState)
void	setDebugStream (java.io.PrintStream ds)
void	SwitchTo (int lexState)

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Field Detail

debugStream

```
public java.io.PrintStream debugStream
```

jjnewLexState

```
public static final int[] jjnewLexState
```

jjstrLiteralImages

```
public static final java.lang.String[] jjstrLiteralImages
```

lexStateNames

```
public static final java.lang.String[] lexStateNames
```

Constructor Detail

JGSL_ParseTokenManager

```
public JGSL_ParseTokenManager(JavaCharStream stream)
```

JGSL_ParseTokenManager

```
public JGSL_ParseTokenManager(JavaCharStream stream,  
                               int lexState)
```

Method Detail

getNextToken

```
public Token getNextToken()
```

ReInit

```
public void ReInit(JavaCharStream stream)
```

ReInit

```
public void ReInit(JavaCharStream stream,  
                  int lexState)
```

setDebugStream

```
public void setDebugStream(java.io.PrintStream ds)
```

SwitchTo

```
public void SwitchTo(int lexState)
```

jgsl.model

Class JGSLColor

java.lang.Object

└─ jgsl.model.JGSLColor

All Implemented Interfaces:

[Argument](#), [Type](#), [Value](#)

```
public class JGSLColor
```

extends java.lang.Object

implements [Type](#), [Value](#), [Argument](#)

Declare an instance of a color type.

Version:

\$Id: JGSLColor.java,v 1.3 2005/05/21 01:42:07 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSLColor](#)(java.lang.String name, java.awt.Color color)

Method Summary

java. awt. Color	getColor ()
------------------------	------------------------------

java. lang. Class	getJavaClass () Get the java Class meta-data for this type
-------------------------	--

java. lang. String	<code>getJavaType</code> () Get the Java type as a String
java. lang. String	<code>getJavaValue</code> () Get the Java representation of this value
java. lang. String	<code>getName</code> () Get the name of the argument

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

JGSLColor

```
public JGSLColor(java.lang.String name,  
                java.awt.Color color)
```

Method Detail

getColor

```
public java.awt.Color getColor()
```

getJavaClass

```
public java.lang.Class getJavaClass()
```

Get the java Class meta-data for this type

Specified by:

[getJavaClass](#) in interface [Type](#)

Returns:

The Class mete-data for this type

getJavaType

```
public java.lang.String getJavaType()
```

Get the Java type as a String

Specified by:

[getJavaType](#) in interface [Type](#)

Returns:

a String containing the type

getJavaValue

```
public java.lang.String getJavaValue()
```

Get the Java representation of this value

Specified by:

[getJavaValue](#) in interface [Value](#)

Returns:

A String containing the Java representation of this value

getName

```
public java.lang.String getName()
```

Get the name of the argument

Specified by:

[getName](#) in interface [Argument](#)

Returns:

String containing the name

jgsl.model

Class JGSLDouble

java.lang.Object

└─ jgsl.model.JGSLDouble

All Implemented Interfaces:

[Argument](#), [Type](#), [Value](#)

```
public class JGSLDouble
```

extends java.lang.Object

implements [Type](#), [Value](#), [Argument](#)

Version:

\$Id: JGSLDouble.java,v 1.2 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSLDouble](#)(java.lang.String name, java.lang.Double value)[JGSLDouble](#)(java.lang.String name, java.lang.String value)

Method Summary

java. lang. Class	getJavaClass () Get the java Class meta-data for this type
-------------------------	--

java. lang. String	getJavaType () Get the Java type as a String
java. lang. String	getJavaValue () Get the Java representation of this value
java. lang. String	getName () Get the name of the argument
java. lang. Double	getValue ()

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

JGSLDouble

```
public JGSLDouble(java.lang.String name,  
                  java.lang.Double value)
```

JGSLDouble

```
public JGSLDouble(java.lang.String name,  
                  java.lang.String value)
```

Method Detail

getJavaClass

```
public java.lang.Class getJavaClass()
```

Get the java Class meta-data for this type

Specified by:

[getJavaClass](#) in interface [Type](#)

Returns:

The Class mete-data for this type

getJavaType

```
public java.lang.String getJavaType()
```

Get the Java type as a String

Specified by:

[getJavaType](#) in interface [Type](#)

Returns:

a String containing the type

getJavaValue

```
public java.lang.String getJavaValue()
```

Get the Java representation of this value

Specified by:

[getJavaValue](#) in interface [Value](#)

Returns:

A String containing the Java representation of this value

getName

```
public java.lang.String getName()
```

Get the name of the argument

Specified by:

[getName](#) in interface [Argument](#)

Returns:

String containing the name

getValue

```
public java.lang.Double getValue()
```

jgsl.io

Class JGSLFileFilter

java.lang.Object

└─ javax.swing.filechooser.FileFilter

└─ jgsl.io.JGSLFileFilter

public class **JGSLFileFilter**

extends javax.swing.filechooser.FileFilter

FileFilter for .jgsl files

Version:

\$Id: JGSLFileFilter.java,v 1.5 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSLFileFilter](#)()

Method Summary

boolean	<u>accept</u> (java.io.File f)
java. lang. String	<u>getDescription</u> ()

Methods inherited from class java.lang.Object


```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Constructor Detail

JGSLFileFilter

```
public JGSLFileFilter()
```

Method Detail

accept

```
public boolean accept(java.io.File f)
```

Specified by:

accept in class javax.swing.filechooser.FileFilter

getDescription

```
public java.lang.String getDescription()
```

Specified by:

getDescription in class javax.swing.filechooser.FileFilter

jgsl.model

Class JGSLInteger

java.lang.Object

└─ jgsl.model.JGSLInteger

All Implemented Interfaces:

[Argument](#), [Type](#), [Value](#)

```
public class JGSLInteger
```

extends java.lang.Object

implements [Type](#), [Value](#), [Argument](#)

Version:

\$Id: JGSLInteger.java,v 1.2 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSLInteger](#)(java.lang.String name, java.lang.Integer value)

[JGSLInteger](#)(java.lang.String name, java.lang.String value)

Method Summary

java. lang. Class	getJavaClass () Get the java Class meta-data for this type
-------------------------	--

java. lang. String	<code>getJavaType()</code> Get the Java type as a String
java. lang. String	<code>getJavaValue()</code> Get the Java representation of this value
java. lang. String	<code>getName()</code> Get the name of the argument
java. lang. Integer	<code>getValue()</code>

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

JGSLInteger

```
public JGSLInteger(java.lang.String name,
                  java.lang.Integer value)
```

JGSLInteger

```
public JGSLInteger(java.lang.String name,
                  java.lang.String value)
```

Method Detail

getJavaClass

```
public java.lang.Class getJavaClass()
```

Get the java Class meta-data for this type

Specified by:

[getJavaClass](#) in interface [Type](#)

Returns:

The Class mete-data for this type

getJavaType

```
public java.lang.String getJavaType()
```

Get the Java type as a String

Specified by:

[getJavaType](#) in interface [Type](#)

Returns:

a String containing the type

getJavaValue

```
public java.lang.String getJavaValue()
```

Get the Java representation of this value

Specified by:

[getJavaValue](#) in interface [Value](#)

Returns:

A String containing the Java representation of this value

getName

```
public java.lang.String getName()
```

Get the name of the argument

Specified by:

[getName](#) in interface [Argument](#)

Returns:

String containing the name

getValue

```
public java.lang.Integer getValue()
```

jgsl.model

Class JGSLScript

java.lang.Object

└─ jgsl.model.JGSLScript

All Implemented Interfaces:

java.io.Serializable, [ParseStatus](#), [Script](#)

```
public class JGSLScript
```

```
extends java.lang.Object
```

```
implements java.io.Serializable, Script, ParseStatus
```

A JGSLScript contains an ordered collection of objects that implement the statement interface.

Version:

\$Id: JGSLScript.java,v 1.7 2005/05/21 19:21:36 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[JGSLScript](#) ()

Method Summary

void	add (Statement s)
------	--

void	<u>addDocumentation</u> (java.lang.String d)
void	<u>addError</u> (<u>ScriptError</u> se) Add a ScriptError to the parse status
void	<u>addMessage</u> (<u>ScriptMessage</u> sm) Add a ScriptMessage to the parse status
void	<u>addWarning</u> (<u>ScriptWarning</u> sw) Add a ScriptWarning to the parse status
java. lang. String	<u>generateImplementation</u> () Generate the implementation class and return the name of the class
java. lang. String	<u>getClassFileName</u> ()
java. lang. String	<u>getClassName</u> ()
java. lang. String	<u>getDocumentation</u> () Returns the JGSL script documentation as specified in the DOC keyword by the script author.
int	<u>getErrorCount</u> ()
java. lang. String	<u>getFullClassName</u> ()
java. lang. String	<u>getJava</u> () Return the Java implementation of this script
java. lang. String	<u>getJavaForInit</u> ()
int	<u>getMessageCount</u> ()
java. lang. String	<u>getParseStatus</u> ()

java. lang. String	getScriptName () Get the script name
int	getWarningCount ()
boolean	hasErrors () Return the error state of the script
boolean	hasMessages () Return the message state of the script * @return true of the script contains messages or false otherwise
boolean	hasWarnings () Return the warning state of the script
void	setScriptName (java.lang.String scriptName) Set the script name
java. lang. String	toString ()

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

JGSLScript

```
public JGSLScript()
```

Method Detail

add

```
public void add(Statement s)
```


addDocumentation

```
public void addDocumentation(java.lang.String d)
```

addError

```
public void addError(ScriptError se)
```

Add a ScriptError to the parse status

Specified by:

[addError](#) in interface [ParseStatus](#)

Parameters:

se -

addMessage

```
public void addMessage(ScriptMessage sm)
```

Add a ScriptMessage to the parse status

Specified by:

[addMessage](#) in interface [ParseStatus](#)

Parameters:

sm -

addWarning

```
public void addWarning(ScriptWarning sw)
```

Add a ScriptWarning to the parse status

Specified by:

[addWarning](#) in interface [ParseStatus](#)

Parameters:

SW -

generateImplementation

```
public java.lang.String generateImplementation()
```

Generate the implementation class and return the name of the class

Returns:

returns a String containing the full name of the implementation class

getClassFileName

```
public java.lang.String getClassFileName()
```

getClassName

```
public java.lang.String getClassName()
```

getDocumentation

```
public java.lang.String getDocumentation()
```

Returns the JGSL script documentation as specified in the DOC keyword by the script author.

Specified by:

[getDocumentation](#) in interface [Script](#)

Returns:

The script documentation

getErrorCount

```
public int getErrorCount()
```

getFullClassName

```
public java.lang.String getFullClassName()
```

getJava

```
public java.lang.String getJava()
```

Return the Java implementation of this script

Specified by:

[getJava](#) in interface [Script](#)

Returns:

the Java language implementation of this script

getJavaForInit

```
public java.lang.String getJavaForInit()
```

getMessageCount

```
public int getMessageCount()
```

getParseStatus

```
public java.lang.String getParseStatus()
```

getScriptName

```
public java.lang.String getScriptName()
```

Get the script name

Specified by:

[getScriptName](#) in interface [Script](#)

Returns:

String containing the script name

getWarningCount

```
public int getWarningCount()
```

hasErrors

```
public boolean hasErrors()
```

Return the error state of the script

Specified by:

[hasErrors](#) in interface [ParseStatus](#)

Returns:

true of the script contains errors or false otherwise

hasMessages

```
public boolean hasMessages()
```

Return the message state of the script * @return true of the script contains messages or false otherwise

Specified by:

[hasMessages](#) in interface [ParseStatus](#)

Returns:

true of the script contains messages or false otherwise

hasWarnings

```
public boolean hasWarnings()
```

Return the warning state of the script

Specified by:

[hasWarnings](#) in interface [ParseStatus](#)

Returns:

true of the script contains warnings or false otherwise

setScriptName

```
public void setScriptName(java.lang.String scriptName)
```

Set the script name

Specified by:

[setScriptName](#) in interface [Script](#)

Parameters:

scriptName - name of the script file

toString

```
public java.lang.String toString()
```

Overrides:

`toString` in class `java.lang.Object`

jgsl.model

Class JGSLString

java.lang.Object

└─ jgsl.model.JGSLString

All Implemented Interfaces:

[Argument](#), [Type](#), [Value](#)

```
public class JGSLString
```

extends java.lang.Object

implements [Type](#), [Value](#), [Argument](#)

Version:

\$Id: JGSLString.java,v 1.2 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[JGSLString](#)(java.lang.String name, java.lang.String value)

Method Summary

java. lang. Class	getJavaClass () Get the java Class meta-data for this type
-------------------------	--

java. lang. String	getJavaType () Get the Java type as a String
--------------------------	--

java. lang. String	getJavaValue () Get the Java representation of this value
java. lang. String	getName () Get the name of the argument
java. lang. String	getValue ()

Methods inherited from class java.lang.Object
<code>equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait</code>

Constructor Detail

JGSLString

```
public JGSLString(java.lang.String name,  
                  java.lang.String value)
```

Method Detail

getJavaClass

```
public java.lang.Class getJavaClass()
```

Get the java Class meta-data for this type

Specified by:
[getJavaClass](#) in interface [Type](#)

Returns:
The Class mete-data for this type

getJavaType

```
public java.lang.String getJavaType()
```

Get the Java type as a String

Specified by:

[getJavaType](#) in interface [Type](#)

Returns:

a String containing the type

getJavaValue

```
public java.lang.String getJavaValue()
```

Get the Java representation of this value

Specified by:

[getJavaValue](#) in interface [Value](#)

Returns:

A String containing the Java representation of this value

getName

```
public java.lang.String getName()
```

Get the name of the argument

Specified by:

[getName](#) in interface [Argument](#)

Returns:

String containing the name

getValue

```
public java.lang.String getValue()
```

jgsl.view.swing

Class JGSLSwingFrame

java.lang.Object

└─ jgsl.view.swing.JGSLSwingFrame

All Implemented Interfaces:java.awt.event.ActionListener, java.awt.event.ItemListener, java.util.EventListener, javax.swing.event.
ListSelectionListener

```
public class JGSLSwingFrame
```

extends java.lang.Object

implements java.awt.event.ActionListener, java.awt.event.ItemListener, javax.swing.event.ListSelectionListener

The JGSLSwingFrame class is the main class for the interactive GUI.

Version:

\$Id: JGSLSwingFrame.java,v 1.5 2005/05/21 01:42:11 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[**JGSLSwingFrame**](#)(javax.swing.JFrame frame)

Constructs a new frame that is initially invisible.

Method Summary

void [**actionPerformed**](#)(java.awt.event.ActionEvent actionEvent)javax.swing.
JPanel [**getMainPanel**](#)()
Return reference to the main panel.void [**itemStateChanged**](#)(java.awt.event.ItemEvent itemEvent)static void [**main**](#)(java.lang.String[] args)
Program entry point.

static void	startJGSL (java.lang.String[] args) Start the JGSL.
void	valueChanged (javax.swing.event. ListSelectionEvent listSelectionEvent)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

JGSLSwingFrame

```
public JGSLSwingFrame(javax.swing.JFrame frame)
                    throws java.awt.HeadlessException
```

Constructs a new frame that is initially invisible.

This constructor sets the component's locale property to the value returned by JComponent.getDefaultLocale.

Throws:

java.awt.HeadlessException - if GraphicsEnvironment.isHeadless() returns true.

See Also:

GraphicsEnvironment.isHeadless(), Component.setSize(int, int), Component.setVisible(boolean), JComponent.getDefaultLocale()

Method Detail

actionPerformed

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

Specified by:

actionPerformed in interface java.awt.event.ActionListener

getMainPanel

```
public javax.swing.JPanel getMainPanel()
```

Return reference to the main panel.

itemStateChanged

```
public void itemStateChanged(java.awt.event.ItemEvent itemEvent)
```

Specified by:

itemStateChanged in interface java.awt.event.ItemListener

main

```
public static void main(java.lang.String[] args)
```

Program entry point.

startJGSL

```
public static void startJGSL(java.lang.String[] args)
```

Start the JGSL. This method is needed to work around the strange startup requirements by the IntelliJ IDEA GUI builder.

valueChanged

```
public void valueChanged(javax.swing.event.ListSelectionEvent listSelectionEvent)
```

Specified by:

valueChanged in interface javax.swing.event.ListSelectionListener

jgsl.util

Class JGSLToImage

java.lang.Object

└─ jgsl.util.JGSLToImage

```
public class JGSLToImage
```

```
extends java.lang.Object
```

```
TODO - write java docs
```

Version:

```
$Id: JGSLToImage.java,v 1.1 2005/05/21 01:42:10 zenarchitect Exp $
```

Author:

```
$Author: zenarchitect $
```

Field Summary

static int	BMP
static int	GIF
static int	JPEG
static int	PNG

Constructor Summary

JGSLToImage (javax.swing.JFrame comp)

Method Summary

void	<code>save</code> (java.lang.String fileName, int outType)
void	<code>save</code> (java.lang.String fileName, java.lang.String outType)

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Field Detail

BMP

```
public static final int BMP
```

See Also:

[Constant Field Values](#)

GIF

```
public static final int GIF
```

See Also:

[Constant Field Values](#)

JPEG

```
public static final int JPEG
```

See Also:

[Constant Field Values](#)

PNG

```
public static final int PNG
```

See Also:

[Constant Field Values](#)

Constructor Detail

JGSLToImage

```
public JGSLToImage(javax.swing.JFrame comp)
```

Method Detail

save

```
public void save(java.lang.String fileName,  
                 int outType)  
    throws java.io.IOException
```

Throws:

```
java.io.IOException
```

save

```
public void save(java.lang.String fileName,  
                 java.lang.String outType)  
    throws java.io.IOException
```

Throws:

```
java.io.IOException
```


jgsl.view.swing

Class JGSLViewer

java.lang.Object

└─ **jgsl.view.swing.JGSLViewer**

```
public class JGSLViewer
```

```
extends java.lang.Object
```

The JGSLViewer class is executed as a main class by the JGSL at runtime. It takes the supplied class name and creates and instance using reflection. This class is an subclass of BaseFrame thus represents a compiled JGSL script. It assumed the the JVM and CLASSPATH are set properly by the SwingScriptViewer class.

Version:

\$Id: JGSLViewer.java,v 1.5 2005/05/21 01:42:11 zenarchitect Exp \$

Author:zenarchitect

Constructor Summary

[JGSLViewer](#) ()

Method Summary

static void	<u>main</u> (java.lang.String[] args)
	Create the BaseFrame subclass and window closing actions then display the window to the user.

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Constructor Detail

JGSLViewer

```
public JGSLViewer()
```

Method Detail

main

```
public static void main(java.lang.String[] args)  
    throws java.lang.Exception
```

Create the BaseFrame subclass and window closing actions then display the window to the user.

Parameters:

`args` - A single argument specifying the JGSL Java class name.

Throws:

`java.lang.Exception`

jgsl.model

Class Logical

java.lang.Object

└─ jgsl.model.Logical

All Implemented Interfaces:

java.io.Serializable, [Statement](#)

```
public class Logical
```

```
extends java.lang.Object
```

```
implements Statement, java.io.Serializable
```

A logical statement is one in which the product of a logical comparison results in TRUE or FALSE.

Version:

\$Id: Logical.java,v 1.2 2005/05/16 00:54:18 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[Logical](#) ()

Method Summary

java. lang. String	
--------------------------	--

	getJava ()
--	-----------------------------

	This method returns the Java language equivalent of the JGSL statement.
--	---

java. lang. String	getType() Return the type of statement.
void	setJGSL() (java.lang.String jgsl) Set the JGSL statement body

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Logical

```
public Logical()
```

Method Detail

getJava

```
public java.lang.String getJava()
```

This method returns the Java language equivalent of the JGSL statement.

Specified by:

[getJava](#) in interface [Statement](#)

Returns:

Java language statement from the JGSL

getType

```
public java.lang.String getType()
```

Return the type of statement. The String form of the class name.

Specified by:

[getType](#) in interface [Statement](#)

setJGSL

```
public void setJGSL(java.lang.String jgsl)
```

Set the JGSL statement body

Specified by:

[setJGSL](#) in interface [Statement](#)

jgsl.io

Interface Message

All Known Implementing Classes:
[ScriptError](#), [ScriptMessage](#), [ScriptWarning](#)

```
public interface Message
```

Interface for message types

Version:
 \$Id: Message.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:
 ZenArchitect

Nested Class Summary	
static class	Message.MessageType Message types

Method Summary	
java.lang. String	getDetailMessage () Return a detailed message
java.lang. String	getMessage () Retuns the message
Message.MessageType	getType () Returns the type of message

Method Detail

getDetailMessage

```
java.lang.String getDetailMessage()
```

Return a detailed message

Returns:

A string containing a detailed message

getMessage

```
java.lang.String getMessage()
```

Retuns the message

Returns:

A string containing a simple message

getType

```
Message.MessageType getType()
```

Returns the type of message

Returns:

MessageType

jgsl.io

Enum Message.MessageType

java.lang.Object

- ↳ java.lang.Enum<[Message.MessageType](#)>
- ↳ jgsl.io.Message.MessageType

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<[Message.MessageType](#)>

Enclosing interface:

[Message](#)

public static enum **Message.MessageType**

extends java.lang.Enum<[Message.MessageType](#)>

Message types

Enum Constant Summary	
ERROR	
MESSAGE	
WARNING	

Method Summary	
static Message.MessageType	valueOf (java.lang.String name) Returns the enum constant of this type with the specified name.

static Message.MessageType []	values () Returns an array containing the constants of this enum type, in the order they're declared.
---	--

Methods inherited from class java.lang.Enum
<code>compareTo</code> , <code>equals</code> , <code>getDeclaringClass</code> , <code>hashCode</code> , <code>name</code> , <code>ordinal</code> , <code>toString</code> , <code>valueOf</code>

Methods inherited from class java.lang.Object
<code>getClass</code> , <code>notify</code> , <code>notifyAll</code> , <code>wait</code> , <code>wait</code> , <code>wait</code>

Enum Constant Detail

ERROR

public static final [Message.MessageType](#) **ERROR**

MESSAGE

public static final [Message.MessageType](#) **MESSAGE**

WARNING

public static final [Message.MessageType](#) **WARNING**

Method Detail

valueOf

public static [Message.MessageType](#) **valueOf**(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

`java.lang.IllegalArgumentException` - if this enum type has no constant with the specified name

values

```
public static final Message.MessageType[] values()
```

Returns an array containing the constants of this enum type, in the order they're declared. This method may be used to iterate over the constants as follows:

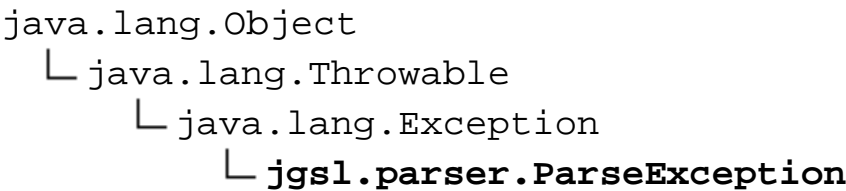
```
for(Message.MessageType c : Message.MessageType.values())  
    System.out.println(c);
```

Returns:

an array containing the constants of this enum type, in the order they're declared

jgsl.parser

Class ParseException



All Implemented Interfaces:

java.io.Serializable

public class **ParseException**

extends java.lang.Exception

This exception is thrown when parse errors are encountered. You can explicitly create objects of this exception type by calling the method generateParseException in the generated parser.

You can modify this class to customize your error reporting mechanisms so long as you retain the public fields.

See Also:

[Serialized Form](#)

Field Summary	
Token	currentToken This is the last token that has been consumed successfully.
int[] []	expectedTokenSequences Each entry in this array is an array of integers.

```
java.
lang.
String
[]
```

[tokenImage](#)

This is a reference to the "tokenImage" array of the generated parser within which the parse error occurred.

Constructor Summary

[ParseException](#)()

The following constructors are for use by you for whatever purpose you can think of.

[ParseException](#)(java.lang.String message)

[ParseException](#)([Token](#) currentTokenVal, int[]

[] expectedTokenSequencesVal, java.lang.String[] tokenImageVal)

This constructor is used by the method "generateParseException" in the generated parser.

Method Summary

```
java.
lang.
String
```

[getMessage](#)()

This method has the standard behavior when this object has been created using the standard constructors.

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

currentToken

```
public Token currentToken
```

This is the last token that has been consumed successfully. If this object has been created due to a

parse error, the token following this token will (therefore) be the first error token.

expectedTokenSequences

```
public int[][] expectedTokenSequences
```

Each entry in this array is an array of integers. Each array of integers represents a sequence of tokens (by their ordinal values) that is expected at this point of the parse.

tokenImage

```
public java.lang.String[] tokenImage
```

This is a reference to the "tokenImage" array of the generated parser within which the parse error occurred. This array is defined in the generated ...Constants interface.

Constructor Detail

ParseException

```
public ParseException()
```

The following constructors are for use by you for whatever purpose you can think of. Constructing the exception in this manner makes the exception behave in the normal way - i.e., as documented in the class "Throwable". The fields "errorToken", "expectedTokenSequences", and "tokenImage" do not contain relevant information. The JavaCC generated code does not use these constructors.

ParseException

```
public ParseException(java.lang.String message)
```

ParseException

```
public ParseException(Token currentTokenVal,  
                    int[][] expectedTokenSequencesVal,  
                    java.lang.String[] tokenImageVal)
```

This constructor is used by the method "generateParseException" in the generated parser. Calling this constructor generates a new object of this type with the fields "currentToken", "expectedTokenSequences", and "tokenImage" set. The boolean flag "specialConstructor" is also set to true to indicate that this constructor was used to create this object. This constructor calls its super class with the empty string to force the "toString" method of parent class "Throwable" to print the error message in the form: ParseException:

Method Detail

getMessage

```
public java.lang.String getMessage()
```

This method has the standard behavior when this object has been created using the standard constructors. Otherwise, it uses "currentToken" and "expectedTokenSequences" to generate a parse error message and returns it. If this object has been created due to a parse error, and you do not catch it (it gets thrown from the parser), then this method is called during the printing of the final stack trace, and hence the correct error message gets displayed.

Overrides:

getMessage in class java.lang.Throwable

jgsl.io

Interface ParseStatus

All Known Implementing Classes:

[JGSLScript](#)

```
public interface ParseStatus
```

ParseStatus interface for collecting and reporting errors and error counts.

Version:

\$Id: ParseStatus.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

void	addError (ScriptError se) Add a ScriptError to the parse status
void	addMessage (ScriptMessage sm) Add a ScriptMessage to the parse status
void	addWarning (ScriptWarning sw) Add a ScriptWarning to the parse status
boolean	hasErrors () Return the error state of the script
boolean	hasMessages () Return the message state of the script
boolean	hasWarnings () Return the warning state of the script

Method Detail

addError

```
void addError(ScriptError se)
```

Add a ScriptError to the parse status

Parameters:

se -

addMessage

```
void addMessage(ScriptMessage sm)
```

Add a ScriptMessage to the parse status

Parameters:

sm -

addWarning

```
void addWarning(ScriptWarning sw)
```

Add a ScriptWarning to the parse status

Parameters:

sw -

hasErrors

```
boolean hasErrors( )
```

Return the error state of the script

Returns:

true of the script contains errors or false otherwise

hasMessages

boolean **hasMessages**()

Return the message state of the script

Returns:

true of the script contains messages or false otherwise

hasWarnings

boolean **hasWarnings**()

Return the warning state of the script

Returns:

true of the script contains warnings or false otherwise

jgsl.model

Interface Script

All Known Implementing Classes:[JGSLScript](#)

```
public interface Script
```

The script interface provide the set of operations for a script

Version:

\$Id: Script.java,v 1.2 2005/05/16 00:54:19 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

java. lang. String	getDocumentation () Returns the JGSL script documentation as specified in the DOC keyword by the script author.
java. lang. String	getJava () Return the Java implementation of this script
java. lang. String	getScriptName () Get the script name
void	setScriptName (java.lang.String scriptName) Set the script name

Method Detail

getDocumentation

```
java.lang.String getDocumentation()
```

Returns the JGSL script documentation as specified in the DOC keyword by the script author.

Returns:

The script documentation

getJava

```
java.lang.String getJava()
```

Return the Java implementation of this script

Returns:

the Java language implementation of this script

getScriptName

```
java.lang.String getScriptName()
```

Get the script name

Returns:

String containing the script name

setScriptName

```
void setScriptName(java.lang.String scriptName)
```

Set the script name

Parameters:

scriptName - name of the script file

jgsl.controller.script

Class ScriptEngine

java.lang.Object

└─ jgsl.controller.script.ScriptEngine

public class **ScriptEngine**

extends java.lang.Object

The ScriptEngine class is the controller for the JGSL application. It contains the command line processor for the command console interface. The *Interactive methods are the controller interfaced for the Interactive GUI.

Version:
\$Id: ScriptEngine.java,v 1.8 2005/05/21 01:42:06 zenarchitect Exp \$

Author:
zenarchitect

Constructor Summary
ScriptEngine ()

Method Summary	
JGSLScript	jarInteractive (java.io.File scriptFileName, java.io.File jarFileName) The method will parse the script contained in scriptFileName and then create an executable JAR file with name of jarFileName containing the Java class for the JGSL script.
JGSLScript	parseInteractive (java.io.File fileName) Parse the script supplied in fileName and return the JGSLScript containing the JGSL object model for the script.
void	processCommandLine (java.lang.String[] args) Process the command line arguments and perform the requested actions.
JGSLScript	viewInteractive (java.io.File fileName, java.lang.String saveToFileName) This method will parse the script contained in fileName and then display the result in the JGSL viewer.

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ScriptEngine

```
public ScriptEngine()
```

Method Detail

jarInteractive

```
public JGSLScript jarInteractive(java.io.File scriptFileName,
                                java.io.File jarFileName)
    throws ScriptEngineException,
           ScriptParserException
```

The method will parse the script contained in scriptFileName and then create an executable JAR file with name of jarFileName containing the Java class for the JGSL script.

Parameters:

scriptFileName - Name of JGSL script to create the JAR from.

jarFileName - Name of JAR file to generate

Returns:

JGSLScript object containing the script object model

Throws:

[ScriptParserException](#) - If a problem is encountered during parsing a ScriptParser exception will be thrown.

[ScriptEngineException](#) - If a problem occurs during the creation of the JAR file.

See Also:

[JGSLScript](#)

parseInteractive

```
public JGSLScript parseInteractive(java.io.File fileName)
    throws ScriptParserException
```

Parse the script supplied in fileName and return the JGSLScript containing the JGSL object model for the script.

Parameters:

fileName - Name of the JGSL script file

Returns:

JGSLScript object containing the script object model

Throws:

[ScriptParserException](#) - If a problem is encountered during parsing a ScriptParser exception will be thrown.

See Also:

[JGSLScript](#)

processCommandLine

```
public void processCommandLine(java.lang.String[] args)
```

throws [ScriptParserException](#),
[ScriptEngineException](#)

Process the command line arguments and perform the requested actions. The set of available options is listed below.

```
usage: jgsl.JGSL
  -d,--doc jgsl script filt script doc file  Generate script documentation
  -e,--exec script file                      Execute the script file
  -h,--help                                  Print this message
  -j,--jar jgsl script file JAR file         Generate JAR file for script
  -l,--logLevel user log level               Set user logging level
                                              to one of: LOG, DEBUG, ERROR,
WARNING
  -p,--parse script file                     Parse the script file and print
the results
  -s,--sysLogLevel system log level          Set system logging
                                              level to one of: LOG, DEBUG,
ERROR, WARNIN
  -v,--view Type of viewer, supports: swing  Parse, execute and view the script
```

Parameters:

args - Array of String references to valid arguments

Throws:

[ScriptParserException](#) - If parsing is requested and problem is found this script this exception will be thrown.

[ScriptEngineException](#) - If execution or JAR is requested and a problem occurs this exception will be thrown.

viewInteractive

```
public JGSLScript viewInteractive(java.io.File fileName,
                                java.lang.String saveToFileName)
    throws ScriptParserException
```

This method will parse the script contained in fileName and then display the result in the JGSL viewer.

Parameters:

fileName - Name of the JGSL script file

Returns:

JGSLScript object containing the script object model

Throws:

[ScriptParserException](#) - If a problem is encountered during parsing a ScriptParser exception will be thrown.

See Also:

[JGSLScript](#)

jgsl.controller.script

Class ScriptEngineException

java.lang.Object

└─ java.lang.Throwable

└─ jgsl.controller.script.ScriptEngineException

All Implemented Interfaces:

java.io.Serializable

```
public class ScriptEngineException
```

extends java.lang.Throwable

ScriptEngineException is thrown by the ScriptEngine class to report exception conditions.

Version:

\$Id: ScriptEngineException.java,v 1.3 2005/05/16 00:54:15 zenarchitect Exp \$

Author:

zenarchitect

See Also:

[Serialized Form](#)

Constructor Summary

[ScriptEngineException](#)()

Constructs a new throwable with null as its detail message.

[ScriptEngineException](#)(java.lang.String message)

Constructs a new throwable with the specified detail message.

[ScriptEngineException](#)(java.lang.String message, java.lang.Throwable cause)

Constructs a new throwable with the specified detail message and cause.

[ScriptEngineException](#)(`java.lang.Throwable cause`)

Constructs a new throwable with the specified cause and a detail message of (`cause==null ? null : cause.toString()`) (which typically contains the class and detail message of `cause`).

Method Summary

Methods inherited from class `java.lang.Throwable`

`fillInStackTrace`, `getCause`, `getLocalizedMessage`, `getMessage`, `getStackTrace`, `initCause`, `printStackTrace`, `printStackTrace`, `printStackTrace`, `setStackTrace`, `toString`

Methods inherited from class `java.lang.Object`

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `wait`, `wait`, `wait`

Constructor Detail

ScriptEngineException

```
public ScriptEngineException()
```

Constructs a new throwable with `null` as its detail message. The cause is not initialized, and may subsequently be initialized by a call to `Throwable.initCause(java.lang.Throwable)`.

The `Throwable.fillInStackTrace()` method is called to initialize the stack trace data in the newly created throwable.

ScriptEngineException

```
public ScriptEngineException(java.lang.String message)
```

Constructs a new throwable with the specified detail message. The cause is not initialized, and may subsequently be initialized by a call to `Throwable.initCause(java.lang.`

Throwable).

The `Throwable.fillInStackTrace()` method is called to initialize the stack trace data in the newly created throwable.

Parameters:

`message` - the detail message. The detail message is saved for later retrieval by the `Throwable.getMessage()` method.

ScriptEngineException

```
public ScriptEngineException(java.lang.String message,
                             java.lang.Throwable cause)
```

Constructs a new throwable with the specified detail message and cause.

Note that the detail message associated with `cause` is *not* automatically incorporated in this throwable's detail message.

The `Throwable.fillInStackTrace()` method is called to initialize the stack trace data in the newly created throwable.

Parameters:

`message` - the detail message (which is saved for later retrieval by the `Throwable.getMessage()` method).

`cause` - the cause (which is saved for later retrieval by the `Throwable.getCause()` method). (A `null` value is permitted, and indicates that the cause is nonexistent or unknown.)

Since:

1.4

ScriptEngineException

```
public ScriptEngineException(java.lang.Throwable cause)
```

Constructs a new throwable with the specified cause and a detail message of `(cause==null ? null : cause.toString())` (which typically contains the class and

detail message of cause). This constructor is useful for throwables that are little more than wrappers for other throwables (for example, `java.security.PrivilegedActionException`).

The `Throwable.fillInStackTrace()` method is called to initialize the stack trace data in the newly created throwable.

Parameters:

`cause` - the cause (which is saved for later retrieval by the `Throwable.getCause()` method). (A `null` value is permitted, and indicates that the cause is nonexistent or unknown.)

Since:

1.4

jgsl.controller.script

Class ScriptEngineTest

java.lang.Object

└ junit.framework.Assert

└ junit.framework.TestCase

└ jgsl.controller.script.ScriptEngineTest

All Implemented Interfaces:

junit.framework.Test

```
public class ScriptEngineTest
```

```
extends junit.framework.TestCase
```

ScriptParser JUnit tester.

Version:

\$Id: ScriptEngineTest.java,v 1.5 2005/05/21 01:42:06 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[ScriptEngineTest](#)(java.lang.String name)

Method Summary

void	<u>setUp</u> ()
------	----------------------------------

static junit. framework. Test	<u>suite</u> ()
void	<u>tearDown</u> ()
void	<u>testGenDocs</u> ()
void	<u>testGenJar</u> ()
void	<u>testScriptEngine</u> ()
void	<u>testScriptSaveToFile</u> ()
void	<u>testScriptViewer</u> ()

Methods inherited from class `junit.framework.TestCase`

```
countTestCases, getName, run, run, runBare, setName, toString
```

Methods inherited from class `junit.framework.Assert`

```
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals, assertEquals,
assertFalse, assertNotNull, assertNotNull, assertNotNull,
assertNotSame, assertNull, assertNull, assertEquals, assertEquals,
assertTrue, assertTrue, fail, fail
```

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Constructor Detail

ScriptEngineTest

```
public ScriptEngineTest(java.lang.String name)
```

Method Detail

setUp

```
public void setUp()  
    throws java.lang.Exception
```

Overrides:

setUp in class junit.framework.TestCase

Throws:

java.lang.Exception

suite

```
public static junit.framework.Test suite()
```

tearDown

```
public void tearDown()  
    throws java.lang.Exception
```

Overrides:

tearDown in class junit.framework.TestCase

Throws:

java.lang.Exception

testGenDocs

```
public void testGenDocs()  
    throws java.lang.Exception,
```

[ScriptEngineException](#)

Throws:

java.lang.Exception
[ScriptEngineException](#)

testGenJar

```
public void testGenJar()  
    throws java.lang.Exception,  
           ScriptEngineException
```

Throws:

java.lang.Exception
[ScriptEngineException](#)

testScriptEngine

```
public void testScriptEngine()  
    throws java.lang.Exception,  
           ScriptEngineException
```

Throws:

java.lang.Exception
[ScriptEngineException](#)

testScriptSaveToFile

```
public void testScriptSaveToFile()  
    throws java.lang.Exception,  
           ScriptEngineException
```

Throws:

java.lang.Exception

[ScriptEngineException](#)

testScriptViewer

```
public void testScriptViewer()  
    throws java.lang.Exception,  
           ScriptEngineException
```

Throws:

java.lang.Exception
[ScriptEngineException](#)

jgsl.io

Class ScriptError

java.lang.Object

└─ jgsl.io.ScriptError

All Implemented Interfaces:

[Message](#)

```
public class ScriptError
```

extends java.lang.Object

implements [Message](#)

A single script error with line and column info.

Version:

\$Id: ScriptError.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Nested Class Summary

Nested classes/interfaces inherited from interface jgsl.io.[Message](#)[Message.MessageType](#)

Constructor Summary

[ScriptError](#)(java.lang.String message)

```
ScriptError(java.lang.String message, int lineNumber, int colNumber)
```

Method Summary

java.lang. String	getDetailMessage () Return a detailed message
java.lang. String	getMessage () Retuns the message
Message. MessageType	getType () Returns the type of message

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

ScriptError

```
public ScriptError(java.lang.String message)
```

ScriptError

```
public ScriptError(java.lang.String message,  
                   int lineNumber,  
                   int colNumber)
```

Method Detail

getDetailMessage

```
public java.lang.String getDetailMessage( )
```

Return a detailed message

Specified by:

[getDetailMessage](#) in interface [Message](#)

Returns:

A string containing a detailed message

getMessage

```
public java.lang.String getMessage( )
```

Retuns the message

Specified by:

[getMessage](#) in interface [Message](#)

Returns:

A string containing a simple message

getType

```
public Message.MessageType getType( )
```

Returns the type of message

Specified by:

[getType](#) in interface [Message](#)

Returns:

MessageType

jgsl.io

Class ScriptMessage

java.lang.Object

└─ jgsl.io.ScriptMessage

All Implemented Interfaces:

[Message](#)

```
public class ScriptMessage
```

extends java.lang.Object

implements [Message](#)

A general script message generated by the parser.

Version:

\$Id: ScriptMessage.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Nested Class Summary

Nested classes/interfaces inherited from interface jgsl.io.[Message](#)[Message.MessageType](#)

Constructor Summary

[ScriptMessage](#)(java.lang.String message)

Method Summary

java.lang. String	getDetailMessage () Return a detailed message
java.lang. String	getMessage () Retuns the message
Message . MessageType	getType () Returns the type of message

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

ScriptMessage

```
public ScriptMessage(java.lang.String message)
```

Method Detail

getDetailMessage

```
public java.lang.String getDetailMessage( )
```

Return a detailed message

Specified by:

[getDetailMessage](#) in interface [Message](#)

Returns:

A string containing a detailed message

getMessage

```
public java.lang.String getMessage( )
```

Returns the message

Specified by:

[getMessage](#) in interface [Message](#)

Returns:

A string containing a simple message

getType

```
public Message.MessageType getType( )
```

Returns the type of message

Specified by:

[getType](#) in interface [Message](#)

Returns:

MessageType

jgsl.io

Class ScriptParser

java.lang.Object

└─ jgsl.io.ScriptParser

```
public class ScriptParser
```

```
extends java.lang.Object
```

Parse the specified script file using the JGSL_Parser and report the status of the parse.

Version:

\$Id: ScriptParser.java,v 1.6 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[ScriptParser](#)()

Method Summary

<u>JGSLScript</u>	<u>execScript</u> (java.io.File scriptFile)
-----------------------------------	---

java.lang. String	<u>parseScript</u> (java.io.File scriptFile)
----------------------	--

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait

Constructor Detail

ScriptParser

```
public ScriptParser()
```

Method Detail

execScript

```
public JGSLScript execScript(java.io.File scriptFile)  
    throws ScriptParserException
```

Throws:

[ScriptParserException](#)

parseScript

```
public java.lang.String parseScript(java.io.File scriptFile)  
    throws ScriptParserException
```

Throws:

[ScriptParserException](#)

jgsl.io

Class ScriptParserException

java.lang.Object

└ java.lang.Throwable

└ java.lang.Exception

└ jgsl.io.ScriptParserException

All Implemented Interfaces:

java.io.Serializable

```
public class ScriptParserException
```

```
extends java.lang.Exception
```

Report script parsing exceptions.

Version:

\$Id: ScriptParserException.java,v 1.2 2005/05/16 00:54:16 zenarchitect Exp \$

Author:

Joe Chavez

See Also:

[Serialized Form](#)

Constructor Summary

[ScriptParserException](#)(java.lang.String message)

Constructs a new exception with the specified detail message.

Method Summary

Methods inherited from class java.lang.Throwable

```
fillInStackTrace, getCause, getLocalizedMessage, getMessage,  
getStackTrace, initCause, printStackTrace, printStackTrace,  
printStackTrace, setStackTrace, toString
```

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Constructor Detail

ScriptParserException

```
public ScriptParserException(java.lang.String message)
```

Constructs a new exception with the specified detail message. The cause is not initialized, and may subsequently be initialized by a call to `Throwable.initCause(java.lang.Throwable)`.

Parameters:

`message` - the detail message. The detail message is saved for later retrieval by the `Throwable.getMessage()` method.

jgsl.io

Class ScriptParserTest

java.lang.Object

└ junit.framework.Assert

└ junit.framework.TestCase

└ **jgsl.io.ScriptParserTest**

All Implemented Interfaces:

junit.framework.Test

```
public class ScriptParserTest
```

```
extends junit.framework.TestCase
```

ScriptParser Tester.

Since:

02/23/2005

Version:

1.0

Author:

Constructor Summary

[ScriptParserTest](#)(java.lang.String name)

Method Summary

```
countTestCases, getName, run, run, runBare, setName, toString
```

```
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals,
assertEquals, assertEquals, assertEquals, assertEquals, assertEquals,
assertFalse, assertNotNull, assertNotNull, assertNotNull,
assertNotNull, assertNull, assertNull, assertEquals, assertEquals,
assertTrue, assertTrue, fail, fail
```

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

setUp

```
public void setUp()  
    throws java.lang.Exception
```

Overrides:

setUp in class junit.framework.TestCase

Throws:

java.lang.Exception

suite

```
public static junit.framework.Test suite()
```

tearDown

```
public void tearDown()  
    throws java.lang.Exception
```

Overrides:

tearDown in class junit.framework.TestCase

Throws:

java.lang.Exception

testParseScript

```
public void testParseScript()  
    throws java.lang.Exception
```

Throws:

java.lang.Exception

jgsl.io

Class ScriptParserUtil

java.lang.Object

└─ jgsl.io.ScriptParserUtil

```
public class ScriptParserUtil
```

```
extends java.lang.Object
```

Parse a Sting into and int

Version:

\$Id: ScriptParserUtil.java,v 1.2 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[ScriptParserUtil](#)()

Method Summary

static int	<u>parseInt</u> (java.lang.String val)
------------	---

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ScriptParserUtil

```
public ScriptParserUtil()
```

Method Detail

parseInt

```
public static int parseInt(java.lang.String val)  
    throws ScriptParserException
```

Throws:

[ScriptParserException](#)

jgsl.view

Interface ScriptViewer

All Known Implementing Classes:[SwingScriptViewer](#)

```
public interface ScriptViewer
```

Interface for JGSL script viewer windows.

Version:

\$Id: ScriptViewer.java,v 1.3 2005/05/21 01:42:12 zenarchitect Exp \$

Author:zenarchitect

Method Summary

void	renderScript (java.lang.String fullClassName, java.lang.String saveToFileType) Render the script code in fullClassName to a GUI window.
------	--

Method Detail

renderScript

```
void renderScript( java.lang.String fullClassName,  
                  java.lang.String saveToFileType)
```

Render the script code in fullClassName to a GUI window.

Parameters:

fullClassName -

jgsl.io

Class ScriptWarning

java.lang.Object

└─ jgsl.io.ScriptWarning

All Implemented Interfaces:

[Message](#)

```
public class ScriptWarning
```

extends java.lang.Object

implements [Message](#)

Record a script warning message.

Version:

\$Id: ScriptWarning.java,v 1.2 2005/05/16 00:54:17 zenarchitect Exp \$

Author:

zenarchitect

Nested Class Summary

Nested classes/interfaces inherited from interface jgsl.io.[Message](#)[Message.MessageType](#)

Constructor Summary

[ScriptWarning](#)(java.lang.String message)

```
ScriptWarning(java.lang.String message, int lineNumber,  
int colNumber)
```

Method Summary

java.lang. String	getDetailMessage () Return a detailed message
java.lang. String	getMessage () Retuns the message
Message. MessageType	getType () Returns the type of message

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

ScriptWarning

```
public ScriptWarning(java.lang.String message)
```

ScriptWarning

```
public ScriptWarning(java.lang.String message,  
                     int lineNumber,  
                     int colNumber)
```

Method Detail

getDetailMessage

```
public java.lang.String getDetailMessage()
```

Return a detailed message

Specified by:

[getDetailMessage](#) in interface [Message](#)

Returns:

A string containing a detailed message

getMessage

```
public java.lang.String getMessage()
```

Retuns the message

Specified by:

[getMessage](#) in interface [Message](#)

Returns:

A string containing a simple message

getType

```
public Message.MessageType getType()
```

Returns the type of message

Specified by:

[getType](#) in interface [Message](#)

Returns:

MessageType

jgsl.model

Interface Statement

All Known Implementing Classes:

[AbstractStatement](#), [Assignment](#), [Command](#), [Declaration](#), [Documentation](#), [Logical](#)

```
public interface Statement
```

The Statement interface provides the set of operations common to all JGSL statements.

Version:

\$Id: Statement.java,v 1.2 2005/05/16 00:54:19 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

java. lang. String	getJava () This method returns the Java language equivalent of the JGSL statement.
java. lang. String	getType () Return the type of statement.
void	setJGSL (java.lang.String jgsl) Set the JGSL statement body

Method Detail

getJava

```
java.lang.String getJava( )
```

This method returns the Java language equivalent of the JGSL statement.

Returns:

Java language statement from the JGSL

getType

```
java.lang.String getType( )
```

Return the type of statement. The String form of the class name.

setJGSL

```
void setJGSL( java.lang.String jgsl )
```

Set the JGSL statement body

jgsl.view.swing

Class SwingScriptViewer

java.lang.Object

└─ jgsl.view.swing.SwingScriptViewer

All Implemented Interfaces:

[ScriptViewer](#)

```
public class SwingScriptViewer
```

extends java.lang.Object

implements [ScriptViewer](#)

The SwingScriptViewer class creates an JVM that executes the JGSLViewer class with an argument of the compiled JGSL script Java class.

Version:

\$Id: SwingScriptViewer.java,v 1.6 2005/05/21 01:42:11 zenarchitect Exp \$

Author:

zenarchitect

Constructor Summary

[SwingScriptViewer](#) ()

Method Summary

void	renderScript (java.lang.String fullClassName, java.lang.String saveToFileName) Reder the script by creating a Process object with the properly JGSL runtime class path.
------	--

Methods inherited from class java.lang.Object

`equals`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructor Detail

SwingScriptViewer

```
public SwingScriptViewer()
```

Method Detail

renderScript

```
public void renderScript(java.lang.String fullClassName,  
                           java.lang.String saveToFileName)
```

Reder the script by creating a Process object with the properly JGSL runtime class path. The runtime classpath includes the compile JGSL script in the form of a Java class. Also required on the classpath are the jgsl_rt.jar and log4j-1.2.9.jar files.

Specified by:

[`renderScript`](#) in interface [`ScriptViewer`](#)

Parameters:

`fullClassName` -

jgsl.parser

Class Token

java.lang.Object

└─ jgsl.parser.Token

public class **Token**

extends java.lang.Object

Describes the input token stream.

Field Summary	
int	beginColumn beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	beginLine beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	endColumn beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	endLine beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
java.lang.String	image The string image of the token.
int	kind An integer that describes the kind of this token.

Token	next A reference to the next regular (non-special) token from the input stream.
Token	specialToken This field is used to access special tokens that occur prior to this token, but after the immediately preceding regular (non-special) token.

Constructor Summary

[Token](#) ()

Method Summary

static Token	newToken (int ofKind) Returns a new Token object, by default.
java.lang. String	toString () Returns the image.

Methods inherited from class java.lang.Object

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

Field Detail

beginColumn

```
public int beginColumn
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

beginLine

```
public int beginLine
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

endColumn

```
public int endColumn
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

endLine

```
public int endLine
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

image

```
public java.lang.String image
```

The string image of the token.

kind

```
public int kind
```

An integer that describes the kind of this token. This numbering system is determined by JavaCCParser, and a table of these numbers is stored in the file ...Constants.java.

next

```
public Token next
```

A reference to the next regular (non-special) token from the input stream. If this is the last token from the input stream, or if the token manager has not read tokens beyond this one, this field is set to null. This is true only if this token is also a regular token. Otherwise, see below for a description of the contents of this field.

specialToken

```
public Token specialToken
```

This field is used to access special tokens that occur prior to this token, but after the immediately preceding regular (non-special) token. If there are no such special tokens, this field is set to null. When there are more than one such special token, this field refers to the last of these special tokens, which in turn refers to the next previous special token through its specialToken field, and so on until the first special token (whose specialToken field is null). The next fields of special tokens refer to other special tokens that immediately follow it (without an intervening regular token). If there is no such token, this field is null.

Constructor Detail

Token

```
public Token()
```

Method Detail

newToken

```
public static final Token newToken(int ofKind)
```

Returns a new Token object, by default. However, if you want, you can create and return subclass objects based on the value of ofKind. Simply add the cases to the switch for all those special cases. For example, if you have a subclass of Token called IDToken that you want to create if ofKind is ID, simply add something like :

```
case MyParserConstants.ID : return new IDToken();
```

to the following switch statement. Then you can cast `matchedToken` variable to the appropriate type and use it in your lexical actions.

toString

```
public java.lang.String toString()
```

Returns the image.

Overrides:

`toString` in class `java.lang.Object`

jgsl.parser

Class TokenMgrError

```
java.lang.Object
├ java.lang.Throwable
│   └ java.lang.Error
│       └ jgsl.parser.TokenMgrError
```

All Implemented Interfaces:

java.io.Serializable

```
public class TokenMgrError
```

```
extends java.lang.Error
```

See Also:

[Serialized Form](#)

Constructor Summary

[TokenMgrError](#)()

[TokenMgrError](#)(boolean EOFSeen, int lexState, int errorLine, int errorColumn, java.lang.String errorAfter, char curChar, int reason)

[TokenMgrError](#)(java.lang.String message, int reason)

Method Summary

```

java.
lang.
String

```

[getMessage\(\)](#)

You can also modify the body of this method to customize your error messages.

Methods inherited from class java.lang.Throwable

```

fillInStackTrace, getCause, getLocalizedMessage, getStackTrace,
initCause, printStackTrace, printStackTrace, printStackTrace,
setStackTrace, toString

```

Methods inherited from class java.lang.Object

```

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

```

Constructor Detail

TokenMgrError

```
public TokenMgrError()
```

TokenMgrError

```

public TokenMgrError(boolean EOFSeen,
                    int lexState,
                    int errorLine,
                    int errorColumn,
                    java.lang.String errorAfter,
                    char curChar,
                    int reason)

```

TokenMgrError

```

public TokenMgrError(java.lang.String message,
                    int reason)

```


Method Detail

getMessage

```
public java.lang.String getMessage()
```

You can also modify the body of this method to customize your error messages. For example, cases like LOOP_DETECTED and INVALID_LEXICAL_STATE are not of end-users concern, so you can return something like :

```
"Internal Error : Please file a bug report .... "
```

from this method for such cases in the release version of your parser.

Overrides:

getMessage in class `java.lang.Throwable`

jgsl.model

Interface Type

All Known Implementing Classes:

[JGSLColor](#), [JGSLLDouble](#), [JGSLInteger](#), [JGSLString](#)

```
public interface Type
```

Version:

\$Id: Type.java,v 1.2 2005/05/16 00:54:19 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

java. lang. Class	getJavaClass () Get the java Class meta-data for this type
java. lang. String	getJavaType () Get the Java type as a String

Method Detail

getJavaClass

```
java.lang.Class getJavaClass ( )
```

Get the java Class meta-data for this type

Returns:

The Class mete-data for this type

getJavaType

```
java.lang.String getJavaType()
```

Get the Java type as a String

Returns:

a String containing the type

jgsl.model

Interface Value

All Known Implementing Classes:

[JGSLColor](#), [JGSLLDouble](#), [JGSLInteger](#), [JGSLString](#)

public interface **Value**

Version:

\$Id: Value.java,v 1.2 2005/05/16 00:54:19 zenarchitect Exp \$

Author:

zenarchitect

Method Summary

java. lang. String	getJavaValue () Get the Java representation of this value
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Method Detail

getJavaValue

java.lang.String **getJavaValue**()

Get the Java representation of this value

Returns:

A String containing the Java representation of this value
