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All Classes

	Class Summary
Class	Description
ApplicationPong	
Background_Pong	
Ball_Pong	
Computer_Pong	
Credits	
MainMenu	
Player_Pong	
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All Packages

Package Summary

Package **Description**

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SEARCH:

Class ApplicationPong

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

ApplicationPong

All Implemented Interfaces:

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

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

See Also:

[Serialized Form](#)

• Nested Class Summary

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

java.awt.Window.Type

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

java.awt.Component.BaselineResizeBehavior

• Field Summary

Modifier and Type	Field	Description
int	windowHeight	
int	windowWidth	

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 java.awt.image.ImageObserver

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

Fields inherited from interface javax.swing.WindowConstants

DISPOSE_ON_CLOSE, DO_NOTHING_ON_CLOSE, EXIT_ON_CLOSE, HIDE_ON_CLOSE

• Constructor Summary

Constructor	Description
ApplicationPong()	

• Method Summary

Modifier and Type	Method	Description
void	load()	
void	setCustomColor (java.lang.String color)	
void	setName (java.lang.String name)	
void	setSpeedOfBall (double speedOfBall)	
void	setSpeedOfComputer (double speedOfComputer)	
void	setSpeedOfPlayer (double speedOfPlayer)	
void	setTheWinningScore (int theWinningScore)	
void	setWindowHeight (int windowHeight)	
void	setWindowWidth (int windowWidth)	

Methods inherited from class javax.swing.JFrame

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

Methods inherited from class java.awt.Frame

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

Methods inherited from class java.awt.Window

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

Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, applyComponentOrientation, areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt, findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt, getComponentAt, getComponentCount, getComponentCount, 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, 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, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgoundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setMixingCutoutShape, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, 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 Details

- **windowWidth**

```
public int windowHeight
```
- **windowHeight**

```
public int windowHeight
```

• Constructor Details

- **ApplicationPong**

```
public ApplicationPong()
```

• Method Details

- **load**

```
public void load()
```
- **setWindowWidth**

```
public void setWindowWidth(int windowWidth)
```

Parameters:
windowWidth - the windowHeight to set
- **setWindowHeight**

```
public void setWindowHeight(int windowHeight)
```

Parameters:
windowHeight - the windowHeight to set
- **setSpeedOfComputer**

```
public void setSpeedOfComputer(double speedOfComputer)
```

Parameters:
speedOfComputer - the speedOfComputer to set
- **setSpeedOfPlayer**

```
public void setSpeedOfPlayer(double speedOfPlayer)
```

Parameters:
speedOfPlayer - the speedOfPlayer to set
- **setName**

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

Overrides:
setName in class java.awt.Component
- **setSpeedOfBall**

```
public void setSpeedOfBall(double speedOfBall)
```

Parameters:
speedOfBall - the speedOfBall to set
- **setTheWinningScore**

```
public void setTheWinningScore(int theWinningScore)
```

Parameters:
theWinningScore - the theWinningScore to set
- **setCustomColor**

```
public void setCustomColor(java.lang.String color)
```

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Class Background_Pong

java.lang.Object
Background_Pong

```
public class Background_Pong
extends java.lang.Object
```

• Constructor Summary

Constructors	
Constructor	Description
Background_Pong (double x, double y)	

• Method Summary

<div>All MethodsInstance MethodsConcrete Methods</div>		
Modifier and Type	Method	Description
int	getHeight()	
java.awt.Image	getImage()	
int	getWidth()	
double	getX()	
double	getY()	
void	update()	

Methods inherited from class java.lang.Object

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

• Constructor Details

- **Background_Pong**

```
public Background_Pong(double x, double y)
```

• Method Details

- **update**

public void update()

- **getX**

public double getX()

Returns:
the x

- **getY**

public double getY()

Returns:
the y

- **getWidth**

public int getWidth()

Returns:
the width

- **getHeight**

public int getHeight()

Returns:
the height

- **getImage**

public java.awt.Image getImage()

Returns:
the image

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Class Ball_Pong

java.lang.Object
Ball_Pong

```
public class Ball_Pong
extends java.lang.Object
```

• Field Summary

Fields		
Modifier and Type	Field	Description
double	change	
int	screenHeight	
int	screenWidth	

• Constructor Summary

Constructors	
Constructor	Description
Ball_Pong (double moveChange)	

• Method Summary

<div>All MethodsInstance MethodsConcrete Methods</div>		
Modifier and Type	Method	Description
void	collision ()	
double	getdY ()	
int	getHeight ()	
java.awt.Image	getImage ()	
int	getWidth ()	
double	getX ()	
double	getY ()	
void	move ()	
void	updateImage (boolean yesCollision)	

Methods inherited from class java.lang.Object

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

• Field Details

- **screenHeight**

`public int screenHeight`

- **screenWidth**

`public int screenWidth`

- **change**

`public double change`

• Constructor Details

- **Ball_Pong**

`public Ball_Pong(double moveChange)`

• Method Details

- **getX**

`public double getX()`

- **getY**

`public double getY()`

- **getWidth**

`public int getWidth()`

- **getHeight**

`public int getHeight()`

- **getImage**

`public java.awt.Image getImage()`

- **move**

`public void move()`

- **collision**

`public void collision()`

- **getdY**

`public double getdY()`

- **updateImage**

`public void updateImage(boolean yesCollision)`

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Class Computer_Pong

java.lang.Object
Computer_Pong

```
public class Computer_Pong
extends java.lang.Object
```

• Field Summary

Fields		
Modifier and Type	Field	Description
double	changeY	
double	dy	
int	screenHeight	

• Constructor Summary

Constructors	
Constructor	Description
Computer_Pong	(double moveChange, java.lang.String customization)

• Method Summary

<div>All MethodsInstance MethodsConcrete Methods</div>		
Modifier and Type	Method	Description
int	getHeight()	
java.awt.Image	getImage()	
int	getWidth()	
double	getX()	
double	getY()	
void	move()	
void	negdY()	
void	posdY()	

Methods inherited from class java.lang.Object

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

• Field Details

- **dy**

public double dy

- **changeY**

public double changeY

- **screenHeight**

public int screenHeight

• Constructor Details

- **Computer_Pong**

public Computer_Pong(double moveChange, java.lang.String customization)

• Method Details

- **getX**

public double getX()

- **getY**

public double getY()

- **getWidth**

public int getWidth()

- **getHeight**

public int getHeight()

- **getImage**

public java.awt.Image getImage()

- **move**

public void move()

- **negdY**

public void negdY()

- **posdY**

public void posdY()

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Class Credits

java.lang.Object
Credits

```
public class Credits
extends java.lang.Object
```

- **Constructor Summary**

Constructors
Constructor Description
Credits ()

- **Method Summary**

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

- **Constructor Details**

◦ Credits
<code>public Credits()</code>

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How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. These pages may contain six categories:

- Interfaces
- Classes
- Enums
- Exceptions
- Errors
- Annotation Types

Class or Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class Inheritance Diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class or Interface Declaration
- Class or Interface Description

- Nested Class Summary
- Field Summary
- Property Summary
- Constructor Summary
- Method Summary

- Field Details
- Property Details
- Constructor Details
- Method Details

The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Annotation Type

Each annotation type has its own separate page with the following sections:

- Annotation Type Declaration
- Annotation Type Description
- Required Element Summary
- Optional Element Summary

- [Element Details](#)

Enum

Each enum has its own separate page with the following sections:

- Enum Declaration
- Enum Description
- Enum Constant Summary
- Enum Constant Details

Use

Each documented package, class and interface has its own Use page. This page describes what packages, classes, methods, constructors and fields use any part of the given class or package. Given a class or interface A, its "Use" page includes subclasses of A, fields declared as A, methods that return A, and methods and constructors with parameters of type A. You can access this page by first going to the package, class or interface, then clicking on the "Use" link in the navigation bar.

Tree (Class Hierarchy)

There is a [Class Hierarchy](#) page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. Classes are organized by inheritance structure starting with `java.lang.Object`. Interfaces do not inherit from `java.lang.Object`.

- When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking on "Tree" displays the hierarchy for only that package.

Deprecated API

The [Deprecated API](#) page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to shortcomings, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

Index

The [Index](#) contains an alphabetic index of all classes, interfaces, constructors, methods, and fields, as well as lists of all packages and all classes.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to those who implement rather than use the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See Also" section of the class description.

Constant Field Values

The [Constant Field Values](#) page lists the static final fields and their values.

Search

You can search for definitions of modules, packages, types, fields, methods, system properties and other terms defined in the API, using some or all of the name, optionally using "camel-case" abbreviations. For example:

- `j.l.obj` will match "java.lang.Object"
- `InpStr` will match "java.io.InputStream"
- `HM.cK` will match "java.util.HashMap.containsKey(Object)"

Refer to [the Javadoc Search Specification](#) for a full description of search features.

This help file applies to API documentation generated by the standard doclet.

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Class MainMenu

java.lang.Object
MainMenu

```
public class MainMenu
extends java.lang.Object
```

• Constructor Summary

Constructors	
Constructor	Description
MainMenu ()	Create the application.

• Method Summary

<div>All MethodsStatic MethodsInstance MethodsConcrete Methods</div>		
Modifier and Type	Method	Description
static void	bcgMusic (int id)	
static void	close ()	
static void	initialize ()	
static void	main (java.lang.String[] args)	Launch the application.
void	start ()	Initialize the contents of the frame.

Methods inherited from class java.lang.Object

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

• Constructor Details

- **MainMenu**

```
public MainMenu()
Create the application.
```

• Method Details

- **main**

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

- **start**

```
public void start()
Initialize the contents of the frame.
```

- **bcgMusic**

```
public static void bcgMusic(int id)
```

- **initialize**

```
public static void initialize()
```

- **close**

```
public static void close()
```

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Hierarchy For All Packages

Class Hierarchy

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 - java.awt.Component (implements java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable)
 - java.awt.Container
 - javax.swing.JComponent (implements java.io.Serializable)
 - javax.swing.JPanel (implements javax.accessibility.Accessible)
 - [Pong](#) (implements java.awt.event.ActionListener)
 - [SnakeGame](#) (implements java.awt.event.ActionListener, java.awt.event.KeyListener, java.awt.event.MouseListener)
 - java.awt.Window (implements javax.accessibility.Accessible)
 - java.awt.Frame (implements java.awt.MenuContainer)
 - javax.swing.JFrame (implements javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants)
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Hierarchy For Package <Unnamed>

Class Hierarchy

- java.lang.Object
 - [Background_Pong](#)
 - [Ball_Pong](#)
 - java.awt.Component (implements java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable)
 - java.awt.Container
 - javax.swing.JComponent (implements java.io.Serializable)
 - javax.swing.JPanel (implements javax.accessibility.Accessible)
 - [Pong](#) (implements java.awt.event.ActionListener)
 - [SnakeGame](#) (implements java.awt.event.ActionListener, java.awt.event.KeyListener, java.awt.event.MouseListener)
 - java.awt.Window (implements javax.accessibility.Accessible)
 - java.awt.Frame (implements java.awt.MenuContainer)
 - javax.swing.JFrame (implements javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.WindowConstants)
 - [ApplicationPong](#)
 - [SnakeFrame](#) (implements java.awt.event.KeyListener)
 - [Computer_Pong](#)
 - [Credits](#)
 - [MainMenu](#)
 - [Player_Pong](#)
 - [ScoreCounter_Pong](#)
 - [SnakeStartScreen](#)
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Uses of Package

- Classes in [<Unnamed>](#) used by
[<Unnamed>](#)

Class	Description
ApplicationPong	

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Class Player_Pong

java.lang.Object
Player_Pong

```
public class Player_Pong
extends java.lang.Object
```

• Field Summary

Fields		
Modifier and Type	Field	Description
double	changeY	
int	screenHeight	

• Constructor Summary

Constructors	
Constructor	Description
Player_Pong	(double moveChange, java.lang.String customization)

• Method Summary

<div>All MethodsInstance MethodsConcrete Methods</div>		
Modifier and Type	Method	Description
int	getHeight()	
java.awt.Image	getImage()	
int	getWidth()	
double	getX()	
double	getY()	
void	keyPressed() (java.awt.event.KeyEvent e)	
void	keyReleased() (java.awt.event.KeyEvent e)	
void	move()	

Methods inherited from class java.lang.Object

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

• Field Details

- **changeY**

public double changeY

- **screenHeight**

public int screenHeight

• Constructor Details

- **Player_Pong**

public Player_Pong(double moveChange, java.lang.String customization)

• Method Details

- **move**

public void move()

- **getImage**

public java.awt.Image getImage()

- **getX**

public double getX()

- **getY**

public double getY()

- **getWidth**

public int getWidth()

- **getHeight**

public int getHeight()

- **keyPressed**

public void keyPressed(java.awt.event.KeyEvent e)

- **keyReleased**

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

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SEARCH:

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Class Pong

java.lang.Object
java.awt.Component
java.awt.Container
javax.swing.JComponent
javax.swing.JPanel
Pong

All Implemented Interfaces:
java.awt.event.ActionListener, java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, java.util.EventListener, javax.accessibility.Accessible

```
public class Pong
extends javax.swing.JPanel
implements java.awt.event.ActionListener
```

See Also:
[Serialized Form](#)

- **Nested Class Summary**

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

javax.swing.JComponent.AccessibleJComponent

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

java.awt.Component.BaselineResizeBehavior

- **Field Summary**

Fields		
Modifier and Type	Field	Description
boolean	unLimitedPlay	
int	windowHeight	
int	windowWidth	

Fields inherited from class javax.swing.JComponent

TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED,

WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

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

• Constructor Summary

Constructors

Constructor Description

[Pong\(\)](#)

• Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	actionPerformed (java.awt.event.ActionEvent e)	
void	clockTick ()	
void	initSetup ()	
void	paintComponent (java.awt.Graphics g)	
void	setBallSpeed (double speed)	
void	setComputerSpeed (double speed)	
void	setCustomColor (java.lang.String color)	
void	setLink2 (ApplicationPong newLink)	
void	setName (java.lang.String newName)	
void	setPlayerSpeed (double speed)	
void	setWinningScore (int score)	

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

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

Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addPropertyChangeListener, addPropertyChangeListener,

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

Methods inherited from class java.awt.Component

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

Methods inherited from class java.lang.Object

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

• Field Details

◦ **windowWidth**

public int windowWidth

◦ **windowHeight**

public int windowHeight

◦ **unLimitedPlay**

public boolean unLimitedPlay

• Constructor Details

◦ **Pong**

public Pong()

• Method Details

◦ **setName**

public void setName(java.lang.String newName)

Overrides:

setName in class java.awt.Component

- **setLink2**

public void setLink2([ApplicationPong](#) newLink)

- **actionPerformed**

public void actionPerformed(java.awt.event.ActionEvent e)

Specified by:

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

- **initSetup**

public void initSetup()

- **paintComponent**

public void paintComponent(java.awt.Graphics g)

- **setPlayerSpeed**

public void setPlayerSpeed(double speed)

- **setComputerSpeed**

public void setComputerSpeed(double speed)

- **setBallSpeed**

public void setBallSpeed(double speed)

- **setWinningScore**

public void setWinningScore(int score)

- **setCustomColor**

public void setCustomColor(java.lang.String color)

- **clockTick**

public void clockTick()

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Class ScoreCounter_Pong

java.lang.Object
ScoreCounter_Pong

```
public class ScoreCounter_Pong
extends java.lang.Object
```

• Constructor Summary

Constructors	
Constructor	Description
ScoreCounter_Pong (double newX, double newY)	

• Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	counterUpdate (int score)	
int	getHeight ()	
java.awt.Image	getImage ()	
int	getWidth ()	
double	getX ()	
double	getY ()	

Methods inherited from class java.lang.Object

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

• Constructor Details

- **ScoreCounter_Pong**

```
public ScoreCounter_Pong(double newX, double newY)
```

• Method Details

- **getX**

public double getX()

- **getY**

public double getY()

- **getWidth**

public int getWidth()

- **getHeight**

public int getHeight()

- **getImage**

public java.awt.Image getImage()

- **counterUpdate**

public void counterUpdate(int score)

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SEARCH:

Serialized Form

• Package <Unnamed>

- Class [ApplicationPong](#) extends javax.swing.JFrame implements Serializable

serialVersionUID:

-1706504574895795864L

▪ Serialized Fields

▪ customColors

java.lang.String customColors

▪ game

[Pong](#) game

▪ speedOfBall

double speedOfBall

▪ speedOfComputer

double speedOfComputer

▪ speedOfPlayer

double speedOfPlayer

▪ theWinningScore

int theWinningScore

▪ userName

java.lang.String userName

▪ windowHeight

int windowHeight

▪ windowWidth

int windowWidth

- Class [Pong](#) extends javax.swing.JPanel implements Serializable

serialVersionUID:

-1237313979050845997L

▪ Serialized Fields

- **ball**

[Ball_Pong](#) ball

- **ballSpeed**

double ballSpeed

- **clip**

javax.sound.sampled.Clip clip

- **clockActivate**

boolean clockActivate

- **clockTick**

int clockTick

- **collisionX**

int collisionX

- **collisionY**

int collisionY

- **com**

[Computer_Pong](#) com

- **comCounter**

[ScoreCounter_Pong](#) comCounter

- **comPoints**

int comPoints

- **computerSpeed**

double computerSpeed

- **customization**

java.lang.String customization

- **DELAY**

int DELAY

- **desiredScore**

int desiredScore

- **gameStart**

boolean gameStart

- **link2**

[ApplicationPong](#) link2

- **mc**

[Player_Pong](#) mc

- **pause**

`boolean pause`

- **playerCounter**

`ScoreCounter_Pong playerCounter`

- **playerSpeed**

`double playerSpeed`

- **playPoints**

`int playPoints`

- **secret**

`Background_Pong secret`

- **timer**

`javax.swing.Timer timer`

- **unLimitedPlay**

`boolean unLimitedPlay`

- **userName**

`java.lang.String userName`

- **userNameX**

`int userNameX`

- **userNameY**

`int userNameY`

- **windowHeight**

`int windowHeight`

- **windowWidth**

`int windowWidth`

- **Class [SnakeFrame](#) extends javax.swing.JFrame implements Serializable**

`serialVersionUID:
1L`

- **Class [SnakeGame](#) extends javax.swing.JPanel implements Serializable**

`serialVersionUID:
1L`

- **Serialized Fields**

- **apple**

`java.awt.Image apple`

- **appleXPOS**

`int appleXPOS`

- **appleYPOS**

```
int appleYPOS
```

- **BodySize**

```
int BodySize
```

- **direction**

```
char direction
```

- **lives**

```
int lives
```

- **mine**

```
java.awt.Image mine
```

- **pause**

```
java.lang.String pause
```

- **points**

```
int points
```

- **random**

```
java.util.Random random
```

- **rotAppleXPOS1**

```
int rotAppleXPOS1
```

- **rotAppleXPOS2**

```
int rotAppleXPOS2
```

- **rotAppleYPOS1**

```
int rotAppleYPOS1
```

- **rotAppleYPOS2**

```
int rotAppleYPOS2
```

- **running**

```
boolean running
```

- **timer**

```
javax.swing.Timer timer
```

- **x**

```
int[] x
```

- **y**

```
int[] y
```

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SEARCH:

Class SnakeFrame

java.lang.Object
java.awt.Component
java.awt.Container
java.awt.Window
java.awt.Frame
javax.swing.JFrame
SnakeFrame

All Implemented Interfaces:

java.awt.event.KeyListener, java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
java.util.EventListener, javax.accessibility.Accessible, javax.swing.RootPaneContainer,
javax.swing.WindowConstants

```
public class SnakeFrame
extends javax.swing.JFrame
implements java.awt.event.KeyListener
```

See Also:

[Serialized Form](#)

• Nested Class Summary

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

java.awt.Window.Type

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

java.awt.Component.BaselineResizeBehavior

• Field Summary

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 java.awt.image.ImageObserver

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

Fields inherited from interface javax.swing.WindowConstants

DISPOSE_ON_CLOSE, DO_NOTHING_ON_CLOSE, EXIT_ON_CLOSE, HIDE_ON_CLOSE

• Constructor Summary

Constructors

Constructor **Description**

[SnakeFrame\(\)](#)

• Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	keyPressed (java.awt.event.KeyEvent e)	
void	keyReleased (java.awt.event.KeyEvent e)	
void	keyTyped (java.awt.event.KeyEvent e)	
void	newFrame ()	

Methods inherited from class javax.swing.JFrame

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

Methods inherited from class java.awt.Frame

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

Methods inherited from class java.awt.Window

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

Methods inherited from class java.awt.Container

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

setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setFont, 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, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage, prepareImage, printAll, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize, revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable, setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale, setMaximumSize, setMixingCutoutShape, setName, setPreferredSize, show, size, toString, transferFocus, transferFocusBackward, 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

• Constructor Details

◦ SnakeFrame

```
public SnakeFrame()
```

• Method Details

◦ keyPressed

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

Specified by:

keyPressed in interface java.awt.event.KeyListener

◦ newFrame

```
public void newFrame()
```

◦ keyReleased

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

Specified by:

keyReleased in interface java.awt.event.KeyListener

◦ keyTyped

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

Specified by:

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

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SEARCH:

Class SnakeGame

java.lang.Object
java.awt.Component
java.awt.Container
javax.swing.JComponent
javax.swing.JPanel
SnakeGame

All Implemented Interfaces:

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

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

See Also:

[Serialized Form](#)

• Nested Class Summary

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

javax.swing.JComponent.AccessibleJComponent

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

java.awt.Component.BaselineResizeBehavior

• Field Summary

Fields inherited from class javax.swing.JComponent

TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED,
WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, PROPERTIES, SOMEBITS

• Constructor Summary

Constructors

Constructor Description

[SnakeGame](#) ()

• Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	actionPerformed (java.awt.event.ActionEvent e)	
void	checkApple ()	
void	checkrotApple ()	
void	Collisions ()	
void	draw (java.awt.Graphics g)	
void	keyPressed (java.awt.event.KeyEvent e)	
void	keyReleased (java.awt.event.KeyEvent e)	
void	keyTyped (java.awt.event.KeyEvent e)	
void	LocatenewApple ()	
void	LocateNewRotApple1 ()	
void	LocateNewRotApple2 ()	
void	mouseClicked (java.awt.event.MouseEvent e)	
void	mouseEntered (java.awt.event.MouseEvent e)	
void	mouseExited (java.awt.event.MouseEvent e)	
void	mousePressed (java.awt.event.MouseEvent e)	
void	mouseReleased (java.awt.event.MouseEvent e)	
void	move ()	
void	paint (java.awt.Graphics g)	
void	startGame ()	
void	youLose (java.awt.Graphics g)	

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

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

Methods inherited from class java.awt.Container

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

Methods inherited from class java.awt.Component

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

Methods inherited from class java.lang.Object

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

• Constructor Details

- **SnakeGame**

public SnakeGame()

• Method Details

- **startGame**

public void startGame()

- **paint**

public void paint(java.awt.Graphics g)

Overrides:

paint in class javax.swing.JComponent

- **draw**

public void draw(java.awt.Graphics g)

- **move**

public void move()

- **LocatenewApple**

public void LocatenewApple()

- **LocateNewRotApple1**

public void LocateNewRotApple1()

- **LocateNewRotApple2**

public void LocateNewRotApple2()

- **checkApple**

public void checkApple()

- **checkrotApple**

public void checkrotApple()

- **Collisions**

public void Collisions()

- **youLose**

public void youLose(java.awt.Graphics g)

- **actionPerformed**

public void actionPerformed(java.awt.event.ActionEvent e)

Specified by:

actionPerformed in interface java.awt.event.ActionListener

- **keyPressed**

public void keyPressed(java.awt.event.KeyEvent e)

Specified by:

keyPressed in interface java.awt.event.KeyListener

- **keyTyped**

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

Specified by:

keyTyped in interface java.awt.event.KeyListener

- **keyReleased**

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

Specified by:

keyReleased in interface java.awt.event.KeyListener

- **mouseClicked**

public void mouseClicked(java.awt.event.MouseEvent e)

Specified by:

mouseClicked in interface java.awt.event.MouseListener

- **mousePressed**

public void mousePressed(java.awt.event.MouseEvent e)

Specified by:

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

- **mouseReleased**

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

Specified by:

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

- **mouseEntered**

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

Specified by:

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

- **mouseExited**

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

Specified by:

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

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SEARCH:

reset

Class SnakeStartScreen

java.lang.Object
SnakeStartScreen

```
public class SnakeStartScreen
extends java.lang.Object
```

• Field Summary

Fields		
Modifier and Type	Field	Description
static int	Difficulty	
javax.swing.JButton	easyButton	
javax.swing.JFrame	frame	
javax.swing.JButton	hardButton	
static java.awt.Color	headColor	
int	height	
javax.swing.JButton	MainMenuButton	
javax.swing.JButton	medButton	
static java.awt.Color	snakeColor	
static java.awt.Image	snakeImage	
javax.swing.JButton	StartSnakeButton	
static java.awt.Image	threeImage	
javax.swing.JLabel	Title	
java.awt.Font	titleFont	
int	width	

• Constructor Summary

Constructors	
Constructor	Description
SnakeStartScreen ()	

• Method Summary

All Methods

Static Methods

Instance Methods

Concrete Methods

Modifier and Type	Method	Description
static void	main (java.lang.String[] args)	
void	startSnake ()	

Methods inherited from class java.lang.Object

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

• Field Details

◦ width

public int width

◦ height

public int height

◦ Title

public javax.swing.JLabel Title

◦ easyButton

public javax.swing.JButton easyButton

◦ medButton

public javax.swing.JButton medButton

◦ hardButton

public javax.swing.JButton hardButton

◦ MainMenuButton

public javax.swing.JButton MainMenuButton

◦ StartSnakeButton

public javax.swing.JButton StartSnakeButton

◦ frame

public javax.swing.JFrame frame

◦ titleFont

public java.awt.Font titleFont

◦ snakeColor

public static java.awt.Color snakeColor

◦ headColor

public static java.awt.Color headColor

◦ Difficulty

public static int Difficulty

◦ threeImage

public static java.awt.Image threeImage

◦ snakeImage

- **snakeImage**

public static java.awt.Image snakeImage

- **Constructor Details**

- **SnakeStartScreen**

public SnakeStartScreen()

- **Method Details**

- **main**

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

- **startSnake**

public void startSnake()

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SEARCH:

reset

Class startScreenforPong

java.lang.Object
startScreenforPong

```
public class startScreenforPong
extends java.lang.Object
```

• Field Summary

Fields		
Modifier and Type	Field	Description
java.lang.String	customization	
javax.swing.JFrame	frame	
javax.swing.JButton	goToMainMenu	
java.awt.BorderLayout	layout	
double	speedBall	
double	speedCom	
double	speedPlay	
javax.swing.JButton	startTheGame	
javax.swing.JLabel	Title	
java.awt.Font	titleFont	
java.lang.String	whichDifficulty	
int	windowHeight	
int	windowWidth	
int	winScore	

• Constructor Summary

Constructors	
Constructor	Description
startScreenforPong()	

• Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method		Description

Modifier and Type	Method	Description
static void	main (java.lang.String[] args)	
void	printSettings ()	
void	sendUsername (java.lang.String user_input)	
void	setupPong ()	

Methods inherited from class java.lang.Object

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

• Field Details

◦ **windowWidth**

public int windowWidth

◦ **windowHeight**

public int windowHeight

◦ **startTheGame**

public javax.swing.JButton startTheGame

◦ **goToMainMenu**

public javax.swing.JButton goToMainMenu

◦ **frame**

public javax.swing.JFrame frame

◦ **layout**

public java.awt.BorderLayout layout

◦ **Title**

public javax.swing.JLabel Title

◦ **titleFont**

public java.awt.Font titleFont

◦ **speedCom**

public double speedCom

◦ **speedPlay**

public double speedPlay

◦ **speedBall**

public double speedBall

◦ **winScore**

public int winScore

◦ **whichDifficulty**

public java.lang.String whichDifficulty

◦ **customization**

public java.lang.String customization

- **Constructor Details**

- **startScreenforPong**

public startScreenforPong()

- **Method Details**

- **main**

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

- **sendUsername**

public void sendUsername(java.lang.String user_input)

- **printSettings**

public void printSettings()

- **setupPong**

public void setupPong()

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