JavaScript is disabled on your browser. Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Bitmap**

- java.lang.Object
- ◆ Bitmap

public class Bitmap
extends java.lang.Object

Constructor Summary

Constructors

**Constructor and Description** 

Bitmap(java.lang.String path)

Class Bitmap 1

# Method Summary

 $\Diamond$ 

# Methods inherited from class java.lang.Object

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

• •

## **Constructor Detail**

#### **♦** Bitmap

public Bitmap(java.lang.String path)

#### Skip navigation links

- Package
- Class
- Use
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field I
- Constr |
- Method
- Detail:
- Field I
- Constr |
- Method

JavaScript is disabled on your browser.

#### Skip navigation links

- Package
- Class

Method Summary 2

- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Enemy**

- java.lang.Object
- java.awt.geom.RectangularShape
  - ♦ \$\displaysiz \text{java.awt.geom.Rectangle2D}\$\$\displaysiz \text{java.awt.Rectangle}\$
    - Enemy
- All Implemented Interfaces:

java.awt.Shape, java.io.Serializable, java.lang.Cloneable

```
public class Enemy
extends java.awt.Rectangle
```

Class for AI control

See Also:

Serialized Form

• •

# **Nested Class Summary**

Constructor Detail 3

# ◊ Nested classes/interfaces inherited from class java.awt.geom.Rectangle2D

java.awt.geom.Rectangle2D.Double, java.awt.geom.Rectangle2D.Float

# Field Summary

Fields

Modifier and Type		Field and Description
private in	nt	dir
private in	nt	down
private in	nt	find path
private in	nt	lastDir
private in	nt	<u>left</u>
private in	nt	random
java.util.	.Random	<u>randomGen</u>
private in	nt	<u>right</u>
private st	tatic long	<u>serialVersionUID</u>
private in	nt	<u>smart</u>
private in	nt	spd
private in	nt	<u>state</u>
private in	nt	<u>targetTime</u>
private in	nt	<u>time</u>
private in	nt	up
<b>\Q</b>		

# Fields inherited from class java.awt.Rectangle

```
height, width, x, y \rangle
```

# Fields inherited from class java.awt.geom.Rectangle2D

```
OUT_BOTTOM, OUT_LEFT, OUT_RIGHT, OUT_TOP
```

# **Constructor Summary**

Constructors

#### **Constructor and Description**

```
Enemy (int x, int y)
```

Constructor for the Enemy class Assigns direction/movement

#### Method Summary

All Methods <u>Instance Methods</u> <u>Concrete Methods</u>

# Modifier and Type Method and Description private boolean canMove(int nextx, int nexty) Checks if the AI can move in a certain direction void Render(java.awt.Graphics g) Draws the AI with the specific color void tick() Movement control

# Methods inherited from class java.awt.Rectangle

add, add, contains, contains, contains, contains, createIntersection, createUnion, equals, getBounds, getBounds2D, getHeight, getLocation, getSize, getWidth, getX, getY, grow, inside, intersection, intersects, isEmpty, move, outcode, reshape, resize, setBounds, setBounds, setLocation, setLocation, setRect, setSize, setSize, toString, translate, union

# Methods inherited from class java.awt.geom.Rectangle2D

add, add, add, contains, contains, getPathIterator, getPathIterator, hashCode, intersect, intersects, intersectsLine, intersectsLine, outcode, setFrame, setRect, union

# Methods inherited from class java.awt.geom.RectangularShape

clone, contains, contains, getCenterX, getCenterY, getFrame,
getMaxX, getMaxY, getMinX, getMinY, intersects, setFrame, setFrame,
setFrameFromCenter, setFrameFromCenter, setFrameFromDiagonal,
setFrameFromDiagonal

# Methods inherited from class java.lang.Object

finalize, getClass, notify, notifyAll, wait, wait, wait

# Methods inherited from interface java.awt.Shape

contains, contains, contains, getPathIterator,
getPathIterator, intersects, intersects

# Field Detail

Method Summary 5

#### **◊** serialVersionUID

```
private static final long serialVersionUID
 See Also:
        Constant Field Values
♦ random
       private int random
♦ smart
        private int smart
♦ find_path
        private int find_path
♦ state
        private int state
◊ right
       private int right
◊ left
       private int left
♦ up
        private int up
♦ down
       private int down
♦ dir
        private int dir
◊ randomGen
       public java.util.Random randomGen
◊ time
       private int time
◊ targetTime
        private int targetTime
♦ spd
        private int spd
♦ lastDir
        private int lastDir
```

# **Constructor Detail**

Field Detail 6

#### **♦** Enemy

```
\begin{array}{c} \text{public Enemy(int } \textbf{x,} \\ & \text{int } \textbf{y)} \end{array}
```

Constructor for the Enemy class Assigns direction/movement Parameters:

х у **-**

# Method Detail

♦ tick

public void tick()

Movement control

◊ canMove

Checks if the AI can move in a certain direction

Parameters:

nextx - nexty -

Returns:

True or False

**♦** Render

public void Render(java.awt.Graphics g)

Draws the AI with the specific color Parameters:

g **-**

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- Index
- Help
- Prev Class
- Next Class
- Frames

Constructor Detail

7

- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser. Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Game**

- java.lang.Object
- - ♦ ♦ java.awt.Canvas

♦ · Game

#### • All Implemented Interfaces:

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

```
public class Game
extends java.awt.Canvas
implements java.lang.Runnable, java.awt.event.KeyListener
```

Class responsible for game control See Also:

Serialized Form

 $\Diamond$ 

# Nested Class Summary

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

java.awt.Canvas.AccessibleAWTCanvas

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

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

# **Field Summary**

Fields

Modifier and Type	Description
static int	<u>HEIGHT</u>
private boolean	isRunning
static <u>Level</u>	<u>level</u>
static <u>Player</u>	player
private static long	<u>serialVersionUID</u>
static <u>SpriteSheet</u>	<u>spritesheet</u>
private java.lang.Thread	thread

Class Game 9

Field and

Modifier and Type	Field and Description
static java.lang.String	TITLE
static int	WIDTH
·	from class java.awt.Component
· ·	BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, HT_ALIGNMENT, TOP_ALIGNMENT
Fields inherited f	rom

interface java.awt.image.lmageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, PROPERTIES, SOMEBITS

Constructor Summary

Constructors

#### **Constructor and Description**

<u>Game</u> (

Constructor for the game class.

**Method Summary** 

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	<pre>keyPressed(java.awt.event.KeyEvent e) Checks what key was pressed and starts movement</pre>
void	<u>keyReleased</u> (java.awt.event.KeyEvent e) Checks what was released and stops movement
void	<pre>keyTyped(java.awt.event.KeyEvent e)</pre>
static void	<pre>main(java.lang.String[] args) Test class for testing the game</pre>
private void	render() Refreshes the game
void	run () Game running control
void	start () Starts the game
void	stop() Stops the game
private void	tick() Game control

Field Summary 10

#### ♦ Methods inherited from class java.awt.Canvas

addNotify, createBufferStrategy, createBufferStrategy, getAccessibleContext, getBufferStrategy, paint, update

#### Methods inherited from class java.awt.Component

action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, addPropertyChangeListener, addPropertyChangeListener, applyComponentOrientation, areFocusTraversalKeysSet, bounds, checkImage, checkImage, coalesceEvents, contains, contains, createImage, createImage, createVolatileImage, createVolatileImage, deliverEvent, disable, disableEvents, dispatchEvent, doLayout, enable, enable, enableEvents, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getAlignmentX, getAlignmentY, getBackground, getBaseline, getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentAt, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeys, getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground, getGraphics, getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputContext, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getListeners, getLocale, getLocation, getLocationOnScreen, getMaximumSize, getMinimumSize, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPreferredSize, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getSize, getToolkit, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus, hide, imageUpdate, inside, invalidate, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered, isEnabled, isFocusable, isFocusCycleRoot, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isOpaque, isPreferredSizeSet, isShowing, isValid, isVisible, keyDown, keyUp, layout, list, list, list, list, locate, location, lostFocus, minimumSize, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, paramString, postEvent, preferredSize, prepareImage, prepareImage, print, printAll, processComponentEvent, processEvent, processFocusEvent, processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent, processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent, remove, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removeNotify, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, reshape, resize, resize, revalidate, setBackground, setBounds, setBounds, setComponentOrientation, setCursor, setDropTarget, setEnabled, setFocusTraversalKeys, setFocusTraversalKeysEnabled,

setFont, setForeground, setIgnoreRepaint, setLocale, setLocation, setLocation, setMaximumSize, setMinimumSize, setName, setPreferredSize, setSize, setSize, setVisible, show, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle, validate

# Methods inherited from class java.lang.Object

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

# Field Detail

#### ♦ serialVersionUID

private static final long serialVersionUID

See Also:

#### **Constant Field Values**

#### **◊** isRunning

private boolean isRunning

#### **♦ WIDTH**

public static int WIDTH

#### **♦ HEIGHT**

public static int HEIGHT

#### **♦ TITLE**

public static final java.lang.String TITLE

#### See Also:

#### **Constant Field Values**

#### ♦ thread

private java.lang.Thread thread

#### ◊ player

public static <a href="Player">Player</a> player

#### ◊ level

public static <u>Level</u> level

#### ♦ spritesheet

public static <a href="Spritesheet">Spritesheet</a> spritesheet

# **Constructor Detail**

#### **♦** Game

```
public Game()
```

Constructor for the game class. Draws the game and assigns controls to Player/AI

#### **Method Detail**

```
♦ start
        public void start()
 Starts the game
♦ stop
        public void stop()
 Stops the game
♦ tick
        private void tick()
 Game control
◊ render
        private void render()
 Refreshes the game
♦ run
        public void run()
 Game running control
 Specified by:
         run in interface java.lang.Runnable
♦ main
        public static void main(java.lang.String[] args)
 Test class for testing the game
 Parameters:
         args -
♦ keyPressed
        public void keyPressed(java.awt.event.KeyEvent e)
 Checks what key was pressed and starts movement
 Specified by:
        keyPressed in interface java.awt.event.KeyListener
```

Constructor Detail

#### ◊ keyReleased

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

Checks what was released and stops movement 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

#### Skip navigation links

- Package
- Class
- Use
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser.

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree

- Deprecated
- Index
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Highscores**

- java.lang.Object
- Highscores
- All Implemented Interfaces: java.lang.Comparable<<u>Highscores</u>>

```
public class Highscores
extends java.lang.Object
implements java.lang.Comparable<Highscores>
```

The class is responsible for database access and highscore storage

Field Summary

Fields

# Modifier and TypeField and Descriptionprivate java.lang.Stringnameprivate java.lang.Integerscoreprivate static java.lang.Stringurl

Class Highscores 15

# Constructor Summary

Constructors

#### **Constructor and Description**

<u>Highscores</u>(java.lang.String name, java.lang.Integer score) Constructor for the Highscores class.

# Method Summary

All Methods Static Methods Instance Methods Concrete Methods

#### **Modifier and Type Method and Description** addScore (java.lang.String name, int score) static void Adds a score into database. compareTo(Highscores o) int Compares two scores connect() private static java.sql.Connection Connects to the database. createNewTable() private static void Creates a new table if it doesn't exist getName() java.lang.String Returns name getScore() java.lang.Integer Returns score getURL() static java.lang.String Returns URL for database location insert(Highscores score) private void Inserts items into the database retrieveAll() private static java.util.ArrayList<Highscores> Retrieves items from the database retrieveScores() static java.util.ArrayList<<u>Highscores</u>> Retrieves scores from the file in an array java.lang.String Converts into String the Highscores class

# Methods inherited from class java.lang.Object

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

# Field Detail

```
♦ score
              private java.lang.Integer score
     ♦ name
              private java.lang.String name
     ◊ url
              private static java.lang.String url
Constructor Detail
     ♦ Highscores
              public Highscores (java.lang.String name,
                                  java.lang.Integer score)
       Constructor for the Highscores class.
      Parameters:
              Player - name
              Player - score
Method Detail
     ♦ getName
              public java.lang.String getName()
       Returns name
      Returns:
              Player name
     ♦ getScore
              public java.lang.Integer getScore()
       Returns score
       Returns:
              Player score
     ♦ getURL
              public static java.lang.String getURL()
       Returns URL for database location
       Returns:
              url for database location
     ◊ retrieveScores
              public static java.util.ArrayList<<u>Highscores</u>> retrieveScores()
      Retrieves scores from the file in an array
```

Field Detail 17

```
Returns:
         array containing the scores
◊ addScore
         public static void addScore(java.lang.String name,
                                         int score)
 Adds a score into database.
 Parameters:
         Name - of player
         Score - of player
♦ compareTo
         public int compareTo(<u>Highscores</u> o)
 Compares two scores
 Specified by:
         compareTo in interface java.lang.Comparable<Highscores>
 Parameters:
         class - to compare to
 Returns:
         "-" if Less than compared class, 0 if same, "+" if greater than
♦ toString
         public java.lang.String toString()
 Converts into String the Highscores class
 Overrides:
         toString in class java.lang.Object
 Returns:
         String of name + score
♦ connect
         private static java.sql.Connection connect()
 Connects to the database. Creates a new file if fails
 Returns:
         Connection to the database
◊ insert
         private void insert (Highscores score)
 Inserts items into the database
 Parameters:
         Score - to insert
◊ createNewTable
         private static void createNewTable()
 Creates a new table if it doesn't exist
```

#### **◊** retrieveAll

private static java.util.ArrayList<<u>Highscores</u>> retrieveAll()

Retrieves items from the database Returns:

Array containing the scores

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser.

# Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class

- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Level**

- java.lang.Object

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

Class responsible for drawing the level

# Field Summary

Fields

Modifier and Type	Field and Description
<pre>java.util.List&lt;<u>Enemy</u>&gt;</pre>	<u>enemies</u>
int	<u>height</u>
<pre>java.util.List&lt;<u>Pellet</u>&gt;</pre>	<u>pellets</u>
<u>Tile</u> [][]	<u>tiles</u>
int	<u>width</u>

# **Constructor Summary**

Constructors

#### **Constructor and Description**

Level(java.lang.String path)

Class Level 20

#### **Constructor and Description**

Constructor for the level class Draws the level with the image from a path

# **Method Summary**

All Methods <u>Instance Methods</u> <u>Concrete Methods</u>

Modifier and Type	Method and Description
void	<pre>render(java.awt.Graphics g) Fills the tiles with a specified color</pre>
void	tick() Movement control
^	

# Methods inherited from class java.lang.Object

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

# Field Detail

```
◊ width
```

```
public int width

height

public int height

tiles

public Tile[][] tiles

public java.util.List<Pellet
public java.util.List<Pellet
public java.util.List<Pellet</pre>
```

# **Constructor Detail**

#### ♦ Level

```
public Level(java.lang.String path)
```

Constructor for the level class Draws the level with the image from a path Parameters:

path - to the background image

## Method Detail

```
public void tick()

Movement control
orender

public void render(java.awt.Graphics g)

Fills the tiles with a specified color
Parameters:
    g -
```

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- <u>Help</u>
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- <u>Field</u> |
- Constr |
- Method
- Detail:
- <u>Field</u> l
- Constr |
- Method

JavaScript is disabled on your browser.

#### Skip navigation links

- Package
- Class

- <u>Use</u>
- Tree
- Deprecated
- Index
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# Class MainMenuScene

- java.lang.Object

public class MainMenuScene
extends javafx.application.Application

Draws the main menu for the game

Nested Class Summary

Nested classes/interfaces inherited from class javafx.application.Application

javafx.application.Application.Parameters

Class MainMenuScene 23

# Field Summary

Fields

Modifier and Type	Field and Description
private javafx.scene.image.Image	backImage
private javafx.scene.control.Button	<u>btnBack</u>
private javafx.scene.control.Button	<u>btnExit</u>
private javafx.scene.control.Button	<u>btnHighScores</u>
private javafx.scene.control.Button	<u>btnStart</u>
<pre>private javafx.scene.control.ListView<java.lang.string></java.lang.string></pre>	<u>lstScores</u>
private javafx.stage.Stage	<u>oldStage</u>
private javafx.scene.Scene	scene
Λ	

# Fields inherited from class javafx.application.Application

STYLESHEET\_CASPIAN, STYLESHEET\_MODENA

**Constructor Summary** 

Constructors

**Constructor and Description** 

MainMenuScene()

**Method Summary** 

All Methods <u>Instance Methods</u> <u>Concrete Methods</u>

Modifier and Type	Method and Description
private void	<pre>showScores(javafx.stage.Stage currStage, javafx.scene.Scene oldScene) Changes the scene of the main menu to display the scores</pre>
void	<pre>start(javafx.stage.Stage primaryStage) Draws the GUI for the main menu and assigns all buttons</pre>
private void	<pre>startGame(javafx.stage.Stage currStage, javafx.scene.Scene oldScene) Starts the game in a new window.</pre>
^	

# Methods inherited from class javafx.application.Application

getHostServices, getParameters, getUserAgentStylesheet, init, launch, launch, notifyPreloader, setUserAgentStylesheet, stop

Field Summary 24

## ♦ Methods inherited from class java.lang.Object

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

# Field Detail

```
♦ oldStage
        private javafx.stage.Stage oldStage
♦ scene
        private javafx.scene.Scene scene
♦ btnStart
        private javafx.scene.control.Button btnStart
♦ btnExit
        private javafx.scene.control.Button btnExit
♦ btnHighScores
        private javafx.scene.control.Button btnHighScores
♦ btnBack
        private javafx.scene.control.Button btnBack
♦ backlmage
        private javafx.scene.image.Image backImage
♦ IstScores
        private javafx.scene.control.ListView<java.lang.String> lstScores
```

# Constructor Detail

#### ♦ MainMenuScene

public MainMenuScene()

# Method Detail

#### ♦ start

Draws the GUI for the main menu and assigns all buttons Specified by:

start in class javafx.application.Application

#### Parameters:

primaryStage -

#### Throws:

java.lang.Exception

#### **♦** startGame

# Starts the game in a new window. Asks user for name input Parameters:

currStage oldScene -

#### **♦** showScores

# Changes the scene of the main menu to display the scores Parameters:

currStage oldScene -

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- Index
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser. Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Pellet**

- java.lang.Object
- - ♦ \$\displaysiz \text{java.awt.geom.Rectangle2D}\$\$\displaysiz \text{java.awt.Rectangle}\$• Pellet

• All Implemented Interfaces: java.awt.Shape, java.io.Serializable, java.lang.Cloneable

```
public class Pellet
extends java.awt.Rectangle
```

Class responsible for the points to be drawn on board See Also:

Serialized Form

Class Pellet 27

#### Nested Class Summary

♦

# Nested classes/interfaces inherited from class java.awt.geom.Rectangle2D

java.awt.geom.Rectangle2D.Double, java.awt.geom.Rectangle2D.Float

# Field Summary

Fields

#### Modifier and Type Field and Description

private static long  $\underline{serialVersionUID}$ 

## Fields inherited from class java.awt.Rectangle

height, width, x, y

## Fields inherited from class java.awt.geom.Rectangle2D

OUT\_BOTTOM, OUT\_LEFT, OUT\_RIGHT, OUT\_TOP

# **Constructor Summary**

Constructors

#### **Constructor and Description**

<u>Pellet</u> (int x, int y)

Constructor for the pellet class

# **Method Summary**

All Methods Instance Methods Concrete Methods

#### Modifier and Type Method and Description

void render (java.awt.Graphics g)

Draws the Graphic with the specified color

# Methods inherited from class java.awt.Rectangle

add, add, add, contains, contains, contains, contains, createIntersection, createUnion, equals, getBounds, getBounds2D, getHeight, getLocation, getSize, getWidth, getX, getY, grow, inside, intersection, intersects, isEmpty, move, outcode, reshape, resize, setBounds, setBounds, setLocation, setLocation, setRect, setSize, setSize, toString, translate, union

## Methods inherited from class java.awt.geom.Rectangle2D

add, add, add, contains, contains, getPathIterator, getPathIterator,
hashCode, intersect, intersects, intersectsLine, intersectsLine,
outcode, setFrame, setRect, union

# Methods inherited from class java.awt.geom.RectangularShape

clone, contains, contains, getCenterX, getCenterY, getFrame,
getMaxX, getMaxY, getMinX, getMinY, intersects, setFrame, setFrame,
setFrameFromCenter, setFrameFromCenter, setFrameFromDiagonal,
setFrameFromDiagonal

# Methods inherited from class java.lang.Object

finalize, getClass, notify, notifyAll, wait, wait, wait

# Methods inherited from interface java.awt.Shape

contains, contains, contains, getPathIterator,
getPathIterator, intersects, intersects

# Field Detail

#### ♦ serialVersionUID

private static final long serialVersionUID

See Also:

**Constant Field Values** 

# **Constructor Detail**

#### ♦ Pellet

Constructor for the pellet class Parameters:

x -

у-

#### **◊** render

public void render(java.awt.Graphics g)

Draws the Graphic with the specified color Parameters:

graphic - to be filled in

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser.

# Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class

- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field I
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Player**

- java.lang.Object
  - ♦ java.awt.geom.RectangularShape
    - ♦ java.awt.geom.Rectangle2D
       ♦ java.awt.Rectangle
       Player
- All Implemented Interfaces:

java.awt.Shape, java.io.Serializable, java.lang.Cloneable

```
public class Player
extends java.awt.Rectangle
```

Creates a player on board and allows player control See Also:

Serialized Form

# Nested Class Summary

Nested classes/interfaces inherited from class java.awt.geom.Rectangle2D

java.awt.geom.Rectangle2D.Double, java.awt.geom.Rectangle2D.Float

Field Summary

Fields

Class Player 31

#### Modifier and Type Field and Description

```
boolean down
boolean left
boolean right
private static long serialVersionUID
private int speed
boolean up
```

# Fields inherited from class java.awt.Rectangle

```
height, width, x, y
```

# Fields inherited from class java.awt.geom.Rectangle2D

OUT\_BOTTOM, OUT\_LEFT, OUT\_RIGHT, OUT\_TOP

# **Constructor Summary**

Constructors

 $\Diamond$ 

#### **Constructor and Description**

Player(int x, int y)
Constructor for the Player class

# **Method Summary**

All Methods Instance Methods Concrete Methods

#### **Modifier and Type**

#### **Method and Description**

# Methods inherited from class java.awt.Rectangle

add, add, add, contains, contains, contains, contains, createIntersection, createUnion, equals, getBounds, getBounds2D, getHeight, getLocation, getSize, getWidth, getX, getY, grow, inside, intersection, intersects, isEmpty, move, outcode, reshape, resize, setBounds, setBounds, setLocation, setLocation, setRect, setSize, setSize, toString, translate, union

Field Summary 32

## ♦ Methods inherited from class java.awt.geom.Rectangle2D

add, add, add, contains, contains, getPathIterator, getPathIterator,
hashCode, intersect, intersects, intersectsLine, intersectsLine,
outcode, setFrame, setRect, union

# Methods inherited from class java.awt.geom.RectangularShape

clone, contains, contains, getCenterX, getCenterY, getFrame,
getMaxX, getMaxY, getMinX, getMinY, intersects, setFrame, setFrameFromCenter, setFrameFromDiagonal,
setFrameFromDiagonal

# Methods inherited from class java.lang.Object

finalize, getClass, notify, notifyAll, wait, wait, wait

# Methods inherited from interface java.awt.Shape

contains, contains, contains, getPathIterator,
getPathIterator, intersects, intersects

# Field Detail

#### ♦ serialVersionUID

private static final long serialVersionUID

#### See Also:

#### **Constant Field Values**

◊ right

public boolean right

◊ left

public boolean left

♦ up

public boolean up

♦ down

public boolean down

♦ speed

private int speed

#### Constructor Detail

#### **♦ Player**

Constructor for the Player class

Parameters:

× - coordinate for player image spawn

y - coordinate for player image spawn

# **Method Detail**

#### ♦ tick

```
public void tick()
```

Player control method

Parameters:

none -

#### **◊** canMove

Private class for seeing if the player can move in a certain direction Parameters:

nextx nexty -

Returns:

True or false depending on outcome.

**◊** render

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

Draws the graphic to a specified color Parameters:

g **-**

#### Skip navigation links

- Package
- Class
- Use
- Tree
- Deprecated
- <u>Index</u>

Constructor Detail 34

- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser.

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class SpriteSheet**

- java.lang.Object
- ♦ SpriteSheet

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

Retrieves a sprite image for the characters

# **Field Summary**

Fields

#### **Modifier and Type**

**Field and Description** 

private java.awt.image.BufferedImage sheet

# **Constructor Summary**

Constructors

#### **Constructor and Description**

SpriteSheet (java.lang.String path) Constructor for the SpriteSheet class

# **Method Summary**

All Methods Instance Methods Concrete Methods

#### **Modifier and Type Method and Description** getSprite(int xx, int yy) java.awt.image.BufferedImage Gets a 16x16 sprite at the coordinates Methods inherited from class java.lang.Object

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

# **Field Detail**

Class SpriteSheet 36

#### **♦** sheet

private java.awt.image.BufferedImage sheet

•

# **Constructor Detail**

#### **♦** SpriteSheet

```
public SpriteSheet(java.lang.String path)
```

Constructor for the SpriteSheet class

Parameters:

Image - path

**♦** 

#### **Method Detail**

#### **◊** getSprite

Gets a 16x16 sprite at the coordinates

Parameters:

xx -

уу -

Returns:

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |

Field Detail 37

- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser. Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- <u>Help</u>
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

# **Class Texture**

- java.lang.Object
- ◆ Texture

public class Texture
extends java.lang.Object

Retrieves the spritesheets for the player and ghosts

## Field Summary

Fields

#### **Modifier and Type**

#### **Field and Description**

```
static java.awt.image.BufferedImage ghost
static java.awt.image.BufferedImage player
```

• Constructor Summary

Constructors

#### **Constructor and Description**

Texture()

Constructor for the Texture Class Retrieves sprite images

# Method Summary

 $\Diamond$ 

# Methods inherited from class java.lang.Object

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

Field Detail

◊ player

public static java.awt.image.BufferedImage player  $\Diamond$   $\mbox{\bf ghost}$ 

public static java.awt.image.BufferedImage ghost

**Constructor Detail** 

**♦ Texture** 

public Texture()

Constructor for the Texture Class Retrieves sprite images

Skip navigation links

• Package

Field Summary 39

- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- <u>Help</u>
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested |
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method

JavaScript is disabled on your browser. Skip navigation links

- Package
  - Class
  - Use
  - Tree
  - Deprecated
  - <u>Index</u>
  - Help
  - Prev Class
  - Next Class
  - Frames
  - No Frames
  - All Classes
  - Summary:
  - Nested |
  - Field |
  - Constr |
  - Method

- Detail:
- Field I
- Constr |
- Method

## **Class Tile**

- java.lang.Object
  - ♦ java.awt.geom.RectangularShape
- All Implemented Interfaces:

java.awt.Shape, java.io.Serializable, java.lang.Cloneable

```
public class Tile
extends java.awt.Rectangle
```

Class responsible for drawing a tiles on the board See Also:

Serialized Form

# Nested Class Summary

Nested classes/interfaces inherited from class java.awt.geom.Rectangle2D

java.awt.geom.Rectangle2D.Double, java.awt.geom.Rectangle2D.Float

Field Summary

Fields inherited from class java.awt.Rectangle

```
height, width, x, y
```

Fields inherited from class java.awt.geom.Rectangle2D

```
OUT_BOTTOM, OUT_LEFT, OUT_RIGHT, OUT_TOP
```

**Constructor Summary** 

Constructors

Class Tile 41

#### **Constructor and Description**

<u>Tile</u>(int x, int y)
Constructor for the tile class

# Method Summary

All Methods <u>Instance Methods</u> <u>Concrete Methods</u>

#### Modifier and Type Method and Description

void render (java.awt.Graphics g)
Fills the graphic with the specific color

# Methods inherited from class java.awt.Rectangle

add, add, contains, contains, contains, contains, createIntersection, createUnion, equals, getBounds, getBounds2D, getHeight, getLocation, getSize, getWidth, getX, getY, grow, inside, intersection, intersects, isEmpty, move, outcode, reshape, resize, setBounds, setBounds, setLocation, setLocation, setRect, setSize, setSize, toString, translate, union

# Methods inherited from class java.awt.geom.Rectangle2D

add, add, add, contains, contains, getPathIterator, getPathIterator, hashCode, intersect, intersects, intersectsLine, intersectsLine, outcode, setFrame, setRect, union

# Methods inherited from class java.awt.geom.RectangularShape

clone, contains, contains, getCenterX, getCenterY, getFrame,
getMaxX, getMaxY, getMinX, getMinY, intersects, setFrame, setFrameFromCenter, setFrameFromDiagonal,
setFrameFromDiagonal

# Methods inherited from class java.lang.Object

finalize, getClass, notify, notifyAll, wait, wait, wait  $^{\wedge}$ 

# Methods inherited from interface java.awt.Shape

contains, contains, contains, getPathIterator,
getPathIterator, intersects, intersects

# **Constructor Detail**

#### **♦ Tile**

```
public Tile(int x, int y)
```

Constructor for the tile class

Parameters:

х у **-**

#### **Method Detail**

#### **◊** render

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

Fills the graphic with the specific color Parameters:

g **-**

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- <u>Tree</u>
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested
- <u>Field</u> |
- Constr |
- Method
- Detail:
- Field I
- Constr |
- Method

Constructor Detail 43

JavaScript is disabled on your browser. Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- <u>Index</u>
- Help
- Prev Class
- Next Class
- Frames
- No Frames
- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field I
- Constr |
- Method

# Class pacmanMainClass

- java.lang.Object
- pacmanMainClass

public class pacmanMainClass
extends java.lang.Object

Main class for the application control

Constructor Summary

Constructors

**Constructor and Description** 

#### **Constructor and Description**

pacmanMainClass()

**♦** 

# **Method Summary**

All Methods Static Methods Concrete Methods

# Modifier and Type Method and Description

 $\begin{array}{c} \text{main} (\texttt{java.lang.String[] args}) \\ \text{Draws the GUI for the main menu} \end{array}$ 

 $\Diamond$ 

# Methods inherited from class java.lang.Object

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

**+** 

#### **Constructor Detail**

#### ◊ pacmanMainClass

public pacmanMainClass()

**Method Detail** 

♦ main

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

Draws the GUI for the main menu

#### Skip navigation links

- Package
- Class
- <u>Use</u>
- Tree
- Deprecated
- Index
- Help
- Prev Class
- Next Class
- Frames
- No Frames

- All Classes
- Summary:
- Nested I
- Field |
- Constr |
- Method
- Detail:
- Field |
- Constr |
- Method