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# **Class Enemy**

- java.lang.Object
- java.awt.geom.RectangularShape
- 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

Class Enemy 1

# Nested Class Summary

 $\Diamond$ 

# 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 int	dir
private int	<u>down</u>
private int	find path
private int	<u>lastDir</u>
private int	<u>left</u>
private int	random
java.util.Random	randomGen
private int	<u>right</u>
private static long	s <u>serialVersionUID</u>
private int	<u>smart</u>
private int	spd
private int	<u>state</u>
private int	<u>targetTime</u>
private int	<u>time</u>
private int	<u>up</u>
♦ Fields inhe	rited from class java
i icius IIIIIc	iilou iiviii viass lava

# 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

Enemy (int x, int y)
Constructor for the Enemy class Assigns direction/movement

# **Method Summary**

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description	
private boolean	<pre>canMove(int nextx, int nexty) Determines if the object is colliding with the wall tiles, not allowing the player or ghost to clip through the</pre>	
void	Render (java.awt.Graphics g)  Draws the AI with the specific texture/layout/color	
void	tick() Movement control for the ghosts.	
^		

# 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 **♦** 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

Field Detail 4

#### Constructor Detail

#### **♦** Enemy

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

Constructor for the Enemy class Assigns direction/movement Parameters:

- x Starting point for the enemy on x axis
- y Starting point for the enemy on y axis

# **Method Detail**

#### ♦ tick

```
public void tick()
```

Movement control for the ghosts. Includes 'smart' state - follows player

#### ♦ canMove

Determines if the object is colliding with the wall tiles, not allowing the player or ghost to clip through the

Parameters:

nextx - X-Coordinate in the direction the enemy is traveling nexty - Y-Coordinate in the direction the enemy is traveling

Returns:

True or false

#### **♦** Render

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

Draws the AI with the specific texture/layout/color Parameters:

g - Graphics for the ghost

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Method Detail

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## **Class Game**

- java.lang.Object
- 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

# Nested Class Summary

Nested classes/interfaces i

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

<b>Modifier and Type</b>	Field and Description
static int	<u>HEIGHT</u>
private boolean	isRunning
static <u>Level</u>	<u>level</u>
static <u>Player</u>	plaver

Class Game 7

<b>Modifier and Type</b>	Field and Description
private static java.lang.Integer	score
private static long	<u>serialVersionUID</u>
static <u>SpriteSheet</u>	<u>spritesheet</u>
private java.lang.Thread	thread
static java.lang.String	TITLE
static int	WIDTH
$\Diamond$	

# Fields inherited from class java.awt.Component

accessibleContext, BOTTOM\_ALIGNMENT, CENTER\_ALIGNMENT, LEFT\_ALIGNMENT, RIGHT\_ALIGNMENT, TOP\_ALIGNMENT

# Fields inherited from interface java.awt.image.lmageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, PROPERTIES, SOMEBITS

# **Constructor Summary**

Constructors

#### **Constructor and Description**

Game (

Constructor for the game class.

# **Method Summary**

All Methods Static Methods Instance Methods Concrete Methods

<b>Modifier and Type</b>	<b>Method and Description</b>
static void	addScore() Adds score
void	<pre>keyPressed(java.awt.event.KeyEvent e) Checks what key was pressed and starts movement</pre>
void	<pre>keyReleased(java.awt.event.KeyEvent e) Checks what key was released and stops movement</pre>
void	<pre>keyTyped(java.awt.event.KeyEvent e) Checks what key was typed.</pre>
static void	<pre>main(java.lang.String[] args) Test class for testing the game</pre>
private void	render() Refreshes the game
static void	<u>resetScore</u> ()

Field Summary 8

#### **Modifier and Type**

#### **Method and Description**

Resets the score to 0

static java.lang.Integer  $\frac{\text{returnScore}}{\text{Returns score}}$ 

void run()

Game display control

void start()

Starts the game

void stop()

Stops the game

private void tick()

Game control

 $\Diamond$ 

# 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, 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,

Method Summary 9

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** 

 $\verb"public" static" int HEIGHT"$ 

**♦ TITLE** 

public static final java.lang.String TITLE

See Also:

**Constant Field Values** 

```
♦ thread
              private java.lang.Thread thread
     ♦ player
              public static Player player
     ◊ level
              public static <u>Level</u> level
     ♦ spritesheet
              public static <a href="SpriteSheet">SpriteSheet</a> spritesheet
     ♦ score
              private static java.lang.Integer score
Constructor Detail
     ♦ Game
              public Game()
       Constructor for the game class. Draws the game and assigns controls to Player/AI
Method Detail
     ◊ addScore
              public static void addScore()
       Adds score
     ◊ resetScore
              public static void resetScore()
       Resets the score to 0
     ◊ returnScore
              public static java.lang.Integer returnScore()
       Returns score
     ♦ start
              public void start()
```

Field Detail

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 display 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
◊ keyReleased
        public void keyReleased(java.awt.event.KeyEvent e)
 Checks what key was released and stops movement
 Specified by:
         keyReleased in interface java.awt.event.KeyListener
♦ keyTyped
        public void keyTyped(java.awt.event.KeyEvent e)
 Checks what key was typed. Ignored in this instance
 Specified by:
        keyTyped in interface java.awt.event.KeyListener
```

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# **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<<u>Highscores</u>>
```

The class is responsible for database access and highscore storage

Field Summary

Fields

# Modifier and Type Field and Description

```
private java.lang.String name

private java.lang.Integer score

private static java.lang.String url
```

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** 

Class Highscores 14

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

# **Constructor Detail**

Method Summary 15

#### **♦** Highscores

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

Returns:

array containing the scores

#### **◊** addScore

Adds a score into database.

Parameters:

```
Name - of player
Score - of player
```

Constructor Detail 16

# **♦** compareTo public int compareTo(Highscores 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

#### Skip navigation links

Returns:

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Method Detail

Array containing the scores

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# **Class Level**

- java.lang.Object

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

Class esponsible for creation of the game level

# Field Summary

Fields

<b>Modifier and Type</b>	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>	pellets
<pre>Tile[][]</pre>	tiles
int	<u>width</u>

# **Constructor Summary**

Constructors

#### **Constructor and Description**

<u>Level</u> (java.lang.String path) Constructor for the level class

# **Method Summary**

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

<b>Modifier and Type</b>	<b>Method and Description</b>
void	<pre>render(java.awt.Graphics g) Class responsible for rendering game tiles</pre>
void	tick() Class responsible for updating enemies

Class Level 19

# ♦ 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

    pellets

    public java.util.List<Pellet> pellets

    enemies

    public java.util.List<Enemy> enemies
```

# **Constructor Detail**

#### **♦ Level**

public Level(java.lang.String path)

Constructor for the level class Parameters:

path - to the level map

# **Method Detail**

#### ♦ tick

public void tick()

Class responsible for updating enemies

**◊** render

public void render(java.awt.Graphics g)

Class responsible for rendering game tiles Parameters:

g - Render settings

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# Class MainMenuScene

- java.lang.Object
  - ♦ javafx.application.Application
    - ♦ MainMenuScene

```
public class MainMenuScene
extends javafx.application.Application
```

Draws the main menu for the game

Nested Class Summary

 $\Diamond$ 

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

javafx.application.Application.Parameters

\_ \_ \_ \_...

# Field Summary

Fields

Modifier and Type	Field and Description
private javafx.scene.image.Image	<u>backImage</u>
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>
private static javax.swing.JFrame	<u>frame</u>
private static <u>Game</u>	game
<pre>private javafx.scene.control.ListView<java.lang.string></java.lang.string></pre>	<u>lstScores</u>
private javafx.scene.Scene	mainMenuScene

Class MainMenuScene 22

#### **Modifier and Type**

#### **Field and Description**

```
private static java.lang.String

private javafx.scene.Scene

private javafx.scene.control.Label

scoreLabel
```

# Fields inherited from class javafx.application.Application

STYLESHEET\_CASPIAN, STYLESHEET\_MODENA

# **Constructor Summary**

Constructors

#### **Constructor and Description**

MainMenuScene()

•

# **Method Summary**

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
static void	disposeFrame() Disposes the game frame and stops the game
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
```

# Methods inherited from class java.lang.Object

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

Field Summary 23

#### Field Detail

```
♦ mainMenuScene
        private javafx.scene.Scene mainMenuScene
♦ 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
♦ scoreLabel
       private javafx.scene.control.Label scoreLabel
♦ backlmage
        private javafx.scene.image.Image backImage
♦ IstScores
        private javafx.scene.control.ListView<java.lang.String> lstScores
♦ frame
        private static javax.swing.JFrame frame
♦ playerName
        private static java.lang.String playerName
♦ game
        private static Game game
```

#### **Constructor Detail**

#### ♦ MainMenuScene

public MainMenuScene()

# **Method Detail**

Field Detail 24

#### • ♦ 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 -
```

#### ♦ disposeFrame

```
public static void disposeFrame()
```

#### Disposes the game frame and stops the game

#### ♦ showScores

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

```
currStage -
oldScene -
```

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# **Class Pellet**

- java.lang.Object
- java.awt.geom.RectangularShape
  - ♦ \$\delta\$ java.awt.geom.Rectangle2D
    - ♦ · 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

# Nested Class Summary

 $\Diamond$ 

# 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{\text{serialVersionUID}}
```

# Fields inherited from class java.awt.Rectangle

```
height, width, x, y \delta
```

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

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

# **Constructor Summary**

Constructors

#### **Constructor and Description**

```
Pellet(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

# $\Diamond$

# 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**

Method Summary 28

#### **♦ Pellet**

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

Constructor for the pellet class Parameters:

х у **-**

# Method Detail

#### **◊** render

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

Draws the Graphic with the specified color Parameters:

graphic - to be filled in

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# **Class Player**

- java.lang.Object
- - ♦ 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

Method Detail 30

## Nested Class Summary

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# 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

```
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

#### **Constructor and Description**

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

# **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) Private class for seeing if the player can move in a certain direction void render(java.awt.Graphics g) Draws the graphic to a specified color

#### Modifier and Type

#### **Method and Description**

void  $\frac{\text{tick}}{\text{Player control method}}$ 

# 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, 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

Method Summary 32

```
◊ left
              public boolean left
     ♦ up
              public boolean up
     ♦ down
              public boolean down
     ♦ speed
              private int speed
Constructor Detail
     ♦ Player
              public Player(int x,
                             int y)
       Constructor for the Player class
       Parameters:
              x - coordinate for player image spawn
              y - coordinate for player image spawn
Method Detail
     ♦ tick
              public void tick()
       Player control method
       Parameters:
              none -
     ◊ canMove
              private boolean canMove(int nextx,
                                         int nexty)
       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)
```

Field Detail 33

Draws the graphic to a specified color

#### Parameters:

g -

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# **Class SpriteSheet**

- java.lang.Object

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 <a href="mailto:sheet">sheet</a>

# **Constructor Summary**

Constructors

#### **Constructor and Description**

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

Method Summary

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

**Modifier and Type** 

**Method and Description** 

 $\label{eq:conditional} \texttt{java.awt.image.BufferedImage} \ \ \frac{\texttt{getSprite}(\texttt{int xx, int yy})}{\texttt{Gets a 16x16 sprite at the coordinates}}$ 

Class SpriteSheet 35

# ♦ Methods inherited from class java.lang.Object

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

Field Detail

♦ sheet

private java.awt.image.BufferedImage sheet

**Constructor Detail** 

**♦** SpriteSheet

public SpriteSheet(java.lang.String path)

Constructor for the SpriteSheet class Retrieves the image from the path Parameters:

Image - path

Method Detail

**♦** getSprite

public java.awt.image.BufferedImage getSprite(int xx, int yy)

Gets a 16x16 sprite at the coordinates

Parameters:

xx - x coordinate yy - y coordinate

Returns:

Sprite

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Method Detail 37

# **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

Class Texture 38

## ♦ ghost

public static java.awt.image.BufferedImage ghost

•

# **Constructor Detail**

#### **♦ Texture**

public Texture()

Constructor for the Texture Class Retrieves sprite images

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# **Class Tile**

- java.lang.Object
- java.awt.geom.RectangularShape
  - - · Tile
- 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

 $\Diamond$ 

Nested Class Summary

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

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

Constructor Detail 40

## Field Summary

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# 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>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, 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

Field Summary 41

# ♦ 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

# Constructor Detail

#### **♦ Tile**

Constructor for the tile class

Parameters:

x - starting x pointy - starting y point

# **Method Detail**

#### **◊** render

public void render(java.awt.Graphics g)

Fills the graphic with the specific color Parameters:

g **-**

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