

UNIVERSIDAD AÚTONOMA DE SAN LUIS POTOSÍ



FACULTAD DE INGENIERÍA

ÁREA DE COMPUTACIÓN E INFORMÁTICA

PROGRAMACION ORIENTADA A OBJETOS

Profesor. Cesar Augusto Puente Montejano

MANUAL DEL PROGRAMADOR

ALUMNO:

Agustín Israel Vergara Navor

5 de Julio del 2018

Diagrama de clases

Agenda de elaboración del trabajo

1ra Semana de Junio – Propuesta de proyecto.

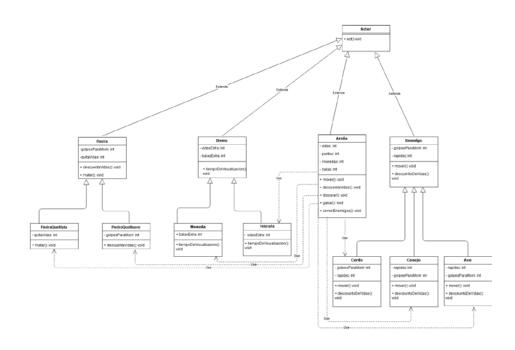
2da Semana de Junio – Elaboración de clases y asignación de imágenes

3ra Semana de Junio – Elaboración de comportamiento de clases, enemigos, mundo, jugador.

4ta Semana de Junio – falta de conocimiento en algunas clases de Greenfoot, recortar algunas funciones debido a que no había tiempo para realizarlo.

Diagrama de clases

Ted



Test

Class Enemigo

java.lang.Object

greenfoot.Actor

public class Enemigo extends greenfoot. Actor

La clase Enemigo hereda a Cerdo, Conejo y Ave.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Enemigo()

Method Summary

void | act()

Act - do whatever the Enemigo wants to do.

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Enemigo

public Enemigo()

Method Detail

act

public void act()

Act - do whatever the Enemigo wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class greenfoot. Actor

Class Cerdo

java.lang.Object

greenfoot.Actor

Enemigo

Cerdo

public class **Cerdo**extends Enemigo

Write a description of class Cerdo here.

Version:

(a version number or a date)

Author:

(your name)

Constructor Summary	
Cerdo ()	

Method Summary			
void	act () Act - do whatever the Cerdo wants to do.		
void	lookForAraña () Método que espera a la araña para poder matarla		
void	muevete ()		
	Método Muevete el cual le da un movienito aleatorio al enemigo		
void	<u>puntos</u> () Método que genera puntos a la araña al matar un cerdo		

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Cerdo

public Cerdo()

Method Detail

act

public void act()

Act - do whatever the Cerdo wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class Enemigo

lookForAraña

public void lookForAraña()

Método que espera a la araña para poder matarla

muevete

public void muevete()

Método Muevete el cual le da un movienito aleatorio al enemigo

puntos

public void puntos()

Método que genera puntos a la araña al matar un cerdo

Class Conejo

java.lang.Object

```
greenfoot.Actor
```

Enemigo

Conejo

public class Conejo extends Enemigo

Write a description of class Conejo here.

Version:

(a version number or a date)

Author:

(your name)

Constructor Summary

Conejo ()

Constructor de La clase Conejo

Wethod Summary void act() Act - do whatever the Conejo wants to do. void lookForAraña() Método que espera a la araña para poder matarla void muevete() Método Muevete el cual le da un movienito aleatorio al enemigo void puntos() Método que genera puntos a la araña al matar un conejo

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Conejo

public Conejo()

Constructor de La clase Conejo

Method Detail

act

public void act()

Act - do whatever the Conejo wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class Enemigo

lookForAraña

public void lookForAraña()

Método que espera a la araña para poder matarla

muevete

public void muevete()

Método Muevete el cual le da un movienito aleatorio al enemigo

puntos public void puntos() Método que genera puntos a la aranña al matar un conejo Class Ave java.lang.Object greenfoot.Actor Enemigo Ave public class **Ave**extends Enemigo Write a description of class Ave here. Version: (a version number or a date) **Author:** (your name) **Constructor Summary** <u>Ave</u>() **Method Summary**

void	act()
	Act - do whatever the Ave wants to do.
void	lookForAraña ()
	Método que espera a la araña para poder matarla
void	muevete()
	Método Muevete el cual le da un movienito aleatorio al enemigo
void	puntos ()
	Método que genera puntos a la araña al matar un ave

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Ave

public Ave()

Method Detail

act

public void act()

Act - do whatever the Ave wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

```
Overrides:
```

act in class Enemigo

lookForAraña

```
public void lookForAraña()
```

Método que espera a la araña para poder matarla

muevete

```
public void muevete()
```

Método Muevete el cual le da un movienito aleatorio al enemigo

puntos

```
public void puntos()
```

Método que genera puntos a la araña al matar un ave.

Class Araña

```
java.lang.Object
```

greenfoot.Actor

Araña

public class Araña extends greenfoot. Actor

La clase Araña es el jugador principal el cual se mueve y mata a los

Version:

4-07-2018

Author:

AIVN

Constructor Summary

<u>Araña</u>()

Constructor de la Clase Araña

Met	hod Summary
void	act () Act - do whatever the Araña wants to do.
void	checkPressKey() Mŕtodo que realiza el cambio de moviemiento de la araña y dispar la bala
int	decrementaVidas () Método que quita vidas y si vidas = 0 enviaun mensaje que has muerto
void	dispara () Metodo que dispara una bala y la elimina cuando llega al finalde al coordenada x
void	lookForAve () Método que espera un Ave si lo toca este desaparece del mundo y muere
void	lookForCerdo () Método que espera un Cerdo si lo toca este desaparece del mundo y muere
void	lookForConejo () Método que espera un Conejo si lo toca este desaparece del mundo y muere
void	lookForMoneda () Metodo que espera hasta tocar una moneda
void	IookforRocaMata () Método que muestra en el mundo una roca si la tocas te quita una vida
void	lookForRocaMuere () Método que espera una Roca para destruirla y le da vidas a la araña

void	lookForTelaraña ()
	Metodo que espera hasta que toques la telaraña y te de una vida
void	muevete()
	Método que reliza el movimiento de la araña
int	puntos ()
	Método que indica los puntos que vas a cumulando
void	quitaVida ()
	Método que te quita vidas y te coloca en una posicion inicial cada vez que pierdes
	una.
void	sumaVida ()
	Método que suma vidas y te pasa al nivel 2
void	sumaVida2()
	Método que te da la opcion de tomas la moneda y te envia al nivel 3
void	switchImage()
	Método que realiza el cambio de imagenes
void	verificaVidas ()
	Método que verifica si ya no tienes vidas cuando vodas = 0 envia un texto en
	pantalla para indicar que perdiste.
	I

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Araña

public Araña()

Constructor de la Clase Araña

Method Detail

act

public void act()

Act - do whatever the Araña wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class greenfoot. Actor

Class Bala

java.lang.Object

greenfoot.Actor

Bala

public class **Bala**extends greenfoot.Actor

La clase Bala permite elimina del mundo a los enemigos.

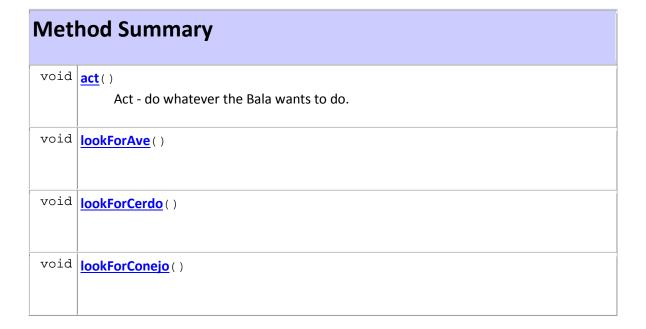
Version:

4 jul 2018

Author:

AIVN

Constructor Summary	
Bala ()	



Methods inherited from class greenfoot. Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Bala

public Bala()

Method Detail

act

public void act()

Act - do whatever the Bala wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class greenfoot. Actor

lookForAve

public void lookForAve()

lookForCerdo

public void lookForCerdo()

lookForConejo

public void lookForConejo()

Class Boton

java.lang.Object

greenfoot.Actor

Boton

public class Botonextends greenfoot.Actor

Clase Boton, permite crear los botones que nos permitiran cambiar de escenario

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Boton(int n)

Constructor Boton

Method Summary

void act()

Método que muestra los botones definidos, a traves del metodo muestra

void muestra(int n)

Método que crea botones ya definidos dependiendo del parámetro que llega

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Boton

Method Detail

```
act
```

public void act()

Método que muestra los botones definidos, a traves del metodo muestra

Overrides:

act in class greenfoot. Actor

muestra

public void muestra(int n)

Método que crea botones ya definidos dependiendo del parámetro que llega

Class Obstaculo

java.lang.Object

greenfoot.Actor

Obstaculo

public class Obstaculo extends greenfoot. Actor

La clase Obtculo hereda a RocaMata y a RocaMuere.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Obstaculo ()

Method Summary

 $void \mid \underline{act}()$

Act - do whatever the Obstaculo wants to do.

Methods inherited from class greenfoot. Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Obstaculo

public Obstaculo()

Method Detail

act

public void act()

Act - do whatever the Obstaculo wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class greenfoot. Actor

Class RocaMata

java.lang.Object

greenfoot.Actor

Obstaculo

RocaMata

public class RocaMataextends Obstaculo

La clase RocaMata este al momento de tocarla te quita una vida o te mueres.

Version:

(a version number or a date)

Author:

(your name)

Constructor Summary

RocaMata()

Method Summary

void | act()

Act - do whatever the RocaMata wants to do.

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

RocaMata

public RocaMata()

Method Detail

public void act()

Act - do whatever the RocaMata wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

Class RocaMuere

java.lang.Object

greenfoot.Actor

Obstaculo

RocaMuere

public class RocaMuereextends Obstaculo

La clase RocaMuere es un Obstaculo que muere al tocarlo.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

RocaMuere()

Method Summary

void act()

Act - do whatever the RocaMuere wants to do.

void | puntos()

metodo que muere al tocarlo y ortorga 10 puntos

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

RocaMuere

public RocaMuere()

Method Detail

act

public void act()

Act - do whatever the RocaMuere wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class Obstaculo

puntos

```
public void puntos()
```

método que muere al tocarlo y ortorga 10 puntos

lass Items

java.lang.Object

greenfoot.Actor

Items

public class Itemsextends greenfoot.Actor

La clase Items es una clase que hereda a La clase Moneda y a la Clase Telaraña.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Items()

Method Summary

void | act()

Act - do whatever the Items wants to do.

Methods inherited from class greenfoot. Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage,
setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Items

public Items()

Method Detail

act

public void act()

Act - do whatever the Items wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class greenfoot. Actor

Class Moneda

java.lang.Object

greenfoot.Actor

Items

Moneda

La clase moneda es un item que da pase al siguiente nivel.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Moneda ()

Method Summary

void | act()

Act - do whatever the Moneda wants to do.

Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Moneda

public Moneda()

Method Detail

act

```
public void act()
```

Act - do whatever the Moneda wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

Overrides:

act in class Items

Class Telaraña

java.lang.Object

greenfoot.Actor

Items

Telaraña

public class **Telaraña**extends Items

La clase es in item que otorga una vida al jugador.

Version:

4 jul 2018

Author:

AIVN

Constructor Summary

Telaraña()

Method Summary

 $void \mid \frac{act}{act}()$

Act - do whatever the Telaraña wants to do.

Methods inherited from class greenfoot. Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

Methods inherited from class java.lang.Object

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

Constructor Detail

Telaraña

public Telaraña()

Method Detail

act

public void act()

Act - do whatever the Telaraña wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.

act in class It	tems		

Overrides: