Class MyWorld

- java.lang.Object
 - greenfoot.World
 - MyWorld

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- public class MyWorld extends greenfoot.World
- Kitchen fever is a simulation set in the kitchen of a busy restaurant. Inspired by the game "Overcooked", the simulation shows the busy work lives of chefs as they cut, cook and plate orders. The two main parent classes are the Ingredients and Chefs classes. However, there are many other classes used in the simulation. These include, the Order, Timer, ProgressBar and Targets classes.
- Having two different types of meat, vegetable and grain ingredients, there are a total of eight dishes the chefs can make.
- The World class is primarily responsible for creating objects, generating orders and removing the order displays when a dish has been complete. The World also helps keep track of time as it runs at 60 frames per second
- In the parent class Chefs, the child classes are broken up into meat, vegetable, grain, plating and serving chefs. The meat and vegetable chefs are responsible for picking up, cutting and cooking ingredients. The grain chef is responsible for picking up grain ingredients and placing plates on the serving table. The Plating chef checks when the food is cooked and places the food on the plates. Finally, the serving chef takes the plates to serve to the customers.
- The Target class is a parent class that helps with the movement of the chefs. Each subclass represents a station. Each subclass of chef will only go to their designated stations. For instance, the meat chef will only move towards the FoodBox, CuttingBoard, FryingPan and Home Targets.
- The Order class is primarily used to display the orders visually for the viewer. However it also creates the ProgressBar and tells the chefs what ingredients they need to cook.
- The Timer and Progressbar act as an visual indication for when a process has been completed.
- An interesting thing to look out for would be how the animations are done For the
 animations, a 2D array is used. The array stores the type of animation needed (i.e. move
 down) and the images associated with that animation. This cuts back on a lot of code
 because everything is stored in one easily accessible array.
- Another interesting thing to look out for would be the images used. Almost all of background was hand drawn to fit the classic look of the overcooked game. In addition, all of the food images were created using editing software. The most time consuming task was

colouring the images, especially the bricks and tiles as each individual object has its unique look.

- If you don't want to wait for food to burn, press q and watch the chefs panic!
- One of the hardest tasks for this simulation was figuring out how the chefs were going to move. Typically, one would just rotate the character to move towards the target. However, since the simulation was not birds eye view, we had to go about it a completely different way through targets. However, an added benefit of doing it this way is that we actually have walking animations for the chef for all directions. In addition, I think this three dimensional view is one of the main things that help our simulation stand out from the others.
- Sound effects were taken from the youtube channel "SOUND and IMAGE FX" under the
 playlist "Cooking Sound Effect". Some food images were taken from the game "Minecraft".

 Background music is from the game "Overcooked". Animation sprites were created using
 the character sprite generator at

"http://gaurav.munjal.us/Universal-LPC-Spritesheet-Character-Generator/". Object list and nanotime code given by Mr.Cohen.

- Version:
- October 2018
- Author:
- Daniel Tan, Alexander Yee and Zhongchi Li
- Constructor Summary
- Constructor and Description
- MyWorld()
- Method Summary

Modifier and Type	Method and Description
void	• act()
• void	 checkButton(java.lang.String ingredientType, Buttons button1, Buttons button2) Assign the buttons clicked their corresponding ingredients to their order
• void	checkButtons()Check which of the 2 buttons of each column is clicked
• void	 finishedOrder() Updates the order display by removing the first order and progressbar.
• int	getFrames()Get the frame that the world is currently at

- Order
- getOrders(int num)
- Gets the Order objetc

Methods inherited from class greenfoot.World

 addObject, getBackground, getCellSize, getColorAt, getHeight, getObjects, getObjectsAt, getWidth, numberOfObjects, removeObject, removeObjects, repaint, setActOrder, setBackground, setBackground, setPaintOrder, showText, started, stopped

Methods inherited from class java.lang.Object

- clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait
- Constructor Detail
- MyWorld[Show source in BlueJ]
- public MyWorld()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Overrides:
- act in class greenfoot.World
- checkButton
- public void checkButton(java.lang.String ingredientType,

Buttons button1,

Buttons button2)

- Assign the buttons clicked their corresponding ingredients to their order
- checkButtons[Show source in BlueJ]
- public void checkButtons()
- Check which of the 2 buttons of each column is clicked
- finishedOrder[Show source in BlueJ]
- public void finishedOrder()
- Updates the order display by removing the first order and progressbar. Shifts all displays one position to the left
- getFrames[Show source in BlueJ]

- public int getFrames()
- Get the frame that the world is currently at
- Returns:
- int the frame the world is at

• getOrders[Show source in BlueJ]

- public Order getOrders(int num)
- Gets the Order objetc
- Parameters:
- num position of the order relative to the display
- Returns:
- Order returns the Order object

Class EndScreen

- java.lang.Object
 - greenfoot.World
 - EndScreen
- public class EndScreen

extends greenfoot.World

- Version:
- October 2018
- Author:
- Deston
- Constructor Summary
- Constructor and Description
- EndScreen()
- Constructor for objects of class EndScreen.
- Method Summary
- Methods inherited from class greenfoot.World
- act, addObject, getBackground, getCellSize, getColorAt, getHeight, getObjects, getObjectsAt, getWidth, numberOfObjects, removeObject, removeObjects, repaint, setActOrder, setBackground, setBackground, setPaintOrder, showText, started, stopped
- Methods inherited from class java.lang.Object
- clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
- Constructor Detail
- EndScreen[Show source in BlueJ]
- public EndScreen()
- Constructor for objects of class EndScreen.

Class Buttons

- java.lang.Object
 - greenfoot.Actor
 - Buttons
- public class Buttons
 - extends greenfoot.Actor
- This class is a widget that creates buttons for users to input their own orders into the simulation
- Version:
- October 2018
- Author:
- Zhongchi Li
- Constructor Summary
- Constructor and Description
- **Buttons**(int length, int width, java.lang.String image, java.lang.String altImage, boolean stay)
- The main constructor, accepts the length, width, name of the image files, and whether it will stay as clicked down or not

Method Summary

Modifier and Type	Method and Description
• void	act()Act, sets paint order and check for clicks
• void	 click() this method checks if button is clicked and sets the images accordingly
• void	disable()returns if it has been disabled or not
• void	enable()returns whether it is enabled
 boolean 	getClicked()returns if it has been clicked or not

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

Buttons

public Buttons(int length,

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int width,
java.lang.String image,
java.lang.String altImage,
boolean stay)
```

• The main constructor, accepts the length, width, name of the image files, and whether it will stay as clicked down or not

Method Detail

act[Show source in BlueJ]

- public void act()
- Act, sets paint order and check for clicks
- Overrides:
- act in class greenfoot.Actor

click[Show source in BlueJ]

- public void click()
- this method checks if button is clicked and sets the images accordingly

disable[Show source in BlueJ]

- public void disable()
- returns if it has been disabled or not

enable[Show source in BlueJ]

- public void enable()
- returns whether it is enabled

getClicked[Show source in BlueJ]

public boolean getClicked()

• returns if it has been clicked or not

Class Chefs

- java.lang.Object
 - greenfoot.Actor
 - Chefs

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- public abstract class Chefs extends greenfoot.Actor
- The Chefs class is a Superclass for all the chefs present in the simulation, that controls all the movement, animations and decision making. The Chefs class receives information from the majority of all the other classes to be relayed to all the other chefs. It also controls the Orders that are created from the World, helping the chefs 'see' the next orders that need to be prepare
- Contributions by Alexander include: Animations of the chefs Sound effects being played How the chef gets orders Helped fix bugs with movement Created methods checkOrder(),cut(), finishedIngredient(), finishedOrder(), animate(),
- Contributions by Daniel include: Chef movement Chef interactions with ingredients
- Contribution by Deston and Justin: Creating ingredients within the class How ingredients interacted with chefs
- Version:
- October 2018
- Author:
- Daniel, Alexander, Justin and Deston
- Field Summary
- Modifier and
 Field and Description
 Type
- protectedVegetables
- BroccoliOrBokChoy
- protectedMeat
- ChickenOrBeef
- protected boolean
- follow
- protected boolean
- idle
- protected java.lang.St ring
- ingredientSelect

protected isCutting boolean protected panic boolean placedPlate protected boolean protected speedX int protected speedY int protected targetX int protected targetY int protected type int Constructor Summary Constructor and Description • Chefs() Method Summary Modifier and Method and Description **Type** void addedToWorld(greenfoot.World w) void checkOrder(int food) • **cut()** void void finishedIngredient() finishedOrder() void getCuttingTime() int • returns cutting time • idleWalk() protected void lowerOrder() protected void • prepare(java.lang.String chefType, java.lang.String protected meatVegGrain) void void • setCuttingTime(int time) • resets cutting time

- void
- setPanic()
- Makes chef panic, causing the chefs to move randomly at a greater spee
- Methods inherited from class greenfoot.Actor
- act, 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
- Field Detail
 - BroccoliOrBokChoy[Show source in BlueJ]
 - protected Vegetables BroccoliOrBokChoy
 - ChickenOrBeef[Show source in BlueJ]
 - protected Meat ChickenOrBeef
 - follow[Show source in BlueJ]
 - protected boolean follow
 - idle[Show source in BlueJ]
 - protected boolean idle
 - ingredientSelect[Show source in BlueJ]
 - protected java.lang.String ingredientSelect
 - isCutting[Show source in BlueJ]
 - protected boolean isCutting
 - panic[Show source in BlueJ]
 - protected boolean panic
 - placedPlate[Show source in BlueJ]
 - protected boolean placedPlate

speedX[Show source in BlueJ] protected int speedX speedY[Show source in BlueJ] protected int speedY targetX[Show source in BlueJ] protected int targetX targetY[Show source in BlueJ] protected int targetY type[Show source in BlueJ] protected int type Constructor Detail **Chefs[Show source in BlueJ]** • public Chefs() **Method Detail** addedToWorld public void addedToWorld(greenfoot.World w) Overrides: addedToWorld in class greenfoot.Actor checkOrder[Show source in BlueJ] public void checkOrder(int food) cut[Show source in BlueJ] public void cut() finishedIngredient[Show source in BlueJ] public void finishedIngredient() finishedOrder[Show source in BlueJ] public void finishedOrder() getCuttingTime[Show source in BlueJ] public int getCuttingTime()

- returns cutting time
- idleWalk[Show source in BlueJ]
- protected void idleWalk()
- lowerOrder[Show source in BlueJ]
- protected void lowerOrder()
- prepare
- protected void prepare(java.lang.String chefType, java.lang.String meatVegGrain)
- setCuttingTime[Show source in BlueJ]
- public void setCuttingTime(int time)
- resets cutting time
- setPanic[Show source in BlueJ]
- public void setPanic()
- Makes chef panic, causing the chefs to move randomly at a greater spee

Class GrainChef

- java.lang.Object
 - greenfoot.Actor
 - Chefs
 - GrainChef
- public class GrainChef extends Chefs
- Version:
- October 2018
- Author:
- Alexander, Daniel, Justin and Deston
- Field Summary
- Fields inherited from class Chefs
- BroccoliOrBokChoy, ChickenOrBeef, follow, idle, ingredientSelect, isCutting, panic, placedPlate, speedX, speedY, targetX, targetY, type
- Constructor Summary
- Constructor and Description
- GrainChef()
- Constructor
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the PlaterChef wants to do.
- protected void
- FollowChef()
- void
- updatePlate()
- Updates whether the plate has been placed
- Methods inherited from class Chefs
- addedToWorld, animate, checkOrder, cut, finishedIngredient, finishedOrder, getCuttingTime, idleWalk, lowerOrder, prepare, setCuttingTime, setPanic
- Methods inherited from class greenfoot.Actor

- 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
- GrainChef[Show source in BlueJ]
- public GrainChef()
- Constructor
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the PlaterChef wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.
- Overrides:
- act in class greenfoot.Actor
- FollowChef[Show source in BlueJ]
- protected void FollowChef()
- updatePlate[Show source in BlueJ]
- public void updatePlate()
- Updates whether the plate has been placed

Class MeatChef

- java.lang.Object
 - greenfoot.Actor
 - Chefs
 - MeatChef
- public class MeatChef extends Chefs
- Version:
- October 2018
- Author:
- Alexander, Daniel, Deston and Justin
- Field Summary
- Fields inherited from class Chefs
- BroccoliOrBokChoy, ChickenOrBeef, follow, idle, ingredientSelect, isCutting, panic, placedPlate, speedX, speedY, targetX, targetY, type
- Constructor Summary
- Constructor and Description
- MeatChef()
- Constructor for MeatChef class
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the MeatChef wants to do.
- protected void
- FollowChef()
- Methods inherited from class Chefs
- addedToWorld, animate, checkOrder, cut, finishedIngredient, finishedOrder, getCuttingTime, idleWalk, lowerOrder, prepare, setCuttingTime, setPanic
- Methods inherited from class greenfoot.Actor
- 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
- MeatChef[Show source in BlueJ]
- public MeatChef()
- Constructor for MeatChef class
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the MeatChef wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.
- Overrides:
- act in class greenfoot.Actor
- FollowChef[Show source in BlueJ]
- protected void FollowChef()

Class PlatingChef

- java.lang.Object
 - greenfoot.Actor
 - Chefs
 - PlatingChef
- public class PlatingChef extends Chefs
- Version:
- October 2018
- Author:
- Alexander, Daniel, Deston and Justin
- Field Summary
- Fields inherited from class Chefs
- BroccoliOrBokChoy, ChickenOrBeef, follow, idle, ingredientSelect, isCutting, panic, placedPlate, speedX, speedY, targetX, targetY, type
- Constructor Summary
- Constructor and Description
- PlatingChef()
- Constructor
- Method Summary
- Modifier and
 Method and Description
 Type
- void
 act()
 - Act do whatever the FoodPlatingChef wants to do.
- protectedFollowChef()
- Methods inherited from class Chefs
- addedToWorld, animate, checkOrder, cut, finishedIngredient, finishedOrder, getCuttingTime, idleWalk, lowerOrder, prepare, setCuttingTime, setPanic
- Methods inherited from class greenfoot.Actor
- 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
- PlatingChef[Show source in BlueJ]
- public PlatingChef()
- Constructor
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the FoodPlatingChef wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.
- Overrides:
- act in class greenfoot.Actor
- FollowChef[Show source in BlueJ]
- protected void FollowChef()

Class ServingChef

- java.lang.Object
 - greenfoot.Actor
 - Chefs
 - ServingChef
- public class ServingChef extends Chefs
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Chefs
- BroccoliOrBokChoy, ChickenOrBeef, follow, idle, ingredientSelect, isCutting, panic, placedPlate, speedX, speedY, targetX, targetY, type
- Constructor Summary
- Constructor and Description
- ServingChef()
- Constructor
- Method Summary
- Modifier and
 Method and Description
 Type
- void
- act()
- Act do whatever the ServingChef wants to do.
- Methods inherited from class Chefs
- addedToWorld, animate, checkOrder, cut, finishedIngredient, finishedOrder, getCuttingTime, idleWalk, lowerOrder, prepare, setCuttingTime, setPanic
- Methods inherited from class greenfoot.Actor
- 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
- ServingChef[Show source in BlueJ]
- public ServingChef()
- Constructor
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the ServingChef 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 VegetableChef

- java.lang.Object
 - greenfoot.Actor
 - Chefs
 - VegetableChef
- public class VegetableChef extends Chefs
- Version:
- October 2018
- Author:
- Alexander, Daniel, Deston and Justin
- Field Summary
- Fields inherited from class Chefs
- BroccoliOrBokChoy, ChickenOrBeef, follow, idle, ingredientSelect, isCutting, panic, placedPlate, speedX, speedY, targetX, targetY, type
- Constructor Summary
- Constructor and Description
- VegetableChef()
- Constructor
- Method Summary
- Modifier and
 Method and Description
 Type
- void
 act()
 - Act do whatever the VegetableChef wants to do.
- protectedFollowChef()
- Methods inherited from class Chefs
- addedToWorld, animate, checkOrder, cut, finishedIngredient, finishedOrder, getCuttingTime, idleWalk, lowerOrder, prepare, setCuttingTime, setPanic
- Methods inherited from class greenfoot.Actor
- 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
- VegetableChef[Show source in BlueJ]
- public VegetableChef()
- Constructor
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the VegetableChef wants to do. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.
- Overrides:
- act in class greenfoot.Actor
- FollowChef[Show source in BlueJ]
- protected void FollowChef()

Class Ingredients

- java.lang.Object
 - greenfoot.Actor
 - Ingredients

 public abstract class Ingredients extends greenfoot.Actor

- The Ingredients class works along with the Chef class to create instances of different types of food such as meat, vegetables, and grains which are used by the chefs. Each instance of meat, vegetables, or grains has its own unique properties to determine how it is being processed (chopped or cooked), and acts appropriately based on which part of the process it is going through. Within the Ingredients class, an interesting aspect to take note of is that many of the methods within the class are called on through the Chef class, thus showing how the two major superclasses within the program interact closely to make the program function smoothly. For example, many methods deal with Greenfoot Images to effectively animate and process food or calculate the time for which food is cooked before it is burnt are stored within the Food class, and are further implemented to work alongside the Chefs after such objects are created in the world. These methods are specifically optimized in order to reduce redundant code and bring out the benefits of Object Oriented Programming due to their interactivity with the Food class. In addition, our class fully utilizes the benefits of Object Oriented Programming because many instances of each object can be created, and they will all work the same in our simulation because of how our methods were generalized. As a result, no matter what type of object or how many of them there are, it will all work seamlessly with our simulation.
- Version:
- October 2018
- Author:
- Deston Wong, Justin Huynh
- Field Summary
- Modifier and
 Field and Description
 Type
- protected
 greenfoot.G
 reenfootIm
 age
- protected cloud greenfoot.G

reenfootIm age foodName protected java.lang.St ring protected image areenfoot.G reenfootIm age protected isBurning boolean isChopped protected boolean protected isCooked boolean protected isCooking boolean protected isPreparing boolean locationSet protected boolean protected smoking areenfoot.G reenfootIm age • Constructor Summary • Constructor and Description • Ingredients() Method Summary Modifier and Method and Description Type void act() • A method which runs for each instance of Food in the world.

getChopped()

chopped.

getCooked()

fully cooked.

• Getter method to determine whether the ingredient is

• Getter method to determine whether the ingredient is

boolean

boolean

- booleangetCooking()
 - Getter method to determine whether the ingredient is cooking.
- intgetCookingTime()
 - resets cutting time
- java.lang.St ring
- getName()
- Getter method to determine the name of the ingredient
- void
- PickUp()
- Determines the actions of the food when it is picked up, after it has been either chopped or cooked.
- void
- Process(int position)
- Initializes boolean allowing for animations to occur.
- void
- setCookingTime(int time)
- Set cooking time
- 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
- Field Detail
- altImage[Show source in BlueJ]
- protected greenfoot.GreenfootImage altImage
- cloud[Show source in BlueJ]
- protected greenfoot.GreenfootImage cloud
- foodName[Show source in BlueJ]
- protected java.lang.String foodName
- image[Show source in BlueJ]
- protected greenfoot.GreenfootImage image
- isBurning[Show source in BlueJ]

- protected boolean isBurning
 isChopped[Show source in BlueJ]
 protected boolean isChopped
 isCooked[Show source in BlueJ]
- protected boolean isCooked
- isCooking[Show source in BlueJ]
- protected boolean isCooking
- isPreparing[Show source in BlueJ]
- protected boolean isPreparing
- locationSet[Show source in BlueJ]
- protected boolean locationSet
- smoking[Show source in BlueJ]
- protected greenfoot.GreenfootImage smoking
- Constructor Detail
- Ingredients[Show source in BlueJ]
- public Ingredients()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- A method which runs for each instance of Food in the world. Repeatedly
 checks if ingredients are cooked or chopped so they can act according to
 actions of the Chef class.
- Overrides:
- act in class greenfoot.Actor
- getChopped[Show source in BlueJ]
- public boolean getChopped()
- Getter method to determine whether the ingredient is chopped.
- Returns:
- boolean True if ingredient is chopped
- getCooked[Show source in BlueJ]

- public boolean getCooked()
- Getter method to determine whether the ingredient is fully cooked.
- Returns:
- boolean True if ingredient is fully cooked
- getCooking[Show source in BlueJ]
- public boolean getCooking()
- Getter method to determine whether the ingredient is cooking.
- Returns:
- boolean True if ingredient is being cooked
- getCookingTime[Show source in BlueJ]
- public int getCookingTime()
- resets cutting time
- getName[Show source in BlueJ]
- public java.lang.String getName()
- Getter method to determine the name of the ingredient
- Returns:
- String The name of the current ingredient
- PickUp[Show source in BlueJ]
- public void PickUp()
- Determines the actions of the food when it is picked up, after it has been either chopped or cooked. Is called upon throughout methods in the Chef class.
- Process[Show source in BlueJ]
- public void Process(int position)
- Initializes boolean allowing for animations to occur. Is called upon throughout methods in the Chef class.
- Parameters:
- position Position of the ingredient relative to which pan it is going on
- setCookingTime[Show source in BlueJ]
- public void setCookingTime(int time)
- Set cooking time
- Parameters:

• int - How long the ingredient takes to cook

Class Counter

- java.lang.Object
 - greenfoot.Actor
 - Counter
- public class **Counter**
 - extends greenfoot.Actor
- Updates the counter class image whenever the Grain Chef obtains noodles or rice.
- Version:
- October 2018
- Author:
- Justin Huynh
- Constructor Summary
- Constructor and Description
- Counter()
- Method Summary

	Modifier and • Type	Method and Description
•	void •	act() After 50 frames have passed, image will return to the empty countertop
•	void •	getNoodles() Updates counter image with noodles
•	void •	getRice() Updates counter image with an open rice pot
•	void •	returnImage() Returns image to original countertop (no noodles or rice)

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
- Counter[Show source in BlueJ]
- public Counter()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- After 50 frames have passed, image will return to the empty countertop
- Overrides:
- act in class greenfoot.Actor
- getNoodles[Show source in BlueJ]
- public void getNoodles()
- Updates counter image with noodles
- getRice[Show source in BlueJ]
- public void getRice()
- Updates counter image with an open rice pot
- returnImage[Show source in BlueJ]
- public void returnImage()
- Returns image to original countertop (no noodles or rice)

Class Meat

- java.lang.Object
 - greenfoot.Actor
 - Ingredients
 - Meat

- •
- public class **Meat** extends Ingredients
- Version:
- October 2018
- Author:
- Justin Huynh
- Field Summary
- Fields inherited from class Ingredients
- altImage, cloud, foodName, image, isBurning, isChopped, isCooked, isCooking, isPreparing, locationSet, smoking
- Constructor Summary
- Constructor and Description
- Meat(java.lang.String foodName)
- Method Summary
- Methods inherited from class Ingredients
- act, getCooked, getCooking, getCookingTime, getName, PickUp, Process, setCookingTime
- 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

- Meat
- public Meat(java.lang.String foodName)

Class Vegetables

- java.lang.Object
 - greenfoot.Actor
 - Ingredients
 - Vegetables
- public class Vegetables
 extends Ingredients
- Version:
- October 2018
- Author:
- Justin Huynh
- Field Summary
- Fields inherited from class Ingredients
- altImage, cloud, foodName, image, isBurning, isChopped, isCooked, isCooking, isPreparing, locationSet, smoking
- Constructor Summary
- Constructor and Description
- **Vegetables**(java.lang.String foodName)
- Method Summary
- Methods inherited from class Ingredients
- act, getCooked, getCooking, getCookingTime, getName, PickUp, Process, setCookingTime
- 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 DetailVegetables

• public Vegetables(java.lang.String foodName)

Class Order

- java.lang.Object
 - greenfoot.Actor
 - Order

- public class Order extends greenfoot.Actor
- Version:
- October 2018
- Author:
- Alexander
- Constructor Summary
- Constructor and Description
- **Order**(java.lang.String[] ingredients)
- Method Summary
- Modifier and Type
- Method and Description
- void
- addedToWorld(greenfoot.World w)
- void
- changeLocation()
- java.lang.Stri ng[]
- getIngredients()

Methods inherited from class greenfoot.Actor

- act, 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
- Order
- public Order(java.lang.String[] ingredients)
- Method Detail
- addedToWorld
- public void addedToWorld(greenfoot.World w)
- Overrides:
- addedToWorld in class greenfoot.Actor
- changeLocation[Show source in BlueJ]
- public void changeLocation()
- getIngredients[Show source in BlueJ]
- public java.lang.String[] getIngredients()

Class Plate

- java.lang.Object
 - greenfoot.Actor
 - Plate

•

- public class Plate extends greenfoot.Actor
- When a chef interacts with a plate, their cooked ingredient will be drawn onto the plate. When the plate is complete, it can be sent out to the customer.
- Version:
- October 2018
- Author:
- Deston Wong, Justin Huynh
- Constructor Summary
- Constructor and Description
- Plate()
- Method Summary

Modifier and Type	Method and Description
boolean	checkIfComplete()Method to check if the plate has been completed
• int	• getPosition()
• void	placePlate()Place plate at a location 40 pixels to the right
• void	 setFood(java.lang.String foodName) Adds the image of the given food onto the plate
• void	• setPosition(int position)

Methods inherited from class greenfoot.Actor

 act, 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
- Plate[Show source in BlueJ]
- public Plate()
- Method Detail
- checklfComplete[Show source in BlueJ]
- public boolean checkIfComplete()
- Method to check if the plate has been completed
- Returns
- boolean True if plate has all components
- getPosition[Show source in BlueJ]
- public int getPosition()
- placePlate[Show source in BlueJ]
- public void placePlate()
- Place plate at a location 40 pixels to the right
- setFood
- public void setFood(java.lang.String foodName)
- Adds the image of the given food onto the plate
- setPosition[Show source in BlueJ]
- public void setPosition(int position)

Class ProgressBar

- java.lang.Object
 - greenfoot.Actor
 - ProgressBar
- •
- public class ProgressBar extends greenfoot.Actor
- Version:
- October 2018
- Author:
- Alexander Yee
- Constructor Summary
- Constructor and Description
- ProgressBar(double width, double height)
- Method Summary
- Modifier and
 Type

 Method and Description
- voidchangeLocation()
 - Shift the par to the left
- voidresize()
 - Adds one level of progress
- Methods inherited from class greenfoot.Actor
- act, 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

- ProgressBar[Show source in BlueJ]
- public ProgressBar(double width, double height)
- Method Detail
- changeLocation[Show source in BlueJ]
- public void changeLocation()
- Shift the par to the left
- resize[Show source in BlueJ]
- public void resize()
- Adds one level of progress

Class Sliders

- java.lang.Object
 - greenfoot.Actor
 - Sliders

•

- public class **Sliders**
 - extends greenfoot.Actor
- The sliders class is a widget that allows the user to change certain time lengths up to a range in this simulation.
- Version:
- Oct 2018
- Author:
- Zhongchi Li with the help of Gevater_Tod4711
- Constructor Summary
- Constructor and Description
- **Sliders**(int min, int max, int initial, int which)
- The main constructor, accepts a minimum, maximum and inital vaue, and an int to indicate which slider it is

Method Summary

Modifier and Type	Method and Description
void	• act()
• void	addedToWorld(greenfoot.World world)add the hand to the world
• int	getCurX()returns current x value
 Sliders.Slider Hand 	getHand()returns the assisting hand object
• int	getInitial()returns initial value
• int	getMaxX()returns maximum x value
• int	getMinX()returns minimum x value
• int	getRatio()returns the ratio between the length of the image and the range

of the value

Methods inherited from class greenfoot.Actor

 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

- Sliders[Show source in BlueJ]
- public Sliders(int min, int max, int initial, int which)
- The main constructor, accepts a minimum, maximum and inital vaue, and an int to indicate which slider it is

Method Detail

- act[Show source in BlueJ]
- public void act()
- Overrides:
- act in class greenfoot.Actor

addedToWorld

- public void addedToWorld(greenfoot.World world)
- add the hand to the world
- Overrides:
- addedToWorld in class greenfoot.Actor
- getCurX[Show source in BlueJ]
- public int getCurX()
- returns current x value

getHand[Show source in BlueJ]

• public Sliders.SliderHand getHand()

- returns the assisting hand object
- getInitial[Show source in BlueJ]
- public int getInitial()
- returns initial value
- getMaxX[Show source in BlueJ]
- public int getMaxX()
- returns maximum x value
- getMinX[Show source in BlueJ]
- public int getMinX()
- returns minimum x value
- getRatio[Show source in BlueJ]
- public int getRatio()
- returns the ratio between the length of the image and the range of the value

Class Targets

- java.lang.Object
 - greenfoot.Actor
 - Targets

- lacksquare
- public class **Targets** extends greenfoot.Actor
- Write a description of class Targets here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Modifier and Type
- Field and Description
- protected boolean
- hasPlate
- protected boolean
- isFree
- protected int
 - speed
- Constructor Summary
- Constructor and Description
- Targets()
- Method Summary
- Modifier and Type
- Method and Description
- protected boolean
- getFree()
- protected boolean
- getPlate()
- protected void
- move()
- protected void
- moveAround()
- protected void
- setFreeFalse()
- protected void
- setFreeTrue()

- protected void
- setPlateFalse()
- protected void
- setPlateTrue()

Methods inherited from class greenfoot.Actor

 act, 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,
- Field Detail
- hasPlate[Show source in BlueJ]
- protected boolean hasPlate
- isFree[Show source in BlueJ]
- protected boolean isFree
- speed[Show source in BlueJ]
- protected int speed
- Constructor Detail
- Targets[Show source in BlueJ]
- public Targets()
- Method Detail
- getFree[Show source in BlueJ]
- protected boolean getFree()
- getPlate[Show source in BlueJ]
- protected boolean getPlate()
- move[Show source in BlueJ]
- protected void move()

- moveAround[Show source in BlueJ]
- protected void moveAround()
- setFreeFalse[Show source in BlueJ]
- protected void setFreeFalse()
- setFreeTrue[Show source in BlueJ]
- protected void setFreeTrue()
- setPlateFalse[Show source in BlueJ]
- protected void setPlateFalse()
- setPlateTrue[Show source in BlueJ]
- protected void setPlateTrue()

Class CuttingBoard

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - CuttingBoard

•

- public class CuttingBoard extends Targets
- Write a description of class target3 here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- CuttingBoard()
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the target3 wants to do.
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- 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

- CuttingBoard[Show source in BlueJ]
- public CuttingBoard()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the target3 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 Dishrack

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - Dishrack
- public class **Dishrack** extends Targets
- Write a description of class Dishrack here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- Dishrack()
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the Dishrack wants to do.
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- 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
- Dishrack[Show source in BlueJ]
- public Dishrack()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the Dishrack 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 FoodBox

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - FoodBox

• public class **FoodBox**

extends Targets

- Write a description of class target2 here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- FoodBox()
- Method Summary
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- Methods inherited from class greenfoot.Actor
- act, 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
- FoodBox[Show source in BlueJ]

public FoodBox()

Class FoodPickup

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - FoodPickup

•

- public class FoodPickup extends Targets
- Write a description of class FoodPickup here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- FoodPickup()
- Constructor
- Method Summary
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- Methods inherited from class greenfoot.Actor
- act, 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

- FoodPickup[Show source in BlueJ]
- public FoodPickup()
- Constructor

Class FryingPan

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - FryingPan

- public class FryingPan extends Targets
- Write a description of class FryingPan here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- FryingPan()
- Method Summary
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- Methods inherited from class greenfoot.Actor
- act, 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
- FryingPan[Show source in BlueJ]

• public FryingPan()

Class Home

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - Home
- public class **Home**
 - extends Targets
- Write a description of class target1 here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- **Home**()
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the target1 wants to do.
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- 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

- Home[Show source in BlueJ]
- public Home()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the target1 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 RiceAndNoodles

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - RiceAndNoodles

11: 1 5:

 public class RiceAndNoodles extends Targets

- Write a description of class RiceAndNoodles here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- RiceAndNoodles()
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the RiceAndNoodles wants to do.
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- 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
- RiceAndNoodles[Show source in BlueJ]
- public RiceAndNoodles()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the RiceAndNoodles 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 ServeryWindow

- java.lang.Object
 - greenfoot.Actor
 - Targets
 - ServeryWindow

....

 public class ServeryWindow extends Targets

- Write a description of class target5 here.
- Version:
- October 2018
- Author:
- Daniel
- Field Summary
- Fields inherited from class Targets
- hasPlate, isFree, speed
- Constructor Summary
- Constructor and Description
- ServeryWindow()
- Method Summary
- Modifier and Type
- Method and Description
- void
- act()
- Act do whatever the target5 wants to do.
- Methods inherited from class Targets
- getFree, getPlate, move, moveAround, setFreeFalse, setFreeTrue, setPlateFalse, setPlateTrue
- 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
- ServeryWindow[Show source in BlueJ]
- public ServeryWindow()
- Method Detail
- act[Show source in BlueJ]
- public void act()
- Act do whatever the target5 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 Timer

- java.lang.Object
 - greenfoot.Actor
 - Timer

• public class **Timer**

extends greenfoot.Actor

- Acts as a countdown from a desired time to zero seconds. Designed to show when something can be used again. Multiple instances can be created as long as the trigger keys are different.
- Version:
- October 2018
- Author:
- Alexander Yee with help from Jordan Cohen
- Constructor Summary
- Constructor and Description
- **Timer**(double time, int r, int g, int b, double width, double height)
- Creates an ability bar with full customization, allowing the user to change countdown time, colour and size.

Method Summary

- Modifier and Type
- Method and Description

- void
- act()
- Counts in real time and checks when to decrease the ability bar height.
- boolean
- isDone()
- Indicated when timer is finished
- 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

• Timer[Show source in BlueJ]

public Timer(double time,

```
int r,
int g,
int b,
double width,
double height)
```

 Creates an ability bar with full customization, allowing the user to change countdown time, colour and size.

Parameters:

- time The countdown time of the ability in seconds. Recommended to use less than 40 seconds
- key The keyboard input that will begin the countdown. Must be one character or a single input
- r The red component of colour. Ranges from 0 255
- g The green component of colour. Ranges from 0 255
- b The blue component of colour. Ranges from 0 255
- width The width of the ability bar in pixels. Recommended to use between 1 and 100
- height The height of the ability bar in pixels. Recommended to use between 30 and 100

Method Detail

act[Show source in BlueJ]

- public void act()
- Counts in real time and checks when to decrease the ability bar height. This method is called whenever the 'Act' or 'Run' button gets pressed in the environment.
- Overrides:
- act in class greenfoot.Actor

isDone[Show source in BlueJ]

- public boolean isDone()
- Indicated when timer is finished

•

Class Washing

- java.lang.Object
 - greenfoot.Actor
 - Washing
- public class **Washing**
- extends greenfoot.Actor
- Write a description of class Washing here.
- Version:
- October 2018
- Author:
- Alexander
- Constructor Summary
- Constructor and Description
- Washing()
- Method Summary
- Modifier and
 Method and Description
 Type
- void
- act()
- void
- addedToWorld(greenfoot.World w)
- void
- animation()

Methods inherited from class greenfoot.Actor

- 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
- Washing[Show source in BlueJ]
- public Washing()

- Method Detail
- act[Show source in BlueJ]
- public void act()
- Overrides:
- act in class greenfoot.Actor
- addedToWorld
- public void addedToWorld(greenfoot.World w)
- Overrides:
- addedToWorld in class greenfoot.Actor
- animation[Show source in BlueJ]
- public void animation()