SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Class Establishment

java.lang.Object greenfoot.Actor Establishment

ALL CLASSES

Direct Known Subclasses:

Chateau, Garrison, Treasury

public abstract class Establishment
extends greenfoot.Actor

Establishment Class

Abstract superclass for all establishments, including the Chateau, Garrison, and Treasury. Includes basic functions that are used by each type of establishment, such as returning and setting the alliance and getting hit by troops.

SEARCH:

Search

Version:

April 2021

Author:

Andrew Qiao, James Li

Field Summary

Fields

Modifier and Type	Field	Description
protected int	alliance	
protected StatBar	healthBar	
protected int	hp	
protected int	maxHP	

Constructor Summary

Constructors

Constructor Description

ALL CLASSES SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Method Summary

All Methods	Instance Meth	ods Abstract Methods Concrete Methods	
Modifier and Type	Method	Description	
protected abstract void	explode()	Called when the establishment's HP reached below 0, abstract as each establishment acts differently.	
int	<pre>getAlliance()</pre>	Getter method, returns the alliance variable.	
void	<pre>hit (int damage)</pre>	Called by troops when the establishment gets hit, decreases HP, changes the properties of its health bar, and checks if HP has reached below o accordingly.	
void	<pre>setAlliance (int alliance)</pre>	Setter method, sets the alliance of the establishment.	

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

Field Detail

hp

protected int hp

ALL CLASSES SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

maxHP

protected int maxHP

healthBar

protected StatBar healthBar

Constructor Detail

Establishment

Constructor for Establishment class, sets its starting variables.

Parameters:

maxHP - The maximum HP the establishment can have

alliance - The alliance the establishment belongs to, o is gold, 1 is blue

Method Detail

getAlliance

public int getAlliance()

Getter method, returns the alliance variable.

ALL CLASSES SEARCH:

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

setAlliance

public void setAlliance(int alliance)

Setter method, sets the alliance of the establishment.

Parameters:

alliance - The alliance of the establishment

hit

public void hit(int damage)

Called by troops when the establishment gets hit, decreases HP, changes the properties of its health bar, and checks if HP has reached below o accordingly.

Search

Parameters:

damage - The amount of damage that has been done to the establishment

explode

protected abstract void explode()

Called when the establishment's HP reached below o, abstract as each establishment acts differently.

PACKAGE CLASS TREE INDEX HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD