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

Class Troop

ALL CLASSES

java.lang.Object greenfoot.Actor Troop

Direct Known Subclasses:

Dragon, Serpentine

public abstract class Troop
extends greenfoot.Actor

Troop Class

Superclass of all different troops, contains all the necessary instance variables pertaining to the properties of each troop, also includes vital methods for the activities of the troops, such as targeting the nearest troops, establishments, and getting hit by enemies.

Search

SEARCH:

Author:

Andrew Qiao, Ryo Minakami

Field Summary

Fields		
Modifier and Type	Field	Description
protected int	actCount	
protected int	alliance	
protected Chateau	chateau	
protected double	closestEstablishment	
protected double	closestTroop	
<pre>protected ArrayList<establishment></establishment></pre>	establishments	
protected StatBar	healthBar	
protected int	hp	
protected int	level	
protected int	maxHP	
protected int	reloadCounter	

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

protected Troop targetTroop

Constructor Summary

Constructors

Constructor Description

Troop(int alliance, int level, Constructor for Troop, sets starting values of

Chateau chateau) variables.

Method Summary

All Methods Instance Methods Concrete Methods		
Modifier and Type	Method	Description
void	<pre>death (boolean isCastleDestroyed)</pre>	Called when a troop's HP is o or below.
protected Establishment	<pre>findEstablishment()</pre>	Returns the closest establishment of the enemy alliance, returns null if there are none.
protected Troop	<pre>findTroop()</pre>	Returns the closest troop of the opposing alliance.
int	<pre>getAlliance()</pre>	Getter method, returns the alliance of the Troop (o - Gold, 1 - Blue).
protected double	<pre>getDistance (greenfoot.Actor a)</pre>	Returns the distance between a troop and another actor.
protected void	<pre>hit(int damage)</pre>	Called when the troop gets hit, decrements HP accordingly.
void	<pre>setAlliance(int alliance)</pre>	Sets the alliance of the Troop.

Methods inherited from class greenfoot.Actor

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

Methods inherited fro	m class	java.lang.	.Object
-----------------------	---------	------------	---------

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

Field Detail alliance protected int alliance maxHP protected int maxHP hp protected int hp reloadTime protected int reloadTime speed protected int speed

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

level
protected int level
closestTroop
protected double closestTroop
closestEstablishment
protected double closestEstablishment
reloadCounter
protected int reloadCounter
troops
protected ArrayList <troop> troops</troop>
establishments
protected ArrayList <establishment> establishments</establishment>
targetTroop
protected Troop targetTroop

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

protected Establishment targetEstablishment

chateau

protected Chateau chateau

healthBar

protected StatBar healthBar

Constructor Detail

Troop

Constructor for Troop, sets starting values of variables.

Parameters:

alliance - Alliance the troop belongs to (o - Gold, 1 - Blue)

level - Level of the troop

chateau - Chateau that the troop belongs to

Method Detail

hit

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

damage - Damage dealt to the troop

findEstablishment

protected Establishment findEstablishment()

Returns the closest establishment of the enemy alliance, returns null if there are none.

Returns:

Establishment Closest establishment of enemy alliance to the troop

findTroop

protected Troop findTroop()

Returns the closest troop of the opposing alliance.

Returns:

Troop Closest troop of the opposing alliance

getDistance

protected double getDistance(greenfoot.Actor a)

Returns the distance between a troop and another actor.

Returns:

double Distance between a troop and another actor

death

public void death(boolean isCastleDestroyed)

Called when a troop's HP is o or below.

Parameters:

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

getAillance

public int getAlliance()

Getter method, returns the alliance of the Troop (o - Gold, 1 - Blue).

Returns:

int Allinace of the Troop (o - Gold, 1 - Blue)

setAlliance

public void setAlliance(int alliance)

Sets the alliance of the Troop.

Parameters:

alliance - Alliance of the Troop (o - Gold, 1 - Blue)

PACKAGE CLASS TREE INDEX HELP

ALL CLASSES

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