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com.george.als.utils

Class Node

java.lang.Object
└─ com.george.als.utils.Node

public class Node
extends java.lang.Object

This class holds all the information about a node A node is part of a path and is used to follow a path

Author:
Georges Beast

Constructor Summary
Node (int x, int y, Node parent, double gCost, double hCost) Class Constructor

Method Summary
double getFCost ()
double getGCost ()
double getHCost ()
Node getParent ()
int getX ()
int getY ()
void setFCost (double cost) Sets the fCost of the node
void setGCost (double cost) Sets the gCost of the node
void setHCost (double cost) Sets the hCost of the node

void	setParent (Node parent) Sets the parent of the node
void	setX (int x) Sets the x coordinate of the node
void	setY (int y) Sets the y coordinate of the node

Methods inherited from class java.lang.Object

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

Node

```
public Node(int x,  
            int y,  
            Node parent,  
            double gCost,  
            double hCost)
```

Class Constructor

Parameters:

x - the x coordinate of the node
y - the y coordinate of the node
parent - the parent node
gCost - the gCost
hCost - the hCost

Method Detail

getX

```
public int getX()
```

Returns:

the x coordinate of the node

getY

```
public int getY()
```

Returns:

the y coordinate of the node

getParent

```
public Node getParent()
```

Returns:

the nodes parent

getFCost

```
public double getFCost()
```

Returns:

the nodes fCost

getGCost

```
public double getGCost()
```

Returns:

the nodes gCost

getHCost

```
public double getHCost()
```

Returns:

the nodes hCost

setX

```
public void setX(int x)
```

Sets the x coordinate of the node

Parameters:

x - the value to set

setY

```
public void setY(int y)
```

Sets the y coordinate of the node

Parameters:

y - the value to set

setParent

```
public void setParent(Node parent)
```

Sets the parent of the node

Parameters:

parent - the node to set

setFCost

```
public void setFCost(double cost)
```

Sets the fCost of the node

Parameters:

cost - the value to set

setGCost

```
public void setGCost(double cost)
```

Sets the gCost of the node

Parameters:

cost - the value to set

setHCost

```
public void setHCost(double cost)
```

Sets the hCost of the node

Parameters:

cost - the value to set

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