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Chapter 1

Namespace Index

| 1.1 | Packages |
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| Here are the packages with brief descriptions (if available): | |
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| SimpleJSON | 9 |

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

| SimpleJSON.JSONNode.Enumerator | 14 |
|--|----|
| IEnumerable < KeyValuePair < string, JSONNode >> | |
| SimpleJSON.JSONNode.LinqEnumerator | 27 |
| IEnumerator< KeyValuePair< string, JSONNode >> | |
| SimpleJSON.JSONNode.LinqEnumerator | 27 |
| SimpleJSON.JSONNode | 22 |
| SimpleJSON.JSONArray | 20 |
| SimpleJSON.JSONBool | 21 |
| SimpleJSON.JSONNull | 23 |
| SimpleJSON.JSONNumber | 24 |
| SimpleJSON.JSONObject | 25 |
| SimpleJSON.JSONString | 25 |
| SimpleJSON.JSONNode.KeyEnumerator | 26 |
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| CommandCenter | 11 |
| ControlCamera | 11 |
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| MainMenuLightingManager | 29 |
| MetaData | |
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| OutgoingCounter | |
| RadioTowerLight | |
| StartMenuManager | 33 |
| NetworkBehaviour | |
| IntersectionParent | |
| FourWayIntersection | 14 |
| HighwayIntersection | 16 |
| ThreeWayIntersection | 34 |
| LightingManager | 26 |
| Path | 32 |
| spawning | 33 |
| | |

4 Hierarchical Index

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| NetworkManager |
| CustomNetworkManager |
| NetworkManagerHUD |
| CustomNetworkManagerHUD |
| ScriptableObject |
| LightingPreset |
| SyncList |
| SyncListCustom |
| TrafficIntersection |
| SimpleJSON.JSONNode.ValueEnumerator |

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

| CommandCenter |
|---------------------------------------|
| ControlCamera |
| CurvePlot |
| CustomNetworkManager |
| CustomNetworkManagerHUD |
| DataPanelManager |
| SimpleJSON.JSONNode.Enumerator |
| FourWayIntersection |
| HighwayIntersection |
| IncomingCounter |
| IntersectionParent |
| IntersectionSelection |
| SimpleJSON.JSONArray |
| SimpleJSON.JSONBool |
| SimpleJSON.JSONNode |
| SimpleJSON.JSONNull |
| SimpleJSON.JSONNumber 24 |
| SimpleJSON.JSONObject |
| SimpleJSON.JSONString |
| SimpleJSON.JSONNode.KeyEnumerator |
| LightingManager |
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| spawning |
| StartMenuManager |
| SyncListCustom |
| ThreeWayIntersection |
| TrafficIntersection |
| TrafficLightManager |
| SimpleJSON,JSONNode,ValueEnumerator 3 |

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Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
|----------------------|--------------------|--|----|
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ CommandCenter.cs | 39 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ ControlCamera.cs | 39 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ CustomNetworkManager.cs | 39 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ CustomNetworkManagerHUD.cs | 40 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ FourWayIntersection.cs | 40 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ IncomingCounter.cs | 40 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ IntersectionParent.cs | 40 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
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| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ LightingPreset.cs | 41 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ OutgoingCounter.cs | 41 |
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| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ spawning.cs | 41 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ ThreeWayIntersection.cs | 42 |
| E:/Homework/Computer | Science/COS | 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity | |
| Simulation/Pathir | ng2.0/Assets/Scrip | ts/ TrafficLightManager.cs | 42 |

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Chapter 5

Namespace Documentation

5.1 SimpleJSON Namespace Reference

Classes

- · class JSON
- class JSONArray
- · class JSONBool
- class JSONLazyCreator
- class JSONNode
- class JSONNull
- class JSONNumber
- class JSONObject
- class JSONString

Enumerations

```
    enum JSONNodeType {
    Array = 1, Object = 2, String = 3, Number = 4,
    NullValue = 5, Boolean = 6, None = 7, Custom = 0xFF }
```

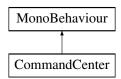
enum JSONTextMode { Compact, Indent }

Chapter 6

Class Documentation

6.1 CommandCenter Class Reference

Inheritance diagram for CommandCenter:



Public Attributes

- · JSONNode apiRequestInfo
- string response
- string **json**

6.1.1 Detailed Description

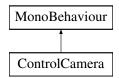
This class contains logic for the command center it handles the communication between the similation and the AI on the server

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ CommandCenter.cs

6.2 ControlCamera Class Reference

Inheritance diagram for ControlCamera:



Public Member Functions

- · void Transition ()
- void **DeTransition** ()

Public Attributes

- Transform startCameraPosition
- Transform endCameraPosition
- GameObject leaveSimulationCanvas
- · StartMenuManager startMenuManager

6.2.1 Detailed Description

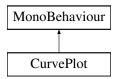
This class contains the logic for controlling the camera

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ ControlCamera.cs

6.3 CurvePlot Class Reference

Inheritance diagram for CurvePlot:

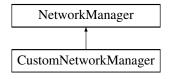


The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/CurvePlot.cs

6.4 CustomNetworkManager Class Reference

Inheritance diagram for CustomNetworkManager:



Public Member Functions

- override void OnServerAddPlayer (NetworkConnection conn)
 - Called when a new connection is made to the simulation.
- override void OnServerDisconnect (NetworkConnection conn)

Called when a conenction is terminated from simulation.

6.4.1 Detailed Description

This class contains the custom network manager we implemented, it inherits from the base network manager and adds extra functionality

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/ CustomNetworkManager.cs

6.5 CustomNetworkManagerHUD Class Reference

Inheritance diagram for CustomNetworkManagerHUD:



6.5.1 Detailed Description

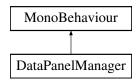
This class contains the custom network manager HUD we implemented, it inherits from the base network manager hud and adds extra functionality

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ CustomNetworkManagerHUD.cs

6.6 DataPanelManager Class Reference

Inheritance diagram for DataPanelManager:



Public Attributes

· GameObject[] dataPanels

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/DataPanelManager.cs

6.7 SimpleJSON.JSONNode.Enumerator Struct Reference

Public Member Functions

- Enumerator (List< JSONNode >. Enumerator aArrayEnum)
- Enumerator (Dictionary< string, JSONNode >. Enumerator aDictEnum)
- · bool MoveNext ()

Properties

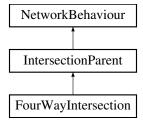
- bool IsValid [get]
- KeyValuePair< string, JSONNode > Current [get]

The documentation for this struct was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.8 FourWayIntersection Class Reference

Inheritance diagram for FourWayIntersection:



Public Member Functions

- override TrafficIntersection getIntersection ()
- void changeLights ()
- override void makeChange ()
- override void resetGeneration ()

Public Attributes

- GameObject inX1
- GameObject inX2
- · GameObject inZ1
- GameObject inZ2
- · GameObject tIX1
- GameObject tIX2
- · GameObject tIZ1
- GameObject tlZ2
- · GameObject prefabTLX1
- GameObject prefabTLX2
- GameObject prefabTLZ1
- GameObject prefabTLZ2
- bool light_configruation = false

6.8.1 Detailed Description

This class contains the logic for the four way intersection

6.8.2 Member Function Documentation

6.8.2.1 changeLights()

```
void FourWayIntersection.changeLights ( )
```

changeLights() (p. 15) - Changes light tags and updates light configuration flags

6.8.2.2 getIntersection()

```
override \quad \textbf{TrafficIntersection} \ \ Four \texttt{WayIntersection.getIntersection} \ \ ( \ ) \quad \  [virtual]
```

getIntersection() (p. 15) - Returns traffic light object with updates data

Reimplemented from IntersectionParent (p. 19).

6.8.2.3 makeChange()

```
override void FourWayIntersection.makeChange ( ) [virtual]
```

makeChange() (p. 15) - Sets changing flag

Reimplemented from IntersectionParent (p. 19).

6.8.2.4 resetGeneration()

```
override void FourWayIntersection.resetGeneration ( ) [virtual]
```

resetGeneration() (p. 15) - Resets moving Cars

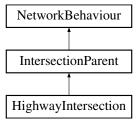
Reimplemented from IntersectionParent (p. 19).

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ FourWayIntersection.cs

6.9 HighwayIntersection Class Reference

Inheritance diagram for HighwayIntersection:



Public Member Functions

- override TrafficIntersection getIntersection ()
- void changeLights ()
- override void makeChange ()
- override void resetGeneration ()

Public Attributes

- GameObject inX1
- GameObject inX2
- · GameObject inZ1
- GameObject inZ2
- GameObject tIX1
- GameObject tlX2
- GameObject tIZ1
- GameObject tlZ2
- · GameObject prefabTLX1
- GameObject prefabTLX2
- GameObject prefabTLZ1
- · GameObject prefabTLZ2
- bool light_configruation = false

6.9.1 Detailed Description

This class contains the logic for the high way intersection

6.9.2 Member Function Documentation

6.9.2.1 changeLights()

```
void HighwayIntersection.changeLights ( )
```

changeLights() (p. 17) - Changes light tags and updates light configuration flags

6.9.2.2 getIntersection()

```
override TrafficIntersection HighwayIntersection.getIntersection () [virtual]
```

getIntersection() (p. 17) - Returns traffic light object with updates data

Returns

Returns an intersection object with the stationary and moving car values

Reimplemented from IntersectionParent (p. 19).

6.9.2.3 makeChange()

```
override void HighwayIntersection.makeChange ( ) [virtual]
```

makeChange() (p. 17) - Sets changing flag

Reimplemented from IntersectionParent (p. 19).

6.9.2.4 resetGeneration()

```
override void HighwayIntersection.resetGeneration ( ) [virtual]
```

resetGeneration() (p. 17) - Resets moving Cars

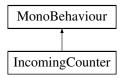
Reimplemented from IntersectionParent (p. 19).

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/HighwayIntersection.cs

6.10 IncomingCounter Class Reference

Inheritance diagram for IncomingCounter:



Public Member Functions

· void reset ()

Resets number of moving cars.

• void resetGeneration ()

Resets number of moving and stationary cars.

- int getNumberCars ()
- int getMovingCars ()

6.10.1 Detailed Description

This class contains the counting logic for counting cars entering an intersection

6.10.2 Member Function Documentation

6.10.2.1 getMovingCars()

```
int IncomingCounter.getMovingCars ( )
```

Returns

Returns the number of moving cars

6.10.2.2 getNumberCars()

```
int IncomingCounter.getNumberCars ( )
```

Returns

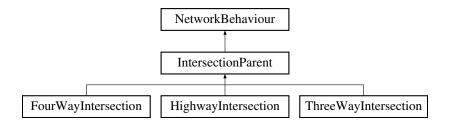
Returns the number of stationary cars

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ IncomingCounter.cs

6.11 IntersectionParent Class Reference

Inheritance diagram for IntersectionParent:



Public Member Functions

- virtual TrafficIntersection getIntersection ()
- virtual void updateTimeOut (float newTimeOut)

Supposed to be implemented in inheriting classes to reset timer to the 16 seconds.

· virtual void makeChange ()

Supposed to be implemented in inheriting classes to be called when new data from the server is received.

• virtual void resetGeneration ()

Supposed to be implemented in inheriting classes to reset the appropriate counters when incrementing generations.

6.11.1 Detailed Description

This class is the base class all intersections inherit from

6.11.2 Member Function Documentation

6.11.2.1 getIntersection()

 ${\tt virtual} \quad {\tt TrafficIntersection} \ \, {\tt IntersectionParent.getIntersection} \ \, (\) \quad [{\tt virtual}]$

Returns

Returns null unless implemented to return an intersection object as is intended

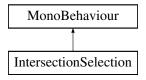
Reimplemented in **ThreeWayIntersection** (p. 35), **HighwayIntersection** (p. 17), and **FourWayIntersection** (p. 15).

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ IntersectionParent.cs

6.12 IntersectionSelection Class Reference

Inheritance diagram for IntersectionSelection:



Public Attributes

- TextMeshProUGUI UI_intersection
- TextMeshProUGUI UI_intersectionData
- · GameObject IntersectionDataPanel

6.12.1 Detailed Description

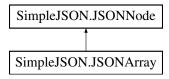
This class is to implement the feature of hovering statistics

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ IntersectionSelection.cs

6.13 SimpleJSON.JSONArray Class Reference

Inheritance diagram for SimpleJSON.JSONArray:



Public Member Functions

- override Enumerator GetEnumerator ()
- override void Add (string aKey, JSONNode altem)
- override JSONNode Remove (int alndex)
- override JSONNode Remove (JSONNode aNode)

Properties

- override bool Inline [get, set]
- override JSONNodeType **Tag** [get]
- override bool IsArray [get]
- override JSONNode this[int alndex] [get, set]
- override JSONNode this[string aKey] [get, set]
- override int Count [get]
- override lEnumerable < JSONNode > Children [get]

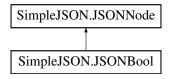
Additional Inherited Members

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.14 SimpleJSON.JSONBool Class Reference

Inheritance diagram for SimpleJSON.JSONBool:



Public Member Functions

- override Enumerator GetEnumerator ()
- **JSONBool** (bool aData)
- JSONBool (string aData)
- override bool **Equals** (object obj)
- override int GetHashCode ()

Properties

- override JSONNodeType Tag [get]
- override bool IsBoolean [get]
- override string Value [get, set]
- override bool AsBool [get, set]

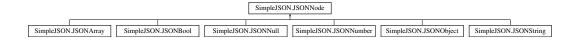
Additional Inherited Members

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.15 SimpleJSON.JSONNode Class Reference

Inheritance diagram for SimpleJSON.JSONNode:



Classes

- struct Enumerator
- struct KeyEnumerator
- class LingEnumerator
- struct ValueEnumerator

Public Member Functions

- virtual void Add (string aKey, JSONNode altem)
- · virtual void Add (JSONNode altem)
- virtual JSONNode Remove (string aKey)
- virtual JSONNode Remove (int alndex)
- virtual JSONNode Remove (JSONNode aNode)
- override string ToString ()
- virtual string ToString (int alndent)
- abstract Enumerator GetEnumerator ()
- override bool Equals (object obj)
- override int GetHashCode ()

Static Public Member Functions

- static implicit operator JSONNode (string s)
- static implicit operator string (JSONNode d)
- static implicit operator JSONNode (double n)
- static implicit operator double (JSONNode d)
- static implicit operator JSONNode (float n)
- static implicit operator float (JSONNode d)
- static implicit operator JSONNode (int n)
- static implicit operator int (JSONNode d)
- static implicit operator JSONNode (bool b)
- static implicit operator bool (JSONNode d)
- static implicit **operator JSONNode** (KeyValuePair< string, **JSONNode** > aKeyValue)
- static bool operator== (JSONNode a, object b)
- static bool operator!= (JSONNode a, object b)
- static JSONNode Parse (string aJSON)

Static Public Attributes

• static bool forceASCII = false

Properties

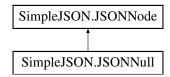
- abstract JSONNodeType Tag [get]
- virtual JSONNode this[int alndex] [get, set]
- virtual JSONNode this[string aKey] [get, set]
- virtual string Value [get, set]
- virtual int Count [get]
- virtual bool **IsNumber** [get]
- virtual bool IsString [get]
- virtual bool IsBoolean [get]
- virtual bool IsNull [get]
- virtual bool IsArray [get]
- virtual bool IsObject [get]
- virtual bool Inline [get, set]
- virtual | | IEnumerable | | JSONNode | Children [get]
- IEnumerable < JSONNode > DeepChildren [get]
- IEnumerable < KeyValuePair < string, JSONNode > > Linq [get]
- KeyEnumerator Keys [get]
- ValueEnumerator Values [get]
- virtual double AsDouble [get, set]
- virtual int AsInt [get, set]
- virtual float AsFloat [get, set]
- virtual bool? AsBool [get, set]
- virtual JSONArray AsArray [get]
- virtual JSONObject AsObject [get]

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.16 SimpleJSON.JSONNull Class Reference

Inheritance diagram for SimpleJSON.JSONNull:



Public Member Functions

- override Enumerator GetEnumerator ()
- override bool Equals (object obj)
- override int GetHashCode ()

Static Public Member Functions

• static JSONNull CreateOrGet ()

Static Public Attributes

• static bool reuseSameInstance = true

Properties

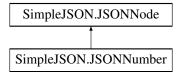
- override JSONNodeType Tag [get]
- override bool **IsNull** [get]
- override string Value [get, set]
- override bool AsBool [get, set]

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 —
 Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.17 SimpleJSON.JSONNumber Class Reference

Inheritance diagram for SimpleJSON.JSONNumber:



Public Member Functions

- override Enumerator GetEnumerator ()
- JSONNumber (double aData)
- · JSONNumber (string aData)
- override bool Equals (object obj)
- override int GetHashCode ()

Properties

- override JSONNodeType **Tag** [get]
- override bool **IsNumber** [get]
- override string Value [get, set]
- override double AsDouble [get, set]

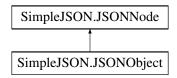
Additional Inherited Members

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.18 SimpleJSON.JSONObject Class Reference

Inheritance diagram for SimpleJSON.JSONObject:



Public Member Functions

- override Enumerator GetEnumerator ()
- override void **Add** (string aKey, **JSONNode** altem)
- override **JSONNode Remove** (string aKey)
- override JSONNode Remove (int alndex)
- override JSONNode Remove (JSONNode aNode)

Properties

- override bool Inline [get, set]
- override JSONNodeType Tag [get]
- override bool IsObject [get]
- override JSONNode this[string aKey] [get, set]
- override JSONNode this[int alndex] [get, set]
- override int Count [get]
- override | Enumerable < JSONNode > Children [get]

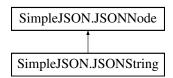
Additional Inherited Members

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.19 SimpleJSON.JSONString Class Reference

Inheritance diagram for SimpleJSON.JSONString:



Public Member Functions

- override Enumerator GetEnumerator ()
- JSONString (string aData)
- override bool **Equals** (object obj)
- override int GetHashCode ()

Properties

- override JSONNodeType Tag [get]
- override bool **IsString** [get]
- override string Value [get, set]

Additional Inherited Members

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.20 SimpleJSON.JSONNode.KeyEnumerator Struct Reference

Public Member Functions

- KeyEnumerator (List< JSONNode >. Enumerator aArrayEnum)
- KeyEnumerator (Dictionary< string, JSONNode >. Enumerator aDictEnum)
- · KeyEnumerator (Enumerator aEnumerator)
- bool MoveNext ()
- KeyEnumerator GetEnumerator ()

Properties

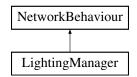
• JSONNode Current [get]

The documentation for this struct was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.21 LightingManager Class Reference

Inheritance diagram for LightingManager:



Public Attributes

- · Light DirectionalLight
- · LightingPreset Preset
- · float timeOfDay
- · GameObject carSpawner

6.21.1 Detailed Description

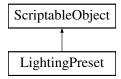
This class is to implement day-night cycle

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ LightingManager.cs

6.22 LightingPreset Class Reference

Inheritance diagram for LightingPreset:



Public Attributes

- · Gradient AmbientColor
- · Gradient DirectionalColor
- Gradient FogColor

6.22.1 Detailed Description

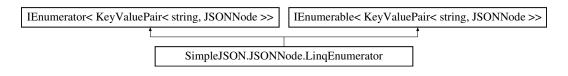
This class is implemented to hold values concerning the day-night cycle

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ LightingPreset.cs

6.23 SimpleJSON.JSONNode.LinqEnumerator Class Reference

Inheritance diagram for SimpleJSON.JSONNode.LinqEnumerator:



Public Member Functions

- bool MoveNext ()
- void Dispose ()
- IEnumerator < KeyValuePair < string, JSONNode >> GetEnumerator ()
- · void Reset ()

Properties

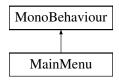
KeyValuePair< string, JSONNode > Current [get]

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/SimpleJSON.cs

6.24 MainMenu Class Reference

Inheritance diagram for MainMenu:



Public Member Functions

· void Reset ()

Resets the main menu camera to the original position.

· void JoinAl ()

Logic for connecting to the AI simulation.

· void JoinNoAl ()

Logic for connecting to the No-AI simulation.

· void QuitSimulation ()

Closes the application when the quit button is pressed.

• void LeaveSimulation ()

Logic for when the user returns to the main menu from the simulation.

• void TransitionCamera ()

Transitions the camera to the end point for the simulation.

• void **DeTransitionCamera** ()

Transitions the camera back to the starting position to show main menu.

Public Attributes

- GameObject simulationCanvas
- GameObject networkManagerObject
- · GameObject mainMenuUI
- · GameObject mainCamera
- GameObject connectingText
- Transform startCameraPosition
- Transform endCameraPosition
- · GameObject mainMenuLightingManagerObject
- · GameObject ailndicator
- GameObject noAiIndicator

6.24.1 Detailed Description

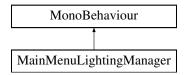
This class contains the logic for the main menu

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 —
 Pathing2.0/Assets/Scripts/MainMenu.cs

6.25 MainMenuLightingManager Class Reference

Inheritance diagram for MainMenuLightingManager:



Public Attributes

- Light DirectionalLight
- LightingPreset Preset
- · float timeOfDay

6.25.1 Detailed Description

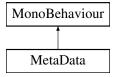
This class handles the lighting for the main menu background

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/MainMenuLightingManager.cs

6.26 MetaData Class Reference

Inheritance diagram for MetaData:



Public Attributes

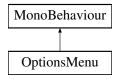
- TextMeshProUGUI UI_intersection
- · int stopped
- · GameObject time
- GameObject spawner

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/MetaData.cs

6.27 OptionsMenu Class Reference

Inheritance diagram for OptionsMenu:



Public Member Functions

• void **SetResolution** (int resolutionIndex)

Setter for setting the resolution.

· void SetQuality (int qualityIndex)

Setter for setting the quality of the application.

• void SetFullScreen (bool isFullscreen)

Setter for setting fullscreen or not.

Public Attributes

• Dropdown resolutionDropdown

6.27.1 Detailed Description

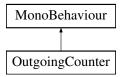
This Options class handles all the logic for the options menu

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/OptionsMenu.cs

6.28 OutgoingCounter Class Reference

Inheritance diagram for OutgoingCounter:



Public Member Functions

- void reset ()

 Resets moving cars to 0.
- int getNumberCars ()

6.28.1 Detailed Description

This class holds the logic for the outgoing counter

6.28.2 Member Function Documentation

6.28.2.1 getNumberCars()

```
int OutgoingCounter.getNumberCars ( )
```

Returns

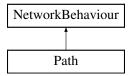
Returns number of moving cars

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ OutgoingCounter.cs

6.29 Path Class Reference

Inheritance diagram for Path:



Public Attributes

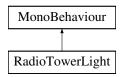
· float speed

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/Path.cs

6.30 RadioTowerLight Class Reference

Inheritance diagram for RadioTowerLight:



Public Member Functions

· void lightStart ()

Called first and starts the flashing process.

• void lightMiddle ()

Called second and this triggers a timer that waits 2 seconds before starting the intensity detransition.

• void lightEnd ()

Called third and detransitions the flashing process back to the beginning.

void lightEndTimer ()

Called last and this triggers a timer that waits 2 seconds before starting the intensity again.

Public Attributes

Light myLight

6.30.1 Detailed Description

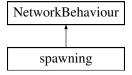
This class handles the light atop the radio tower

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/RadioTowerLight.cs

6.31 spawning Class Reference

Inheritance diagram for spawning:



Public Attributes

· float speed

6.31.1 Detailed Description

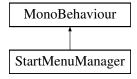
This class holds the logic for spawning cars

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ spawning.cs

6.32 StartMenuManager Class Reference

Inheritance diagram for StartMenuManager:



Public Member Functions

void LeaveSimulation ()

This method handles leaving the simulation and starts the main menu back up.

Public Attributes

- · GameObject startMenuObject
- · GameObject simulationCanvasObject

6.32.1 Detailed Description

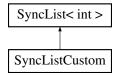
This class manages the start menu

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/StartMenuManager.cs

6.33 SyncListCustom Class Reference

Inheritance diagram for SyncListCustom:

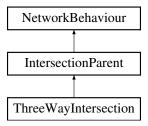


The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/Path.cs

6.34 ThreeWayIntersection Class Reference

Inheritance diagram for ThreeWayIntersection:



Public Member Functions

- override TrafficIntersection getIntersection ()
- void changeLights ()
- override void updateTimeOut (float newTimeOut)

Resets time to the 16 seconds.

- override void makeChange ()
- override void resetGeneration ()

Public Attributes

- GameObject inX
- · GameObject inZ1
- GameObject inZ2
- GameObject tIX1
- · GameObject tIZ1
- GameObject tlZ2
- · GameObject prefabTLX1
- GameObject prefabTLZ1
- GameObject prefabTLZ2
- bool light_configruation = false

6.34.1 Detailed Description

This class holds the logic the Three way intersection

6.34.2 Member Function Documentation

6.34.2.1 changeLights()

```
void ThreeWayIntersection.changeLights ( )
```

changeLights() (p. 35) - Changes light tags and updates light configuration flags

6.34.2.2 getIntersection()

```
override TrafficIntersection ThreeWayIntersection.getIntersection () [virtual]
```

getIntersection() (p. 35) - Returns traffic light object with updates data

Returns

Returns an intersection object with the stationary and moving car values

Reimplemented from IntersectionParent (p. 19).

6.34.2.3 makeChange()

```
override void ThreeWayIntersection.makeChange ( ) [virtual]
```

makeChange() (p. 35) - Sets changing flag

Reimplemented from IntersectionParent (p. 19).

6.34.2.4 resetGeneration()

```
override void ThreeWayIntersection.resetGeneration ( ) [virtual]
```

resetGeneration() (p. 35) - Resets moving Cars

Reimplemented from IntersectionParent (p. 19).

The documentation for this class was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/ ThreeWayIntersection.cs

6.35 TrafficIntersection Class Reference

Public Member Functions

• string toJson (int id)

Public Attributes

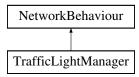
- · float stationaryX
- string name
- · Int32 phase

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/ CommandCenter.cs

6.36 TrafficLightManager Class Reference

 $Inheritance\ diagram\ for\ Traffic Light Manager:$



Public Member Functions

• void **changeLight** (string colour)

Public Attributes

- · string currentColour
- · GameObject greenLight
- · GameObject orangeLight
- GameObject redLight

6.36.1 Detailed Description

This class holds the logic for the traffic light colour changer

6.36.2 Member Function Documentation

6.36.2.1 changeLight()

<Setter that sets colour of light to the one passed in>

Parameters

| Light | colour is passed in |
|-------|---------------------|

The documentation for this class was generated from the following file:

E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/
 — Pathing2.0/Assets/Scripts/ TrafficLightManager.cs

6.37 SimpleJSON.JSONNode.ValueEnumerator Struct Reference

Public Member Functions

- ValueEnumerator (List< JSONNode >. Enumerator aArrayEnum)
- ValueEnumerator (Dictionary< string, JSONNode >. Enumerator aDictEnum)
- ValueEnumerator (Enumerator aEnumerator)
- bool MoveNext ()
- ValueEnumerator GetEnumerator ()

Properties

JSONNode Current [get]

The documentation for this struct was generated from the following file:

• E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/← Pathing2.0/Assets/Scripts/SimpleJSON.cs

Chapter 7

File Documentation

7.1 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/CommandCenter.cs File
Reference

Classes

- class CommandCenter
- · class TrafficIntersection
- 7.2 E:/Homework/Computer Science/COS
 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
 Simulation/Pathing2.0/Assets/Scripts/ControlCamera.cs File
 Reference

Classes

- · class ControlCamera
- 7.3 E:/Homework/Computer Science/COS
 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
 Simulation/Pathing2.0/Assets/Scripts/CustomNetworkManager.cs
 File Reference

Classes

class CustomNetworkManager

40 File Documentation

7.4 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/CustomNetworkManagerH
UD.cs File
Reference

Classes

class CustomNetworkManagerHUD

7.5 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/FourWayIntersection.cs File
Reference

Classes

- · class FourWayIntersection
- 7.6 E:/Homework/Computer Science/COS
 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
 Simulation/Pathing2.0/Assets/Scripts/IncomingCounter.cs File
 Reference

Classes

- · class IncomingCounter
- 7.7 E:/Homework/Computer Science/COS
 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
 Simulation/Pathing2.0/Assets/Scripts/IntersectionParent.cs File
 Reference

Classes

· class IntersectionParent

7.8 E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/Pathing2.0/Assets/Scripts/IntersectionSelection.cs File Reference

Classes

· class IntersectionSelection

7.9 E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/Pathing2.0/Assets/Scripts/LightingManager.cs File Reference

Classes

· class LightingManager

7.10 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/LightingPreset.cs File
Reference

Classes

class LightingPreset

7.11 E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/Pathing2.0/Assets/Scripts/OutgoingCounter.cs File Reference

Classes

· class OutgoingCounter

7.12 E:/Homework/Computer Science/COS 301/Traffic-Light-Optimisation-with-Machine-Learning/Unity Simulation/Pathing2.0/Assets/Scripts/spawning.cs File Reference

Classes

class spawning

42 File Documentation

7.13 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/ThreeWayIntersection.cs File
Reference

Classes

• class ThreeWayIntersection

7.14 E:/Homework/Computer Science/COS
301/Traffic-Light-Optimisation-with-Machine-Learning/Unity
Simulation/Pathing2.0/Assets/Scripts/TrafficLightManager.cs File
Reference

Classes

· class TrafficLightManager

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| HighwayIntersection, 17 | E:/Homework/Computer Science/COS 301/Traffic-Light- |
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