

Midnight Blue

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1 Namespace Index

1.1 Namespace List

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

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MidnightBlue.Testing	8

2 Hierarchical Index

2.1 Class Hierarchy

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

Collectable	
MidnightBlue.Fuel	10
Command	
MidnightBlue.EnterStarSystem	8
MidnightBlue.LandCommand	26
MidnightBlue.LaunchCommand	28
MidnightBlue.LeaveStarSystem	30
MidnightBlue.MenuCommand	36
MidnightBlue.MoveShip	41
EntitySystem	
MidnightBlue.GalaxyRenderSystem	16
MidnightBlue.ShipInputSystem	66
MidnightBlue.GalaxyBuilder	12
MidnightBlue.Testing.GenTest	22
IComponent	
MidnightBlue.PlanetComponent	51
MidnightBlue.PlanetMetadata	53
MidnightBlue.ShipController	64
MidnightBlue.StarSystem	68
MidnightBlue.Length	32
MidnightBlue.NoiseMap	44
MidnightBlue.Planet	47
Scene	

MidnightBlue.GalaxyScene	18
MidnightBlue.InitScene	23
MidnightBlue.MenuScene	38
MidnightBlue.PlanetScene	57
MidnightBlue.StarSystemScene	73
MidnightBlue.Testing.MapTest	35
MidnightBlue.TitleScene	77
Tile	
MidnightBlue.PlanetTile	60
UIView	
MidnightBlue.GalaxyHud	14
MidnightBlue.MenuView	40
MidnightBlue.StarSystemHud	71
MidnightBlue.TitleView	81

3 Class Index

3.1 Class List

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

MidnightBlue.EnterStarSystem	
Enters a star system scene from the galaxy view	8
MidnightBlue.Fuel	
Fuel used in the ships normal thruster drive	10
MidnightBlue.GalaxyBuilder	12
MidnightBlue.GalaxyHud	
HUD to show in the galaxy view.	14
MidnightBlue.GalaxyRenderSystem	
Renders all information into the main HUD's list box on the hovered star system. Also displays the name of all the star systems planets.	16
MidnightBlue.GalaxyScene	
The scene displayed at the galaxy view - handles the control over all systems, loading, and content management for the scene.	18
MidnightBlue.Testing.GenTest	22
MidnightBlue.InitScene	
The scene shown at the title screen.	23
MidnightBlue.LandCommand	
Lands the ship	26

MidnightBlue.LaunchCommand	
Launches the ship from a landed state	28
MidnightBlue.LeaveStarSystem	30
MidnightBlue.Length	
Defines a measurement of length in meters able to be converted to other measurements.	32
MidnightBlue.Testing.MapTest	35
MidnightBlue.MenuCommand	36
MidnightBlue.MenuScene	38
MidnightBlue.MenuView	40
MidnightBlue.MoveShip	
Performs logic aside from movement required to execute when moving the ship such as consuming fuel.	41
MidnightBlue.NoiseMap	
Generates a fractal 2D map using Simplex Noise	44
MidnightBlue.Planet	
A fully-generated planet in a star system with associated texture maps.	47
MidnightBlue.PlanetComponent	
Represents a planet entity with pre-generated metadata	51
MidnightBlue.PlanetMetadata	
Planet metadata used as information and arguments for generating the actual biome map of a planet. Required for an entity to be treated as a planet.	53
MidnightBlue.PlanetScene	
Scene active when the player is exploring a given planet.	57
MidnightBlue.PlanetTile	
A tile type used in planet tilemaps	60
MidnightBlue.ShipController	
Controls a ships movement and actions	64
MidnightBlue.ShipInputSystem	
Handles moving the ship forward and backwards.	66
MidnightBlue.StarSystem	
Represents an star system entity to be used in the galaxy view	68
MidnightBlue.StarSystemHud	
Star system hud with minimap.	71
MidnightBlue.StarSystemScene	
Scene to display a star system with planets and a star.	73
MidnightBlue.TitleScene	
The scene shown at the title screen.	77
MidnightBlue.TitleView	
The title screens UI view	81

4 Namespace Documentation

4.1 MidnightBlue Namespace Reference

Namespaces

Classes

- class **EcosystemTool**
Takes numeric inputs and produces temperature, height, and moisture categories. Also produces biomes based on the three outputs.
- class [EnterStarSystem](#)
Enters a star system scene from the galaxy view
- class [Fuel](#)
[Fuel](#) used in the ships normal thruster drive
- class [GalaxyBuilder](#)
- class [GalaxyHud](#)
HUD to show in the galaxy view.
- class [GalaxyRenderSystem](#)
Renders all information into the main HUD's list box on the hovered star system. Also displays the name of all the star systems planets.
- class [GalaxyScene](#)
The scene displayed at the galaxy view - handles the control over all systems, loading, and content management for the scene.
- class [InitScene](#)
The scene shown at the title screen.
- class [LandCommand](#)
Lands the ship
- class [LaunchCommand](#)
Launches the ship from a landed state
- class [LeaveStarSystem](#)
- class [Length](#)
Defines a measurement of length in meters able to be converted to other measurements.
- class [MenuCommand](#)
- class [MenuScene](#)
- class [MenuView](#)
- class [MoveShip](#)
Performs logic aside from movement required to execute when moving the ship such as consuming fuel.
- class [NoiseMap](#)
Generates a fractal 2D map using Simplex Noise
- class [Planet](#)
A fully-generated planet in a star system with associated texture maps.
- class [PlanetComponent](#)
Represents a planet entity with pre-generated metadata
- class [PlanetMetadata](#)
[Planet](#) metadata used as information and arguments for generating the actual biome map of a planet. Required for an entity to be treated as a planet.
- class [PlanetScene](#)
Scene active when the player is exploring a given planet.
- class [PlanetTile](#)
A tile type used in planet tilemaps

- class [ShipController](#)
Controls a ships movement and actions
- class [ShipInputSystem](#)
Handles moving the ship forward and backwards.
- class [StarSystem](#)
Represents an star system entity to be used in the galaxy view
- class [StarSystemHud](#)
Star system hud with minimap.
- class [StarSystemScene](#)
Scene to display a star system with planets and a star.
- class [TitleScene](#)
The scene shown at the title screen.
- class [TitleView](#)
The title screens UI view
- class **UIColors**
The main color scheme for the UI

Enumerations

- enum [ShipState](#) {
Normal, Landing, Launching, LeavingScreen, Warping }
Represents the current travelling state of the ship
- enum [Biome](#) {
[Biome.Tundra](#), [Biome.Taiga](#), [Biome.Woodland](#), [Biome.Shrubland](#),
[Biome.TemperateGrassland](#), [Biome.Desert](#), [Biome.SubtropicalDesert](#), [Biome.Savana](#),
[Biome.TropicalSeasonalForest](#), [Biome.TemperateSeasonalForest](#), [Biome.TemperateRainforest](#), [Biome.TropicalRainforest](#),
[Biome.Barren](#), [Biome.ShallowOcean](#), [Biome.Ocean](#), [Biome.Ice](#) }
Represents a biome type in a planets tile map.
- enum [HeightLevel](#) {
[HeightLevel.Depths](#) = 0, [HeightLevel.SeaLevel](#), [HeightLevel.Lowland](#), [HeightLevel.Mountainous](#),
[HeightLevel.Alpine](#), [HeightLevel.Snow](#) }
Represents height categories for biomes.
- enum [MoistureLevel](#) {
Arid = 0, **Dry**, **SemiDry**, **SemiMoist**,
Moist, **Wet** }
Represents moisture categories for biomes used in generation.
- enum [TemperatureLevel](#) {
[TemperatureLevel.Freezing](#) = 0, [TemperatureLevel.Polar](#), [TemperatureLevel.Tundra](#), [TemperatureLevel.Taiga](#),
[TemperatureLevel.Temperate](#), [TemperatureLevel.SubTropical](#), [TemperatureLevel.Tropical](#), [TemperatureLevel.Hot](#),
[TemperatureLevel.Harsh](#), [TemperatureLevel.SuperHot](#), [TemperatureLevel.Scorching](#) }
Represents categories of temperature used in generating biomes and player interactions.
- enum [PlanetType](#) { **Water**, **Terrestrial**, **Gas** }
Planet type used for information.

4.1.1 Enumeration Type Documentation

4.1.1.1 Biome

```
enum MidnightBlue.Biome [strong]
```

Represents a biome type in a planets tile map.

Enumerator

Tundra	Super cold environment.
Taiga	Most common cold environment.
Woodland	Cold forest biome.
Shrubland	Shrubland - can be cold or hot.
TemperateGrassland	Most common temperate biome.
Desert	Desert biome.
SubtropicalDesert	Desert biome akin to southern californian deserts.
Savana	Savana biome - flatlands with grass.
TropicalSeasonalForest	Biome similar to Australian outback forests.
TemperateSeasonalForest	Biome similar to canadian redwood forests.
TemperateRainforest	Biome like southern Australian rainforests - colder environment rainforest.
TropicalRainforest	Classic rainforest biome.
Barren	Completely cracked, barren environment most present in inhospitable location.
ShallowOcean	Shallow water biome - lighter in color than deep water.
Ocean	Deep ocean biome.
Ice	Ice biome - mostly present in inhospitable cold planets.

4.1.1.2 HeightLevel

```
enum MidnightBlue.HeightLevel [strong]
```

Represents height categories for biomes.

Enumerator

Depths	Will always be ocean biome unless super cold where it will be ice.
SeaLevel	Will always be shallow ocean biome unless super cold where it will be ice.
Lowland	Will contain all forest and grassland biomes.
Mountainous	Will contain all mountaineous biomes - will be colder than other biomes, too.
Alpine	Will contain all mountaineous biomes - will be much colder than other biomes, too.
Snow	Heighest level of elevation, super cold and only mountaineous biomes.

4.1.1.3 MoistureLevel

```
enum MidnightBlue.MoistureLevel [strong]
```

Represents moisture categories for biomes used in generation.

4.1.1.4 PlanetType

```
enum MidnightBlue.PlanetType [strong]
```

[Planet](#) type used for information.

4.1.1.5 ShipState

```
enum MidnightBlue.ShipState [strong]
```

Represents the current travelling state of the ship

4.1.1.6 TemperatureLevel

enum `MidnightBlue.TemperatureLevel` [strong]

Represents categories of temperature used in generating biomes and player interactions.

Enumerator

Freezing	Super cold - only on uninhabitable planets
Polar	Coldest temperature found on inhabitable planets.
Tundra	Coldest temperature to produce varied biomes.
Taiga	Most common cold temperature across inhabitable planets.
Temperate	Most inhabitable temperature that produces the most varied biomes.
SubTropical	Temperature most commonly found for 'hot' biomes.
Tropical	Produces simultaneously very moist, green biomes, and very dry, arid biomes.
Hot	Hottest inhabitable temperature.
Harsh	Hottest temperature to produce varied biomes.
SuperHot	Will only produce barren or desert biomes - no water
Scorching	Will only produce barren biomes - no water. This is like 200+ degrees

4.2 MidnightBlue.Testing Namespace Reference

Classes

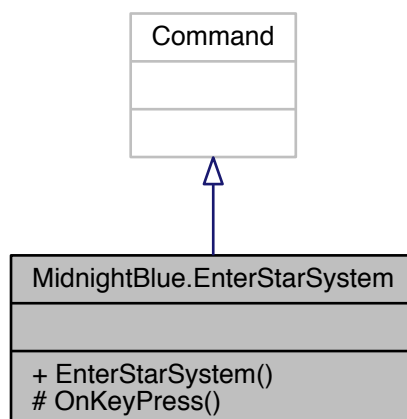
- class `GenTest`
- class `MapTest`

5 Class Documentation

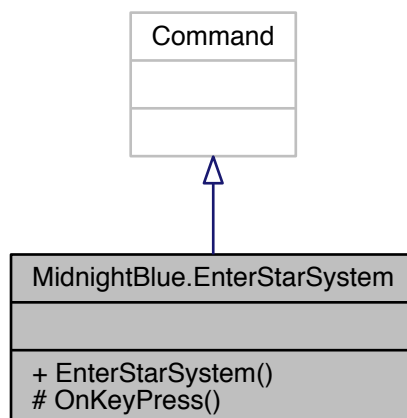
5.1 MidnightBlue.EnterStarSystem Class Reference

Enters a star system scene from the galaxy view

Inheritance diagram for MidnightBlue.EnterStarSystem:



Collaboration diagram for MidnightBlue.EnterStarSystem:



Public Member Functions

- [EnterStarSystem](#) (Keys key, CommandType type)
Initializes a new instance of the T:MidnightBlue.EnterStarSystem class.

Protected Member Functions

- override void [OnKeyPress](#) (Entity e)
Enters the collided with star system on keypress

5.1.1 Detailed Description

Enters a star system scene from the galaxy view

5.1.2 Constructor & Destructor Documentation

5.1.2.1 EnterStarSystem()

```
MidnightBlue.EnterStarSystem.EnterStarSystem (
    Keys key,
    CommandType type ) [inline]
```

Initializes a new instance of the T:MidnightBlue.EnterStarSystem class.

Parameters

<i>key</i>	Key to assign to.
<i>type</i>	Trigger type.

5.1.3 Member Function Documentation

5.1.3.1 OnKeyPress()

```
override void MidnightBlue.EnterStarSystem.OnKeyPress (
    Entity e ) [inline], [protected]
```

Enters the collided with star system on keypress

Parameters

<i>e</i>	E.
----------	----

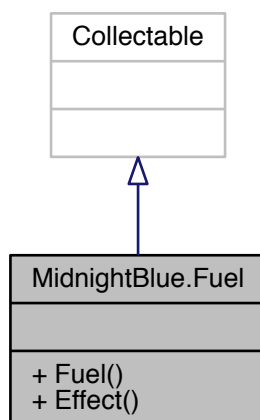
The documentation for this class was generated from the following file:

- Shared/src/Game/Commands/ShipCommands.cs

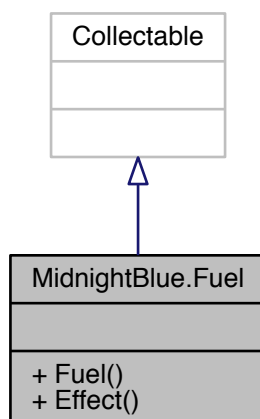
5.2 MidnightBlue.Fuel Class Reference

[Fuel](#) used in the ships normal thruster drive

Inheritance diagram for MidnightBlue.Fuel:



Collaboration diagram for MidnightBlue.Fuel:



Public Member Functions

- `Fuel` (int initialCount)
Initializes a new instance of the T:MidnightBlue.Fuel class.
- override void `Effect` (Entity entity)
Has no effect on the entity

5.2.1 Detailed Description

[Fuel](#) used in the ships normal thruster drive

5.2.2 Constructor & Destructor Documentation

5.2.2.1 Fuel()

```
MidnightBlue.Fuel.Fuel (
    int initialCount ) [inline]
```

Initializes a new instance of the T:MidnightBlue.Fuel class.

Parameters

<i>initialCount</i>	Initial amount of fuel.
---------------------	-------------------------

5.2.3 Member Function Documentation

5.2.3.1 Effect()

```
override void MidnightBlue.Fuel.Effect (
    Entity entity ) [inline]
```

Has no effect on the entity

Parameters

<i>entity</i>	Entity.
---------------	---------

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

- Shared/src/Game/Inventory/Fuel.cs

5.3 MidnightBlue.GalaxyBuilder Class Reference

Collaboration diagram for MidnightBlue.GalaxyBuilder:

MidnightBlue.GalaxyBuilder
+ Bounds + Size + Done + StarSystems
+ GalaxyBuilder() + Generate()

Public Member Functions

- [GalaxyBuilder](#) (ContentManager content, int size, int seed=0)
Initializes a new instance of the T:MidnightBlue.GalaxyBuilder class. Does not actually generate the galaxy - that's done via [Generate\(\)](#)
- List< [StarSystem](#) > [Generate](#) (int maxDistance)
Generates the galaxy with a specified max distance between stars. Takes a while so should be called only once per gameplay session.

Properties

- Rectangle [Bounds](#) [get]
Gets the bounding rectangle of the galaxy.
- int [Size](#) [get]
Gets the number of star systems the galaxy has.
- bool [Done](#) [get]
Gets a value indicating whether this T:MidnightBlue.GalaxyBuilder is done generating.
- List< [StarSystem](#) > [StarSystems](#) [get]
Gets the star system list.

5.3.1 Constructor & Destructor Documentation

5.3.1.1 GalaxyBuilder()

```
MidnightBlue.GalaxyBuilder.GalaxyBuilder (
    ContentManager content,
    int size,
    int seed = 0 ) [inline]
```

Initializes a new instance of the T:MidnightBlue.GalaxyBuilder class. Does not actually generate the galaxy - that's done via [Generate\(\)](#)

Parameters

<i>content</i>	Content manager to use for loading resources.
<i>size</i>	Number of star systems to generate.
<i>seed</i>	Seed to use for generation.

5.3.2 Member Function Documentation**5.3.2.1 Generate()**

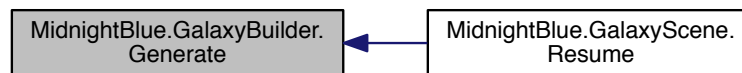
```
List<StarSystem> MidnightBlue.GalaxyBuilder.Generate (
    int maxDistance ) [inline]
```

Generates the galaxy with a specified max distance between stars. Takes a while so should be called only once per gameplay session.

Parameters

<i>maxDistance</i>	Max distance between generated star systems.
--------------------	--

Here is the caller graph for this function:

**5.3.3 Property Documentation****5.3.3.1 Bounds**

```
Rectangle MidnightBlue.GalaxyBuilder.Bounds [get]
```

Gets the bounding rectangle of the galaxy.

The bounds.

5.3.3.2 Done

```
bool MidnightBlue.GalaxyBuilder.Done [get]
```

Gets a value indicating whether this `T:MidnightBlue.GalaxyBuilder` is done generating.

`true` if done; otherwise, `false`.

5.3.3.3 Size

```
int MidnightBlue.GalaxyBuilder.Size [get]
```

Gets the number of star systems the galaxy has.

The number of star systems.

5.3.3.4 StarSystems

```
List<StarSystem> MidnightBlue.GalaxyBuilder.StarSystems [get]
```

Gets the star system list.

The star systems.

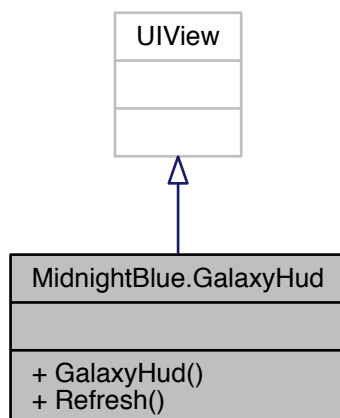
The documentation for this class was generated from the following file:

- Shared/src/Game/Environment/GalaxyBuilder.cs

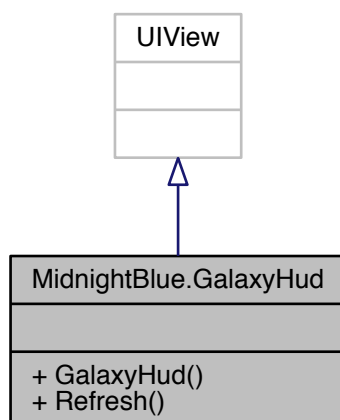
5.4 MidnightBlue.GalaxyHud Class Reference

HUD to show in the galaxy view.

Inheritance diagram for MidnightBlue.GalaxyHud:



Collaboration diagram for MidnightBlue.GalaxyHud:



Public Member Functions

- [GalaxyHud](#) (ContentManager content)
Initializes a new instance of the T:MB2D.GalaxyHud class.
- void [Refresh](#) (Inventory inventory)
Refreshed the HUD with the specified inventory values.

5.4.1 Detailed Description

HUD to show in the galaxy view.

5.4.2 Constructor & Destructor Documentation

5.4.2.1 GalaxyHud()

```
MidnightBlue.GalaxyHud.GalaxyHud (
    ContentManager content ) [inline]
```

Initializes a new instance of the T:MB2D.GalaxyHud class.

Parameters

<i>content</i>	Content to use in loading fonts and textures.
----------------	---

5.4.3 Member Function Documentation

5.4.3.1 Refresh()

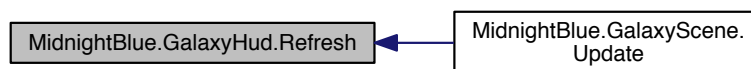
```
void MidnightBlue.GalaxyHud.Refresh (
    Inventory inventory ) [inline]
```

Refreshed the HUD with the specified inventory values.

Parameters

<i>inventory</i>	Inventory to use to refresh the display.
------------------	--

Here is the caller graph for this function:



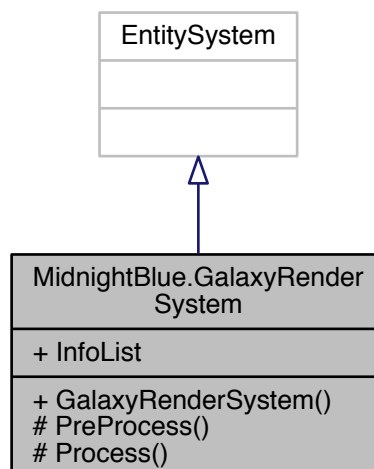
The documentation for this class was generated from the following file:

- Shared/src/Game/UIViews/GalaxyHud.cs

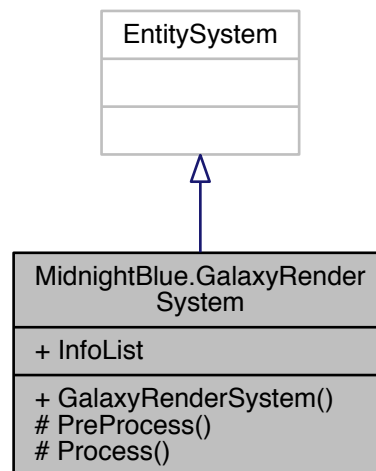
5.5 MidnightBlue.GalaxyRenderSystem Class Reference

Renders all information into the main HUD's list box on the hovered star system. Also displays the name of all the star systems planets.

Inheritance diagram for `MidnightBlue.GalaxyRenderSystem`:



Collaboration diagram for MidnightBlue.GalaxyRenderSystem:



Public Member Functions

- [GalaxyRenderSystem](#) (SpriteBatch spriteBatch, ContentManager content)
Initializes a new instance of the T:MidnightBlue.GalaxyRenderSystem class.

Protected Member Functions

- override void [PreProcess](#) ()
Clears the starsystems info list before processing all entities.
- override void [Process](#) (Entity entity)
Checks for collisions with a star system in the galaxy view and renders any information associated with that star re:planets.

Properties

- List< string > [InfoList](#) [get]
Gets the list of all planets in the star system's information.

5.5.1 Detailed Description

Renders all information into the main HUD's list box on the hovered star system. Also displays the name of all the star systems planets.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 GalaxyRenderSystem()

```
MidnightBlue.GalaxyRenderSystem.GalaxyRenderSystem (
    SpriteBatch spriteBatch,
    ContentManager content ) [inline]
```

Initializes a new instance of the T:MidnightBlue.GalaxyRenderSystem class.

Parameters

<i>spriteBatch</i>	Sprite batch to draw to.
<i>content</i>	Content to load fonts from.

5.5.3 Member Function Documentation

5.5.3.1 PreProcess()

```
override void MidnightBlue.GalaxyRenderSystem.PreProcess ( ) [inline], [protected]
```

Clears the starsystems info list before processing all entities.

5.5.3.2 Process()

```
override void MidnightBlue.GalaxyRenderSystem.Process (
    Entity entity ) [inline], [protected]
```

Checks for collisions with a star system in the galaxy view and renders any information associated with that star re:planets.

Parameters

<i>entity</i>	Entity to check collisions with.
---------------	----------------------------------

5.5.4 Property Documentation

5.5.4.1 InfoList

```
List<string> MidnightBlue.GalaxyRenderSystem.InfoList [get]
```

Gets the list of all planets in the star system's information.

The info list.

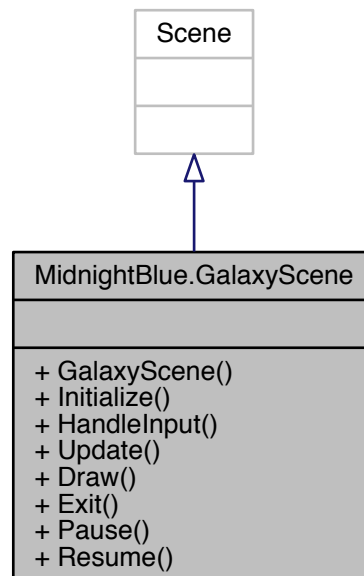
The documentation for this class was generated from the following file:

- Shared/src/Game/Systems/GalaxyRenderSystem.cs

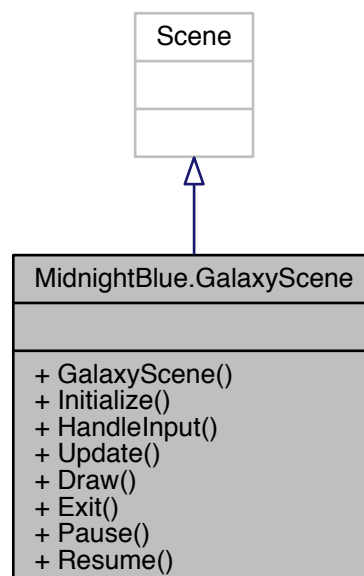
5.6 MidnightBlue.GalaxyScene Class Reference

The scene displayed at the galaxy view - handles the control over all systems, loading, and content management for the scene.

Inheritance diagram for MidnightBlue.GalaxyScene:



Collaboration diagram for MidnightBlue.GalaxyScene:



Public Member Functions

- [GalaxyScene](#) (EntityMap map, ContentManager content)
Initializes a new instance of the T:MB2D.GalaxyScene class. Loads all resources and sets up the galaxy for generation.
- override void [Initialize](#) ()
Initializes the galaxy generation and background music - sets up the players ship and the collision bounds.
- override void [HandleInput](#) ()
Handles all input for the player ship and moves between galaxy and star system scenes if the player enters a star system.
- override void [Update](#) ()
Updates the galaxy view and fuel consumption if not loading.
- override void [Draw](#) (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draw the game world and UI to the specified spriteBatch and uiSpriteBatch.
- override void [Exit](#) ()
Exit this scene instantly.
- override void [Pause](#) ()
Fades the sound out when transitioning to another scene unless the next scene is the star system scene.
- override void [Resume](#) ()
Resets the physics environment when returning to the scene and rebuilds the galaxy from its cache.

5.6.1 Detailed Description

The scene displayed at the galaxy view - handles the control over all systems, loading, and content management for the scene.

5.6.2 Constructor & Destructor Documentation

5.6.2.1 GalaxyScene()

```
MidnightBlue.GalaxyScene.GalaxyScene (
    EntityMap map,
    ContentManager content ) [inline]
```

Initializes a new instance of the T:MB2D.GalaxyScene class. Loads all resources and sets up the galaxy for generation.

Parameters

<i>map</i>	Game objects to use.
<i>content</i>	Content manager to use.

5.6.3 Member Function Documentation

5.6.3.1 Draw()

```
override void MidnightBlue.GalaxyScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draw the game world and UI to the specified spriteBatch and uiSpriteBatch.

Parameters

<i>spriteBatch</i>	Sprite batch for world-based entities.
<i>uiSpriteBatch</i>	User interface sprite batch.

5.6.3.2 Exit()

```
override void MidnightBlue.GalaxyScene.Exit ( ) [inline]
```

Exit this scene instantly.

5.6.3.3 HandleInput()

```
override void MidnightBlue.GalaxyScene.HandleInput ( ) [inline]
```

Handles all input for the player ship and moves between galaxy and star system scenes if the player enters a star system.

5.6.3.4 Initialize()

```
override void MidnightBlue.GalaxyScene.Initialize ( ) [inline]
```

Initializes the galaxy generation and background music - sets up the players ship and the collision bounds.

5.6.3.5 Pause()

```
override void MidnightBlue.GalaxyScene.Pause ( ) [inline]
```

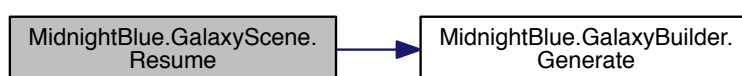
Fades the sound out when transitioning to another scene unless the next scene is the star system scene.

5.6.3.6 Resume()

```
override void MidnightBlue.GalaxyScene.Resume ( ) [inline]
```

Resets the physics environment when returning to the scene and rebuilds the galaxy from its cache.

Here is the call graph for this function:

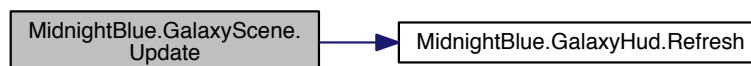


5.6.3.7 Update()

```
override void MidnightBlue.GalaxyScene.Update ( ) [inline]
```

Updates the galaxy view and fuel consumption if not loading.

Here is the call graph for this function:

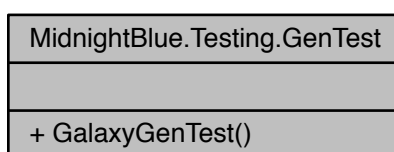


The documentation for this class was generated from the following file:

- Shared/src/Game/Scenes/GalaxyScene.cs

5.7 MidnightBlue.Testing.GenTest Class Reference

Collaboration diagram for MidnightBlue.Testing.GenTest:



Static Public Member Functions

- static void **GalaxyGenTest** (params string[] args)

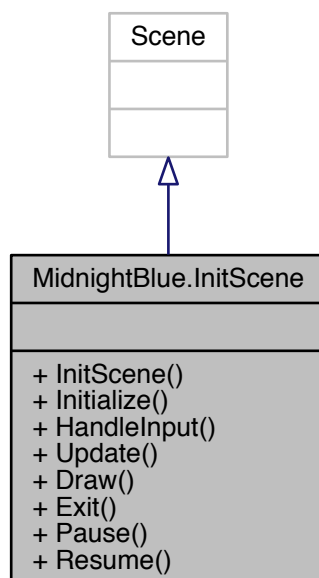
The documentation for this class was generated from the following file:

- Shared/src/Game/Tests/GenTest.cs

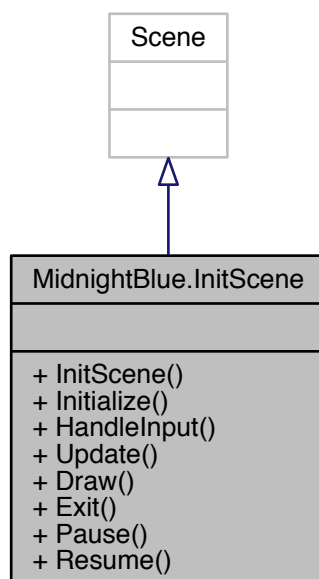
5.8 MidnightBlue.InitScene Class Reference

The scene shown at the title screen.

Inheritance diagram for MidnightBlue.InitScene:



Collaboration diagram for MidnightBlue.InitScene:



Public Member Functions

- [InitScene](#) (EntityMap map, ContentManager content)
Initializes a new instance of the T:MidnightBlue.InitScene class. Loads all blueprints and setup data.
- override void [Initialize](#) ()
Registers all blueprints to the EntityMap
- override void [HandleInput](#) ()
Handles the input for the scene.
- override void [Update](#) ()
Updates the scene.
- override void [Draw](#) (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draws the scene to the uiSpriteBatch
- override void [Exit](#) ()
Exits the scene.
- override void [Pause](#) ()
Pauses the scene.
- override void [Resume](#) ()
Resumes the scene.

5.8.1 Detailed Description

The scene shown at the title screen.

5.8.2 Constructor & Destructor Documentation

5.8.2.1 InitScene()

```
MidnightBlue.InitScene.InitScene (
    EntityMap map,
    ContentManager content ) [inline]
```

Initializes a new instance of the T:MidnightBlue.InitScene class. Loads all blueprints and setup data.

Parameters

<i>map</i>	Game objects.
<i>content</i>	Content manager for loading textures and sounds.

5.8.3 Member Function Documentation

5.8.3.1 Draw()

```
override void MidnightBlue.InitScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draws the scene to the uiSpriteBatch

Parameters

<i>spriteBatch</i>	Sprite batch for world-based entities.
<i>uiSpriteBatch</i>	User interface sprite batch.

5.8.3.2 Exit()

```
override void MidnightBlue.InitScene.Exit ( ) [inline]
```

Exits the scene.

5.8.3.3 HandleInput()

```
override void MidnightBlue.InitScene.HandleInput ( ) [inline]
```

Handles the input for the scene.

5.8.3.4 Initialize()

```
override void MidnightBlue.InitScene.Initialize ( ) [inline]
```

Registers all blueprints to the EntityMap

5.8.3.5 Pause()

```
override void MidnightBlue.InitScene.Pause ( ) [inline]
```

Pauses the scene.

5.8.3.6 Resume()

```
override void MidnightBlue.InitScene.Resume ( ) [inline]
```

Resumes the scene.

5.8.3.7 Update()

```
override void MidnightBlue.InitScene.Update ( ) [inline]
```

Updates the scene.

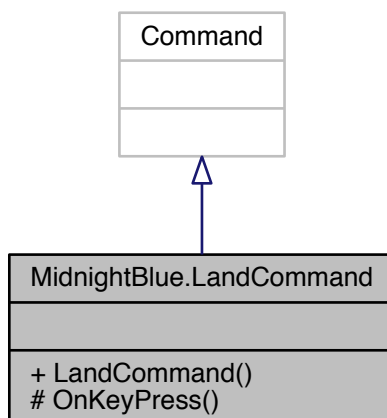
The documentation for this class was generated from the following file:

- Shared/src/Game/Scenes/InitScene.cs

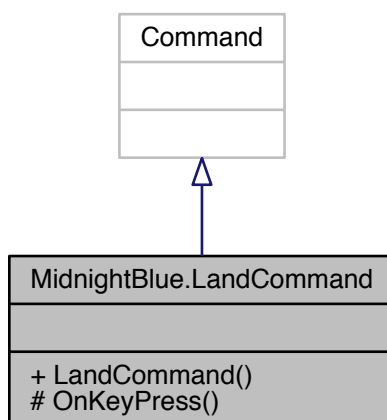
5.9 MidnightBlue.LandCommand Class Reference

Lands the ship

Inheritance diagram for MidnightBlue.LandCommand:



Collaboration diagram for MidnightBlue.LandCommand:



Public Member Functions

- [LandCommand](#) (Keys key, CommandType type)
Initializes a new instance of the T:MidnightBlue.LandCommand class.

Protected Member Functions

- override void [OnKeyPress](#) (Entity e)
Lands the ship on the key press if terrain is landable

5.9.1 Detailed Description

Lands the ship

5.9.2 Constructor & Destructor Documentation

5.9.2.1 LandCommand()

```
MidnightBlue.LandCommand.LandCommand (
    Keys key,
    CommandType type ) [inline]
```

Initializes a new instance of the T:MidnightBlue.LandCommand class.

Parameters

<i>key</i>	Key to assign to.
<i>type</i>	Trigger type.

5.9.3 Member Function Documentation

5.9.3.1 OnKeyPress()

```
override void MidnightBlue.LandCommand.OnKeyPress (
    Entity e ) [inline], [protected]
```

Lands the ship on the key press if terrain is landable

Parameters

<i>e</i>	Entity with the ship controller to operate on.
----------	--

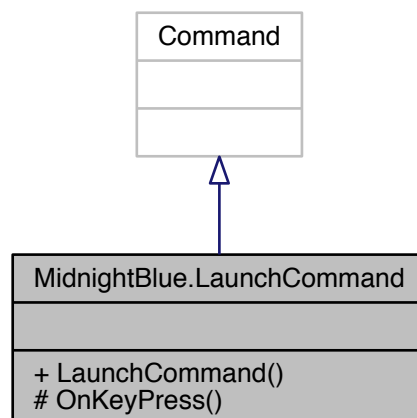
The documentation for this class was generated from the following file:

- Shared/src/Game/Commands/ShipCommands.cs

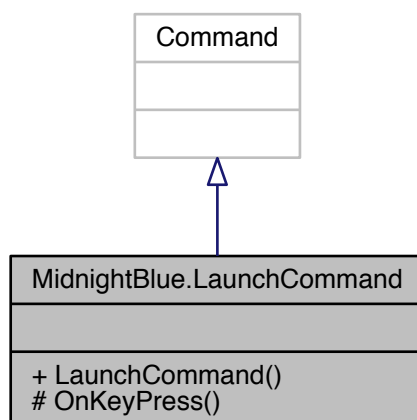
5.10 MidnightBlue.LaunchCommand Class Reference

Launches the ship from a landed state

Inheritance diagram for MidnightBlue.LaunchCommand:



Collaboration diagram for MidnightBlue.LaunchCommand:



Public Member Functions

- [LaunchCommand](#) (Keys key, CommandType type)
Initializes a new instance of the T:MidnightBlue.LaunchCommand class.

Protected Member Functions

- override void [OnKeyPress](#) (Entity e)
Launches the ship from landed on key press.

5.10.1 Detailed Description

Launches the ship from a landed state

5.10.2 Constructor & Destructor Documentation

5.10.2.1 LaunchCommand()

```
MidnightBlue.LaunchCommand.LaunchCommand (
    Keys key,
    CommandType type ) [inline]
```

Initializes a new instance of the T:MidnightBlue.LaunchCommand class.

Parameters

<i>key</i>	Key to assign to.
<i>type</i>	Trigger type.

5.10.3 Member Function Documentation

5.10.3.1 OnKeyPress()

```
override void MidnightBlue.LaunchCommand.OnKeyPress (
    Entity e ) [inline], [protected]
```

Launches the ship from landed on key press.

Parameters

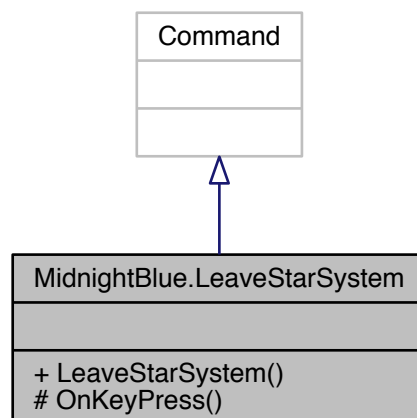
<i>e</i>	Entity with ship controller to operate on.
----------	--

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

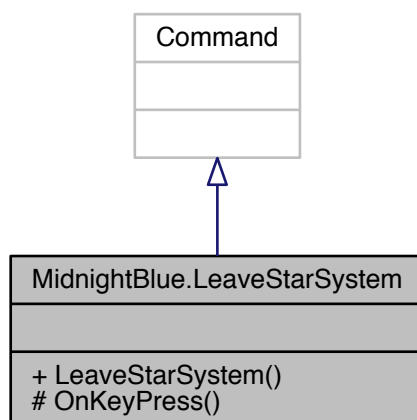
- Shared/src/Game/Commands/ShipCommands.cs

5.11 MidnightBlue.LeaveStarSystem Class Reference

Inheritance diagram for MidnightBlue.LeaveStarSystem:



Collaboration diagram for MidnightBlue.LeaveStarSystem:



Public Member Functions

- [LeaveStarSystem](#) (Keys key, CommandType type)
Initializes a new instance of the T:MidnightBlue.LeaveStarSystem class.

Protected Member Functions

- override void **OnKeyPress** (Entity e=null)

5.11.1 Constructor & Destructor Documentation

5.11.1.1 LeaveStarSystem()

```

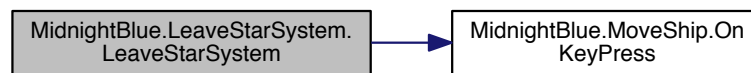
MidnightBlue.LeaveStarSystem.LeaveStarSystem (
    Keys key,
    CommandType type ) [inline]
  
```

Initializes a new instance of the T:MidnightBlue.LeaveStarSystem class.

Parameters

<i>key</i>	Key to assign to.
<i>type</i>	Trigger type.

Here is the call graph for this function:



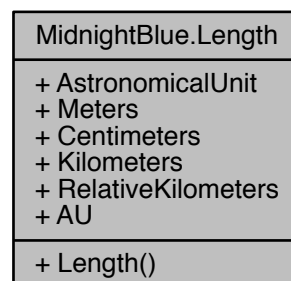
The documentation for this class was generated from the following file:

- Shared/src/Game/Commands/ShipCommands.cs

5.12 MidnightBlue.Length Class Reference

Defines a measurement of length in meters able to be converted to other measurements.

Collaboration diagram for MidnightBlue.Length:



Public Member Functions

- [Length](#) (ulong meters)
Initializes a new instance of the T:MidnightBlue.Length class.

Public Attributes

- const float [AstronomicalUnit](#) = 149597870.7f
A single Astronomical Unit in kilometers

Properties

- `ulong Meters` [get]
Gets the length in meters
- `ulong Centimeters` [get]
Gets the length in centimeters
- `ulong Kilometers` [get]
Gets the length in kilometers
- `int RelativeKilometers` [get]
Gets the length in kilometers represented as a smaller value used for calculations.
- `float AU` [get]
Gets the length in Astronomical Unites

5.12.1 Detailed Description

Defines a measurement of length in meters able to be converted to other measurements.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 Length()

```
MidnightBlue.Length.Length (
    ulong meters ) [inline]
```

Initializes a new instance of the T:MidnightBlue.Length class.

Parameters

<i>meters</i>	Initial length to set in meters.
---------------	----------------------------------

5.12.3 Member Data Documentation

5.12.3.1 AstronomicalUnit

```
const float MidnightBlue.Length.AstronomicalUnit = 149597870.7f
```

A single Astronomical Unit in kilometers

5.12.4 Property Documentation

5.12.4.1 AU

```
float MidnightBlue.Length.AU [get]
```

Gets the length in Astronomical Unites

The length in astronomical units.

5.12.4.2 Centimeters

```
ulong MidnightBlue.Length.Centimeters [get]
```

Gets the length in centimeters

The length in centimeters.

5.12.4.3 Kilometers

```
ulong MidnightBlue.Length.Kilometers [get]
```

Gets the length in kilometers

The length in kilometers.

5.12.4.4 Meters

```
ulong MidnightBlue.Length.Meters [get]
```

Gets the length in meters

The length in meters.

5.12.4.5 RelativeKilometers

```
int MidnightBlue.Length.RelativeKilometers [get]
```

Gets the length in kilometers represented as a smaller value used for calculations.

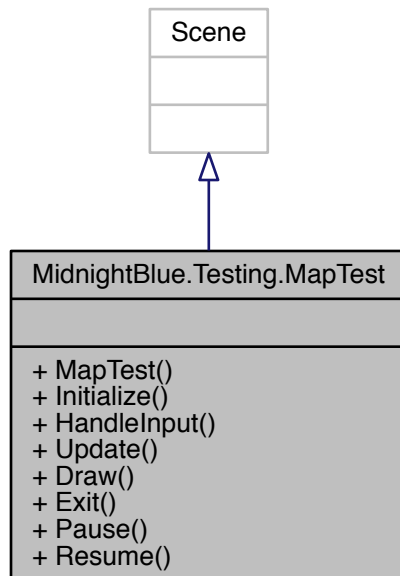
The length in relative kilometers.

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

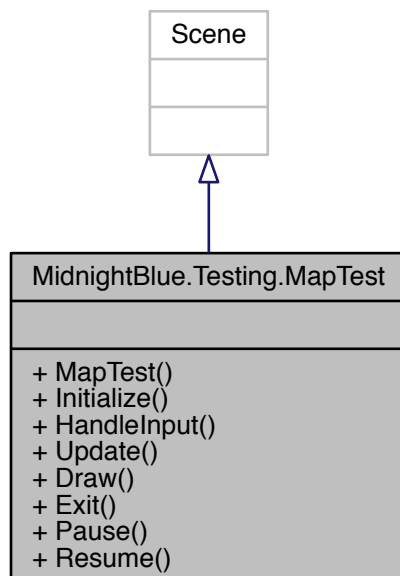
- Shared/src/Game/Environment/Length.cs

5.13 MidnightBlue.Testing.MapTest Class Reference

Inheritance diagram for MidnightBlue.Testing.MapTest:



Collaboration diagram for MidnightBlue.Testing.MapTest:



Public Member Functions

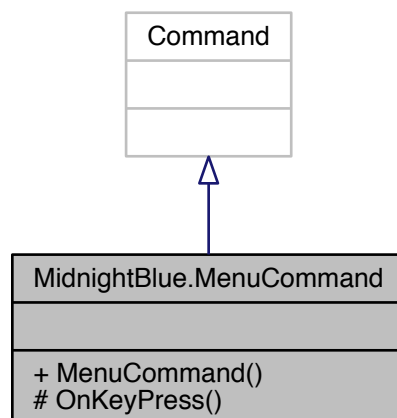
- **MapTest** (EntityMap map, ContentManager content)
- override void **Initialize** ()
- override void **HandleInput** ()
- override void **Update** ()
- override void **Draw** (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
- override void **Exit** ()
- override void **Pause** ()
- override void **Resume** ()

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

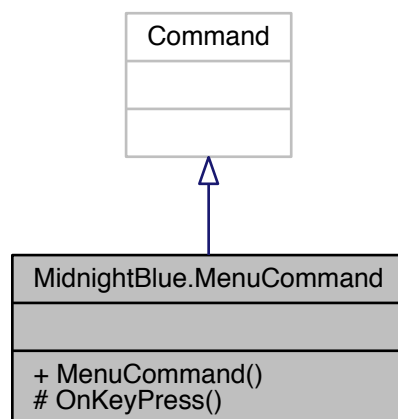
- Shared/src/Game/Tests/MapTest.cs

5.14 MidnightBlue.MenuCommand Class Reference

Inheritance diagram for MidnightBlue.MenuCommand:



Collaboration diagram for MidnightBlue.MenuCommand:



Public Member Functions

- **MenuCommand** (Keys key, CommandType commandType, SceneStack sceneController, ContentManager content)

Protected Member Functions

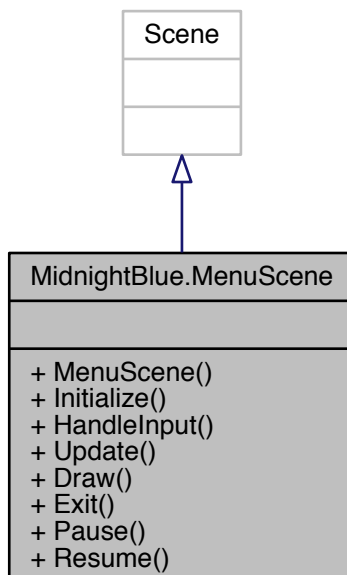
- override void **OnKeyPress** (Entity e=null)

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

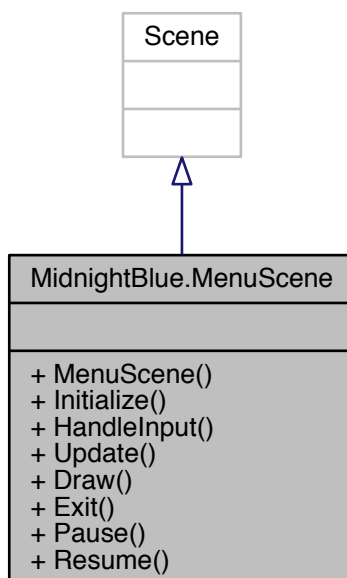
- Shared/src/Game/Commands/MenuCommand.cs

5.15 MidnightBlue.MenuScene Class Reference

Inheritance diagram for MidnightBlue.MenuScene:



Collaboration diagram for MidnightBlue.MenuScene:



Public Member Functions

- **MenuScene** (ContentManager content)
- override void **Initialize** ()
Creates the UIView and starts the background music.
- override void **HandleInput** ()
Handles the input for the menu.
- override void **Update** ()
Updates the UI
- override void **Draw** (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draws the UI to the uiSpriteBatch
- override void **Exit** ()
Exits the menu
- override void **Pause** ()
Pauses the scene
- override void **Resume** ()
Resumes the scene

5.15.1 Member Function Documentation

5.15.1.1 Draw()

```
override void MidnightBlue.MenuScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draws the UI to the uiSpriteBatch

Parameters

<i>spriteBatch</i>	Sprite batch for world-based entities.
<i>uiSpriteBatch</i>	User interface sprite batch.

5.15.1.2 Exit()

```
override void MidnightBlue.MenuScene.Exit ( ) [inline]
```

Exits the menu

5.15.1.3 HandleInput()

```
override void MidnightBlue.MenuScene.HandleInput ( ) [inline]
```

Handles the input for the menu.

5.15.1.4 Initialize()

```
override void MidnightBlue.MenuScene.Initialize ( ) [inline]
```

Creates the UIView and starts the background music.

5.15.1.5 Pause()

```
override void MidnightBlue.MenuScene.Pause ( ) [inline]
```

Pauses the scene

5.15.1.6 Resume()

```
override void MidnightBlue.MenuScene.Resume ( ) [inline]
```

Resumes the scene

5.15.1.7 Update()

```
override void MidnightBlue.MenuScene.Update ( ) [inline]
```

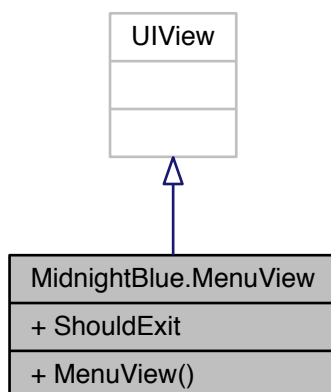
Updates the UI

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

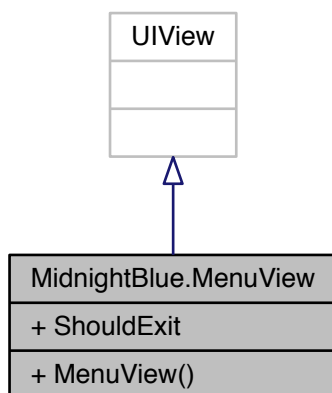
- Shared/src/Game/Scenes/MenuScene.cs

5.16 MidnightBlue.MenuView Class Reference

Inheritance diagram for MidnightBlue.MenuView:



Collaboration diagram for MidnightBlue.MenuView:



Public Member Functions

- **MenuView** (ContentManager content)

Properties

- bool **ShouldExit** [get]

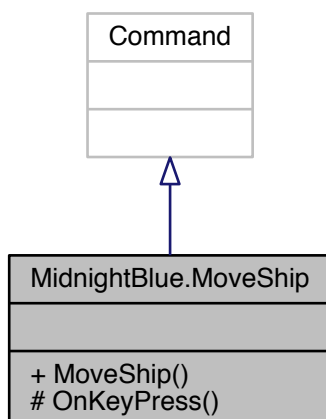
The documentation for this class was generated from the following file:

- Shared/src/Game/UIViews/MenuView.cs

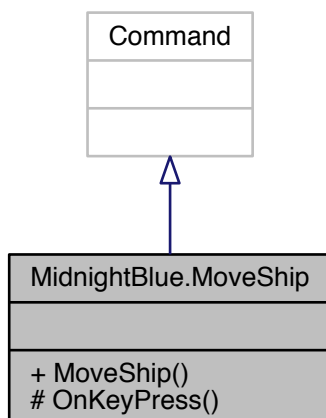
5.17 MidnightBlue.MoveShip Class Reference

Performs logic aside from movement required to execute when moving the ship such as consuming fuel.

Inheritance diagram for MidnightBlue.MoveShip:



Collaboration diagram for MidnightBlue.MoveShip:



Public Member Functions

- [MoveShip](#) (Keys key, CommandType type)
Initializes a new instance of the T:MidnightBlue.MoveShip class.

Protected Member Functions

- override void [OnKeyPress](#) (Entity e)
Consumes fuel, stopping the ship if there's none remaining

5.17.1 Detailed Description

Performs logic aside from movement required to execute when moving the ship such as consuming fuel.

5.17.2 Constructor & Destructor Documentation

5.17.2.1 MoveShip()

```
MidnightBlue.MoveShip.MoveShip (
    Keys key,
    CommandType type ) [inline]
```

Initializes a new instance of the T:MidnightBlue.MoveShip class.

Parameters

<i>key</i>	Key to assign to.
<i>type</i>	Trigger type.

5.17.3 Member Function Documentation

5.17.3.1 OnKeyPress()

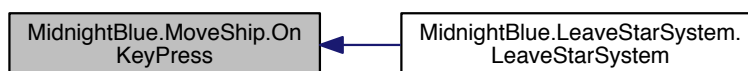
```
override void MidnightBlue.MoveShip.OnKeyPress (
    Entity e ) [inline], [protected]
```

Consumes fuel, stopping the ship if there's none remaining

Parameters

<i>e</i>	Entity with inventory to operate on.
----------	--------------------------------------

Here is the caller graph for this function:



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

- Shared/src/Game/Commands/ShipCommands.cs

5.18 MidnightBlue.NoiseMap Class Reference

Generates a fractal 2D map using Simplex Noise

Collaboration diagram for MidnightBlue.NoiseMap:

MidnightBlue.NoiseMap
<ul style="list-style-type: none"> + Width + Height + MaxValue + MinValue + Map
<ul style="list-style-type: none"> + NoiseMap() + NoiseMap() + GetValue() + SetValue()

Public Member Functions

- [NoiseMap](#) (ImplicitModuleBase fractal, int width, int height, int seed)
Initializes a new instance of the T:MidnightBlue.NoiseMap class. Initializes the fractal generator to use Simplex Noise
- [NoiseMap](#) (ImplicitModuleBase fractal, int width, int height)
Initializes a new instance of the T:MidnightBlue.NoiseMap class. Initializes the fractal generator to use Simplex Noise
- double [GetValue](#) (int x, int y)
Gets a noise value at the specified x and y coordinates. Returned as a normalized value in the range of 0 - 1
- void [SetValue](#) (int x, int y, double value)
Sets a noise value at the specified x and y coordinates. Assigned as a normalized value in the range of 0 - 1

Properties

- int [Width](#) [get]
Gets the width of the noise map.
- int [Height](#) [get]
Gets the height of the noise map.
- double [MaxValue](#) [get]
Gets the maximum value found in the currently generated noise map.
- double [MinValue](#) [get]
Gets the minimum value found in the currently generated noise map.
- ImplicitModuleBase [Map](#) [get]
Gets the internal map.

5.18.1 Detailed Description

Generates a fractal 2D map using Simplex Noise

5.18.2 Constructor & Destructor Documentation

5.18.2.1 NoiseMap() [1/2]

```
MidnightBlue.NoiseMap.NoiseMap (
    ImplicitModuleBase fractal,
    int width,
    int height,
    int seed ) [inline]
```

Initializes a new instance of the T:MidnightBlue.NoiseMap class. Initializes the fractal generator to use Simplex Noise

Parameters

<i>width</i>	Width of the noise map.
<i>height</i>	Height of the noise map.
<i>seed</i>	Seed to use in generating the noise map.

5.18.2.2 NoiseMap() [2/2]

```
MidnightBlue.NoiseMap.NoiseMap (
    ImplicitModuleBase fractal,
    int width,
    int height ) [inline]
```

Initializes a new instance of the T:MidnightBlue.NoiseMap class. Initializes the fractal generator to use Simplex Noise

Parameters

<i>width</i>	Width of the noise map.
<i>height</i>	Height of the noise map.

5.18.3 Member Function Documentation

5.18.3.1 GetValue()

```
double MidnightBlue.NoiseMap.GetValue (
    int x,
    int y ) [inline]
```

Gets a noise value at the specified x and y coordinates. Returned as a normalized value in the range of 0 - 1

Returns

The noise value.

Parameters

<i>x</i>	The x coordinate.
<i>y</i>	The y coordinate.

Here is the caller graph for this function:

**5.18.3.2 SetValue()**

```
void MidnightBlue.NoiseMap.SetValue (
    int x,
    int y,
    double value ) [inline]
```

Sets a noise value at the specified x and y coordinates. Assigned as a normalized value in the range of 0 - 1

Returns

The noise value.

Parameters

<i>x</i>	The x coordinate.
<i>y</i>	The y coordinate.

Here is the caller graph for this function:

**5.18.4 Property Documentation****5.18.4.1 Height**

```
int MidnightBlue.NoiseMap.Height [get]
```

Gets the height of the noise map.

The height.

5.18.4.2 Map

```
ImplicitModuleBase MidnightBlue.NoiseMap.Map [get]
```

Gets the internal map.

The map.

5.18.4.3 MaxValue

```
double MidnightBlue.NoiseMap.MaxValue [get]
```

Gets the maximum value found in the currently generated noise map.

The max value.

5.18.4.4 MinValue

```
double MidnightBlue.NoiseMap.MinValue [get]
```

Gets the minimum value found in the currently generated noise map.

The max value.

5.18.4.5 Width

```
int MidnightBlue.NoiseMap.Width [get]
```

Gets the width of the noise map.

The width.

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

- Shared/src/Game/Environment/NoiseMap.cs

5.19 MidnightBlue.Planet Class Reference

A fully-generated planet in a star system with associated texture maps.

Collaboration diagram for MidnightBlue.Planet:

MidnightBlue.Planet
+ Tiles + Size + Name + Meta + Position + Generated
+ Planet() + Generate() + CreateMapTexture() + GetMapLayer()

Public Member Functions

- [Planet](#) ([PlanetMetadata](#) meta, int seed)
Initializes a new instance of the T:MidnightBlue.Planet class and sets up all noise maps ready for generation.
- void [Generate](#) (Random rand)
Generates the planet after setting up with pre-defined metadata parameters.
- void [CreateMapTexture](#) (ContentManager content)
Creates the biome map texture and planet mask texture to use for rendering to star system view and to use as maps.
- Texture2D [GetMapLayer](#) (string layerName)
Gets one of the planets generated noise map textures

Properties

- [PlanetTile](#) [,] [Tiles](#) [get]
Gets all the tiles in the generated planet
- Point [Size](#) [get]
Gets the rectangular size of the planets tile map
- string [Name](#) [get]
Gets the name of the planet
- [PlanetMetadata](#) [Meta](#) [get]
Gets the planets assigned metadata parameters
- Vector2 [Position](#) [get, set]
Gets or sets the planets position in the star system scene
- bool [Generated](#) [get]
Gets a value indicating whether this T:MidnightBlue.Planet is generated or only setup ready to be generated.

5.19.1 Detailed Description

A fully-generated planet in a star system with associated texture maps.

5.19.2 Constructor & Destructor Documentation

5.19.2.1 Planet()

```
MidnightBlue.Planet.Planet (
    PlanetMetadata meta,
    int seed ) [inline]
```

Initializes a new instance of the T:MidnightBlue.Planet class and sets up all noise maps ready for generation.

Parameters

<i>meta</i>	Metadata received from the planet view to act as parameters for generation.
<i>seed</i>	Seed to use in generating the map.

5.19.3 Member Function Documentation

5.19.3.1 CreateMapTexture()

```
void MidnightBlue.Planet.CreateMapTexture (
    ContentManager content ) [inline]
```

Creates the biome map texture and planet mask texture to use for rendering to star system view and to use as maps.

Parameters

<i>content</i>	Content manager for loading textures.
----------------	---------------------------------------

Here is the call graph for this function:



5.19.3.2 Generate()

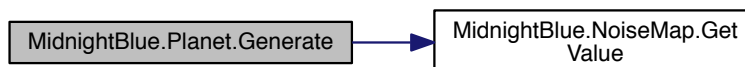
```
void MidnightBlue.Planet.Generate (
    Random rand ) [inline]
```

Generates the planet after setting up with pre-defined metadata parameters.

Parameters

<i>rand</i>	Random number generator from galaxy view to use in generating the planet.
-------------	---

Here is the call graph for this function:



Here is the caller graph for this function:



5.19.3.3 GetMapLayer()

```
Texture2D MidnightBlue.Planet.GetMapLayer (
    string layerName ) [inline]
```

Gets one of the planets generated noise map textures

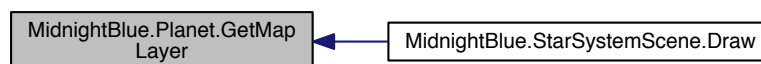
Returns

The map layer.

Parameters

<i>layerName</i>	Layer name.
------------------	-------------

Here is the caller graph for this function:



5.19.4 Property Documentation

5.19.4.1 Generated

```
bool MidnightBlue.Planet.Generated [get]
```

Gets a value indicating whether this `T:MidnightBlue.Planet` is generated or only setup ready to be generated.

`true` if generated; otherwise, `false`.

5.19.4.2 Meta

```
PlanetMetadata MidnightBlue.Planet.Meta [get]
```

Gets the planets assigned metadata parameters

The metadata.

5.19.4.3 Name

```
string MidnightBlue.Planet.Name [get]
```

Gets the name of the planet

The name.

5.19.4.4 Position

```
Vector2 MidnightBlue.Planet.Position [get], [set]
```

Gets or sets the planets position in the star system scene

The position.

5.19.4.5 Size

```
Point MidnightBlue.Planet.Size [get]
```

Gets the rectangular size of the planets tile map

The size of the planet.

5.19.4.6 Tiles

```
PlanetTile [,] MidnightBlue.Planet.Tiles [get]
```

Gets all the tiles in the generated planet

The tiles.

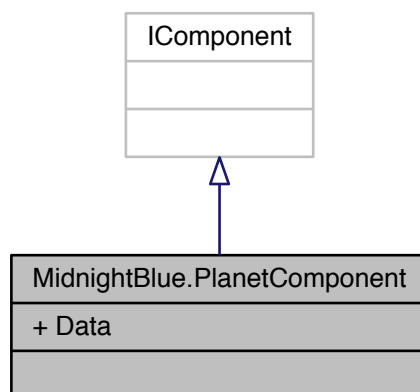
The documentation for this class was generated from the following file:

- Shared/src/Game/Environment/Planet.cs

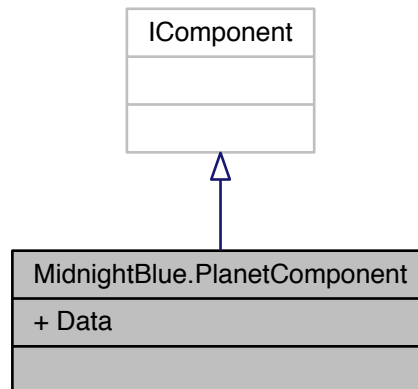
5.20 MidnightBlue.PlanetComponent Class Reference

Represents a planet entity with pre-generated metadata

Inheritance diagram for MidnightBlue.PlanetComponent:



Collaboration diagram for MidnightBlue.PlanetComponent:



Properties

- [Planet Data](#) [get, set]

All pre-generated arguments used when generating a planets map

5.20.1 Detailed Description

Represents a planet entity with pre-generated metadata

5.20.2 Property Documentation

5.20.2.1 Data

`Planet` `MidnightBlue.PlanetComponent.Data` [get], [set]

All pre-generated arguments used when generating a planets map

The data.

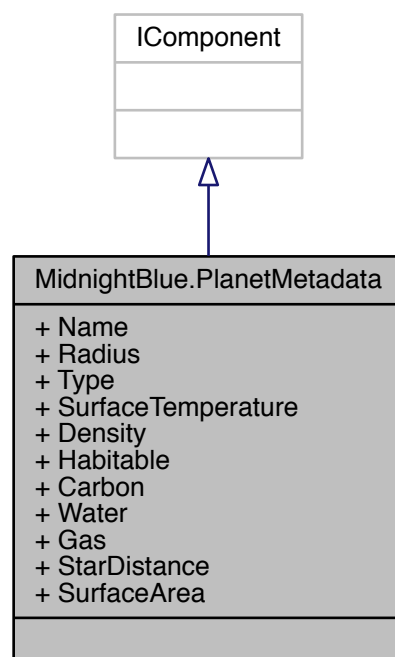
The documentation for this class was generated from the following file:

- `Shared/src/Game/Components/PlanetComponent.cs`

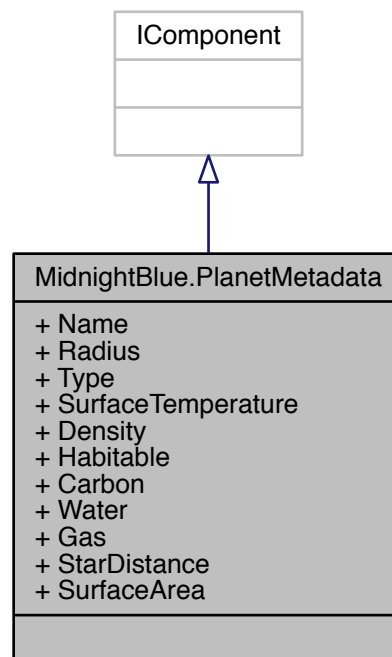
5.21 MidnightBlue.PlanetMetadata Class Reference

[Planet](#) metadata used as information and arguments for generating the actual biome map of a planet. Required for an entity to be treated as a planet.

Inheritance diagram for MidnightBlue.PlanetMetadata:



Collaboration diagram for MidnightBlue.PlanetMetadata:



Properties

- string `Name` [get, set]
Gets or sets the name of the planet.
- int `Radius` [get, set]
Gets or sets the radius of the planet.
- `PlanetType` `Type` [get, set]
Gets or sets the type of the planet.
- float `SurfaceTemperature` [get, set]
Gets or sets the surface temperature.
- int `Density` [get, set]
Gets or sets the density.
- float `Habitable` [get, set]
Gets or sets the score indicating the planets ability to support life.
- int `Carbon` [get, set]
Gets or sets the amount of carbon on the planet.
- int `Water` [get, set]
Gets or sets the amount of water on the planet.
- int `Gas` [get, set]
Gets or sets the amount of gas on the planet.
- `Length` `StarDistance` [get, set]
Gets or sets the distance of this planet to its star
- float `SurfaceArea` [get]
Gets the surface area of the planet. Used mostly for information displays - not very useful for anything else.

5.21.1 Detailed Description

[Planet](#) metadata used as information and arguments for generating the actual biome map of a planet. Required for an entity to be treated as a planet.

5.21.2 Property Documentation

5.21.2.1 Carbon

```
int MidnightBlue.PlanetMetadata.Carbon [get], [set]
```

Gets or sets the amount of carbon on the planet.

The carbon amount.

5.21.2.2 Density

```
int MidnightBlue.PlanetMetadata.Density [get], [set]
```

Gets or sets the density.

The density.

5.21.2.3 Gas

```
int MidnightBlue.PlanetMetadata.Gas [get], [set]
```

Gets or sets the amount of gas on the planet.

The gas amount.

5.21.2.4 Habitable

```
float MidnightBlue.PlanetMetadata.Habitable [get], [set]
```

Gets or sets the score indicating the planets ability to support life.

The life score.

5.21.2.5 Name

```
string MidnightBlue.PlanetMetadata.Name [get], [set]
```

Gets or sets the name of the planet.

The name.

5.21.2.6 Radius

```
int MidnightBlue.PlanetMetadata.Radius [get], [set]
```

Gets or sets the radius of the planet.

The radius.

5.21.2.7 StarDistance

`Length` MidnightBlue.PlanetMetadata.StarDistance [get], [set]

Gets or sets the distance of this planet to its star

The star distance.

5.21.2.8 SurfaceArea

`float` MidnightBlue.PlanetMetadata.SurfaceArea [get]

Gets the surface area of the planet. Used mostly for information displays - not very useful for anything else.

The surface area.

5.21.2.9 SurfaceTemperature

`float` MidnightBlue.PlanetMetadata.SurfaceTemperature [get], [set]

Gets or sets the surface temperature.

The surface temperature.

5.21.2.10 Type

`PlanetType` MidnightBlue.PlanetMetadata.Type [get], [set]

Gets or sets the type of the planet.

The type.

5.21.2.11 Water

`int` MidnightBlue.PlanetMetadata.Water [get], [set]

Gets or sets the amount of water on the planet.

The water amount.

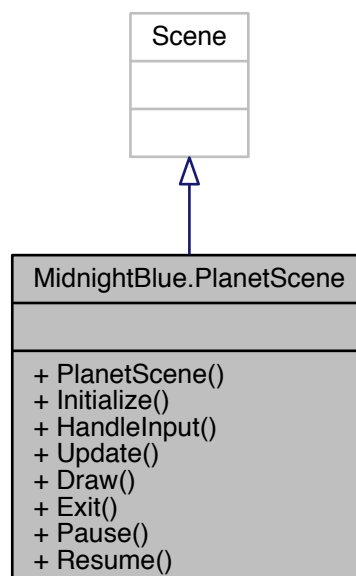
The documentation for this class was generated from the following file:

- Shared/src/Game/Environment/PlanetMetadata.cs

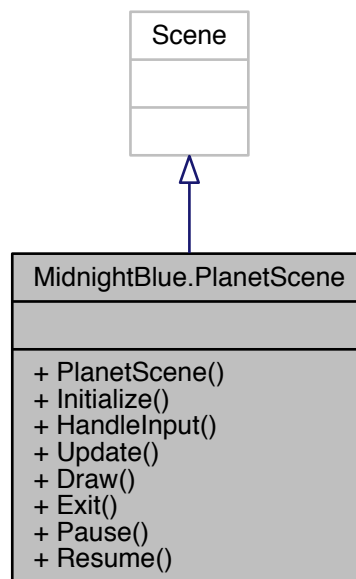
5.22 MidnightBlue.PlanetScene Class Reference

Scene active when the player is exploring a given planet.

Inheritance diagram for MidnightBlue.PlanetScene:



Collaboration diagram for MidnightBlue.PlanetScene:



Public Member Functions

- [PlanetScene](#) (EntityMap map, ContentManager content, [Planet](#) planet)
Initializes a new instance of the T:MidnightBlue.PlanetScene class.
- override void [Initialize](#) ()
Sets up the player and physics environment for this planet
- override void [HandleInput](#) ()
Handles the input for the scene.
- override void [Update](#) ()
Updates the players position and state alongside the current biome the player is located at.
- override void [Draw](#) (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draw the tilemap to the specified spriteBatch and uiSpriteBatch.
- override void [Exit](#) ()
Exit this scene.
- override void [Pause](#) ()
Instantly pause the scene
- override void [Resume](#) ()
Instantly resume the scene

5.22.1 Detailed Description

Scene active when the player is exploring a given planet.

5.22.2 Constructor & Destructor Documentation

5.22.2.1 PlanetScene()

```
MidnightBlue.PlanetScene.PlanetScene (
    EntityMap map,
    ContentManager content,
    Planet planet ) [inline]
```

Initializes a new instance of the T:MidnightBlue.PlanetScene class.

Parameters

<i>map</i>	Game object map.
<i>content</i>	Content manager for loading resources.
<i>planet</i>	Planet to use in this scene.

5.22.3 Member Function Documentation

5.22.3.1 Draw()

```
override void MidnightBlue.PlanetScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draw the tilemap to the specified spriteBatch and uiSpriteBatch.

Parameters

<i>spriteBatch</i>	Sprite batch to draw world-based entities to.
<i>uiSpriteBatch</i>	User interface sprite batch.

5.22.3.2 Exit()

```
override void MidnightBlue.PlanetScene.Exit ( ) [inline]
```

Exit this scene.

5.22.3.3 HandleInput()

```
override void MidnightBlue.PlanetScene.HandleInput ( ) [inline]
```

Handles the input for the scene.

5.22.3.4 Initialize()

```
override void MidnightBlue.PlanetScene.Initialize ( ) [inline]
```

Sets up the player and physics environment for this planet

5.22.3.5 Pause()

```
override void MidnightBlue.PlanetScene.Pause ( ) [inline]
```

Instantly pause the scene

5.22.3.6 Resume()

```
override void MidnightBlue.PlanetScene.Resume ( ) [inline]
```

Instantly resume the scene

5.22.3.7 Update()

```
override void MidnightBlue.PlanetScene.Update ( ) [inline]
```

Updates the players position and state alongside the current biome the player is located at.

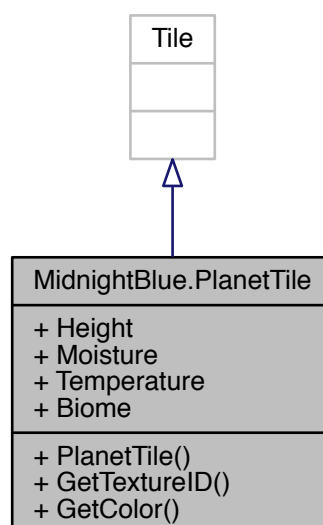
The documentation for this class was generated from the following file:

- Shared/src/Game/Scenes/PlanetScene.cs

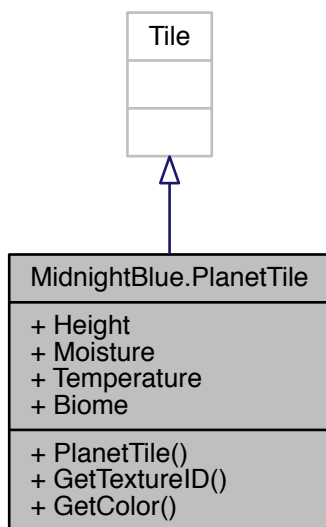
5.23 MidnightBlue.PlanetTile Class Reference

A tile type used in planet tilemaps

Inheritance diagram for MidnightBlue.PlanetTile:



Collaboration diagram for MidnightBlue.PlanetTile:



Public Member Functions

- [PlanetTile](#) (double height, double moisture, double temperature, Random rand)
Initializes a new instance of the T:MidnightBlue.PlanetTile class, generates a biome and specifies collision data based on its biome type.
- int [GetTextureID](#) ([Biome](#) biome, Random rand)
Gets the ID of a biomes texture region for use in a tilemap
- Color [GetColor](#) ([Biome](#) biome)
Gets the color of a tile in the minimap based on its biome.

Properties

- [HeightLevel Height](#) [get]
Gets the height category of the tile.
- [MoistureLevel Moisture](#) [get]
Gets the moisture category of the tile.
- [TemperatureLevel Temperature](#) [get]
Gets the temperature category of the tile.
- [Biome Biome](#) [get]
Gets the biome category of the tile.

5.23.1 Detailed Description

A tile type used in planet tilemaps

5.23.2 Constructor & Destructor Documentation

5.23.2.1 PlanetTile()

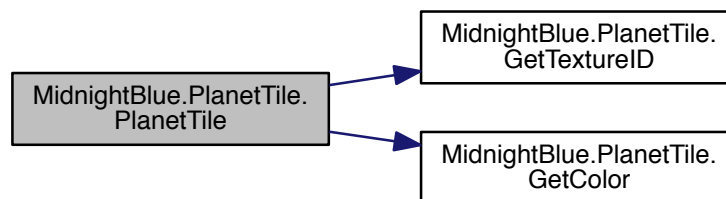
```
MidnightBlue.PlanetTile.PlanetTile (
    double height,
    double moisture,
    double temperature,
    Random rand ) [inline]
```

Initializes a new instance of the T:MidnightBlue.PlanetTile class, generates a biome and specifies collision data based on its biome type.

Parameters

<i>height</i>	Height value to use in generation.
<i>moisture</i>	Moisture value to use in generation.
<i>temperature</i>	Temperature value to use in generation.
<i>rand</i>	Random number generator used in biome generation.

Here is the call graph for this function:



5.23.3 Member Function Documentation

5.23.3.1 GetColor()

```
Color MidnightBlue.PlanetTile.GetColor (
    Biome biome ) [inline]
```

Gets the color of a tile in the minimap based on its biome.

Returns

The color.

Parameters

<i>biome</i>	Biome to get.
--------------	---------------

Here is the caller graph for this function:



5.23.3.2 GetTextureID()

```
int MidnightBlue.PlanetTile.GetTextureID (
    Biome biome,
    Random rand ) [inline]
```

Gets the ID of a biomes texture region for use in a tilemap

Returns

The texture region identifier.

Parameters

<i>biome</i>	Biome to get.
<i>rand</i>	Random number generator to use for varied region id's.

Here is the caller graph for this function:



5.23.4 Property Documentation

5.23.4.1 Biome

```
Biome MidnightBlue.PlanetTile.Biome [get]
```

Gets the biome category of the tile.

The biome category.

5.23.4.2 Height

`HeightLevel` `MidnightBlue.PlanetTile.Height` [get]

Gets the height category of the tile.

The height category.

5.23.4.3 Moisture

`MoistureLevel` `MidnightBlue.PlanetTile.Moisture` [get]

Gets the moisture category of the tile.

The moisture category.

5.23.4.4 Temperature

`TemperatureLevel` `MidnightBlue.PlanetTile.Temperature` [get]

Gets the temperature category of the tile.

The temperature category.

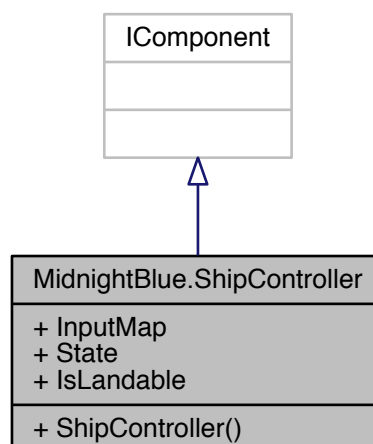
The documentation for this class was generated from the following file:

- Shared/src/Game/Environment/PlanetTile.cs

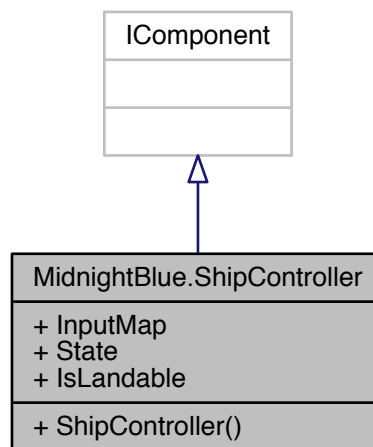
5.24 MidnightBlue.ShipController Class Reference

Controls a ships movement and actions

Inheritance diagram for `MidnightBlue.ShipController`:



Collaboration diagram for MidnightBlue.ShipController:



Public Member Functions

- [ShipController \(\)](#)

Initializes a new instance of the T:MidnightBlue.ShipController class and assigns all default input and key mappings.

Properties

- `InputMap` [InputMap](#) [get]

Gets the input map.

- [ShipState](#) `State` [get, set]

Gets or sets the current travel state of the ship.

- `bool` [IsLandable](#) [get, set]

Gets or sets a value indicating whether this T:MidnightBlue.ShipController is able to be landed when the entity calls their [LandCommand](#).

5.24.1 Detailed Description

Controls a ships movement and actions

5.24.2 Constructor & Destructor Documentation

5.24.2.1 ShipController()

```
MidnightBlue.ShipController.ShipController ( ) [inline]
```

Initializes a new instance of the T:MidnightBlue.ShipController class and assigns all default input and key mappings.

5.24.3 Property Documentation

5.24.3.1 InputMap

`InputMap` `MidnightBlue.ShipController.InputMap` [get]

Gets the input map.

The input map.

5.24.3.2 IsLanded

`bool` `MidnightBlue.ShipController.IsLanded` [get], [set]

Gets or sets a value indicating whether this `T:MidnightBlue.ShipController` is able to be landed when the entity calls their [LandCommand](#).

`true` if is landable; otherwise, `false`.

5.24.3.3 State

`ShipState` `MidnightBlue.ShipController.State` [get], [set]

Gets or sets the current travel state of the ship.

The ships travelling state.

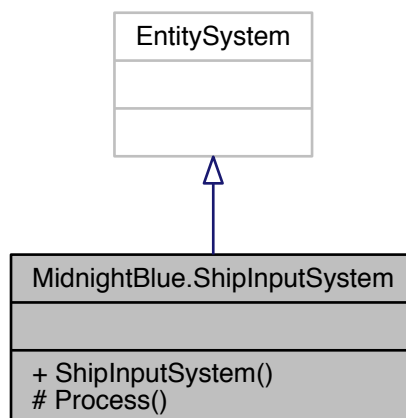
The documentation for this class was generated from the following file:

- `Shared/src/Game/Components/ShipController.cs`

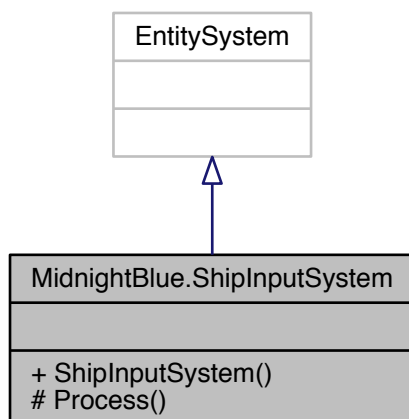
5.25 MidnightBlue.ShipInputSystem Class Reference

Handles moving the ship forward and backwards.

Inheritance diagram for `MidnightBlue.ShipInputSystem`:



Collaboration diagram for MidnightBlue.ShipInputSystem:



Public Member Functions

- [ShipInputSystem \(\)](#)
Initializes a new instance of the T:MidnightBlue.ShipInputSystem class.

Protected Member Functions

- override void [Process](#) (Entity entity)
Uses the entities ship controller to move forward and backward

5.25.1 Detailed Description

Handles moving the ship forward and backwards.

5.25.2 Constructor & Destructor Documentation

5.25.2.1 ShipInputSystem()

```
MidnightBlue.ShipInputSystem.ShipInputSystem ( ) [inline]
```

Initializes a new instance of the T:MidnightBlue.ShipInputSystem class.

5.25.3 Member Function Documentation

5.25.3.1 Process()

```
override void MidnightBlue.ShipInputSystem.Process (
    Entity entity ) [inline], [protected]
```

Uses the entities ship controller to move forward and backward

Parameters

<i>entity</i>	Entity to process.
---------------	--------------------

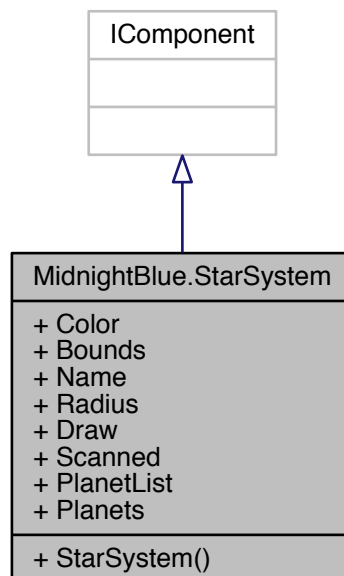
The documentation for this class was generated from the following file:

- Shared/src/Game/Systems/ShipInputSystem.cs

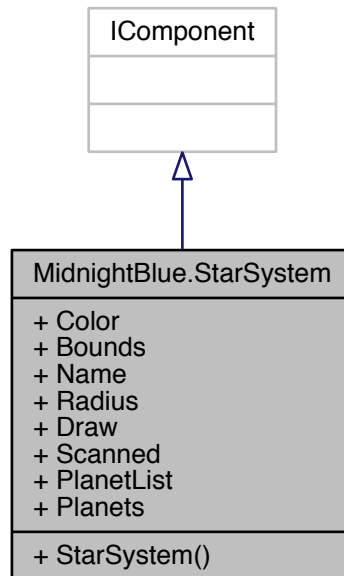
5.26 MidnightBlue.StarSystem Class Reference

Represents an star system entity to be used in the galaxy view

Inheritance diagram for MidnightBlue.StarSystem:



Collaboration diagram for MidnightBlue.StarSystem:



Public Member Functions

- [StarSystem](#) ()
Initializes a new instance of the T:MidnightBlue.StarSystem class.

Properties

- Color [Color](#) [get, set]
Gets or sets the color of the star rendered in the galaxy view.
- Rectangle [Bounds](#) [get, set]
Gets or sets the bounding rectangle of the star system in the galaxy view.
- string [Name](#) [get, set]
Gets or sets the name of the star system.
- int [Radius](#) [get, set]
Gets or sets the radius of the star at the center of the system.
- bool [Draw](#) [get, set]
Gets or sets a value indicating whether this T:MidnightBlue.StarSystem is drawn or not.
- bool [Scanned](#) [get, set]
Gets or sets a value indicating whether this T:MidnightBlue.StarSystem has been scanned by the player.
- string [PlanetList](#) [get]
Gets a string representation of the list of planets in the star system and all their information.
- List< [PlanetMetadata](#) > [Planets](#) [get, set]
Gets or sets the list of all planets.

5.26.1 Detailed Description

Represents an star system entity to be used in the galaxy view

5.26.2 Constructor & Destructor Documentation

5.26.2.1 StarSystem()

```
MidnightBlue.StarSystem.StarSystem ( ) [inline]
```

Initializes a new instance of the T:MidnightBlue.StarSystem class.

5.26.3 Property Documentation

5.26.3.1 Bounds

```
Rectangle MidnightBlue.StarSystem.Bounds [get], [set]
```

Gets or sets the bounding rectangle of the star system in the galaxy view.

The bounds.

5.26.3.2 Color

```
Color MidnightBlue.StarSystem.Color [get], [set]
```

Gets or sets the color of the star rendered in the galaxy view.

The color.

5.26.3.3 Draw

```
bool MidnightBlue.StarSystem.Draw [get], [set]
```

Gets or sets a value indicating whether this T:MidnightBlue.StarSystem is drawn or not.

true if should be drawn; otherwise, false.

5.26.3.4 Name

```
string MidnightBlue.StarSystem.Name [get], [set]
```

Gets or sets the name of the star system.

The name.

5.26.3.5 PlanetList

```
string MidnightBlue.StarSystem.PlanetList [get]
```

Gets a string representation of the list of planets in the star system and all their information.

The planet list.

5.26.3.6 Planets

```
List<PlanetMetadata> MidnightBlue.StarSystem.Planets [get], [set]
```

Gets or sets the list of all planets.

The planets.

5.26.3.7 Radius

```
int MidnightBlue.StarSystem.Radius [get], [set]
```

Gets or sets the radius of the star at the center of the system.

The radius.

5.26.3.8 Scanned

```
bool MidnightBlue.StarSystem.Scanned [get], [set]
```

Gets or sets a value indicating whether this T:MidnightBlue.StarSystem has been scanned by the player.

true if scanned; otherwise, false.

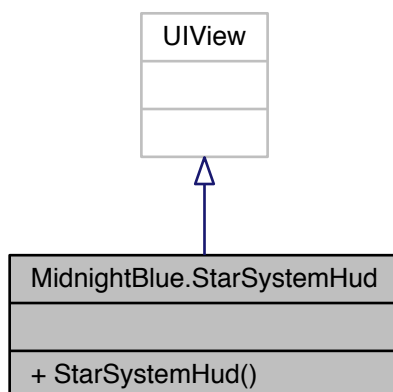
The documentation for this class was generated from the following file:

- Shared/src/Game/Components/StarSystem.cs

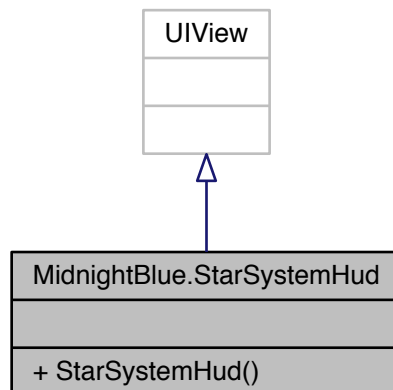
5.27 MidnightBlue.StarSystemHud Class Reference

Star system hud with minimap.

Inheritance diagram for MidnightBlue.StarSystemHud:



Collaboration diagram for MidnightBlue.StarSystemHud:



Public Member Functions

- [StarSystemHud](#) (ContentManager content, EntityMap gameObjects, SceneStack scenes)
Initializes a new instance of the T:MidnightBlue.StarSystemHud class.

5.27.1 Detailed Description

Star system hud with minimap.

5.27.2 Constructor & Destructor Documentation

5.27.2.1 StarSystemHud()

```
MidnightBlue.StarSystemHud.StarSystemHud (
    ContentManager content,
    EntityMap gameObjects,
    SceneStack scenes ) [inline]
```

Initializes a new instance of the T:MidnightBlue.StarSystemHud class.

Parameters

<i>content</i>	Content to load fonts and textures with.
<i>gameObjects</i>	Game objects to track in the minimap.
<i>scenes</i>	Scene stack to use in UI interactions.

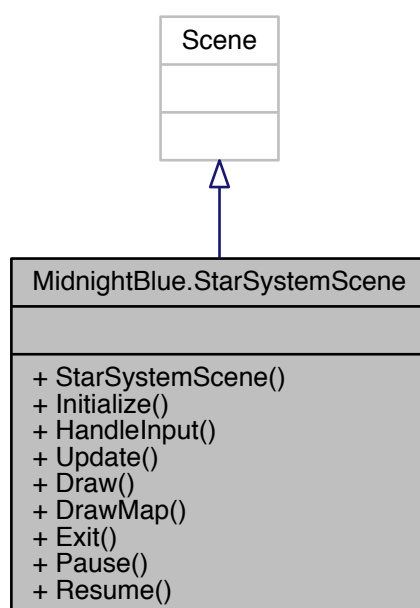
The documentation for this class was generated from the following file:

- Shared/src/Game/UIViews/StarSystemHud.cs

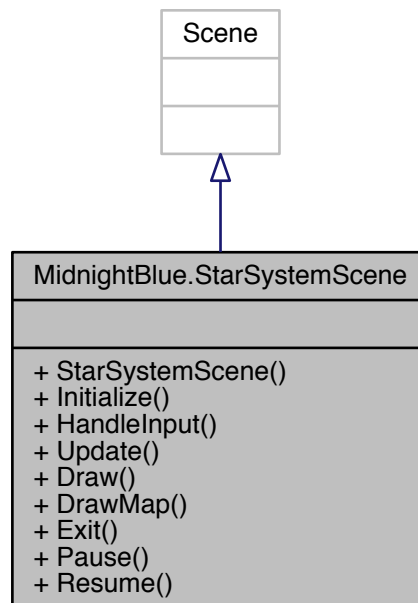
5.28 MidnightBlue.StarSystemScene Class Reference

Scene to display a star system with planets and a star.

Inheritance diagram for MidnightBlue.StarSystemScene:



Collaboration diagram for MidnightBlue.StarSystemScene:



Public Member Functions

- [StarSystemScene](#) (EntityMap map, ContentManager content, [StarSystem](#) starSystem, Dictionary< string, [Planet](#) > cache, int seed)
Initializes a new instance of the T:MidnightBlue.StarSystemScene class.
- override void [Initialize](#) ()
Ends initializing instantly.
- override void [HandleInput](#) ()
Handles moving the players ship.
- override void [Update](#) ()
Updates all systems in the game and handles the occurrence of the player entering a planet.
- override void [Draw](#) (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draws the star system to the sprite batch and the HUD to the UI spritebatch.
- void [DrawMap](#) (SpriteBatch uiSpriteBatch)
Draws the minimap to the window.
- override void [Exit](#) ()
Exits the scene instantly.
- override void [Pause](#) ()
Pauses the scene instantly.
- override void [Resume](#) ()
Resumes the star system scene after leaving a planet. Handles resetting the physics environment, players ship settings and reactivates all planets and the star.

5.28.1 Detailed Description

Scene to display a star system with planets and a star.

5.28.2 Constructor & Destructor Documentation

5.28.2.1 StarSystemScene()

```
MidnightBlue.StarSystemScene.StarSystemScene (
    EntityMap map,
    ContentManager content,
    StarSystem starSystem,
    Dictionary< string, Planet > cache,
    int seed ) [inline]
```

Initializes a new instance of the T:MidnightBlue.StarSystemScene class.

Parameters

<i>map</i>	Entity map to load entities into.
<i>content</i>	Content manager for loading resources.
<i>starSystem</i>	Star system information to use for the scene.
<i>cache</i>	Planet cache used for quickly loading recently-visited star systems.
<i>seed</i>	Seed to use in random generation.

5.28.3 Member Function Documentation

5.28.3.1 Draw()

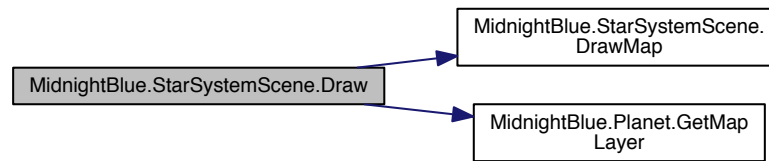
```
override void MidnightBlue.StarSystemScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draws the star system to the sprite batch and the HUD to the UI spritebatch.

Parameters

<i>spriteBatch</i>	Sprite batch to draw world-based entities to.
<i>uiSpriteBatch</i>	User interface sprite batch.

Here is the call graph for this function:



5.28.3.2 DrawMap()

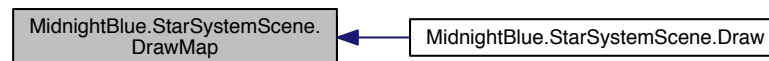
```
void MidnightBlue.StarSystemScene.DrawMap (
    SpriteBatch uiSpriteBatch ) [inline]
```

Draws the minimap to the window.

Parameters

<i>uiSpriteBatch</i>	User interface sprite batch to draw to.
----------------------	---

Here is the caller graph for this function:



5.28.3.3 Exit()

```
override void MidnightBlue.StarSystemScene.Exit ( ) [inline]
```

Exits the scene instantly.

5.28.3.4 HandleInput()

```
override void MidnightBlue.StarSystemScene.HandleInput ( ) [inline]
```

Handles moving the players ship.

5.28.3.5 Initialize()

```
override void MidnightBlue.StarSystemScene.Initialize ( ) [inline]
```

Ends initializing instantly.

5.28.3.6 Pause()

```
override void MidnightBlue.StarSystemScene.Pause ( ) [inline]
```

Pauses the scene instantly.

5.28.3.7 Resume()

```
override void MidnightBlue.StarSystemScene.Resume ( ) [inline]
```

Resumes the star system scene after leaving a planet. Handles resetting the physics environment, players ship settings and reactivates all planets and the star.

Here is the call graph for this function:



5.28.3.8 Update()

```
override void MidnightBlue.StarSystemScene.Update ( ) [inline]
```

Updates all systems in the game and handles the occurrence of the player entering a planet.

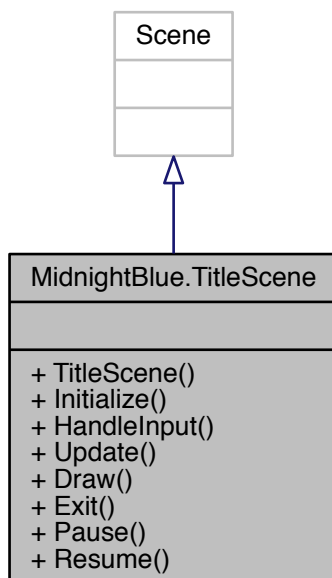
The documentation for this class was generated from the following file:

- `Shared/src/Game/Scenes/StarSystemScene.cs`

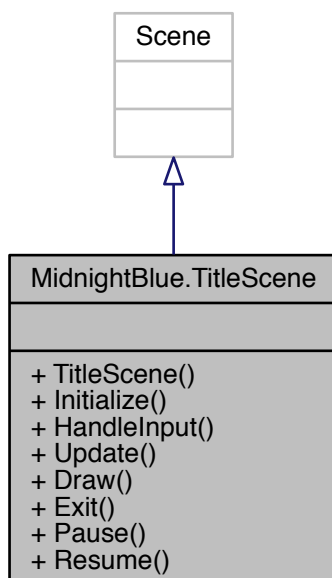
5.29 MidnightBlue.TitleScene Class Reference

The scene shown at the title screen.

Inheritance diagram for MidnightBlue.TitleScene:



Collaboration diagram for MidnightBlue.TitleScene:



Public Member Functions

- [TitleScene](#) (EntityMap map, ContentManager content)
Initializes a new instance of the T:MidnightBlue.TitleScene class.
- override void [Initialize](#) ()
Creates the UIView and starts the background music.
- override void [HandleInput](#) ()
Handles the input for the menu.
- override void [Update](#) ()
Updates the UI
- override void [Draw](#) (SpriteBatch spriteBatch, SpriteBatch uiSpriteBatch)
Draws the UI to the uiSpriteBatch
- override void [Exit](#) ()
Stops the music and quits instantly
- override void [Pause](#) ()
Pauses the title screen, fading music while it does so.
- override void [Resume](#) ()
Resumes the title screen, fading music in while it does so.

5.29.1 Detailed Description

The scene shown at the title screen.

5.29.2 Constructor & Destructor Documentation

5.29.2.1 TitleScene()

```
MidnightBlue.TitleScene.TitleScene (
    EntityMap map,
    ContentManager content ) [inline]
```

Initializes a new instance of the T:MidnightBlue.TitleScene class.

Parameters

<i>map</i>	Game objects.
<i>content</i>	Content manager for loading textures and sounds.

5.29.3 Member Function Documentation

5.29.3.1 Draw()

```
override void MidnightBlue.TitleScene.Draw (
    SpriteBatch spriteBatch,
    SpriteBatch uiSpriteBatch ) [inline]
```

Draws the UI to the uiSpriteBatch

Parameters

<i>spriteBatch</i>	Sprite batch for world-based entities.
<i>uiSpriteBatch</i>	User interface sprite batch.

5.29.3.2 Exit()

```
override void MidnightBlue.TitleScene.Exit ( ) [inline]
```

Stops the music and quits instantly

5.29.3.3 HandleInput()

```
override void MidnightBlue.TitleScene.HandleInput ( ) [inline]
```

Handles the input for the menu.

5.29.3.4 Initialize()

```
override void MidnightBlue.TitleScene.Initialize ( ) [inline]
```

Creates the UIView and starts the background music.

5.29.3.5 Pause()

```
override void MidnightBlue.TitleScene.Pause ( ) [inline]
```

Pauses the title screen, fading music while it does so.

5.29.3.6 Resume()

```
override void MidnightBlue.TitleScene.Resume ( ) [inline]
```

Resumes the title screen, fading music in while it does so.

5.29.3.7 Update()

```
override void MidnightBlue.TitleScene.Update ( ) [inline]
```

Updates the UI

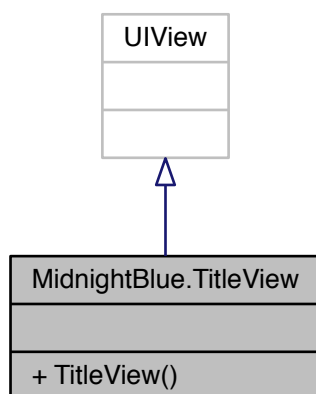
The documentation for this class was generated from the following file:

- Shared/src/Game/Scenes/TitleScene.cs

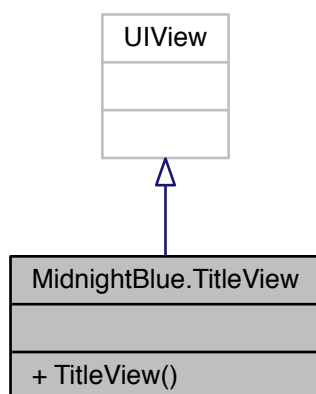
5.30 MidnightBlue.TitleView Class Reference

The title screens UI view

Inheritance diagram for MidnightBlue.TitleView:



Collaboration diagram for MidnightBlue.TitleView:



Public Member Functions

- [TitleView](#) (ContentManager content, EntityMap gameObjects, SceneStack scenes)
Initializes a new instance of the T:MidnightBlue.TitleView class.

5.30.1 Detailed Description

The title screens UI view

5.30.2 Constructor & Destructor Documentation

5.30.2.1 TitleView()

```
MidnightBlue.TitleView.TitleView (
    ContentManager content,
    EntityMap gameObjects,
    SceneStack scenes ) [inline]
```

Initializes a new instance of the T:MidnightBlue.TitleView class.

Parameters

<i>content</i>	Content to load sounds, fonts, and textures from.
<i>gameObjects</i>	Game objects to track.
<i>scenes</i>	Scenes to use in UI interactions.

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

- Shared/src/Game/UIViews/TitleView.cs

