## Zappy GUI

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# **Chapter 1**

# **Hierarchical Index**

## 1.1 Class Hierarchy

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

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std::exception	
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Gui::Player	1
Gui::Render	6
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Gui::Tile	5
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2 Hierarchical Index

# Chapter 2

# **Class Index**

## 2.1 Class List

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

Gui::Errors::AError
Base class for custom error types. This class is derived from the IError interface and provides
a common base for custom error types. It contains a protected member _message to store the
error message
Gui::Egg
Gui::Engine
Gui::Errors::Error
Base class for argument-related errors
Gui::Event
Gui::GameData
Gui::Errors::GuiGameDataException
Error class for GameData errors
Gui::GUIUpdater
Gui::Errors::GuiUpdaterException
Error class for GUIUpdater errors
Gui::Errors::IError
Gui::Inventory
Gui::Network
Gui::Errors::NetworkException
Error class for network errors
Gui::ParseCommandLine
Gui::Errors::ParseCommandLineException
Error class for parseCommandLine errors
Gui::Player
Gui::Render
Gui::ServerParser
Gui::Errors::ServerParserException
Error class for network errors
Gui::Team
Gui::Tile
Gui::UserCamera

4 Class Index

## **Chapter 3**

## **Class Documentation**

## 3.1 Gui::Errors::AError Class Reference

Base class for custom error types. This class is derived from the IError interface and provides a common base for custom error types. It contains a protected member \_message to store the error message.

```
#include <AError.hpp>
```

Inheritance diagram for Gui::Errors::AError:

## 3.2 Gui::Egg Class Reference

## **Public Member Functions**

```
• Egg (size_t id, const std::string &team, std::pair< std::size_t, std::size_t > position)
```

Construct a new Egg object.

• ∼Egg ()

Destroy the Egg object.

• std::size\_t getId () const

Get the Id object.

• std::string getTeam () const

Get the Team object.

std::pair< std::size\_t, std::size\_t > getPosition () const

Get the Position object.

void setId (std::size\_t id)

Set the id object.

• void setTeam (const std::string &team)

Set the team object.

void setPosition (std::pair< std::size\_t, std::size\_t > position)

Set the position object.

## 3.2.1 Constructor & Destructor Documentation

## 3.2.1.1 Egg()

Construct a new Egg object.

#### **Parameters**

id	ld of the egg.
team	Team name of the egg.
position	Position of the egg.

#### Note

The egg is created when a player lays an egg.

The constructor starts the egg animation if implemented.

## 3.2.1.2 ∼Egg()

```
Gui::Egg::∼Egg ( )
```

Destroy the Egg object.

Note

The destructor starts the egg animation if implemented.

## 3.2.2 Member Function Documentation

## 3.2.2.1 getId()

```
std::size_t Gui::Egg::getId ( ) const
```

Get the Id object.

Returns

std::size\_t ld of the egg.

## 3.2.2.2 getPosition()

```
\verb|std::pair<| std::size_t|, | std::size_t| > | Gui::Egg::getPosition () | const| \\
```

Get the Position object.

**Returns** 

std::pair<std::size\_t, std::size\_t> Position of the egg.

## 3.2.2.3 getTeam()

```
std::string Gui::Egg::getTeam ( ) const
```

Get the Team object.

Returns

std::string Team name of the egg.

## 3.2.2.4 setId()

Set the id object.

**Parameters** 

id Id of the egg.

## 3.2.2.5 setPosition()

Set the position object.

**Parameters** 

position	Position of the egg.
----------	----------------------

#### 3.2.2.6 setTeam()

Set the team object.

#### **Parameters**

team Team name of the egg.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/Egg.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/Egg.cpp

## 3.3 Gui::Engine Class Reference

## **Public Member Functions**

• Engine (Network network)

Construct a new Engine object.

• ∼Engine ()=default

Destroy the Engine object.

· void run (void)

Run the engine loop.

## 3.3.1 Constructor & Destructor Documentation

## 3.3.1.1 Engine()

Construct a new Engine object.

#### **Parameters**

network Network class.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Engine/Engine.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Engine/Engine.cpp

## 3.4 Gui::Errors::Error Class Reference

Base class for argument-related errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::Error:

Collaboration diagram for Gui::Errors::Error:

## **Additional Inherited Members**

## 3.4.1 Detailed Description

Base class for argument-related errors.

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp

## 3.5 Gui::Event Class Reference

## **Public Member Functions**

• Event ()

Construct a new Event object.

∼Event ()=default

Destroy the Event object.

· void listen ()

Listen the user's events.

void setRender (std::shared\_ptr< Render > render)

Set the Render object.

## 3.5.1 Member Function Documentation

## 3.5.1.1 setRender()

```
void Gui::Event::setRender (
          std::shared_ptr< Render > render )
```

Set the Render object.

#### **Parameters**

render Render class.

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Event/Event.hpp

/home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Event/Event.cpp

## 3.6 Gui::GameData Class Reference

## **Public Member Functions**

· GameData ()

Construct a new GameData object.

• ∼GameData ()=default

Destroy the GameData object.

std::vector< Gui::Team > & getTeams ()

Get the Teams object.

Gui::Team & getTeam (const std::string &name)

Get a Team object.

void addTeam (const Gui::Team &team)

Add a team to the game.

 void addTeam (const std::string &name, const std::string &playerModelPath, const std::string &eggModel← Path)

Add a team to the game.

void addPlayerToTeam (const std::string &teamName, const Gui::Player &player)

Add a player to a team.

Map< Gui::Tile > & getMap ()

Get the Map object.

void setMap (const Map < Gui::Tile > &map)

Set the Map object.

void setMapSize (size\_t x, size\_t y)

Set the Map Size object.

std::pair< size\_t, size\_t > getMapSize () const

Get the Map Size object.

Gui::Tile & getTile (size\_t x, size\_t y)

Get a Tile object.

void setTile (const Gui::Tile &tile)

Set the Tile object.

void restartLastTick (void)

Restart the last tick clock.

void setServerTick (std::size\_t tick)

Set the Server Tick object.

clock\_t getLastTick () const

Get the Last Tick object.

std::size\_t getServerTick () const

Get the Server Tick object.

• void setIsEndGame (bool isEndGame)

Set the IsEnd Game object.

• bool getIsEndGame () const

Get the IsEnd Game object.

## 3.6.1 Member Function Documentation

## 3.6.1.1 addPlayerToTeam()

Add a player to a team.

#### **Parameters**

teamName	Name of the team.
player	Player to add.

## 3.6.1.2 addTeam() [1/2]

Add a team to the game.

## **Parameters**

```
team Team to add.
```

## 3.6.1.3 addTeam() [2/2]

Add a team to the game.

#### **Parameters**

name	Name of the team.
playerModelPath	Path to the asset of the team for players.
eggModelPath	Path to the asset of the team for eggs.

## 3.6.1.4 getIsEndGame()

```
bool Gui::GameData::getIsEndGame ( ) const
```

Get the IsEnd Game object.

Returns

```
true - The game is finished.
```

false - The game continue.

## 3.6.1.5 getLastTick()

```
clock_t Gui::GameData::getLastTick ( ) const
```

Get the Last Tick object.

Returns

clock\_t - Last Tick.

## 3.6.1.6 getMap()

```
Map< Gui::Tile > & Gui::GameData::getMap ( )
```

Get the Map object.

**Returns** 

Map<Gui::Tile>& Map of the game.

## 3.6.1.7 getMapSize()

```
\verb|std::pair<| \verb|size_t|, \verb|size_t| > \verb|Gui::GameData::getMapSize| ( ) const| \\
```

Get the Map Size object.

Returns

std::pair<size\_t, size\_t> Size of the map.

## 3.6.1.8 getServerTick()

```
std::size_t Gui::GameData::getServerTick ( ) const
```

Get the Server Tick object.

Returns

std::size\_t - Server Tick.

## 3.6.1.9 getTeam()

Get a Team object.

#### **Parameters**

name	Name of the team.
------	-------------------

#### Returns

Gui::Team& Team object.

## 3.6.1.10 getTeams()

```
\verb|std::vector<| Gui::Team| > & Gui::GameData::getTeams| ( )
```

Get the Teams object.

Returns

std::vector<Gui::Team>& Teams of the game.

## 3.6.1.11 getTile()

Get a Tile object.

## **Parameters**

X	X position of the tile	
У	Y position of the tile.	

## Returns

Gui::Tile& Tile object.

## 3.6.1.12 setIsEndGame()

Set the IsEnd Game object.

#### **Parameters**

isEndGame   EndGame state.
----------------------------

## 3.6.1.13 setMap()

Set the Map object.

#### **Parameters**

```
map Map of the game.
```

## 3.6.1.14 setMapSize()

Set the Map Size object.

## **Parameters**

X	X size of the map.
<u>y</u>	Y size of the map.

Note

This method resizes the map.

## 3.6.1.15 setServerTick()

Set the Server Tick object.

#### **Parameters**

## 3.6.1.16 setTile()

Set the Tile object.

#### **Parameters**

Х	X position of the tile.	
У	Y position of the tile.	
tile	Tile to set.	

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/GameData.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/GameData.cpp

## 3.7 Gui::Errors::GuiGameDataException Class Reference

Error class for GameData errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::GuiGameDataException:

 $Collaboration\ diagram\ for\ Gui:: Errors:: Gui Game Data Exception:$ 

## **Public Member Functions**

• GuiGameDataException (std::string message)

Constructor for GuiGameDataException.

## **Additional Inherited Members**

## 3.7.1 Detailed Description

Error class for GameData errors.

#### 3.7.2 Constructor & Destructor Documentation

#### 3.7.2.1 GuiGameDataException()

Constructor for GuiGameDataException.

#### **Parameters**

```
message The error message.
```

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Error/Error.cpp

## 3.8 Gui::GUIUpdater Class Reference

#### **Public Member Functions**

GUIUpdater (std::shared\_ptr< GameData > gameData)

Construct a new GUIUpdater object.

• ∼GUIUpdater ()=default

Destroy the GUIUpdater object.

void update (const std::string &command, const std::vector< std::string > &data)

Update the GUI GameData.

## 3.8.1 Constructor & Destructor Documentation

## 3.8.1.1 GUIUpdater()

Construct a new GUIUpdater object.

#### **Parameters**

	gameData	The GUI GameData to update.
--	----------	-----------------------------

## 3.8.2 Member Function Documentation

#### 3.8.2.1 update()

Update the GUI GameData.

#### **Parameters**

command	The command to update the GUI GameData.
data	The data to update the GUI GameData.

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

- $\bullet \ \ / home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GUIUpdater/GUIUpdater.hpp$
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GUIUpdater/GUIUpdater.cpp

## 3.9 Gui::Errors::GuiUpdaterException Class Reference

Error class for GUIUpdater errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::GuiUpdaterException:

Collaboration diagram for Gui::Errors::GuiUpdaterException:

## **Public Member Functions**

GuiUpdaterException (std::string message)
 Constructor for GuiUpdaterException.

## **Additional Inherited Members**

## 3.9.1 Detailed Description

Error class for GUIUpdater errors.

## 3.9.2 Constructor & Destructor Documentation

## 3.9.2.1 GuiUpdaterException()

Constructor for GuiUpdaterException.

#### **Parameters**

message	The error message.
---------	--------------------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Error/Error.cpp

## 3.10 Gui::Errors::IError Class Reference

Inheritance diagram for Gui::Errors::IError:

Collaboration diagram for Gui::Errors::IError:

#### **Public Member Functions**

virtual ∼IError ()=default

Destructor for IError.

• virtual const char \* what () const noexcept=0

Returns a C-style string describing the error. This function must be implemented by derived classes to provide a description of the error. The returned string should be null-terminated.

## 3.10.1 Member Function Documentation

#### 3.10.1.1 what()

```
virtual const char* Gui::Errors::IError::what ( ) const [pure virtual], [noexcept]
```

Returns a C-style string describing the error. This function must be implemented by derived classes to provide a description of the error. The returned string should be null-terminated.

#### Returns

const char\* A C-style string describing the error.

Implemented in Gui::Errors::AError.

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/IError.hpp

## 3.11 Gui::Inventory Class Reference

## **Public Types**

• using **Ressources** = size t[RessourcesNumber]

## **Public Member Functions**

• Inventory ()

Construct a new Inventory object.

 Inventory (std::size\_t food, std::size\_t linemate, std::size\_t deraumere, std::size\_t sibur, std::size\_t mendiane, std::size\_t phiras, std::size\_t thystame)

Construct a new Inventory object.

• ∼Inventory ()=default

Destroy the Inventory object.

void setFood (std::size\_t food)

Set the Food object.

void setLinemate (std::size\_t linemate)

Set the Linemate object.

void setDeraumere (std::size\_t deraumere)

Set the Deraumere object.

void setSibur (std::size\_t sibur)

Set the Sibur object.

void setMendiane (std::size\_t mendiane)

Set the Mendiane object.

void setPhiras (std::size\_t phiras)

Set the Phiras object.

void setThystame (std::size\_t thytsame)

Set the Thystame object.

void setRessources (Ressources ressources)

Set the Ressources object.

std::size\_t getFood (void)

Get the Food object.

• std::size\_t getLinemate (void)

Get the Linemate object.

• std::size\_t getDeraumere (void)

Get the Deraumere object.

• std::size\_t getSibur (void)

Get the Sibur object.

• std::size\_t getMendiane (void)

Get the Mendiane object.

• std::size\_t getPhiras (void)

Get the Phiras object.

std::size\_t getThystame (void)

Get the Thystame object.

• Ressources & getRessources (void)

Get the Ressources object.

## 3.11.1 Constructor & Destructor Documentation

## 3.11.1.1 Inventory()

Construct a new Inventory object.

#### **Parameters**

food	Food to set.
linemate	Linemate to set.
deraumere	Deraumere to set.
sibur	Sibur to set.
mendiane	Mendiane to set.
phiras	Phiras to set.
thystame	Thystame to set.

## 3.11.2 Member Function Documentation

## 3.11.2.1 getDeraumere()

Get the Deraumere object.

Returns

std::size\_t - deraumere

## 3.11.2.2 getFood()

Get the Food object.

Returns

std::size\_t - food

## 3.11.2.3 getLinemate()

Get the Linemate object.

Returns

std::size\_t - linemate

## 3.11.2.4 getMendiane()

Get the Mendiane object.

Returns

std::size\_t - mendiane

```
3.11.2.5 getPhiras()
```

## 3.11.2.6 getRessources()

Get the Ressources object.

Returns

Ressources - ressources

## 3.11.2.7 getSibur()

Get the Sibur object.

Returns

std::size\_t - sibur

## 3.11.2.8 getThystame()

Get the Thystame object.

Returns

std::size\_t - thystame

## 3.11.2.9 setDeraumere()

Set the Deraumere object.

## **Parameters**

deraumere Deraumere to set.

## 3.11.2.10 setFood()

Set the Food object.

**Parameters** 

food Food to set.

## 3.11.2.11 setLinemate()

Set the Linemate object.

## Parameters

linemate Linemate to set.

## 3.11.2.12 setMendiane()

Set the Mendiane object.

## **Parameters**

mendiane Mendiane to set.

## 3.11.2.13 setPhiras()

Set the Phiras object.

**Parameters** 

```
phiras Phiras to set.
```

## 3.11.2.14 setRessources()

Set the Ressources object.

**Parameters** 

```
ressources Ressources to set.
```

## 3.11.2.15 setSibur()

Set the Sibur object.

**Parameters** 

```
sibur Sibur to set.
```

## 3.11.2.16 setThystame()

Set the Thystame object.

#### **Parameters**

thystame   Thystame to set.
-----------------------------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/Inventory.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/Inventory.cpp

#### **Gui::Network Class Reference** 3.12

#### **Public Member Functions**

Network (int port, const std::string &hostName)

Construct a new Network object.

∼Network ()=default

Destroy the Network object.

void setPort (int port)

Set the port object.

void setHostName (const std::string &hostName)

Set the host name object.

• int getPort () const

Get the port object.

• std::string getHostName () const

Get the host name object.

void connectToServer ()

Connect the Gui network with the server.

const std::string listenServer ()

Listen the server and return it message.

void sendMessageServer (const std::string &message)

Send a message to the Server.

## 3.12.1 Constructor & Destructor Documentation

## 3.12.1.1 Network()

```
Gui::Network::Network (
             int port,
             const std::string & hostName )
```

Construct a new Network object.

#### **Parameters**

port	Port of the server.
hostName	Host of the server.

Generated by Doxygen

## 3.12.2 Member Function Documentation

## 3.12.2.1 getHostName()

```
std::string Gui::Network::getHostName ( ) const
```

Get the host name object.

Returns

const std::string - Host name of the server.

## 3.12.2.2 getPort()

```
int Gui::Network::getPort ( ) const
```

Get the port object.

Returns

const int - Port of the server.

## 3.12.2.3 listenServer()

Listen the server and return it message.

Returns

std::string - Message of the server.

## 3.12.2.4 sendMessageServer()

Send a message to the Server.

#### **Parameters**

## 3.12.2.5 setHostName()

Set the host name object.

#### **Parameters**

hostName Host of the server.

## 3.12.2.6 setPort()

Set the port object.

#### **Parameters**

port Port of the server.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Network/Network.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Network/Network.cpp

## 3.13 Gui::Errors::NetworkException Class Reference

Error class for network errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::NetworkException:

Collaboration diagram for Gui::Errors::NetworkException:

## **Public Member Functions**

NetworkException (std::string message)

Constructor for NetworkException.

## **Additional Inherited Members**

## 3.13.1 Detailed Description

Error class for network errors.

## 3.13.2 Constructor & Destructor Documentation

#### 3.13.2.1 NetworkException()

Constructor for NetworkException.

#### **Parameters**

message	The error message.
---------	--------------------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Error/Error.cpp

## 3.14 Gui::ParseCommandLine Class Reference

## **Public Member Functions**

• ParseCommandLine (int argc, char \*\*argv)

Construct a new Parse Command Line object.

∼ParseCommandLine ()=default

Destroy the Parse Command Line object.

void parseFlags (int argc, char \*\*argv)

Parse flags in command line.

• int getPort (void)

Get the port object.

• std::string getHostName (void)

Get the hostName object.

### 3.14.1 Constructor & Destructor Documentation

### 3.14.1.1 ParseCommandLine()

Construct a new Parse Command Line object.

#### **Parameters**

argc	Number of arguments in command line.
argv	Array with command line arguments.

### 3.14.2 Member Function Documentation

### 3.14.2.1 getHostName()

Get the hostName object.

Returns

std::string - hostName

### 3.14.2.2 getPort()

Get the port object.

Returns

int - port

### 3.14.2.3 parseFlags()

Parse flags in command line.

#### **Parameters**

argc	Number of arguments in command line.
argv	Array with command line arguments.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Parsing/ParseCommandLine.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Parsing/ParseCommandLine.cpp

# 3.15 Gui::Errors::ParseCommandLineException Class Reference

Error class for parseCommandLine errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::ParseCommandLineException:

Collaboration diagram for Gui::Errors::ParseCommandLineException:

#### **Public Member Functions**

ParseCommandLineException (std::string message)
 Constructor for ParseCommandLineException.

# **Additional Inherited Members**

### 3.15.1 Detailed Description

Error class for parseCommandLine errors.

# 3.15.2 Constructor & Destructor Documentation

### 3.15.2.1 ParseCommandLineException()

Constructor for ParseCommandLineException.

#### **Parameters**

message	The error message.
---------	--------------------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Error/Error.cpp

# 3.16 Gui::Player Class Reference

Collaboration diagram for Gui::Player:

# **Public Types**

```
    enum PlayerState {
        IDLE, BORN, BROADCAST, EJECT,
        BEING_EJECTED, WALK, INCANTATION, FINISHED_INCANTATION,
        LAY_EGG, DROP, COLLECT }
```

#### **Public Member Functions**

Player (std::size\_t id, const std::string &team, std::pair< std::size\_t, std::size\_t > position, std::size\_t orientation, std::size\_t level=1)

Construct a new Player object.

• ∼Player ()=default

Destroy the Player object.

void setPosition (std::pair< std::size\_t, std::size\_t > position)

Set the Position object.

void setId (std::size\_t id)

Set the Id object.

void setLevel (std::size t level)

Set the Level object.

void setOrientation (std::size\_t orientation)

Set the Orientation object.

void setTeam (const std::string &team)

Set the Team object.

std::pair< std::size\_t, std::size\_t > getPosition (void) const

Get the Position object.

• std::size\_t getId (void) const

Get the Id object.

std::size\_t getLevel (void) const

Get the Level object.

• std::size\_t getOrientation (void) const

Get the Orientation object.

std::string getTeam (void) const

Get the Team object.

• void setState (PlayerState state)

Set the State object.

• PlayerState getState (void) const

Get the State object.

### **Public Attributes**

Inventory inventory
 Inventory of the player.

### 3.16.1 Constructor & Destructor Documentation

### 3.16.1.1 Player()

Construct a new Player object.

#### **Parameters**

id	ld of the player.
team	Team name of the player.
position	Position of the Player.

### 3.16.2 Member Function Documentation

# 3.16.2.1 getId()

Get the Id object.

#### Returns

std::size\_t - id

### 3.16.2.2 getLevel()

Get the Level object.

Returns

std::size\_t - level

### 3.16.2.3 getOrientation()

Get the Orientation object.

Returns

std::size\_t - orientation

### 3.16.2.4 getPosition()

Get the Position object.

Returns

 $std::pair{<}std::size\_t, \ std::size\_t{>} \ - \ position$ 

# 3.16.2.5 getState()

Get the State object.

Returns

PlayerState - Player state.

# 3.16.2.6 getTeam()

Get the Team object.

Returns

std::string - team name

### 3.16.2.7 setId()

Set the Id object.

**Parameters** 

id Id of the player.

# 3.16.2.8 setLevel()

Set the Level object.

**Parameters** 

level Level of the player.

# 3.16.2.9 setOrientation()

Set the Orientation object.

#### **Parameters**

orientation	Orientation of the player.
-------------	----------------------------

### 3.16.2.10 setPosition()

Set the Position object.

#### **Parameters**

### 3.16.2.11 setState()

Set the State object.

### **Parameters**

```
state New player state.
```

### 3.16.2.12 setTeam()

Set the Team object.

### **Parameters**

team Team name of the player.

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

- $\bullet \ \ / home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/Player.hpp$
- $\bullet \ \ / home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/Player.cpp$

# 3.17 Gui::Render Class Reference

### **Public Member Functions**

```
    Render (std::shared_ptr< GameData > gameData)
        Construct a new Render object.
    ~Render ()
        Destroy the Render object.
    bool isOpen ()
        Check if the window is open.
    void draw ()
        Draw the scene.
    std::shared_ptr< Camera > getCamera ()
        Get the Camera object.
    void setIsDebug (bool isDebug)
        Set the Is Debug object.
    bool getIsDebug (void)
```

### 3.17.1 Member Function Documentation

Get the Is Debug object.

### 3.17.1.1 getCamera()

```
std::shared_ptr< Camera > Gui::Render::getCamera ( )
Get the Camera object.

Returns
    std::shared_ptr<Camera> - camera
```

# 3.17.1.2 getIsDebug()

false - do not display debug

### 3.17.1.3 isOpen()

```
bool Gui::Render::isOpen ( )
```

Check if the window is open.

#### Returns

```
true - the window is open false - the window is closed
```

### 3.17.1.4 setIsDebug()

Set the Is Debug object.

#### **Parameters**

SDebug New Is Debug value to set.	isDebug
-----------------------------------	---------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Render/Render.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Render/Render.cpp

# 3.18 Gui::ServerParser Class Reference

# **Public Types**

enum ParseType { INT , STRING , MESSAGE , LIST\_INT }
 Enum of types to parse.

# **Public Member Functions**

• ServerParser ()=default

Construct a new Server Parser object.

∼ServerParser ()=default

Destroy the Server Parser object.

• std::vector< std::string > parse (const std::string &command)

Parse the command server.

### 3.18.1 Member Function Documentation

### 3.18.1.1 parse()

Parse the command server.

**Parameters** 

command	Command to parse.
---------	-------------------

#### Returns

```
std::vector<std::string> - arguments parsed
```

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Parsing/ServerParser.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Parsing/ServerParser.cpp

# 3.19 Gui::Errors::ServerParserException Class Reference

Error class for network errors.

```
#include <Error.hpp>
```

Inheritance diagram for Gui::Errors::ServerParserException:

Collaboration diagram for Gui::Errors::ServerParserException:

# **Public Member Functions**

ServerParserException (std::string message)
 Constructor for ServerParserException.

### **Additional Inherited Members**

### 3.19.1 Detailed Description

Error class for network errors.

# 3.19.2 Constructor & Destructor Documentation

# 3.19.2.1 ServerParserException()

Constructor for ServerParserException.

#### **Parameters**

message	The error message.
---------	--------------------

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Error/Error.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Error/Error.cpp

# 3.20 Gui::Team Class Reference

### **Public Member Functions**

• Team (const std::string &name, const std::string &playerModelPath, const std::string &eggModelPath)

Construct a new Team object.

~Team ()

Destroy the Team object.

• const std::string & getName () const

Get the Name object.

std::vector< Gui::Player > & getPlayers ()

Get the Players object.

std::vector< Gui::Egg > & getEggs ()

Get the Eggs object.

void setName (const std::string &name)

Set the Name object.

• void addPlayer (const Gui::Player &player)

Add a player to the team.

void addEgg (const Gui::Egg &egg)

Add an egg to the team.

• bool removePlayer (std::size t id)

Remove a player from the team.

bool removeEgg (std::size\_t id)

Remove an egg from the team.

• std::shared\_ptr< Gui::Player > getPlayer (std::size\_t id)

Get the Player object.

• Model getPlayerModel () const

Get the Model object.

• void setPlayerModelPath (const std::string &playerModelPath)

Set the Model object.

std::shared\_ptr< Gui::Egg > getEgg (std::size\_t id)

Get the Egg object.

• Model getEggModel () const

Get the Egg Model Path object.

void setEggModelPath (const std::string &eggModelPath)

Set the Egg Model Path object.

### 3.20.1 Constructor & Destructor Documentation

### 3.20.1.1 Team()

Construct a new Team object.

#### **Parameters**

name	Name of the team.
playerModelPath	Path to the team model asset for players.
eggSkinPath	Path to the skin of the team.

### 3.20.2 Member Function Documentation

### 3.20.2.1 addEgg()

Add an egg to the team.

#### **Parameters**

```
egg Egg to add.
```

# 3.20.2.2 addPlayer()

Add a player to the team.

### **Parameters**

player	Player to add.

### 3.20.2.3 getEgg()

Get the Egg object.

**Parameters** 

```
id Id of the egg.
```

#### Returns

```
std::shared_ptr<Gui::Egg> Egg.
```

### 3.20.2.4 getEggModel()

```
Model Gui::Team::getEggModel ( ) const
```

Get the Egg Model Path object.

### Returns

const std::string& Path to the eggs Model of the team.

### 3.20.2.5 getEggs()

```
std::vector< Gui::Egg > & Gui::Team::getEggs ( )
```

Get the Eggs object.

### Returns

std::vector<Gui::Egg>& Eggs of the team.

### 3.20.2.6 getName()

```
const std::string & Gui::Team::getName ( ) const
```

Get the Name object.

Returns

const std::string& Name of the team.

# 3.20.2.7 getPlayer()

Get the Player object.

#### **Parameters**

```
id Id of the player.
```

### Returns

std::shared\_ptr<Gui::Player> Player.

### 3.20.2.8 getPlayerModel()

Get the Model object.

Returns

Model - Model asset of the Team.

# 3.20.2.9 getPlayers()

```
std::vector< Gui::Player > & Gui::Team::getPlayers ( )
```

Get the Players object.

Returns

std::vector<Gui::Player>& Players of the team.

### 3.20.2.10 removeEgg()

Remove an egg from the team.

### **Parameters**

```
id Id of the egg to remove.
```

#### Returns

true If the egg has been removed. false If the egg has not been removed.

### 3.20.2.11 removePlayer()

Remove a player from the team.

#### **Parameters**

id Id of the player to remove.

### Returns

true If the player has been removed. false If the player has not been removed.

### 3.20.2.12 setEggModelPath()

Set the Egg Model Path object.

### **Parameters**

eaaSkinPath	Path to the eggs Model of the team.
cggoniii aiii	i atti to the eggs Model of the teath.

### 3.20.2.13 setName()

Set the Name object.

**Parameters** 

name Name of the team.

### 3.20.2.14 setPlayerModelPath()

Set the Model object.

**Parameters** 

playerModelPath | Path to the team model asset for players.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/Team.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/Team.cpp

### 3.21 Gui::Tile Class Reference

Collaboration diagram for Gui::Tile:

### **Public Member Functions**

```
    Tile (std::pair< std::size_t, std::size_t > position)
```

Construct a new Tile object.

• Tile (std::pair< std::size\_t, std::size\_t > position, Inventory inventory)

Construct a new Tile object.

∼Tile ()=default

Destroy the Tile object.

void setPosition (std::pair< std::size\_t, std::size\_t > position)

Set the Position object.

std::pair< std::size\_t, std::size\_t > getPosition (void) const

Get the Position object.

Vector3 getPositionIn3DSpace (void)

Get the Position In Space object.

### **Public Attributes**

• Inventory inventory

Inventory of the tile.

### 3.21.1 Constructor & Destructor Documentation

```
3.21.1.1 Tile() [1/2]
```

Construct a new Tile object.

#### **Parameters**

position   Set the position of the tile	<del>)</del> .
---	----------------

# 3.21.1.2 Tile() [2/2]

Construct a new Tile object.

### **Parameters**

position	Set the position of the tile.
inventory	Set the inventory of the tile.

### 3.21.2 Member Function Documentation

## 3.21.2.1 getPosition()

Get the Position object.

#### Returns

```
std::pair<std::size_t, std::size_t> - position x y
```

### 3.21.2.2 getPositionIn3DSpace()

Get the Position In Space object.

#### Returns

Vector3 - Position in space.

### 3.21.2.3 setPosition()

Set the Position object.

#### **Parameters**

position New position of the tile.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/GameDatas/Tile.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/GameDatas/Tile.cpp

### 3.22 Gui::UserCamera Class Reference

### **Public Member Functions**

• UserCamera ()

Construct a new User Camera object.

•  $\sim$ UserCamera ()=default

Destroy the User Camera object.

void setPosition (Vector3 position)

Set the Position object.

void setTarget (Vector3 target)

Set the Target object.

```
    void setUp (Vector3 up)
```

Set the Up object.

void setFovy (float fovy)

Set the Fovy object.

• Vector3 getPosition (void) const

Get the Position object.

Vector3 getTarget (void) const

Get the Target object.

Vector3 getUp (void) const

Get the Up object.

• float getFovy (void) const

Get the Fovy object.

std::shared\_ptr< Camera > getCamera ()

Get the Camera object.

### 3.22.1 Member Function Documentation

### 3.22.1.1 getCamera()

```
std::shared_ptr< Camera > Gui::UserCamera::getCamera ( )
```

Get the Camera object.

Returns

Camera - camera

### 3.22.1.2 getFovy()

Get the Fovy object.

Returns

float - fovy

### 3.22.1.3 getPosition()

Get the Position object.

Returns

Vector3 - position

### 3.22.1.4 getTarget()

Get the Target object.

Returns

Vector3 - target

### 3.22.1.5 getUp()

Get the Up object.

Returns

Vector3 - up

### 3.22.1.6 setFovy()

Set the Fovy object.

**Parameters** 

fovy New camera fovy.

### 3.22.1.7 setPosition()

Set the Position object.

**Parameters** 

position | New camera position.

### 3.22.1.8 setTarget()

Set the Target object.

**Parameters** 

target New camera target.

### 3.22.1.9 setUp()

Set the Up object.

### Parameters

up New camera up vector.

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

- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/include/Render/UserCamera.hpp
- /home/tjerome-rocher/Desktop/Tek2/Zappy/gui/src/Render/UserCamera.cpp

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