

zappy\_gui

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# Chapter 1

## Hierarchical Index

### 1.1 Class Hierarchy

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## Chapter 2

# Class Index

### 2.1 Class List

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## Chapter 3

# Class Documentation

### 3.1 gui::Argument Class Reference

#### Public Member Functions

- **Argument** (const uint16\_t p, std::string h)

#### Public Attributes

- const uint16\_t **port**
- const std::string **hostName**

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

- include/GUI/Argument.hpp

### 3.2 myLib::Clock Class Reference

#### Public Member Functions

- void **restart** ()
- void **pause** ()
- void **resume** ()
- **Time** **getElapsedTime** () const

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

- lib/static/myLib/include/myLib/Clock/Clock.hpp

### 3.3 gui::Gui Class Reference

#### Public Types

- enum class **RendererMode** { **GAME** , **SETTINGS** }

#### Public Member Functions

- **Gui** (const [Argument](#) &args)
- std::unique\_ptr< [IRenderer](#) > & **getRenderer** ()
- void **Run** ()

#### Static Public Member Functions

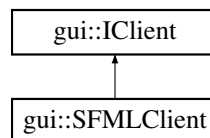
- static std::vector< std::string > **getData** (const std::string &data)

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

- include/GUI/Gui.hpp

### 3.4 gui::IClient Class Reference

Inheritance diagram for gui::IClient:



#### Public Member Functions

- virtual bool **connect** (uint16\_t port, const std::string &machineName)=0
- virtual void **disconnect** ()=0
- virtual bool **sendCommand** (const std::string &cmd)=0
- virtual bool **getResponse** (const std::string &cmd)=0
- virtual std::string **getResponse** ()=0
- virtual bool **isConnected** ()=0

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

- include/GUI/Abstraction/IClient.hpp

## 3.5 gui::Inventory Class Reference

### Public Member Functions

- **Inventory** ([Resource](#) food, [Resource](#) linemate, [Resource](#) deraumere, [Resource](#) sibur, [Resource](#) mendiane, [Resource](#) phiras, [Resource](#) thystame)
- **Inventory** (std::vector< [Resource](#) > resources)

### Public Attributes

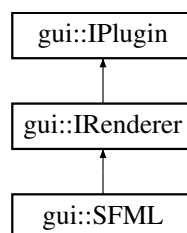
- std::vector< [Resource](#) > **resources**

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

- include/GUI/Inventory/Inventory.hpp

## 3.6 gui::IPlugin Class Reference

Inheritance diagram for gui::IPlugin:



### Public Member Functions

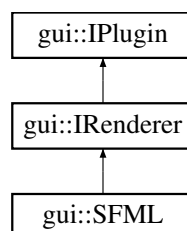
- virtual std::string **getPluginName** () const =0

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

- include/GUI/Abstraction/IPlugin.hpp

## 3.7 gui::IRenderer Class Reference

Inheritance diagram for gui::IRenderer:



## Public Member Functions

- virtual void **setFPS** (unsigned int FPS)=0
- virtual [IClient](#) & **getClient** ()=0
- virtual bool **isRunning** ()=0
- virtual void **init** (const std::string &name, std::pair< const unsigned int, const unsigned int > resolution, unsigned int bitsPerPixel)=0
- virtual void **render** ()=0
- virtual KeyBoard::Key **getEvents** ()=0
- virtual void **close** ()=0

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

- include/GUI/Abstraction/IRenderer.hpp

## 3.8 gui::KeyBoard Class Reference

### Public Types

- enum **Key** {  
**NONE** = -1 , **CLOSE** = 0 , **KEY\_LEFT** = 1 , **KEY\_RIGHT** = 2 ,  
**KEY\_UP** = 3 , **KEY\_DOWN** = 4 , **KEY\_SPACE** = 5 , **KEY\_ENTER** = 6 ,  
**KEY\_ESCAPE** = 7 , **COUNT** = 8 }

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

- include/GUI/KeyBoard.hpp

## 3.9 gui::Map Class Reference

### Public Member Functions

- **Map** (unsigned int width, unsigned int height)
- unsigned int **getWidth** () const
- unsigned int **getHeight** () const

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

- lib/shared/Renderer/SFML/include/GUI/Map.hpp

## 3.10 gui::Mob Class Reference

### Public Types

- enum class **Action** { **MOVE** , **FEED** , **ELEVATE** , **NONE** }

## Public Member Functions

- Action **getAction** () const
- [Inventory](#) & **getInventory** ()
- Position & **getPosition** ()
- unsigned int **getLevel** () const
- void **setAction** (const Action &action)
- void **levelUp** ()

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

- lib/shared/Renderer/SFML/include/GUI/Mob.hpp

## 3.11 gui::Parser Class Reference

### Classes

- class [ParserException](#)

### Static Public Member Functions

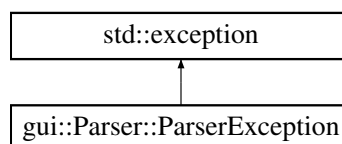
- static [Argument](#) **ParseArgs** (int argc, char \*const argv[])
- static uint16\_t **ParsePort** (const char \*port)
- static std::string **ParseMachineName** (const char \*machineName)

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

- include/GUI/Parser.hpp

## 3.12 gui::Parser::ParserException Class Reference

Inheritance diagram for gui::Parser::ParserException:



## Public Member Functions

- **ParserException** (std::string msg)
- **ParserException** (const [ParserException](#) &)=delete
- [ParserException](#) & **operator=** (const [ParserException](#) &)=delete
- **ParserException** (const [ParserException](#) &&)=delete
- [ParserException](#) & **operator=** (const [ParserException](#) &&)=delete
- const char \* **what** () const noexcept override

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

- include/GUI/Parser.hpp

### 3.13 gui::PluginLoader Class Reference

#### Classes

- class [PluginLoaderException](#)

#### Public Types

- using **PluginCreator** = std::unique\_ptr< [IPlugin](#) >(\*)()

#### Public Member Functions

- template<typename T >  
std::unique\_ptr< T > **getPlugin** (const std::string &pluginName)
- void **closePlugins** ()

#### Static Public Member Functions

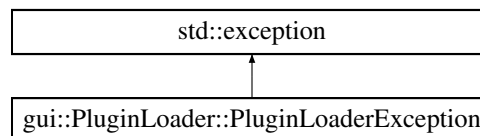
- static [PluginLoader](#) & **getInstance** ()

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

- include/GUI/PluginLoader.hpp

### 3.14 gui::PluginLoader::PluginLoaderException Class Reference

Inheritance diagram for gui::PluginLoader::PluginLoaderException:



#### Public Member Functions

- **PluginLoaderException** (std::string msg)
- const char \* **what** () const noexcept override

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

- include/GUI/PluginLoader.hpp

## 3.15 gui::Protocol Class Reference

### Static Public Member Functions

- static std::string **getCommand** (ProtocolKey key)
- static ProtocolKey **getKey** (const std::string &command)

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

- include/GUI/Protocol.hpp

## 3.16 myLib::Random Class Reference

### Static Public Member Functions

- static int **randomInt** (int min, int max)
- static int **randomInt** ()
- static float **randomFloat** (float min, float max)
- static float **randomFloat** ()

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

- lib/static/myLib/include/myLib/Random.hpp

## 3.17 gui::Resource Class Reference

### Public Types

- enum class **Type** {  
    **FOOD** , **LINEMATE** , **DERAUMERE** , **SIBUR** ,  
    **MENDIANE** , **PHIRAS** , **THYSTAME** , **NONE** }

### Public Member Functions

- **Resource** (Type type, unsigned int quantity)
- bool **operator==** (const [Resource](#) &resource) const

### Public Attributes

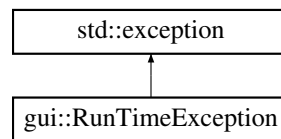
- Type **type**
- double **density**
- unsigned int **quantity**

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

- include/GUI/Inventory/Resource.hpp

### 3.18 gui::RunTimeException Class Reference

Inheritance diagram for gui::RunTimeException:



#### Public Member Functions

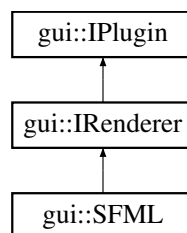
- **RunTimeException** (std::string msg)
- **RunTimeException** (const [RunTimeException](#) &)=delete
- [RunTimeException](#) & **operator=** (const [RunTimeException](#) &)=delete
- **RunTimeException** (const [RunTimeException](#) &&)=delete
- [RunTimeException](#) & **operator=** (const [RunTimeException](#) &&)=delete
- const char \* **what** () const noexcept override

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

- include/GUI/RunTimeException.hpp

### 3.19 gui::SFML Class Reference

Inheritance diagram for gui::SFML:



#### Public Member Functions

- void **setFPS** (const unsigned int FPS) override
- std::string **getPluginName** () const override
- [IClient](#) & **getClient** () override
- KeyBoard::Key **getEvents** () override
- bool **isRunning** () override
- void **init** (const std::string &name, std::pair< const unsigned int, const unsigned int > resolution, unsigned int bitsPerPixel) override
- void **close** () override
- void **render** () override
- bool **checkConnection** (sf::Clock clock)



## Static Public Member Functions

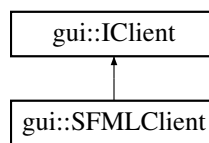
- static Keyboard::Key **getKeyboardEvent** (const sf::Event &event)

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

- lib/shared/Renderer/SFML/include/GUI/SFML.hpp

## 3.20 gui::SFMLClient Class Reference

Inheritance diagram for gui::SFMLClient:



## Public Member Functions

- bool **connect** (uint16\_t port, const std::string &machineName) override
- void **disconnect** () override
- bool **sendCommand** (const std::string &cmd) override
- bool **getResponse** (const std::string &cmd) override
- std::string **getResponse** () override
- bool **isConnected** () override

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

- lib/shared/Renderer/SFML/include/GUI/SFMLClient.hpp

## 3.21 myLib::Time Class Reference

## Public Member Functions

- **Time** (const double seconds)
- int **asSeconds** () const
- int **asMilliseconds** () const
- int **asMicroseconds** () const

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

- lib/static/myLib/include/myLib/Clock/Time.hpp



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