arcade

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Namespace Index

1.1 Namespace List

Here is a list of all documented namespaces with brief description	s:

Arcade

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Hierarchical Index

2.1 Class Hierarchy

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

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Arcade::RuntimeException	
cade::IGame	13
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Class Index

3.1 Class List

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

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Game Interface	13
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File Index

4.1 File List

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

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Core/include/Core.hpp	
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Namespace Documentation

5.1 Arcade Namespace Reference

Main namespace for the Arcade project.

Classes

· class IGame

Game Interface.

· class IRenderer

Graphic Interface.

· class Core

Core class.

class RuntimeException

RuntimeException class.

• class Sdl2

Sdl2 class.

• class Ncurses

Ncurses class.

· class Sfml

Sfml class.

Enumerations

```
• enum class CoreMode { GAME , MENU , PAUSE , QUIT }
```

```
    enum class GameMode {
    GAME , GAME_OVER , MENU , PAUSE ,
    QUIT }
```

```
enum class GameEvent {UP , DOWN , LEFT , RIGHT ,SHOOT , PAUSE , QUIT , NONE }
```

Enum for the GameEvent.

5.1.1 Detailed Description

Main namespace for the Arcade project.

5.1.2 Enumeration Type Documentation

5.1.2.1 GameEvent

```
enum Arcade::GameEvent [strong]
```

Enum for the GameEvent.

Set of enum used for the game event

Class Documentation

6.1 Arcade::Core Class Reference

Core class.

#include <Core.hpp>

Classes

• class CoreException

CoreException class.

Public Member Functions

- Core (const Core &)=delete
- Core & operator= (const Core &)=delete
- void parser (const std::string &path)
- int runArcade (const std::string &path)
- void gameLoop ()

Game loop.

- void handleEvents (const GameEvent &event)
- void setMode (const CoreMode &gameMode)

Set the mode object.

• void closeWindow ()

6.1.1 Detailed Description

Core class.

Core class for the Arcade project

6.1.2 Member Function Documentation

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6.1.2.1 gameLoop()

```
void Arcade::Core::gameLoop ( )
```

Game loop.

Main game loop

6.1.2.2 setMode()

Set the mode object.

Parameters

gameMode

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

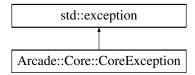
Core/include/Core.hpp

6.2 Arcade::Core::CoreException Class Reference

CoreException class.

```
#include <Core.hpp>
```

Inheritance diagram for Arcade::Core::CoreException:



Public Member Functions

- CoreException (std::string msg)
- CoreException (CoreException const &)=delete
- const char * what () const noexcept override

6.2.1 Detailed Description

CoreException class.

Exception class for the Core class

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

• Core/include/Core.hpp

6.3 Arcade::IGame Class Reference

Game Interface.

#include <abstractions/IGame.hpp>

Public Member Functions

- IGame (const IGame &)=delete
- IGame & operator= (const IGame &)=delete

6.3.1 Detailed Description

Game Interface.

Set of method to implement for the business logic of the Arcade project

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

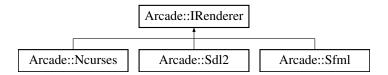
Core/include/abstractions/IGame.hpp

6.4 Arcade::IRenderer Class Reference

Graphic Interface.

#include <abstractions/IRenderer.hpp>

Inheritance diagram for Arcade::IRenderer:



Public Member Functions

- IRenderer (const IRenderer &)=delete
- IRenderer & operator= (const IRenderer &)=delete
- virtual GameEvent getEvent ()=0

Get the event object.

• virtual void displayWindow ()=0

display actual window

virtual void clearWindow ()=0

clear actual window

• virtual void closeWindow ()=0

close actual window

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6.4.1 Detailed Description

Graphic Interface.

Set of method to implement for the business logic of the Arcade project

6.4.2 Member Function Documentation

6.4.2.1 getEvent()

```
virtual GameEvent Arcade::IRenderer::getEvent ( ) [pure virtual]
```

Get the event object.

Returns

GameEvent

Implemented in Arcade::Sfml, Arcade::Sdl2, and Arcade::Ncurses.

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

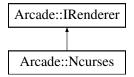
Core/include/abstractions/IRenderer.hpp

6.5 Arcade::Ncurses Class Reference

Ncurses class.

```
#include <Ncurses.hpp>
```

Inheritance diagram for Arcade::Ncurses:



Public Member Functions

- Ncurses (const Ncurses &)=delete
- Ncurses & operator= (const Ncurses &)=delete
- GameEvent getEvent () override

Get the event object.

· void displayWindow () override

display actual window

• void clearWindow () override

clear actual window

· void closeWindow () override

close actual window

6.5.1 Detailed Description

Ncurses class.

Ncurses class for the Arcade project

6.5.2 Member Function Documentation

6.5.2.1 getEvent()

```
GameEvent Arcade::Ncurses::getEvent ( ) [override], [virtual]
```

Get the event object.

Returns

GameEvent

Implements Arcade::IRenderer.

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

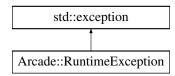
• Graphics/NCurses/include/Ncurses.hpp

6.6 Arcade::RuntimeException Class Reference

RuntimeException class.

```
#include <RuntimeException.hpp>
```

Inheritance diagram for Arcade::RuntimeException:



Public Member Functions

- RuntimeException (std::string msg)
- RuntimeException (RuntimeException const &)=delete
- · const char * what () const noexcept override

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6.6.1 Detailed Description

RuntimeException class.

RuntimeException class for the Arcade project

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

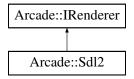
• Core/include/RuntimeException.hpp

6.7 Arcade::Sdl2 Class Reference

Sdl2 class.

```
#include <Sdl2.hpp>
```

Inheritance diagram for Arcade::Sdl2:



Public Member Functions

- Sdl2 (const Sdl2 &)=delete
- Sdl2 & operator= (const Sdl2 &)=delete
- GameEvent getEvent () override

Get the event object.

• void displayWindow () override

display actual window

· void clearWindow () override

clear actual window

• void closeWindow () override

close actual window

6.7.1 Detailed Description

Sdl2 class.

Sdl2 class for the Arcade project

6.7.2 Member Function Documentation

6.7.2.1 getEvent()

```
GameEvent Arcade::Sdl2::getEvent ( ) [override], [virtual]
```

Get the event object.

Returns

GameEvent

Implements Arcade::IRenderer.

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

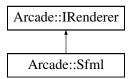
• Graphics/SDL2/include/Sdl2.hpp

6.8 Arcade::Sfml Class Reference

Sfml class.

```
#include <Sfml.hpp>
```

Inheritance diagram for Arcade::Sfml:



Public Member Functions

- Sfml (const Sfml &)=delete
- Sfml & operator= (const Sfml &)=delete
- GameEvent getEvent () override

Get the event object.

• void displayWindow () override

display actual window

· void clearWindow () override

clear actual window

• void closeWindow () override

close actual window

6.8.1 Detailed Description

Sfml class.

Sfml class for the Arcade project

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6.8.2 Member Function Documentation

6.8.2.1 getEvent()

```
GameEvent Arcade::Sfml::getEvent ( ) [override], [virtual]
```

Get the event object.

Returns

GameEvent

Implements Arcade::IRenderer.

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

• Graphics/SFML/include/Sfml.hpp

File Documentation

7.1 Core/include/abstractions/IGame.hpp File Reference

File declaring Game Interface.

Classes

• class Arcade::IGame

Game Interface.

Namespaces

Arcade

Main namespace for the Arcade project.

7.1.1 Detailed Description

File declaring Game Interface.

7.2 Core/include/abstractions/IRenderer.hpp File Reference

File declaring Graphic Interface.

```
#include "Enum.hpp"
```

Classes

· class Arcade::IRenderer

Graphic Interface.

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Namespaces

• Arcade

Main namespace for the Arcade project.

7.2.1 Detailed Description

File declaring Graphic Interface.

7.3 Core/include/Core.hpp File Reference

File declaring Core.

```
#include <iostream>
#include <exception>
#include <memory>
#include "Enum.hpp"
#include "abstractions/IRenderer.hpp"
```

Classes

· class Arcade::Core

Core class.

• class Arcade::Core::CoreException

CoreException class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.3.1 Detailed Description

File declaring Core.

7.4 Core/include/Enum.hpp File Reference

File declaring Enum.

Namespaces

Arcade

Main namespace for the Arcade project.

Enumerations

```
    enum class CoreMode { GAME , MENU , PAUSE , QUIT }
    enum class GameMode {
        GAME , GAME_OVER , MENU , PAUSE ,
        QUIT }
    enum class Arcade::GameEvent {
        UP , DOWN , LEFT , RIGHT ,
        SHOOT , PAUSE , QUIT , NONE }
        Enum for the GameEvent.
```

7.4.1 Detailed Description

File declaring Enum.

Set of enum used in the Arcade project

7.5 Core/include/RuntimeException.hpp File Reference

File declaring RuntimeException.

```
#include <iostream>
#include <exception>
```

Classes

• class Arcade::RuntimeException RuntimeException class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.5.1 Detailed Description

File declaring RuntimeException.

7.6 Graphics/NCurses/include/Ncurses.hpp File Reference

File declaring Ncurses.

```
#include <ncurses.h>
#include <string_view>
#include "abstractions/IRenderer.hpp"
```

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Classes

· class Arcade::Ncurses

Ncurses class.

Namespaces

Arcade

Main namespace for the Arcade project.

Variables

• constexpr std::string_view WINDOW_TITLE = "Arcade - NCurses\n"

7.6.1 Detailed Description

File declaring Ncurses.

7.7 Graphics/SDL2/include/Sdl2.hpp File Reference

File declaring Sdl2 class.

```
#include <iostream>
#include <SDL2/SDL.h>
#include "abstractions/IRenderer.hpp"
```

Classes

• class Arcade::Sdl2 Sdl2 class.

Namespaces

Arcade

Main namespace for the Arcade project.

Variables

• constexpr std::string_view WINDOW_TITLE = "Arcade - SDL2"

7.7.1 Detailed Description

File declaring Sdl2 class.

7.8 Graphics/SFML/include/Sfml.hpp File Reference

File declaring Sfml class.

```
#include <SFML/Graphics.hpp>
#include "abstractions/IRenderer.hpp"
```

Classes

• class Arcade::Sfml Sfml class.

Namespaces

Arcade

Main namespace for the Arcade project.

Variables

• constexpr std::string_view WINDOW_TITLE = "Arcade - SFML"

7.8.1 Detailed Description

File declaring Sfml class.

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