arcade

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# **Chapter 1**

# Namespace Index

## 1.1 Namespace List

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

Arcade

2 Namespace Index

# Chapter 2

# **Hierarchical Index**

## 2.1 Class Hierarchy

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

cade::Core
d::exception
Arcade::Core::CoreException
Arcade::RuntimeException
cade::IGame
cade::IRenderer
Arcade::Ncurses
Arcade::Sdl2
Arcade::Sfml
cade::ISprite

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# **Chapter 3**

# **Class Index**

## 3.1 Class List

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

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Game Interface	. 14
Arcade::IRenderer	
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RuntimeException class	. 26
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Sdl2 class	. 26
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# **Chapter 4**

# File Index

## 4.1 File List

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

Core/include/Arcade/Constants.hpp
File containing constant values used in the Arcade project
Core/include/Arcade/Core.hpp
File declaring Core
Core/include/Arcade/Enum.hpp
File declaring Enum
Core/include/Arcade/RuntimeException.hpp
File declaring RuntimeException
Core/include/Arcade/abstractions/IGame.hpp
File declaring Game Interface
Core/include/Arcade/abstractions/IRenderer.hpp
File declaring Graphic Interface
Core/include/Arcade/abstractions/ISprite.hpp
File declaring Sprite Interface
Graphics/NCurses/include/Arcade/Ncurses.hpp
File declaring Ncurses
Graphics/SDL2/include/Arcade/Sdl2.hpp
File declaring Sdl2 class
Graphics/SFML/include/Arcade/Sfml.hpp
File declaring Sfml class

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## **Chapter 5**

# **Namespace Documentation**

## 5.1 Arcade Namespace Reference

Main namespace for the Arcade project.

## **Classes**

· class IGame

Game Interface.

• class IRenderer

Graphic Interface.

· class ISprite

Sprite Interface.

· class Core

Core class.

• class RuntimeException

RuntimeException class.

• class Sdl2

Sdl2 class.

• class Ncurses

Ncurses class.

• class Sfml

Sfml class.

## **Enumerations**

QUIT }

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

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

## **Chapter 6**

## **Class Documentation**

## 6.1 Arcade::Core Class Reference

Core class.

#include <Arcade/Core.hpp>

## Classes

• class CoreException

CoreException class.

## **Public Member Functions**

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

parse arguments

• int runArcade (const std::string &path)

Run Arcade.

• void gameLoop ()

Game loop.

· void handleEvents (const GameEvent &event)

Handle events.

• void setMode (const CoreMode &gameMode)

Set the game mode.

· void closeWindow ()

close the window

• void loadGraphic ()

load graphic

• void displayMenu ()

display menu

## 6.1.1 Detailed Description

Core class.

Core class for the Arcade project

## 6.1.2 Member Function Documentation

## 6.1.2.1 gameLoop()

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

Game loop.

Main game loop

## 6.1.2.2 handleEvents()

Handle events.

**Parameters** 

event

## 6.1.2.3 parser()

parse arguments

**Parameters** 

path

## 6.1.2.4 runArcade()

```
int Arcade::Core::runArcade (
```

```
const std::string & path )

Run Arcade.

Parameters

path

Returns
```

## 6.1.2.5 setMode()

int

Set the game mode.

#### **Parameters**

gameMode

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

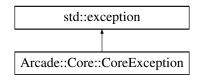
• Core/include/Arcade/Core.hpp

## 6.2 Arcade::Core::CoreException Class Reference

CoreException class.

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

Inheritance diagram for Arcade::Core::CoreException:



## **Public Member Functions**

- CoreException (std::string msg)
- CoreException (const CoreException &)=delete
- CoreException & operator= (const CoreException &)=delete
- CoreException (const CoreException &&)=delete
- CoreException & operator= (const CoreException &&)=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/Arcade/Core.hpp

## 6.3 Arcade::IGame Class Reference

Game Interface.

#include <Arcade/abstractions/IGame.hpp>

## **Public Member Functions**

- IGame (const IGame &)=delete
- IGame & operator= (const IGame &)=delete
- virtual void start ()=0
- start the gamevirtual void stop ()=0

stop the game

## 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:

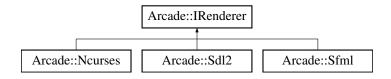
• Core/include/Arcade/abstractions/IGame.hpp

## 6.4 Arcade::IRenderer Class Reference

Graphic Interface.

#include <Arcade/abstractions/IRenderer.hpp>

Inheritance diagram for Arcade::IRenderer:



### **Public Member Functions**

virtual void openWindow (unsigned int width, unsigned int height)=0

Create a window with the specified dimensions.

• virtual void displayWindow ()=0

Display the current window.

virtual void clearWindow ()=0

Clear the contents of the current window.

• virtual void closeWindow ()=0

Close the current window.

virtual void setTitle (const std::string &title)=0

Set the title of the window.

virtual GameEvent getEvent ()=0

Retrieve the current event from the window.

virtual bool isASCII ()=0

Check if the renderer supports only ASCII characters.

• virtual bool loadTexture (const std::string &filepath, const std::string &name)=0

Load a texture from a file.

virtual bool loadFont (const std::string &filepath, const std::string &name)=0

Load a font from a file.

virtual void createSprite (const std::string &textureName, float pos\_x, float pos\_y, float scale\_x, float scale\_y)=0

Create a sprite with the specified parameters.

virtual void displaySprite (const std::string &spriteName)=0

Display a sprite with the specified name.

- virtual void createText (const std::string &fontName, const std::string &text, int size, float pos\_x, float pos\_y)=0

  Create a text object with the specified parameters.
- virtual void displayText (const std::string &textName)=0

Display a text object with the specified name.

## 6.4.1 Detailed Description

Graphic Interface.

Set of method for the Arcade project

## 6.4.2 Member Function Documentation

## 6.4.2.1 createSprite()

Create a sprite with the specified parameters.

### **Parameters**

textureName	The name of the texture to use for the sprite
pos_x	The x-coordinate of the sprite's position
pos_y	The y-coordinate of the sprite's position
scale_x	The scale factor for the sprite's width
scale_y	The scale factor for the sprite's height

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

## 6.4.2.2 createText()

Create a text object with the specified parameters.

#### **Parameters**

fontName	The name of the font to use for the text	
text	The text to display	
size	The size of the text	
pos_x	The x-coordinate of the text's position	
pos_y	The y-coordinate of the text's position	

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

## 6.4.2.3 displaySprite()

Display a sprite with the specified name.

### **Parameters**

spriteName	The name of the sprite to display

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

## 6.4.2.4 displayText()

Display a text object with the specified name.

**Parameters** 

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

## 6.4.2.5 getEvent()

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

Retrieve the current event from the window.

**Returns** 

The current event

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

## 6.4.2.6 isASCII()

```
virtual bool Arcade::IRenderer::isASCII ( ) [pure virtual]
```

Check if the renderer supports only ASCII characters.

Returns

True if the renderer supports ASCII, false otherwise

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

## 6.4.2.7 loadFont()

Load a font from a file.

#### **Parameters**

filepath	The path to the font file
name	The name to associate with the font

## Returns

True if the font was loaded successfully, false otherwise

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

## 6.4.2.8 loadTexture()

Load a texture from a file.

#### **Parameters**

filepath	The path to the texture file
name	The name to associate with the texture

## Returns

True if the texture was loaded successfully, false otherwise

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

## 6.4.2.9 openWindow()

Create a window with the specified dimensions.

### **Parameters**

width	The width of the window
height	The height of the window

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

## 6.4.2.10 setTitle()

Set the title of the window.

#### **Parameters**

title The new title of the window

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

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

Core/include/Arcade/abstractions/IRenderer.hpp

## 6.5 Arcade:: Sprite Class Reference

Sprite Interface.

#include <Arcade/abstractions/ISprite.hpp>

## **Public Member Functions**

- ISprite (const ISprite &)=delete
- ISprite & operator= (const ISprite &)=delete
- virtual void createSprite (const std::vector< std::string > &sprite)=0

create the sprite

virtual void draw ()=0

draw the sprite

virtual void setPosition (int x, int y)=0

set the position of the sprite

## 6.5.1 Detailed Description

Sprite Interface.

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

## 6.5.2 Member Function Documentation

## 6.5.2.1 createSprite()

create the sprite

### **Parameters**

sprite

create the sprite with the given sprite, can be a filePath, or a ASCII art

## 6.5.2.2 setPosition()

set the position of the sprite

#### **Parameters**



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

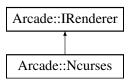
• Core/include/Arcade/abstractions/ISprite.hpp

## 6.6 Arcade::Ncurses Class Reference

Ncurses class.

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

Inheritance diagram for Arcade::Ncurses:



## **Public Member Functions**

• GameEvent getEvent () override

Retrieve the current event from the window.

· void openWindow (unsigned int width, unsigned int height) override

Create a window with the specified dimensions.

• void displayWindow () override

Display the current window.

· void clearWindow () override

Clear the contents of the current window.

• void closeWindow () override

Close the current window.

· void setTitle (const std::string &title) override

Set the title of the window.

• bool loadTexture (const std::string &texture, const std::string &name) override

Load a texture from a file.

• bool loadFont (const std::string &filepath, const std::string &name) override

Load a font from a file.

void createSprite (const std::string &textureName, float pos\_x, float pos\_y, float scale\_x, float scale\_y) over-ride

Create a sprite with the specified parameters.

- void createText (const std::string &fontName, const std::string &text, int size, float pos\_x, float pos\_y) override Create a text object with the specified parameters.
- void displaySprite (const std::string &spriteName) override

Display a sprite with the specified name.

void displayText (const std::string &textName) override

Display a text object with the specified name.

• bool isASCII () override

Check if the renderer supports only ASCII characters.

## 6.6.1 Detailed Description

Ncurses class.

Ncurses class for the Arcade project

## 6.6.2 Member Function Documentation

### 6.6.2.1 createSprite()

Create a sprite with the specified parameters.

### **Parameters**

textureName	The name of the texture to use for the sprite
pos_x	The x-coordinate of the sprite's position
pos_y	The y-coordinate of the sprite's position
scale_x	The scale factor for the sprite's width
scale_y	The scale factor for the sprite's height

Implements Arcade::IRenderer.

## 6.6.2.2 createText()

Create a text object with the specified parameters.

### **Parameters**

fontName	The name of the font to use for the text
text	The text to display
size	The size of the text
pos_x	The x-coordinate of the text's position
pos_y	The y-coordinate of the text's position

Implements Arcade::IRenderer.

## 6.6.2.3 displaySprite()

Display a sprite with the specified name.

### **Parameters**

spriteName	The name of the sprite to display
------------	-----------------------------------

Implements Arcade::IRenderer.

## 6.6.2.4 displayText()

Display a text object with the specified name.

### **Parameters**

textName	The name of the text to display
----------	---------------------------------

Implements Arcade::IRenderer.

## 6.6.2.5 getEvent()

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

Retrieve the current event from the window.

Returns

The current event

Implements Arcade::IRenderer.

### 6.6.2.6 isASCII()

```
bool Arcade::Ncurses::isASCII ( ) [inline], [override], [virtual]
```

Check if the renderer supports only ASCII characters.

Returns

True if the renderer supports ASCII, false otherwise

Implements Arcade::IRenderer.

## 6.6.2.7 loadFont()

Load a font from a file.

### **Parameters**

filepath	The path to the font file
name	The name to associate with the font

### Returns

True if the font was loaded successfully, false otherwise

Implements Arcade::IRenderer.

## 6.6.2.8 loadTexture()

Load a texture from a file.

### **Parameters**

filepath	The path to the texture file
name	The name to associate with the texture

### Returns

True if the texture was loaded successfully, false otherwise

Implements Arcade::IRenderer.

## 6.6.2.9 openWindow()

Create a window with the specified dimensions.

### **Parameters**

width	The width of the window
height	The height of the window

Implements Arcade::IRenderer.

## 6.6.2.10 setTitle()

Set the title of the window.

#### **Parameters**

title The new title of the window

Implements Arcade::IRenderer.

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

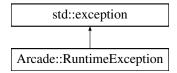
• Graphics/NCurses/include/Arcade/Ncurses.hpp

## 6.7 Arcade::RuntimeException Class Reference

RuntimeException class.

#include <Arcade/RuntimeException.hpp>

Inheritance diagram for Arcade::RuntimeException:



## **Public Member Functions**

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

## 6.7.1 Detailed Description

RuntimeException class.

RuntimeException class for the Arcade project

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

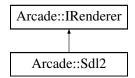
• Core/include/Arcade/RuntimeException.hpp

## 6.8 Arcade::Sdl2 Class Reference

Sdl2 class.

#include <Arcade/Sdl2.hpp>

Inheritance diagram for Arcade::Sdl2:



### **Public Member Functions**

· GameEvent getEvent () override

Retrieve the current event from the window.

· void openWindow (unsigned int width, unsigned int height) override

Create a window with the specified dimensions.

void displayWindow () override

Display the current window.

· void clearWindow () override

Clear the contents of the current window.

· void closeWindow () override

Close the current window.

void setTitle (const std::string &title) override

Set the title of the window.

• bool loadTexture (const std::string &filePath, const std::string &name) override

Load a texture from a file.

• bool loadFont (const std::string &filepath, const std::string &name) override

Load a font from a file.

void createSprite (const std::string &textureName, float pos\_x, float pos\_y, float scale\_x, float scale\_y) over-ride

Create a sprite with the specified parameters.

- void createText (const std::string &fontName, const std::string &text, int size, float pos\_x, float pos\_y) override Create a text object with the specified parameters.
- void displaySprite (const std::string &spriteName) override

Display a sprite with the specified name.

void displayText (const std::string &textName) override

Display a text object with the specified name.

• bool is ASCII () override

Check if the renderer supports only ASCII characters.

## 6.8.1 Detailed Description

Sdl2 class.

Sdl2 class for the Arcade project

## 6.8.2 Member Function Documentation

#### 6.8.2.1 createSprite()

Create a sprite with the specified parameters.

### **Parameters**

textureName	The name of the texture to use for the sprite
pos_x	The x-coordinate of the sprite's position
pos_y	The y-coordinate of the sprite's position
scale_x	The scale factor for the sprite's width
scale_y	The scale factor for the sprite's height

Implements Arcade::IRenderer.

## 6.8.2.2 createText()

Create a text object with the specified parameters.

## **Parameters**

fontName	The name of the font to use for the text
text	The text to display
size	The size of the text
pos_x	The x-coordinate of the text's position
pos_y	The y-coordinate of the text's position

Implements Arcade::IRenderer.

## 6.8.2.3 displaySprite()

Display a sprite with the specified name.

## **Parameters**

spriteName	The name of the sprite to display

Implements Arcade::IRenderer.

## 6.8.2.4 displayText()

Display a text object with the specified name.

**Parameters** 

textName The name of the text to display

Implements Arcade::IRenderer.

## 6.8.2.5 getEvent()

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

Retrieve the current event from the window.

**Returns** 

The current event

Implements Arcade::IRenderer.

## 6.8.2.6 isASCII()

```
bool Arcade::Sdl2::isASCII ( ) [inline], [override], [virtual]
```

Check if the renderer supports only ASCII characters.

Returns

True if the renderer supports ASCII, false otherwise

Implements Arcade::IRenderer.

## 6.8.2.7 loadFont()

Load a font from a file.

## **Parameters**

filepath	The path to the font file
name	The name to associate with the font

## Returns

True if the font was loaded successfully, false otherwise

Implements Arcade::IRenderer.

## 6.8.2.8 loadTexture()

Load a texture from a file.

### **Parameters**

filepath	The path to the texture file
name	The name to associate with the texture

## Returns

True if the texture was loaded successfully, false otherwise

Implements Arcade::IRenderer.

## 6.8.2.9 openWindow()

```
void Arcade::Sdl2::openWindow (
          unsigned int width,
          unsigned int height ) [override], [virtual]
```

Create a window with the specified dimensions.

### **Parameters**

width	The width of the window
height	The height of the window

Implements Arcade::IRenderer.

#### 6.8.2.10 setTitle()

Set the title of the window.

#### **Parameters**

title The new title of the window

Implements Arcade::IRenderer.

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

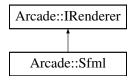
• Graphics/SDL2/include/Arcade/Sdl2.hpp

## 6.9 Arcade::Sfml Class Reference

#### Sfml class.

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

Inheritance diagram for Arcade::Sfml:



#### **Public Member Functions**

• GameEvent getEvent () override

Retrieve the current event from the window.

· void openWindow (unsigned int width, unsigned int height) override

Create a window with the specified dimensions.

· void displayWindow () override

Display the current window.

· void clearWindow () override

Clear the contents of the current window.

void closeWindow () override

Close the current window.

void setTitle (const std::string &title) override

Set the title of the window.

bool loadTexture (const std::string &texture, const std::string &name) override

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Load a texture from a file.

· bool loadFont (const std::string &filepath, const std::string &name) override

Load a font from a file.

void createSprite (const std::string &textureName, float pos\_x, float pos\_y, float scale\_x, float scale\_y) over-ride

Create a sprite with the specified parameters.

- void createText (const std::string &fontName, const std::string &text, int size, float pos\_x, float pos\_y) override

  Create a text object with the specified parameters.
- void displaySprite (const std::string &spriteName) override

Display a sprite with the specified name.

void displayText (const std::string &textName) override

Display a text object with the specified name.

• bool isASCII () override

Check if the renderer supports only ASCII characters.

## 6.9.1 Detailed Description

Sfml class.

Sfml class for the Arcade project

#### 6.9.2 Member Function Documentation

#### 6.9.2.1 createSprite()

Create a sprite with the specified parameters.

#### **Parameters**

textureName	The name of the texture to use for the sprite	
pos_x	The x-coordinate of the sprite's position	
pos_y	The y-coordinate of the sprite's position	
scale_x	The scale factor for the sprite's width	
scale_y	The scale factor for the sprite's height	

Implements Arcade::IRenderer.

## 6.9.2.2 createText()

Create a text object with the specified parameters.

#### **Parameters**

fontName	The name of the font to use for the text	
text	The text to display	
size	The size of the text	
pos_x	The x-coordinate of the text's position	
pos_y	The y-coordinate of the text's position	

Implements Arcade::IRenderer.

#### 6.9.2.3 displaySprite()

Display a sprite with the specified name.

## **Parameters**

spriteName	The name of the sprite to display
Spritervanie	The name of the spine to display

Implements Arcade::IRenderer.

## 6.9.2.4 displayText()

Display a text object with the specified name.

#### **Parameters**

textName	The name of the text to display
----------	---------------------------------

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Implements Arcade::IRenderer.

#### 6.9.2.5 getEvent()

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

Retrieve the current event from the window.

Returns

The current event

Implements Arcade::IRenderer.

#### 6.9.2.6 isASCII()

```
bool Arcade::Sfml::isASCII ( ) [inline], [override], [virtual]
```

Check if the renderer supports only ASCII characters.

Returns

True if the renderer supports ASCII, false otherwise

Implements Arcade::IRenderer.

#### 6.9.2.7 loadFont()

Load a font from a file.

#### **Parameters**

filepath	The path to the font file
name	The name to associate with the font

#### Returns

True if the font was loaded successfully, false otherwise

Implements Arcade::IRenderer.

#### 6.9.2.8 loadTexture()

Load a texture from a file.

#### **Parameters**

filepath	The path to the texture file
name	The name to associate with the texture

#### Returns

True if the texture was loaded successfully, false otherwise

Implements Arcade::IRenderer.

### 6.9.2.9 openWindow()

Create a window with the specified dimensions.

#### **Parameters**

width	The width of the window
height	The height of the window

Implements Arcade::IRenderer.

## 6.9.2.10 setTitle()

Set the title of the window.

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## **Parameters**

title The new title of the window

Implements Arcade::IRenderer.

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

• Graphics/SFML/include/Arcade/Sfml.hpp

# **Chapter 7**

# **File Documentation**

## 7.1 Core/include/Arcade/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/Arcade/abstractions/IRenderer.hpp File Reference

File declaring Graphic Interface.

```
#include <string>
#include "Arcade/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/Arcade/abstractions/ISprite.hpp File Reference

File declaring Sprite Interface.

```
#include <string>
#include <vector>
```

#### **Classes**

• class Arcade::ISprite

Sprite Interface.

## **Namespaces**

Arcade

Main namespace for the Arcade project.

## 7.3.1 Detailed Description

File declaring Sprite Interface.

## 7.4 Core/include/Arcade/Constants.hpp File Reference

File containing constant values used in the Arcade project.

## **Variables**

• constexpr int EPITECH\_ERROR = 84

Exit code for Epitech errors.

• constexpr int SUCCESS = 0

Exit code indicating that the program has executed successfully.

• constexpr int ERROR = -1

Exit code indicating that an error has occurred.

## 7.4.1 Detailed Description

File containing constant values used in the Arcade project.

This file provides a set of constant values that are used throughout the Arcade project.

## 7.5 Core/include/Arcade/Core.hpp File Reference

File declaring Core.

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

## **Classes**

· class Arcade::Core

Core class.

class Arcade::Core::CoreException

CoreException class.

## **Namespaces**

Arcade

Main namespace for the Arcade project.

## 7.5.1 Detailed Description

File declaring Core.

## 7.6 Core/include/Arcade/Enum.hpp File Reference

File declaring Enum.

## **Namespaces**

Arcade

Main namespace for the Arcade project.

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#### **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.
```

## 7.6.1 Detailed Description

File declaring Enum.

Set of enum used in the Arcade project

## 7.7 Core/include/Arcade/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.

## 7.7.1 Detailed Description

File declaring RuntimeException.

## 7.8 Graphics/NCurses/include/Arcade/Ncurses.hpp File Reference

File declaring Ncurses.

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

## Classes

class Arcade::Ncurses
 Ncurses class.

## **Namespaces**

Arcade

Main namespace for the Arcade project.

## 7.8.1 Detailed Description

File declaring Ncurses.

## 7.9 Graphics/SDL2/include/Arcade/Sdl2.hpp File Reference

File declaring Sdl2 class.

```
#include <iostream>
#include <map>
#include <SDL2/SDL.h>
#include <SDL2/SDL_ttf.h>
#include "Arcade/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"

## 7.9.1 Detailed Description

File declaring Sdl2 class.

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# 7.10 Graphics/SFML/include/Arcade/Sfml.hpp File Reference

File declaring Sfml class.

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

## Classes

• class Arcade::Sfml Sfml class.

## **Namespaces**

• Arcade

Main namespace for the Arcade project.

## 7.10.1 Detailed Description

File declaring Sfml class.

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