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:

Arcade::SpriteAssets::AsciiSprite	
Arcade::Core	11
std::exception	
Arcade::Core::CoreException	14
Arcade::RuntimeException	27
Arcade::IGame	14
Arcade::IRenderer	15
Arcade::Ncurses	21
Arcade::Sdl2	28
Arcade::Sfml	
Arcade::ISprite	20
Arcade::NCursesSprite	26
Arcade::Sdl2Sprite	34
Arcade::SfmlSprite	40
Arcade::SpriteAssets	41

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

ArcadeSpriteAssetsAscrisprite	ш
Arcade::Core	
Core class	11
Arcade::Core::CoreException	
CoreException class	14
Arcade::IGame	
Game Interface	14
Arcade::IRenderer	
Graphic Interface	15
Arcade::ISprite	
Sprite Interface	20
Arcade::Ncurses	
Ncurses class	21
Arcade::NCursesSprite	
NCursesSprite class	26
Arcade::RuntimeException	
RuntimeException class	27
Arcade::Sdl2	
Sdl2 class	28
Arcade::Sdl2Sprite	
Sdl2Sprite class	34
Arcade::Sfml	
Sfml class	35
Arcade::SfmlSprite	
SfmlSprite class	40
Arcade::SpriteAssets	41

6 Class Index

Chapter 4

File Index

4.1 File List

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

8 File Index

Chapter 5

Namespace Documentation

5.1 Arcade Namespace Reference

Main namespace for the Arcade project.

Classes

· class IGame

Game Interface.

· class IRenderer

Graphic Interface.

- struct SpriteAssets
- class ISprite

Sprite Interface.

class Core

Core class.

• class RuntimeException

RuntimeException class.

class Sdl2

Sdl2 class.

• class Sdl2Sprite

Sdl2Sprite class.

• class Ncurses

Ncurses class.

• class NCursesSprite

NCursesSprite class.

• class Sfml

Sfml class.

· class SfmlSprite

SfmlSprite class.

Typedefs

• using ascii_char_array_t = std::vector< std::vector< char > >

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

Chapter 6

Class Documentation

6.1 Arcade::SpriteAssets::AsciiSprite Struct Reference

Public Attributes

ascii_char_array_t chars

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

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

6.2 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 getLibraries ()

Get actives libraries.

• 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

6.2.1 Detailed Description

Core class.

Core class for the Arcade project

6.2.2 Member Function Documentation

6.2.2.1 gameLoop()

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

Game loop.

Main game loop

6.2.2.2 handleEvents()

Handle events.

Parameters

event

6.2.2.3 parser()

parse arguments

Parameters

path

6.2.2.4 runArcade()

Run Arcade.

Parameters

path

Returns

int

6.2.2.5 setMode()

Set the game mode.

Parameters

gameMode

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

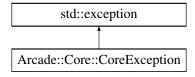
Core/include/Arcade/Core.hpp

6.3 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

6.3.1 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

6.4 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 game

• virtual void stop ()=0

stop the game

6.4.1 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:

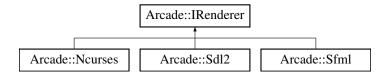
• Core/include/Arcade/abstractions/IGame.hpp

6.5 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.

6.5.1 Detailed Description

Graphic Interface.

Set of method for the Arcade project

6.5.2 Member Function Documentation

6.5.2.1 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.

6.5.2.2 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.

6.5.2.3 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.

6.5.2.4 displayText()

Display a text object with the specified name.

Parameters

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

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

6.5.2.5 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.

6.5.2.6 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.

6.5.2.7 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.

6.5.2.8 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.

6.5.2.9 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.

6.5.2.10 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:

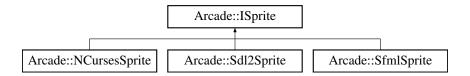
Core/include/Arcade/abstractions/IRenderer.hpp

6.6 Arcade::ISprite Class Reference

Sprite Interface.

```
#include <Arcade/abstractions/ISprite.hpp>
```

Inheritance diagram for Arcade::ISprite:



Public Member Functions

- virtual bool loadTexture (const std::string &texture, const std::string &name)=0
 load the texture
- virtual void setPosition (int x, int y)=0 set the position of the sprite

6.6.1 Detailed Description

Sprite Interface.

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

6.6.2 Member Function Documentation

6.6.2.1 loadTexture()

load the texture

Parameters

texture

load the texture with the given texture

Implemented in Arcade::SfmlSprite, Arcade::Sdl2Sprite, and Arcade::NCursesSprite.

6.6.2.2 setPosition()

set the position of the sprite

Parameters



Implemented in Arcade::SfmlSprite, Arcade::Sdl2Sprite, and Arcade::NCursesSprite.

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

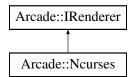
• Core/include/Arcade/abstractions/ISprite.hpp

6.7 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.

6.7.1 Detailed Description

Ncurses class.

Ncurses class for the Arcade project

6.7.2 Member Function Documentation

6.7.2.1 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.

6.7.2.2 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.

6.7.2.3 displaySprite()

Display a sprite with the specified name.

Parameters

spriteName	The name of the sprite to display

Implements Arcade::IRenderer.

6.7.2.4 displayText()

Display a text object with the specified name.

Parameters

textName The name of the text to display

Implements Arcade::IRenderer.

6.7.2.5 getEvent()

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

Retrieve the current event from the window.

Returns

The current event

Implements Arcade::IRenderer.

6.7.2.6 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.

6.7.2.7 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.

6.7.2.8 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.

6.7.2.9 openWindow()

Create a window with the specified dimensions.

Parameters

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

Implements Arcade::IRenderer.

6.7.2.10 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:

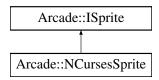
• Graphics/NCurses/include/Arcade/Ncurses.hpp

6.8 Arcade::NCursesSprite Class Reference

NCursesSprite class.

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

Inheritance diagram for Arcade::NCursesSprite:



Public Member Functions

- bool loadTexture (const std::string &texture, const std::string &name) override
 load the texture
- void draw () override
- void setPosition (int x, int y) override set the position of the sprite

6.8.1 Detailed Description

NCursesSprite class.

NCursesSprite class for the Arcade project

6.8.2 Member Function Documentation

6.8.2.1 loadTexture()

load the texture

Parameters

texture

load the texture with the given texture

Implements Arcade::ISprite.

6.8.2.2 setPosition()

set the position of the sprite

Parameters



Implements Arcade::ISprite.

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

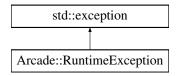
• Graphics/NCurses/include/Arcade/NCursesSprite.hpp

6.9 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

6.9.1 Detailed Description

RuntimeException class.

RuntimeException class for the Arcade project

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

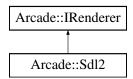
• Core/include/Arcade/RuntimeException.hpp

6.10 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 isASCII () override

Check if the renderer supports only ASCII characters.

6.10.1 Detailed Description

Sdl2 class.

Sdl2 class for the Arcade project

6.10.2 Member Function Documentation

6.10.2.1 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.

6.10.2.2 createText()

```
void Arcade::Sdl2::createText (
    const std::string & fontName,
    const std::string & text,
    int size,
    float pos_x,
    float pos_y ) [override], [virtual]
```

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.

6.10.2.3 displaySprite()

Display a sprite with the specified name.

Parameters

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

Implements Arcade::IRenderer.

6.10.2.4 displayText()

Display a text object with the specified name.

Parameters

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

Implements Arcade::IRenderer.

6.10.2.5 getEvent()

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

Retrieve the current event from the window.

Returns

The current event

Implements Arcade::IRenderer.

6.10.2.6 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.

6.10.2.7 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.

6.10.2.8 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.

6.10.2.9 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.

6.10.2.10 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:

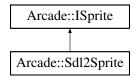
Graphics/SDL2/include/Arcade/Sdl2.hpp

6.11 Arcade::Sdl2Sprite Class Reference

Sdl2Sprite class.

```
#include <Arcade/Sdl2Sprite.hpp>
```

Inheritance diagram for Arcade::Sdl2Sprite:



Public Member Functions

- bool loadTexture (const std::string &texture, const std::string &name) override load the texture
- void draw () override
- void setPosition (int x, int y) override set the position of the sprite

6.11.1 Detailed Description

Sdl2Sprite class.

Sdl2Sprite class for the Arcade project

6.11.2 Member Function Documentation

6.11.2.1 loadTexture()

load the texture

Parameters

texture

load the texture with the given texture

Implements Arcade::ISprite.

6.11.2.2 setPosition()

set the position of the sprite

Parameters



Implements Arcade::ISprite.

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

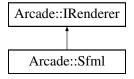
• Graphics/SDL2/include/Arcade/Sdl2Sprite.hpp

6.12 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

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.

6.12.1 Detailed Description

Sfml class.

Sfml class for the Arcade project

6.12.2 Member Function Documentation

6.12.2.1 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 posi	
scale_x	The scale factor for the sprite's width
scale_y	The scale factor for the sprite's height

Implements Arcade::IRenderer.

6.12.2.2 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.

6.12.2.3 displaySprite()

Display a sprite with the specified name.

Parameters

spriteName	The name of the sprite to display

Implements Arcade::IRenderer.

6.12.2.4 displayText()

Display a text object with the specified name.

Parameters

textName The name of the text to display

Implements Arcade::IRenderer.

6.12.2.5 getEvent()

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

Retrieve the current event from the window.

Returns

The current event

Implements Arcade::IRenderer.

6.12.2.6 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.

6.12.2.7 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.

6.12.2.8 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.

6.12.2.9 openWindow()

```
void Arcade::Sfml::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.

6.12.2.10 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:

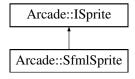
• Graphics/SFML/include/Arcade/Sfml.hpp

6.13 Arcade::SfmlSprite Class Reference

SfmlSprite class.

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

Inheritance diagram for Arcade::SfmlSprite:



Public Member Functions

- SfmlSprite (const std::string &string, float pos_x, float pos_y, float scale_x, float scale_y)
- bool loadTexture (const std::string &texture, const std::string &name) override

load the texture

- void draw (sf::RenderWindow &window)
- void setPosition (int x, int y) override

set the position of the sprite

6.13.1 Detailed Description

SfmlSprite class.

SfmlSprite class for the Arcade project

6.13.2 Member Function Documentation

6.13.2.1 loadTexture()

load the texture

Parameters



load the texture with the given texture

Implements Arcade::ISprite.

6.13.2.2 setPosition()

set the position of the sprite

Parameters



Implements Arcade::ISprite.

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

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

6.14 Arcade::SpriteAssets Struct Reference

Classes

• struct AsciiSprite

Public Attributes

• struct Arcade::SpriteAssets::AsciiSprite sprite

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

• Core/include/Arcade/abstractions/ISprite.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

- struct Arcade::SpriteAssets
- struct Arcade::SpriteAssets::AsciiSprite
- · class Arcade::ISprite

Sprite Interface.

Namespaces

Arcade

Main namespace for the Arcade project.

Typedefs

using Arcade::ascii_char_array_t = std::vector< std::vector< char > >

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 <vector>
#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.

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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.

7.6.1 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/NCurses/include/Arcade/NCursesSprite.hpp File Reference

File declaring NCursesSprite class.

```
#include "Arcade/abstractions/ISprite.hpp"
```

Classes

class Arcade::NCursesSprite
 NCursesSprite class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.9.1 Detailed Description

File declaring NCursesSprite class.

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7.10 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"

7.10.1 Detailed Description

File declaring Sdl2 class.

7.11 Graphics/SDL2/include/Arcade/Sdl2Sprite.hpp File Reference

File declaring SfmlSprite class.

```
#include "Arcade/abstractions/ISprite.hpp"
```

Classes

class Arcade::Sdl2Sprite
 Sdl2Sprite class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.11.1 Detailed Description

File declaring SfmlSprite class.

7.12 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.

7.12.1 Detailed Description

File declaring Sfml class.

7.13 Graphics/SFML/include/Arcade/SfmlSprite.hpp File Reference

File declaring SfmlSprite class.

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

Classes

class Arcade::SfmlSprite
 SfmlSprite class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.13.1 Detailed Description

File declaring SfmlSprite class.

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