arcade

1.0.0

Generated by Doxygen 1.9.1

1	Namespace Index	1
	1.1 Namespace List	1
2	Hierarchical Index	3
	2.1 Class Hierarchy	3
3	Class Index	5
	3.1 Class List	5
4	File Index	7
	4.1 File List	7
5	Namespace Documentation	9
	5.1 Arcade Namespace Reference	9
	5.1.1 Detailed Description	10
	5.1.2 Enumeration Type Documentation	10
	5.1.2.1 GameEvent	10
6	Class Documentation	11
	6.1 Arcade::AGame Class Reference	11
	6.1.1 Detailed Description	11
	6.2 Arcade::AGraphic Class Reference	11
	6.2.1 Detailed Description	12
	6.3 Arcade::Core Class Reference	12
	6.3.1 Detailed Description	12
	6.3.2 Member Function Documentation	13
	6.3.2.1 gameLoop()	13
	6.3.2.2 setMode()	13
	6.4 Arcade::Core::CoreException Class Reference	13
	6.4.1 Detailed Description	14
	6.5 Arcade::IGame Class Reference	14
	6.5.1 Detailed Description	14
	6.6 Arcade::IGraphic Class Reference	14
	6.6.1 Detailed Description	15
	6.6.2 Member Function Documentation	15
	6.6.2.1 getEvent()	15
	6.7 Arcade::Ncurses Class Reference	15
	6.7.1 Detailed Description	16
	6.7.2 Member Function Documentation	16
	6.7.2.1 getEvent()	16
	6.8 Arcade::RuntimeException Class Reference	16
	6.8.1 Detailed Description	17
	6.9 Arcade::Sdl2 Class Reference	17
	6.9.1 Detailed Description	18
		٠٠

6.9.2 Member Function Documentation	18
6.9.2.1 getEvent()	18
6.10 Arcade::Sfml Class Reference	18
6.10.1 Detailed Description	19
6.10.2 Member Function Documentation	19
6.10.2.1 getEvent()	19
7 File Documentation	21
7.1 Core/include/abstractions/AGame.hpp File Reference	21
7.1.1 Detailed Description	21
7.2 Core/include/abstractions/AGraphic.hpp File Reference	21
7.2.1 Detailed Description	22
7.3 Core/include/abstractions/IGame.hpp File Reference	22
7.3.1 Detailed Description	22
7.4 Core/include/abstractions/IGraphic.hpp File Reference	22
7.4.1 Detailed Description	23
7.5 Core/include/Core.hpp File Reference	23
7.5.1 Detailed Description	23
7.6 Core/include/Enum.hpp File Reference	23
7.6.1 Detailed Description	24
7.7 Core/include/RuntimeException.hpp File Reference	24
7.7.1 Detailed Description	24
7.8 Graphics/NCurses/include/Ncurses.hpp File Reference	24
7.8.1 Detailed Description	25
7.9 Graphics/SDL2/include/Sdl2.hpp File Reference	25
7.9.1 Detailed Description	25
7.10 Graphics/SFML/include/Sfml.hpp File Reference	26
7.10.1 Detailed Description	26
Index	27

Namespace Index

1.1 Namespace List

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

Arcade

2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

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

ade::Core	12
exception	
Arcade::Core::CoreException	13
Arcade::RuntimeException	16
ade::IGame	14
Arcade::AGame	11
nde::IGraphic	14
Arcade::AGraphic	11
Arcade::Ncurses	15
Arcade::Sdl2	17
Arcade::Sfml	18

4 Hierarchical Index

Class Index

3.1 Class List

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

Arcade::AGame		
Game abstract class	1	11
Arcade::AGraphic		
Graphic abstract class	1	11
Arcade::Core		
Core class	1	12
Arcade::Core::CoreException		
CoreException class	1	13
Arcade::IGame		
Game Interface	1	14
Arcade::IGraphic		
Graphic Interface	1	14
Arcade::Ncurses		
Ncurses class	1	15
Arcade::RuntimeException		
RuntimeException class	1	16
Arcade::Sdl2		
Sdl2 class	1	17
Arcade::Sfml		
Sfml class	1	18

6 Class Index

File Index

4.1 File List

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

Core/include/Constants.hpp	?
Core/include/Core.hpp	
File declaring Core	3
Core/include/Enum.hpp	
File declaring Enum	3
Core/include/RuntimeException.hpp	
File declaring RuntimeException	4
Core/include/abstractions/AGame.hpp	
File declaring Game Abstract class	1
Core/include/abstractions/AGraphic.hpp	
File declaring Graphic Abstract class	1
Core/include/abstractions/IGame.hpp	
File declaring Game Interface	2
Core/include/abstractions/IGraphic.hpp	
File declaring Graphic Interface	2
Graphics/NCurses/include/Ncurses.hpp	
File declaring Nourses	4
Graphics/SDL2/include/Sdl2.hpp	
File declaring Sdl2 class	5
Graphics/SFML/include/Sfml.hpp	
File declaring Sfml class	6

8 File Index

Namespace Documentation

5.1 Arcade Namespace Reference

Main namespace for the Arcade project.

Classes

· class AGame

Game abstract class.

• class AGraphic

Graphic abstract class.

class IGame

Game Interface.

· class IGraphic

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

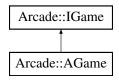
Class Documentation

6.1 Arcade::AGame Class Reference

Game abstract class.

#include <abstractions/AGame.hpp>

Inheritance diagram for Arcade::AGame:



Additional Inherited Members

6.1.1 Detailed Description

Game abstract class.

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

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

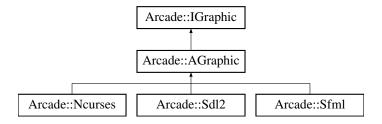
Core/include/abstractions/AGame.hpp

6.2 Arcade::AGraphic Class Reference

Graphic abstract class.

#include <abstractions/AGraphic.hpp>

Inheritance diagram for Arcade::AGraphic:



12 Class Documentation

Public Member Functions

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

6.2.1 Detailed Description

Graphic abstract class.

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/AGraphic.hpp

6.3 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 ()

6.3.1 Detailed Description

Core class.

Core class for the Arcade project

6.3.2 Member Function Documentation

6.3.2.1 gameLoop()

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

Game loop.

Main game loop

6.3.2.2 setMode()

Set the mode object.

Parameters

gameMode

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

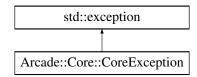
• Core/include/Core.hpp

6.4 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

14 Class Documentation

6.4.1 Detailed Description

CoreException class.

Exception class for the Core class

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

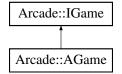
Core/include/Core.hpp

6.5 Arcade::IGame Class Reference

Game Interface.

#include <abstractions/IGame.hpp>

Inheritance diagram for Arcade::IGame:



Public Member Functions

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

6.5.1 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:

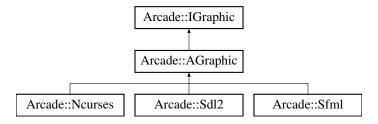
Core/include/abstractions/IGame.hpp

6.6 Arcade::IGraphic Class Reference

Graphic Interface.

#include <abstractions/IGraphic.hpp>

Inheritance diagram for Arcade::IGraphic:



Public Member Functions

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

6.6.1 Detailed Description

Graphic Interface.

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

6.6.2 Member Function Documentation

6.6.2.1 getEvent()

virtual GameEvent Arcade::IGraphic::getEvent () [pure virtual]

Get the event object.

Returns

GameEvent

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

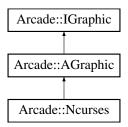
The documentation for this class was generated from the following file:

• Core/include/abstractions/IGraphic.hpp

6.7 Arcade::Ncurses Class Reference

Ncurses class.

Inheritance diagram for Arcade::Ncurses:



16 Class Documentation

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

6.7.1 Detailed Description

Ncurses class.

Ncurses class for the Arcade project

6.7.2 Member Function Documentation

6.7.2.1 getEvent()

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

Get the event object.

Returns

GameEvent

Implements Arcade::IGraphic.

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

• Graphics/NCurses/include/Ncurses.hpp

6.8 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

6.8.1 Detailed Description

RuntimeException class.

RuntimeException class for the Arcade project

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

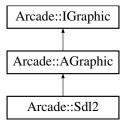
• Core/include/RuntimeException.hpp

6.9 Arcade::Sdl2 Class Reference

Sdl2 class.

 $\label{localization} $$\#include </home/masina/Documents/Epitech/B-OOP-400/B-OOP-400-BDX-4-1-arcade-elliot.$$\leftrightarrow $$ masina/Graphics/SDL2/include/Sdl2.$$hpp>$

Inheritance diagram for Arcade::Sdl2:



Public Member Functions

- SdI2 (const SdI2 &)=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

18 Class Documentation

6.9.1 Detailed Description

Sdl2 class.

Sdl2 class for the Arcade project

6.9.2 Member Function Documentation

6.9.2.1 getEvent()

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

Get the event object.

Returns

GameEvent

Implements Arcade::IGraphic.

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

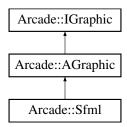
• Graphics/SDL2/include/Sdl2.hpp

6.10 Arcade::Sfml Class Reference

Sfml class.

 $\label{localization} $$\#include < /home/masina/Documents/Epitech/B-OOP-400/B-OOP-400-BDX-4-1-arcade-elliot. \leftarrow $$masina/Graphics/SFML/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

6.10.1 Detailed Description

Sfml class.

Sfml class for the Arcade project

6.10.2 Member Function Documentation

6.10.2.1 getEvent()

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

Get the event object.

Returns

GameEvent

Implements Arcade::IGraphic.

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

• Graphics/SFML/include/Sfml.hpp

20 Class Documentation

File Documentation

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

File declaring Game Abstract class.

```
#include "IGame.hpp"
```

Classes

class Arcade::AGame

Game abstract class.

Namespaces

Arcade

Main namespace for the Arcade project.

7.1.1 Detailed Description

File declaring Game Abstract class.

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

File declaring Graphic Abstract class.

```
#include "IGraphic.hpp"
```

Classes

• class Arcade::AGraphic

Graphic abstract class.

22 File Documentation

Namespaces

Arcade

Main namespace for the Arcade project.

7.2.1 Detailed Description

File declaring Graphic Abstract class.

7.3 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.

7.3.1 Detailed Description

File declaring Game Interface.

7.4 Core/include/abstractions/IGraphic.hpp File Reference

File declaring Graphic Interface.

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

Classes

• class Arcade::IGraphic

Graphic Interface.

Namespaces

• Arcade

Main namespace for the Arcade project.

7.4.1 Detailed Description

File declaring Graphic Interface.

7.5 Core/include/Core.hpp File Reference

File declaring Core.

```
#include <iostream>
#include <exception>
#include <memory>
#include "Enum.hpp"
#include "abstractions/AGraphic.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/Enum.hpp File Reference

File declaring Enum.

Namespaces

Arcade

Main namespace for the Arcade project.

24 File Documentation

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/RuntimeException.hpp File Reference

File declaring RuntimeException.

```
#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/Ncurses.hpp File Reference

File declaring Ncurses.

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

Classes

class Arcade::Ncurses
 Ncurses class.

Namespaces

Arcade

Main namespace for the Arcade project.

Variables

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

7.8.1 Detailed Description

File declaring Ncurses.

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

File declaring Sdl2 class.

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

26 File Documentation

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

File declaring Sfml class.

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

Classes

• class Arcade::Sfml Sfml class.

Namespaces

• Arcade

Main namespace for the Arcade project.

Variables

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

7.10.1 Detailed Description

File declaring Sfml class.

Index

```
Arcade, 9
    GameEvent, 10
Arcade::AGame, 11
Arcade::AGraphic, 11
Arcade::Core, 12
    gameLoop, 13
    setMode, 13
Arcade::Core::CoreException, 13
Arcade::IGame, 14
Arcade::IGraphic, 14
    getEvent, 15
Arcade::Ncurses, 15
    getEvent, 16
Arcade::RuntimeException, 16
Arcade::Sdl2, 17
    getEvent, 18
Arcade::Sfml, 18
    getEvent, 19
Core/include/abstractions/AGame.hpp, 21
Core/include/abstractions/AGraphic.hpp, 21
Core/include/abstractions/IGame.hpp, 22
Core/include/abstractions/IGraphic.hpp, 22
Core/include/Core.hpp, 23
Core/include/Enum.hpp, 23
Core/include/RuntimeException.hpp, 24
GameEvent
    Arcade, 10
gameLoop
    Arcade::Core, 13
getEvent
    Arcade::IGraphic, 15
    Arcade::Ncurses, 16
    Arcade::Sdl2, 18
    Arcade::Sfml, 19
Graphics/NCurses/include/Ncurses.hpp, 24
Graphics/SDL2/include/Sdl2.hpp, 25
Graphics/SFML/include/Sfml.hpp, 26
setMode
    Arcade::Core, 13
```