arcade

1.0.0

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Namespace Index

1.1 Namespace List

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

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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Class Index

3.1 Class List

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

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4.1 File List

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

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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 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

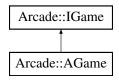
Class Documentation

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:

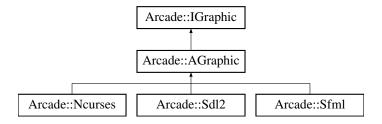
Core/include/abstractions/AGame.hpp

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:

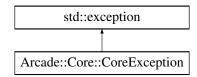
• Core/include/Core.hpp

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

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6.4.1 Detailed Description

CoreException class.

Exception class for the Core class

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

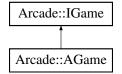
Core/include/Core.hpp

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:

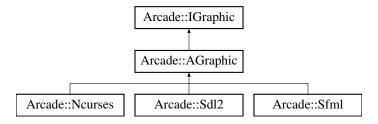
Core/include/abstractions/IGame.hpp

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.

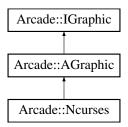
The documentation for this class was generated from the following file:

• Core/include/abstractions/IGraphic.hpp

6.7 Arcade::Ncurses Class Reference

Ncurses class.

Inheritance diagram for Arcade::Ncurses:



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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:

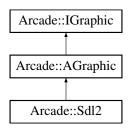
• Graphics/NCurses/include/Ncurses.hpp

6.8 Arcade::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

- 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

6.8.1 Detailed Description

Sdl2 class.

Sdl2 class for the Arcade project

6.8.2 Member Function Documentation

6.8.2.1 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:

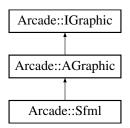
• Graphics/SDL2/include/Sdl2.hpp

6.9 Arcade::Sfml Class Reference

Sfml class.

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

Inheritance diagram for Arcade::Sfml:



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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

6.9.1 Detailed Description

Sfml class.

Sfml class for the Arcade project

6.9.2 Member Function Documentation

6.9.2.1 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

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.

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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.

22 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 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"

7.7.1 Detailed Description

File declaring Ncurses.

7.8 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"

7.8.1 Detailed Description

File declaring Sdl2 class.

7.9 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"

7.9.1 Detailed Description

File declaring Sfml class.

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