# Arcade

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# **Namespace Index**

# 1.1 Namespace List

Here is a list	t of all namespaces with brief descriptions:
arcade	
	Namespace for the arcade project

2 Namespace Index

# **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

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arcade::CoreModule	19
DLLoader< T >	24
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Information about the game from the game module to the graphic module	25
arcade::IModule	
Interface for the modules	26
arcade::NCurses	29
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# **File Index**

# 4.1 File List

Here is a list of all files with brief descriptions:

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# **Namespace Documentation**

# 5.1 arcade Namespace Reference

namespace for the arcade project

#### Classes

- class ADisplayModule
- class AGameModule
- class CoreModule
- class IModule

Interface for the modules.

- class NCurses
- class Pacman
- class Sdl2
- class Sfml
- class Snake

# 5.1.1 Detailed Description

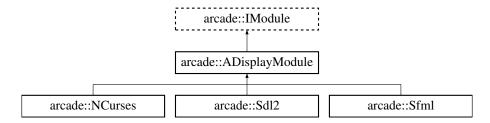
namespace for the arcade project

# **Class Documentation**

# 6.1 arcade::ADisplayModule Class Reference

```
#include <ADisplayModule.hpp>
```

Inheritance diagram for arcade::ADisplayModule:



# **Public Types**

```
    enum DisplayStatus {
        RUNNING , PAUSED , SELECTION , GAMEOVER ,
        WIN }
```

# Public Types inherited from arcade::IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F, G, H, I,
 J, K, L, M,
 N, O, P, Q
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs
enum ModuleType { GRAPHIC , GAME , CORE }
    all the possible module types
enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### **Public Member Functions**

• ADisplayModule ()

Construct a new arcade::ADisplayModule::ADisplayModule object.

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual void init ()=0
- virtual void stop ()=0
- virtual void display ()=0
- void setDisplayStatus (DisplayStatus status)

set the status of the display module

• DisplayStatus getDisplayStatus () const

return the status of the display module

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

return the type of the module

arcade::IModule::KeyboardInput getInput () const

get input from the user

void sendGameData (arcade::IModule::GameData data)

receive send data of the game module to the display module

# Public Member Functions inherited from arcade::IModule

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Protected Attributes**

- void \* window
- void \* \_texture
- void \* event
- · arcade::IModule::GameData \_gameData
- arcade::IModule::KeyboardInput\_input
- DisplayStatus \_displayStatus

#### 6.1.1 Member Enumeration Documentation

# 6.1.1.1 DisplayStatus

enum arcade::ADisplayModule::DisplayStatus

#### **Enumerator**

RUNNING	
PAUSED	
SELECTION	
GAMEOVER	
WIN	

#### 6.1.2 Constructor & Destructor Documentation

### 6.1.2.1 ADisplayModule()

```
arcade::ADisplayModule::ADisplayModule ( )
```

Construct a new arcade::ADisplayModule::ADisplayModule object.

#### 6.1.2.2 ∼ADisplayModule()

```
arcade::ADisplayModule::~ADisplayModule ( )
```

Destroy the arcade::ADisplayModule::ADisplayModule object.

#### 6.1.3 Member Function Documentation

#### 6.1.3.1 display()

```
virtual void arcade::ADisplayModule::display ( ) [pure virtual]
```

Implemented in arcade::NCurses, arcade::Sdl2, and arcade::Sfml.

#### 6.1.3.2 getDisplayStatus()

```
arcade::ADisplayModule::DisplayStatus arcade::ADisplayModule::getDisplayStatus ( ) const
return the status of the display module
```

Returns

arcade::ADisplayModule::DisplayStatus status of the display module

#### 6.1.3.3 getInput()

```
arcade::IModule::KeyboardInput arcade::ADisplayModule::getInput ( ) const
get input from the user
```

Returns

arcade::IModule::KeyboardInput

#### 6.1.3.4 getName()

```
virtual const arcade::IModule::LibName arcade::ADisplayModule::getName ( ) const [pure virtual]
Implements arcade::IModule.
```

Implemented in arcade::NCurses, arcade::Sdl2, and arcade::Sfml.

#### 6.1.3.5 getType()

```
const arcade::IModule::ModuleType arcade::ADisplayModule::getType ( ) const [virtual]
```

return the type of the module

Returns

const arcade::IModule::ModuleType

Implements arcade::IModule.

# 6.1.3.6 init()

```
virtual void arcade::ADisplayModule::init ( ) [pure virtual]
```

Implements arcade::IModule.

Implemented in arcade::NCurses, arcade::Sdl2, and arcade::Sfml.

#### 6.1.3.7 sendGameData()

receive send data of the game module to the display module

#### **Parameters**

data of the game module (score, map, player position)

#### 6.1.3.8 setDisplayStatus()

set the status of the display module

#### **Parameters**

status	of the display module
--------	-----------------------

#### 6.1.3.9 stop()

```
virtual void arcade::ADisplayModule::stop ( ) [pure virtual]
```

Implements arcade::IModule.

Implemented in arcade::NCurses, arcade::Sdl2, and arcade::Sfml.

#### 6.1.4 Member Data Documentation

#### 6.1.4.1 \_displayStatus

DisplayStatus arcade::ADisplayModule::\_displayStatus [protected]

#### 6.1.4.2 \_event

void\* arcade::ADisplayModule::\_event [protected]

#### 6.1.4.3 \_gameData

arcade::IModule::GameData arcade::ADisplayModule::\_gameData [protected]

#### 6.1.4.4 \_input

arcade::IModule::KeyboardInput arcade::ADisplayModule::\_input [protected]

#### 6.1.4.5 texture

void\* arcade::ADisplayModule::\_texture [protected]

#### 6.1.4.6 window

void\* arcade::ADisplayModule::\_window [protected]

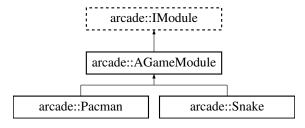
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/ADisplayModule.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ADisplayModule.cpp

# 6.2 arcade::AGameModule Class Reference

#include <AGameModule.hpp>

Inheritance diagram for arcade::AGameModule:



#### **Public Types**

enum GameStatus { RUNNING , PAUSED , GAMEOVER , WIN }

# Public Types inherited from arcade::IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F, G, H, I,
 J,K,L,M,
 N, O, P, Q,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs

    enum ModuleType { GRAPHIC , GAME , CORE }

    all the possible module types
enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### **Public Member Functions**

AGameModule ()

Construct a new arcade::A Game Module::A Game Module object.

•  $\sim$ AGameModule ()

Destroy the arcade::A Game Module::A Game Module object.

- virtual void init ()=0
- virtual void stop ()=0
- void setGameStatus (GameStatus status)
- · GameStatus getDisplayStatus () const

get the status of the game

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

 $get \ the \ name \ of \ the \ game \ library$ 

void sendInput (arcade::IModule::KeyboardInput input)

receive input from the graphic module

• arcade::IModule::GameData sendGameData ()

send the game data to the graphic module

#### Public Member Functions inherited from arcade::IModule

```
• IModule ()
```

- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Protected Attributes**

- arcade::IModule::GameData \_gameData
- arcade::IModule::KeyboardInput \_input
- GameStatus \_gameStatus

# 6.2.1 Member Enumeration Documentation

#### 6.2.1.1 GameStatus

enum arcade::AGameModule::GameStatus

#### Enumerator

RUNNING	
PAUSED	
GAMEOVER	
WIN	

# 6.2.2 Constructor & Destructor Documentation

# 6.2.2.1 AGameModule()

```
arcade::AGameModule::AGameModule ( )
```

Construct a new arcade::A Game Module::A Game Module object.

#### 6.2.2.2 ∼AGameModule()

```
arcade::AGameModule::~AGameModule ( )
```

Destroy the arcade::A Game Module::A Game Module object.

#### 6.2.3 Member Function Documentation

# 6.2.3.1 getDisplayStatus()

```
arcade::AGameModule::GameStatus arcade::AGameModule::getDisplayStatus ( ) const
get the status of the game
```

#### Returns

arcade::AGameModule::GameStatus

#### 6.2.3.2 getName()

```
virtual const arcade::IModule::LibName arcade::AGameModule::getName ( ) const [pure virtual]
```

Implements arcade::IModule.

Implemented in arcade::Pacman, and arcade::Snake.

#### 6.2.3.3 getType()

```
const arcade::IModule::ModuleType arcade::AGameModule::getType ( ) const [virtual]
```

get the name of the game library

Returns

const arcade::IModule::ModuleType

Implements arcade::IModule.

#### 6.2.3.4 init()

```
virtual void arcade::AGameModule::init ( ) [pure virtual]
```

Implements arcade::IModule.

Implemented in arcade::Pacman, and arcade::Snake.

#### 6.2.3.5 sendGameData()

```
arcade::IModule::GameData arcade::AGameModule::sendGameData ( )
```

send the game data to the graphic module

Returns

arcade::IModule::GameData

### 6.2.3.6 sendInput()

receive input from the graphic module

#### **Parameters**

input	KeyboardInput

#### 6.2.3.7 setGameStatus()

virtual void arcade::AGameModule::stop ( ) [pure virtual]

Implements arcade::IModule.

Implemented in arcade::Pacman, and arcade::Snake.

#### 6.2.4 Member Data Documentation

#### 6.2.4.1 \_gameData

```
arcade::IModule::GameData arcade::AGameModule::_gameData [protected]
```

# 6.2.4.2 \_gameStatus

```
GameStatus arcade::AGameModule::_gameStatus [protected]
```

#### 6.2.4.3 \_input

```
arcade::IModule::KeyboardInput arcade::AGameModule::_input [protected]
```

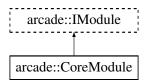
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/AGameModule.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/AGameModule.cpp

# 6.3 arcade::CoreModule Class Reference

```
#include <CoreModule.hpp>
```

Inheritance diagram for arcade::CoreModule:



#### **Public Types**

enum CoreStatus { RUNNING , SELECTION }

# Public Types inherited from arcade:: IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F, G, H, I,
 J, K, L, M,
 N, O, P, Q,
 R,S,T,U,
 V,W,X,Y
 Z, NONE }
    all the possible keyboard inputs
• enum ModuleType { GRAPHIC , GAME , CORE }
    all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### **Public Member Functions**

```
· CoreModule ()
     Construct a new arcade::Core Module::Core Module object.

    ∼CoreModule ()

     Destroy the arcade::Core Module::Core Module object.
void init ()
     load the libraries in the given path
· void stop ()
     stop the core module
• const LibName getName () const
     get the name of the library
• const ModuleType getType () const
     get the type of the library

    void setCoreStatus (CoreStatus status)

     get the status of the core module
· CoreStatus getCoreStatus () const
     get the status of the core module
• std::unique_ptr< ADisplayModule > getDisplayModule ()
     get the display module

    std::unique_ptr< AGameModule > getGameModule ()

     get the game module
• void setModule (arcade::IModule::LibName name, arcade::IModule::ModuleType type)
```

set graphic or game module to the core modulestd::vector< std::string > getLib (std::string pathLib)

#### Public Member Functions inherited from arcade::IModule

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Protected Attributes**

- CoreStatus \_coreStatus
- std::unique\_ptr< arcade::ADisplayModule > \_displayModule
- std::unique\_ptr< arcade::AGameModule > \_gameModule

#### 6.3.1 Member Enumeration Documentation

#### 6.3.1.1 CoreStatus

enum arcade::CoreModule::CoreStatus

#### Enumerator

RUNNING SELECTION

#### 6.3.2 Constructor & Destructor Documentation

#### 6.3.2.1 CoreModule()

```
arcade::CoreModule::CoreModule ( )
```

Construct a new arcade::Core Module::Core Module object.

#### 6.3.2.2 ∼CoreModule()

```
arcade::CoreModule::~CoreModule ( )
```

Destroy the arcade::Core Module::Core Module object.

#### **6.3.3 Member Function Documentation**

#### 6.3.3.1 getCoreStatus()

```
\label{lem:coreModule::CoreModule::getCoreStatus} arcade:: CoreModule:: getCoreStatus \ (\ ) \ const \\ get the status of the core module
```

Returns

CoreStatus

```
6.3.3.2 getDisplayModule()
```

```
std::unique_ptr< arcade::ADisplayModule > arcade::CoreModule::getDisplayModule ( )
get the display module
Returns
     std::unique_ptr<arcade::ADisplayModule>
6.3.3.3 getGameModule()
std::unique_ptr< arcade::AGameModule > arcade::CoreModule::getGameModule ( )
get the game module
Returns
     std::unique_ptr<arcade::AGameModule>
6.3.3.4 getLib()
std::vector< std::string > arcade::CoreModule::getLib (
             std::string pathLib )
6.3.3.5 getName()
const arcade::IModule::LibName arcade::CoreModule::getName ( ) const [virtual]
get the name of the library
Returns
     const arcade::IModule::LibName
Implements arcade::IModule.
6.3.3.6 getType()
const arcade::IModule::ModuleType arcade::CoreModule::getType ( ) const [virtual]
get the type of the library
Returns
     const arcade::IModule::ModuleType
Implements arcade::IModule.
6.3.3.7 init()
void arcade::CoreModule::init ( ) [virtual]
load the libraries in the given path
```

#### **Parameters**

pathLib	path to the libraries
---------	-----------------------

Implements arcade::IModule.

# 6.3.3.8 setCoreStatus()

get the status of the core module

Returns

CoreStatus

# 6.3.3.9 setModule()

set graphic or game module to the core module

#### **Parameters**

name	of the module (snake, pacman, ncurses, sdl2)
type	of the module (graphic or game)

# 6.3.3.10 stop()

```
void arcade::CoreModule::stop ( ) [virtual]
```

stop the core module

Implements arcade::IModule.

# 6.3.4 Member Data Documentation

#### 6.3.4.1 \_coreStatus

```
CoreStatus arcade::CoreModule::_coreStatus [protected]
```

#### 6.3.4.2 \_displayModule

```
std::unique_ptr<arcade::ADisplayModule> arcade::CoreModule::_displayModule [protected]
```

# 6.3.4.3 \_gameModule

```
std::unique_ptr<arcade::AGameModule> arcade::CoreModule::_gameModule [protected]
```

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

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/CoreModule.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/CoreModule.cpp

# 6.4 DLLoader < T > Class Template Reference

```
#include <DLLoader.hpp>
```

#### **Public Member Functions**

- DLLoader (const std::string &libPath)
- ∼DLLoader ()
- T \* getInstance (const std::string &funcName)

#### **Private Attributes**

void \* handle

### 6.4.1 Constructor & Destructor Documentation

# 6.4.1.1 DLLoader()

#### 6.4.1.2 ∼DLLoader()

```
template<typename T >
DLLoader< T >::~DLLoader ( ) [inline]
```

#### **6.4.2 Member Function Documentation**

#### 6.4.2.1 getInstance()

#### 6.4.3 Member Data Documentation

#### 6.4.3.1 handle

```
template<typename T >
void* DLLoader< T >::handle [private]
```

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

/home/tmendy/Documents/Tek2/OOP/Arcade/include/DLLoader.hpp

# 6.5 arcade::IModule::GameData Struct Reference

information about the game from the game module to the graphic module

```
#include <IModule.hpp>
```

# **Public Attributes**

- std::vector< std::vector< int > > display\_info
- std::map< unsigned int, std::string > sprite value

# 6.5.1 Detailed Description

information about the game from the game module to the graphic module

#### 6.5.2 Member Data Documentation

#### 6.5.2.1 display info

# 6.5.2.2 sprite\_value

```
std::map<unsigned int, std::string> arcade::IModule::GameData::sprite_value
```

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

• /home/tmendy/Documents/Tek2/OOP/Arcade/include/IModule.hpp

# 6.6 arcade:: IModule Class Reference

Interface for the modules.

```
#include <IModule.hpp>
```

Inheritance diagram for arcade::IModule:



#### Classes

struct GameData

information about the game from the game module to the graphic module

#### **Public Types**

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F, G, H, I,
 J,K,L,M,
 N, O, P, Q,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs
• enum ModuleType { GRAPHIC , GAME , CORE }
    all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### **Public Member Functions**

```
• IModule ()
```

- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### 6.6.1 Detailed Description

Interface for the modules.

# 6.6.2 Member Enumeration Documentation

# 6.6.2.1 KeyboardInput

enum arcade::IModule::KeyboardInput

all the possible keyboard inputs

# Enumerator

UP	
DOWN	
LEFT	
RIGHT	
SPACE	
ENTER	
ESCAPE	
Α	
В	
С	
D	
Е	
F	
G	
Н	
I	
J	
K	
L	
М	
N	
0	
Р	
Q	
R	
S	
Т	
U	
V	
W	
X	
Y	
Z	
NONE	

# 6.6.2.2 LibName

enum arcade::IModule::LibName

all the possible library names

#### Enumerator

SNAKE	
NIBBLER	
PACMAN	
QIX	
CENTIPEDE	
SOLARFOX	
NCURSES	
SDL	
SFML	
OPENGL	
UNKNOWN	

#### 6.6.2.3 ModuleType

enum arcade::IModule::ModuleType

all the possible module types

#### Enumerator

GRAPHIC	
GAME	
CORE	

# 6.6.3 Constructor & Destructor Documentation

# 6.6.3.1 IModule()

```
arcade::IModule::IModule ( ) [inline]
```

# 6.6.3.2 $\sim$ IModule()

```
\label{local_virtual} \mbox{ virtual arcade::IModule::} \sim \mbox{IModule ( ) [inline], [virtual]}
```

# 6.6.4 Member Function Documentation

# 6.6.4.1 getName()

```
virtual const LibName arcade::IModule::getName ( ) const [pure virtual]
```

Implemented in arcade::CoreModule, arcade::Pacman, arcade::Snake, arcade::NCurses, arcade::Sdl2, arcade::Sfml, arcade::AGameModule, and arcade::ADisplayModule.

#### 6.6.4.2 getType()

```
virtual const ModuleType arcade::IModule::getType ( ) const [pure virtual]
```

Implemented in arcade::CoreModule, arcade::AGameModule, and arcade::ADisplayModule.

#### 6.6.4.3 init()

```
virtual void arcade::IModule::init ( ) [pure virtual]
```

Implemented in arcade::CoreModule, arcade::Pacman, arcade::Snake, arcade::NCurses, arcade::Sdl2, arcade::Sfml, arcade::AGameModule, and arcade::ADisplayModule.

#### 6.6.4.4 stop()

```
virtual void arcade::IModule::stop ( ) [pure virtual]
```

Implemented in arcade::CoreModule, arcade::Pacman, arcade::Snake, arcade::NCurses, arcade::Sdl2, arcade::Sfml, arcade::AGameModule, and arcade::ADisplayModule.

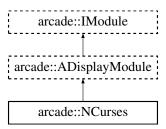
The documentation for this class was generated from the following file:

/home/tmendy/Documents/Tek2/OOP/Arcade/include/IModule.hpp

# 6.7 arcade::NCurses Class Reference

```
#include <NCurses.hpp>
```

Inheritance diagram for arcade::NCurses:



### **Public Member Functions**

- NCurses ()
- ∼NCurses ()
- void init ()
- void stop ()
- · void display ()
- const arcade::IModule::LibName getName () const

# Public Member Functions inherited from arcade::ADisplayModule

ADisplayModule ()

Construct a new arcade::ADisplayModule::ADisplayModule object.

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual void init ()=0
- virtual void stop ()=0
- virtual void display ()=0
- · void setDisplayStatus (DisplayStatus status)

set the status of the display module

DisplayStatus getDisplayStatus () const

return the status of the display module

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

return the type of the module

• arcade::IModule::KeyboardInput getInput () const

get input from the user

• void sendGameData (arcade::IModule::GameData data)

receive send data of the game module to the display module

#### Public Member Functions inherited from arcade:: | Module

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### Additional Inherited Members

# Public Types inherited from arcade::ADisplayModule

```
    enum DisplayStatus {
        RUNNING, PAUSED, SELECTION, GAMEOVER,
        WIN }
```

#### Public Types inherited from arcade:: IModule

```
enum KeyboardInput {
    UP, DOWN, LEFT, RIGHT,
    SPACE, ENTER, ESCAPE, A,
    B, C, D, E,
    F, G, H, I,
    J, K, L, M,
    N, O, P, Q,
    R, S, T, U,
    V, W, X, Y,
    Z, NONE }
```

all the possible keyboard inputs

```
    enum ModuleType { GRAPHIC , GAME , CORE }
        all the possible module types
    enum LibName {
        SNAKE , NIBBLER , PACMAN , QIX ,
        CENTIPEDE , SOLARFOX , NCURSES , SDL ,
        SFML , OPENGL , UNKNOWN }
        all the possible library names
```

## Protected Attributes inherited from arcade::ADisplayModule

```
    void * _window
    void * _texture
    void * _event
    arcade::IModule::GameData _gameData
    arcade::IModule::KeyboardInput _input
    DisplayStatus _displayStatus
```

## 6.7.1 Constructor & Destructor Documentation

```
arcade::NCurses::NCurses ( )
```

#### 6.7.1.2 ∼NCurses()

6.7.1.1 NCurses()

```
arcade::NCurses::\sim NCurses ( )
```

#### 6.7.2 Member Function Documentation

# 6.7.2.1 display()

```
void arcade::NCurses::display ( ) [virtual]
```

Implements arcade::ADisplayModule.

## 6.7.2.2 getName()

```
const arcade::IModule::LibName arcade::NCurses::getName ( ) const [virtual]
```

Implements arcade::ADisplayModule.

# 6.7.2.3 init()

```
void arcade::NCurses::init ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.7.2.4 stop()

```
void arcade::NCurses::stop ( ) [virtual]
```

Implements arcade::ADisplayModule.

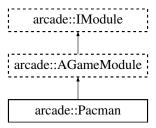
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/NCurses.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ncurses/NCurses.cpp

# 6.8 arcade::Pacman Class Reference

```
#include <Pacman.hpp>
```

Inheritance diagram for arcade::Pacman:



#### **Public Member Functions**

• Pacman ()

Construct a new arcade::Pacman::Pacman object.

∼Pacman ()

Destroy the arcade::Pacman::Pacman object.

- void init ()
- void stop ()
- const arcade::IModule::LibName getName () const

return the name of the game

#### Public Member Functions inherited from arcade::AGameModule

AGameModule ()

Construct a new arcade::A Game Module::A Game Module object.

∼AGameModule ()

Destroy the arcade::A Game Module::A Game Module object.

- virtual void init ()=0
- virtual void stop ()=0
- void setGameStatus (GameStatus status)
- · GameStatus getDisplayStatus () const

get the status of the game

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

get the name of the game library

void sendInput (arcade::IModule::KeyboardInput input)

receive input from the graphic module

arcade::IModule::GameData sendGameData ()

send the game data to the graphic module

#### Public Member Functions inherited from arcade::IModule

```
IModule ()virtual ∼IModule ()
```

- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Additional Inherited Members**

#### Public Types inherited from arcade::AGameModule

enum GameStatus { RUNNING , PAUSED , GAMEOVER , WIN }

# Public Types inherited from arcade::IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F,G,H,I,
 J, K, L, M,
 \mathsf{N} , \mathsf{O} , \mathsf{P} , \mathsf{Q} ,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
     all the possible keyboard inputs
• enum ModuleType { GRAPHIC , GAME , CORE }
     all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
     all the possible library names
```

#### Protected Attributes inherited from arcade::AGameModule

```
• arcade::IModule::GameData _gameData
```

- arcade::IModule::KeyboardInput \_input
- GameStatus \_gameStatus

#### 6.8.1 Constructor & Destructor Documentation

### 6.8.1.1 Pacman()

```
arcade::Pacman::Pacman ( )
```

Construct a new arcade::Pacman::Pacman object.

#### 6.8.1.2 ∼Pacman()

```
arcade::Pacman::~Pacman ( )
```

Destroy the arcade::Pacman::Pacman object.

#### 6.8.2 Member Function Documentation

#### 6.8.2.1 getName()

```
const arcade::IModule::LibName arcade::Pacman::getName ( ) const [virtual]
```

return the name of the game

Returns

const arcade::IModule::LibName

Implements arcade::AGameModule.

#### 6.8.2.2 init()

```
void arcade::Pacman::init ( ) [inline], [virtual]
```

Implements arcade::AGameModule.

### 6.8.2.3 stop()

```
void arcade::Pacman::stop ( ) [inline], [virtual]
```

Implements arcade::AGameModule.

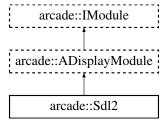
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/Pacman.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/pacman/Pacman.cpp

# 6.9 arcade::Sdl2 Class Reference

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

Inheritance diagram for arcade::Sdl2:



#### **Public Member Functions**

```
• Sdl2 ()
```

- ∼Sdl2 ()
- void init ()

initailize the SDL2 module and create a window

• void stop ()

stop the SDL2 module and destroy the window

· void display ()

display information on the window

const arcade::IModule::LibName getName () const

return the name of the module

# Public Member Functions inherited from arcade::ADisplayModule

• ADisplayModule ()

Construct a new arcade::ADisplayModule::ADisplayModule object.

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual void init ()=0
- virtual void stop ()=0
- virtual void display ()=0
- void setDisplayStatus (DisplayStatus status)

set the status of the display module

• DisplayStatus getDisplayStatus () const

return the status of the display module

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

return the type of the module

· arcade::IModule::KeyboardInput getInput () const

get input from the user

void sendGameData (arcade::IModule::GameData data)

receive send data of the game module to the display module

#### Public Member Functions inherited from arcade:: | Module

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Additional Inherited Members**

## Public Types inherited from arcade::ADisplayModule

```
    enum DisplayStatus {
        RUNNING, PAUSED, SELECTION, GAMEOVER,
        WIN }
```

# Public Types inherited from arcade::IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F,G,H,I,
 J, K, L, M,
 N, O, P, Q,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs
• enum ModuleType { GRAPHIC , GAME , CORE }
    all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### Protected Attributes inherited from arcade::ADisplayModule

```
void * _window
void * _texture
void * _event
arcade::IModule::GameData _gameData
arcade::IModule::KeyboardInput _input
DisplayStatus _displayStatus
```

#### 6.9.1 Constructor & Destructor Documentation

```
arcade::Sdl2::Sdl2 ( )
6.9.1.2 ~Sdl2()
arcade::Sdl2::~Sdl2 ( )
```

6.9.1.1 SdI2()

#### 6.9.2 Member Function Documentation

```
6.9.2.1 display()
```

```
void arcade::Sdl2::display ( ) [virtual]
```

display information on the window

Implements arcade::ADisplayModule.

#### 6.9.2.2 getName()

```
const arcade::IModule::LibName arcade::Sdl2::getName ( ) const [virtual]
```

return the name of the module

Returns

const arcade::IModule::LibName

Implements arcade::ADisplayModule.

#### 6.9.2.3 init()

```
void arcade::Sdl2::init ( ) [virtual]
```

initailize the SDL2 module and create a window

Implements arcade::ADisplayModule.

## 6.9.2.4 stop()

```
void arcade::Sdl2::stop ( ) [virtual]
```

stop the SDL2 module and destroy the window

Implements arcade::ADisplayModule.

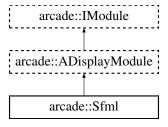
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/Sdl2.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sdl2/Sdl2.cpp

# 6.10 arcade::Sfml Class Reference

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

Inheritance diagram for arcade::Sfml:



#### **Public Member Functions**

- Sfml ()
- ∼SfmI ()
- arcade::IModule::KeyboardInput getInput ()
- void init ()
- void stop ()
- · void display ()
- const arcade::IModule::LibName getName () const

# Public Member Functions inherited from arcade::ADisplayModule

• ADisplayModule ()

Construct a new arcade::ADisplayModule::ADisplayModule object.

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual void init ()=0
- virtual void stop ()=0
- virtual void display ()=0
- · void setDisplayStatus (DisplayStatus status)

set the status of the display module

• DisplayStatus getDisplayStatus () const

return the status of the display module

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

return the type of the module

· arcade::IModule::KeyboardInput getInput () const

get input from the user

void sendGameData (arcade::IModule::GameData data)

receive send data of the game module to the display module

#### Public Member Functions inherited from arcade:: | Module

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Private Attributes**

- sf::Texture texture
- sf::Font font

#### **Additional Inherited Members**

# Public Types inherited from arcade::ADisplayModule

```
    enum DisplayStatus {
        RUNNING, PAUSED, SELECTION, GAMEOVER,
        WIN }
```

# Public Types inherited from arcade::IModule

```
enum KeyboardInput {
 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F,G,H,I,
 J, K, L, M,
 N, O, P, Q,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs

    enum ModuleType { GRAPHIC , GAME , CORE }

    all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

# Protected Attributes inherited from arcade::ADisplayModule

```
    void * _window
    void * _texture
    void * _event
    arcade::IModule::GameData _gameData
    arcade::IModule::KeyboardInput _input
    DisplayStatus _displayStatus
```

### 6.10.1 Constructor & Destructor Documentation

```
6.10.1.1 Sfml()

arcade::Sfml::Sfml ( )

6.10.1.2 ~Sfml()

arcade::Sfml::~Sfml ( )
```

#### 6.10.2 Member Function Documentation

```
6.10.2.1 display()

void arcade::Sfml::display ( ) [virtual]

Implements arcade::ADisplayModule.
```

#### 6.10.2.2 getInput()

```
arcade::IModule::KeyboardInput arcade::Sfml::getInput ( )
6.10.2.3    getName()
const arcade::IModule::LibName arcade::Sfml::getName ( ) const [virtual]
Implements arcade::ADisplayModule.
6.10.2.4    init()
void arcade::Sfml::init ( ) [virtual]
Implements arcade::ADisplayModule.
6.10.2.5    stop()
void arcade::Sfml::stop ( ) [virtual]
```

## 6.10.3 Member Data Documentation

Implements arcade::ADisplayModule.

#### 6.10.3.1 \_font

```
\verb|sf::Font arcade::Sfml::_font [private]|\\
```

### 6.10.3.2 \_texture

```
sf::Texture arcade::Sfml::_texture [private]
```

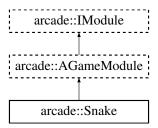
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/Sfml.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sfml/Sfml.cpp

## 6.11 arcade::Snake Class Reference

```
#include <Snake.hpp>
```

Inheritance diagram for arcade::Snake:



#### **Public Member Functions**

• Snake ()

Construct a new arcade::Snake::Snake object.

• ~Snake ()

Destroy the arcade::Snake::Snake object.

• void init ()

init the game

• void stop ()

stop the game

• const arcade::IModule::LibName getName () const

return the name of the game library

#### Public Member Functions inherited from arcade::AGameModule

• AGameModule ()

Construct a new arcade::A Game Module::A Game Module object.

∼AGameModule ()

Destroy the arcade::A Game Module::A Game Module object.

- virtual void init ()=0
- virtual void stop ()=0
- void setGameStatus (GameStatus status)
- · GameStatus getDisplayStatus () const

get the status of the game

- virtual const arcade::IModule::LibName getName () const =0
- const arcade::IModule::ModuleType getType () const

get the name of the game library

void sendInput (arcade::IModule::KeyboardInput input)

receive input from the graphic module

arcade::IModule::GameData sendGameData ()

send the game data to the graphic module

#### Public Member Functions inherited from arcade:: | Module

- IModule ()
- virtual ∼IModule ()
- virtual void init ()=0
- virtual void stop ()=0
- virtual const LibName getName () const =0
- virtual const ModuleType getType () const =0

#### **Additional Inherited Members**

#### Public Types inherited from arcade::AGameModule

enum GameStatus { RUNNING , PAUSED , GAMEOVER , WIN }

# Public Types inherited from arcade::IModule

```
    enum KeyboardInput {

 UP, DOWN, LEFT, RIGHT,
 SPACE, ENTER, ESCAPE, A,
 B,C,D,E,
 F, G, H, I,
 J, K, L, M,
 N, O, P, Q,
 R,S,T,U,
 V, W, X, Y,
 Z, NONE }
    all the possible keyboard inputs

    enum ModuleType { GRAPHIC , GAME , CORE }

    all the possible module types
• enum LibName {
 SNAKE, NIBBLER, PACMAN, QIX,
 CENTIPEDE, SOLARFOX, NCURSES, SDL,
 SFML, OPENGL, UNKNOWN }
    all the possible library names
```

#### Protected Attributes inherited from arcade::AGameModule

```
• arcade::IModule::GameData gameData
```

- arcade::IModule::KeyboardInput input
- · GameStatus \_gameStatus

#### 6.11.1 Constructor & Destructor Documentation

```
6.11.1.1 Snake()
```

```
arcade::Snake::Snake ( )
```

Construct a new arcade::Snake::Snake object.

```
6.11.1.2 ∼Snake()
```

```
arcade::Snake::~Snake ( )
```

Destroy the arcade::Snake::Snake object.

#### 6.11.2 Member Function Documentation

# 6.11.2.1 getName()

```
const arcade::IModule::LibName arcade::Snake::getName ( ) const [virtual]
```

return the name of the game library

Returns

const arcade::IModule::LibName

Implements arcade::AGameModule.

## 6.11.2.2 init()

```
void arcade::Snake::init ( ) [virtual]
```

init the game

Implements arcade::AGameModule.

## 6.11.2.3 stop()

```
void arcade::Snake::stop ( ) [virtual]
```

stop the game

Implements arcade::AGameModule.

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

- /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/Snake.hpp
- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/snake/Snake.cpp

# **Chapter 7**

# **File Documentation**

# 7.1 /home/tmendy/Documents/Tek2/OOP/Arcade/include/Core Module.hpp File Reference

```
#include "ADisplayModule.hpp"
#include "AGameModule.hpp"
#include "IModule.hpp"
#include <memory>
#include <iostream>
#include <dirent.h>
```

#### Classes

· class arcade::CoreModule

# **Namespaces**

namespace arcade
 namespace for the arcade project

# 7.2 CoreModule.hpp

```
O0001 /*

00002 ** EPITECH PROJECT, 2024

00003 ** Arcade

00004 ** File description:

00005 ** CoreModule

00006 */

00007

00008 #ifndef COREMODULE_HPP_

00009 #define COREMODULE_HPP_

00010

0011 #include "ADisplayModule.hpp"

0012 #include "AGameModule.hpp"

0013 #include "IModule.hpp"

0014 #include <memory>

0015 #include <iostream>

0016 #include <dirent.h>
```

```
00018 namespace arcade {
00019 class CoreModule : virtual public arcade::IModule {
00020 public:
00021
       CoreModule();
00022
        ~CoreModule();
        void init();
00024
       void stop();
00025
       const LibName getName() const;
       const ModuleType getType() const;
enum CoreStatus { RUNNING, SELECTION };
00026
00027
        void setCoreStatus(CoreStatus status);
00028
       CoreStatus getCoreStatus() const;
00029
00030
       std::unique_ptr<ADisplayModule> getDisplayModule();
00031
       std::unique_ptr<AGameModule> getGameModule();
00032
       void setModule(arcade::IModule::LibName name,
00033
                       arcade::IModule::ModuleType type);
00034
       std::vector<std::string> getLib(std::string pathLib);
00036 protected:
00037
      CoreStatus _coreStatus;
00038
       std::unique_ptr<arcade::ADisplayModule> _displayModule;
00039
       std::unique_ptr<arcade::AGameModule> _gameModule;
00040 }:
00041 }; // namespace arcade
00043 #endif /* !COREMODULE_HPP_ */
```

# 7.3 /home/tmendy/Documents/Tek2/OOP/Arcade/include/DLLoader.hpp File Reference

```
#include <dlfcn.h>
#include <iostream>
```

#### Classes

class DLLoader< T >

# 7.4 DLLoader.hpp

```
00001 #include <dlfcn.h>
00002 #include <iostream>
00003
00004 template <typename T>
00005 class DLLoader {
00006 private:
00007
       void *handle;
80000
00009 public:
00010
       DLLoader(const std::string &libPath)
00011
00012
         handle = dlopen(libPath.c_str(), RTLD_LAZY);
00013
         if (!handle) {
           std::cerr « dlerror() « std::endl;
00014
00015
00016
00017
00018
00019
       ~DLLoader()
00020
00021
        if (handle)
00022
            dlclose(handle);
00023
00024
00025
       T *getInstance(const std::string &funcName)
00026
          void *sym = dlsym(handle, funcName.c_str());
```

# 7.5 /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/AGame⊸ Module.hpp File Reference

```
#include "IModule.hpp"
```

#### Classes

· class arcade::AGameModule

#### **Namespaces**

• namespace arcade namespace for the arcade project

# 7.6 AGameModule.hpp

```
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** AGameModule
00006 */
00007
00008 #ifndef AGAMEMODULE_HPP_
00009 #define AGAMEMODULE_HPP_
00010
00011 #include "IModule.hpp"
00012
00013 namespace arcade {
00014 class AGameModule : virtual public arcade::IModule {
00015 public:
00016 enum GameStatus { RUNNING, PAUSED, GAMEOVER, WIN };
00017 AGameModule();
00018 ~AGameModule();
        virtual void init() = 0;
00020 virtual void stop() = 0;
00021
00022 void setGameStatus(GameStatus status 00023 GameStatus getDisplayStatus() const;
        void setGameStatus(GameStatus status);
00024
00025
        virtual const arcade::IModule::LibName getName() const = 0;
00026
        const arcade::IModule::ModuleType getType() const;
00027
00028 void sendInput(arcade::IModule::KeyboardInput input);
00029 arcade::IModule::GameData sendGameData();
00030
00031 protected:
00032 arcade::IModule::GameData _gameData;
00033 arcade::IModule::KeyboardInput _inpu
        arcade::IModule::KeyboardInput _input;
00034 GameStatus _gameStatus;
00035 1:
00036 }; // namespace arcade
00038 #endif /* !IGAMEMODULE_HPP_ */
```

# 7.7 /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/ Pacman.hpp File Reference

#include "AGameModule.hpp"

#### Classes

· class arcade::Pacman

#### **Namespaces**

namespace arcade

namespace for the arcade project

# 7.8 Pacman.hpp

#### Go to the documentation of this file.

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** Pacman
00006 */
00007
00008 #ifndef PACMAN_HPP_
00009 #define PACMAN_HPP_
00010
00011 #include "AGameModule.hpp"
00012
00013 namespace arcade {
00014 class Pacman : virtual public arcade::AGameModule {
00015 public:
00016 Pacman();
00017
       ~Pacman();
00022 protected:
00023 private:
00024 };
00025 \}; // namespace arcade
00026
00027 #endif /* !PACMAN_HPP_ */
```

# 7.9 /home/tmendy/Documents/Tek2/OOP/Arcade/include/game/ Snake.hpp File Reference

#include "AGameModule.hpp"

#### Classes

· class arcade::Snake

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#### **Namespaces**

· namespace arcade

namespace for the arcade project

# 7.10 Snake.hpp

#### Go to the documentation of this file.

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** Snake
00006 */
00007
00008 #ifndef SNAKE_HPP_
00009 #define SNAKE_HPP_
00010
00011 #include "AGameModule.hpp"
00012
00013 namespace arcade {
00014 class Snake : virtual public arcade::AGameModule {
00015 public:
00016 Snake();
00017 ~Snake()
         ~Snake();
00017 ~SHARE(),
00018 void init();
00019 void stop();
00020 const arcade::IModule::LibName getName() const;
00022 protected:
00023 private:
00024 };
00025 }; // namespace arcade
00026
00027 #endif /* !SNAKE_HPP_ */
```

# 7.11 /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/ ADisplayModule.hpp File Reference

```
#include "IModule.hpp"
```

#### Classes

• class arcade::ADisplayModule

# **Namespaces**

· namespace arcade

namespace for the arcade project

# 7.12 ADisplayModule.hpp

#### Go to the documentation of this file.

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** bsArcade
00004 ** File description:
00005 ** ADisplayModule
00006 */
00007
00008 #ifndef ADISPLAYMODULE_HPP_
00009 #define ADISPLAYMODULE_HPP_
00011 #include "IModule.hpp"
00012
00013 namespace arcade {
00014 class ADisplayModule : virtual public arcade::IModule {
00015 public:
00016
       enum DisplayStatus { RUNNING, PAUSED, SELECTION, GAMEOVER, WIN };
00017
       ADisplayModule();
00018
       ~ADisplayModule();
00019
       virtual void init() = 0;
       virtual void stop() = 0;
00020
00021
00022
       virtual void display() = 0;
       void setDisplayStatus (DisplayStatus status);
00024
       DisplayStatus getDisplayStatus() const;
00025
00026
       virtual const arcade::IModule::LibName getName() const = 0;
00027
       const arcade::IModule::ModuleType getType() const;
00028
00029
       arcade::IModule::KeyboardInput getInput() const;
00030
       void sendGameData(arcade::IModule::GameData data);
00031
00032 protected:
00033
00034
       void *_window;
void *_texture;
00035
       void *_event;
00036
       arcade::IModule::GameData _gameData;
00037
        arcade::IModule::KeyboardInput _input;
00038 DisplayStatus _displayStatus;
00039 1:
00040 }; // namespace arcade
00042 #endif /* !ADISPLAYMODULE_HPP_ */
```

# 7.13 /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/ NCurses.hpp File Reference

```
#include "ADisplayModule.hpp"
#include <ncurses.h>
```

#### Classes

class arcade::NCurses

#### **Namespaces**

• namespace arcade

namespace for the arcade project

7.14 NCurses.hpp 51

# 7.14 NCurses.hpp

#### Go to the documentation of this file.

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** NCurses
00006 */
00007
00008 #ifndef NCURSES_HPP_
00009 #define NCURSES_HPP_
00010
00011 #include "ADisplayModule.hpp"
00012 #include <ncurses.h>
00013
00014 namespace arcade {
00015 class NCurses : virtual public arcade::ADisplayModule {
00016 public:
00017 NCurses();
00018 ~NCurses()
        ~NCurses();
00019 void init();
00020 void stop();
00021 void display();
00022 const arcade::IModule::LibName getName() const;
00023
00024 protected:
00025 private:
00026 };
00027 }; // namespace arcade
00028
00029 #endif /* !NCURSES_HPP_ */
```

# 7.15 /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/ Sdl2.hpp File Reference

```
#include "ADisplayModule.hpp"
#include <SDL2/SDL.h>
```

#### Classes

· class arcade::Sdl2

#### **Namespaces**

· namespace arcade

namespace for the arcade project

# 7.16 Sdl2.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** SDL2
00006 */
00007
00008 #ifndef SDL2_HPP_
00009 #define SDL2_HPP_
```

```
00011 #include "ADisplayModule.hpp'
00012 #include <SDL2/SDL.h>
00013
00014 namespace arcade { 00015 class Sd12 : virtual public arcade::ADisplayModule {
00016 public:
        ~Sd12();
00018
00019
       void init();
00020
       void stop();
00021
       void display();
00022 const arcade::IModule::LibName getName() const;
00023
00024 protected:
00025 private:
00026 };
00027 }; // namespace arcade
00028
00029 #endif /* !SDL2_HPP_ */
```

# 7.17 /home/tmendy/Documents/Tek2/OOP/Arcade/include/graphic/ Sfml.hpp File Reference

```
#include "ADisplayModule.hpp"
#include <SFML/Graphics.hpp>
```

#### Classes

· class arcade::Sfml

#### **Namespaces**

· namespace arcade

namespace for the arcade project

# 7.18 Sfml.hpp

```
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** SFML
00006 */
00007
00008 #ifndef SFML_HPP_
00009 #define SFML_HPP_
00010
00011 #include "ADisplayModule.hpp"
00012 #include <SFML/Graphics.hpp>
00013
00014 namespace arcade {
00015 class Sfml : virtual public arcade::ADisplayModule {
00016 public:
00017
        Sfml();
00018
        ~Sfml();
00019
00020
        arcade::IModule::KeyboardInput getInput();
00021
        void init();
00022
       void stop();
00023
       void display();
00024
       const arcade::IModule::LibName getName() const;
00025
00026 protected:
00027 private:
00028
      sf::Texture _texture;
00029
       sf::Font _font;
00030 };
00031 }; // namespace arcade
00033 #endif /* !SFML_HPP_ */
```

# 7.19 /home/tmendy/Documents/Tek2/OOP/Arcade/include/IModule.hpp File Reference

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

#### Classes

· class arcade::IModule

Interface for the modules.

· struct arcade::IModule::GameData

information about the game from the game module to the graphic module

#### **Namespaces**

· namespace arcade

namespace for the arcade project

# 7.20 IModule.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** IModule
00006 */
00007
00008 #ifndef IMODULE_HPP_
00009 #define IMODULE_HPP_
00010
00011 #include <map> // Include the necessary header file
00012 #include <string>
00013 #include <vector>
00014
00019 namespace arcade {
00024 class IModule {
00025 public:
virtual void init() = 0;
00028
00028 VIII.udi void stop() = 0;

00029 virtual void stop() = 0;

00035 struct GameData {
        std::wector<std::vector<int» display_info;
std::map<unsigned int, std::string> sprite_value;
00037
00038
00039
00044
        enum KeyboardInput {
00045
           UP,
00046
           DOWN,
00047
00048
           RIGHT,
00049
           SPACE,
00050
           ENTER.
00051
           ESCAPE,
00052
00053
           В,
00054
00055
00056
           Ε,
00057
00058
           G,
00059
           Η,
```

```
00061
00062
00063
00064
00065
00066
00067
00068
00069
00070
00071
00072
00073
00074
00075
00076
00077
00078
00079
08000
        enum ModuleType { GRAPHIC, GAME, CORE };
00085
00086
        enum LibName {
// GAME
00091
00092
00093
           SNAKE,
00094
          NIBBLER,
00095
          PACMAN,
          QIX,
CENTIPEDE,
00096
00097
00098
          SOLARFOX,
00099
           // GRAPHIC
00100
           NCURSES,
00101
           SDL,
          SFML,
OPENGL,
00102
00103
          // CORE
UNKNOWN
00104
00106
00107
        virtual const LibName getName() const = 0;
00108
        virtual const ModuleType getType() const = 0;
00109 };
00110 }; // namespace arcade
00112 #endif /* !IMODULE_HPP_ */
```

# 7.21 /home/tmendy/Documents/Tek2/OOP/Arcade/include/Macros.hpp File Reference

#### **Macros**

- #define OK 0
- #define KO 84
- #define ERROR (-1)

# 7.21.1 Macro Definition Documentation

#### 7.21.1.1 ERROR

#define ERROR (-1)

# 7.21.1.2 KO

#define KO 84

#### 7.21.1.3 OK

```
#define OK 0
```

# 7.22 Macros.hpp

#### Go to the documentation of this file.

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** Macros
00006 */
00007
00008 #ifndef MACROS_HPP_
00009 #define MACROS_HPP_
00010 #define OK 0
00011 #define KO 84
00012 #define ERROR (-1)
00013
00014 #endif /* !MACROS_HPP_ */
```

# 7.23 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/CoreModule.cpp File Reference

```
#include "CoreModule.hpp"
#include <NCurses.hpp>
#include <Pacman.hpp>
#include <Sdl2.hpp>
#include <Snake.hpp>
```

#### **Functions**

std::vector < std::string > getLib (std::string pathLib)
 get the list of libraries in the given path

#### 7.23.1 Function Documentation

#### 7.23.1.1 getLib()

get the list of libraries in the given path

#### **Parameters**

طان الطاحة مد	ممانيمينوانا ممالا مقاطمها
painlib	path to the libraries
,	'

#### Returns

std::vector<std::string> list of libraries

# 7.24 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/AGame Module.cpp File Reference

```
#include "AGameModule.hpp"
```

# 7.25 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/pacman/← Pacman.cpp File Reference

```
#include "Pacman.hpp"
```

#### **Functions**

```
    void init ()
        initialize the game
```

• void stop ()

stop the game

• arcade::Pacman \* entryPoint ()

generate entry point for the game library

## 7.25.1 Function Documentation

# 7.25.1.1 entryPoint()

```
arcade::Pacman * entryPoint ( )
generate entry point for the game library
```

# 7.25.1.2 init()

void init ( )

initialize the game

### 7.25.1.3 stop()

void stop ( )

stop the game

# 7.26 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/snake/ Snake.cpp File Reference

```
#include "Snake.hpp"
```

#### **Functions**

arcade::Snake \* entryPoint ()
 generate entry point for the game library

#### 7.26.1 Function Documentation

#### 7.26.1.1 entryPoint()

```
arcade::Snake * entryPoint ( )
generate entry point for the game library
```

# 7.27 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ ADisplayModule.cpp File Reference

```
#include "ADisplayModule.hpp"
```

# 7.28 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ncurses/ NCurses.cpp File Reference

```
#include "NCurses.hpp"
```

#### **Functions**

• arcade::NCurses \* entryPoint ()

#### 7.28.1 Function Documentation

#### 7.28.1.1 entryPoint()

```
arcade::NCurses * entryPoint ( )
```

# 7.29 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sdl2/ Sdl2.cpp File Reference

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

#### **Functions**

• arcade::Sdl2 \* entryPoint ()

#### 7.29.1 Function Documentation

## 7.29.1.1 entryPoint()

```
arcade::Sdl2 * entryPoint ( )
```

# 7.30 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sfml/ Sfml.cpp File Reference

```
#include "Sfml.hpp"
```

#### **Functions**

arcade::Sfml \* entryPoint ()

#### 7.30.1 Function Documentation

#### 7.30.1.1 entryPoint()

```
arcade::Sfml * entryPoint ( )
```

# 7.31 /home/tmendy/Documents/Tek2/OOP/Arcade/src/Main.cpp File Reference

```
#include "DLLoader.hpp"
#include "IModule.hpp"
#include "Macros.hpp"
#include <ADisplayModule.hpp>
#include <cstring>
#include <iostream>
#include <libgen.h>
#include <unistd.h>
```

# **Functions**

```
    int arcadeRe (char *path_graphic_lib)
        launch the arcade

    bool is_good_graphic_lib (char *path_graphic_lib)
        check if the library is a good graphic library
```

void help (void)

display the help

• int main (int ac, char \*\*av)

#### 7.31.1 Function Documentation

### 7.31.1.1 arcadeRe()

launch the arcade

#### **Parameters**

#### Returns

int OK if the arcade is launched

# 7.31.1.2 help()

display the help

## 7.31.1.3 is\_good\_graphic\_lib()

check if the library is a good graphic library

#### **Parameters**

	path graphic lib	path of the graphic library
ı		point of the group more y

# Returns

true if the library is a good graphic library false if the library is not a good graphic library

# 7.31.1.4 main()

```
int main (  \mbox{int $ac$,} \\ \mbox{char ** $av$ )}
```

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