### Arcade

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### 1.1 Namespace List

Here is a list	of	all I	naı	me	sp	ac	es	w	ith	br	ief	f d	es	cri	ipti	on	ıs:													
arcade																														,

2 Namespace Index

## **Hierarchical Index**

### 2.1 Class Hierarchy

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

ade::IDisplayModule		
arcade::ADisplayModule	1	1
arcade::NCurses	1	7
arcade::Sdl2	2	2
arcade::Sfml	2	Ę
ade::IGameModule		
arcade::AGameModule	1	4
arcade::Pacman	2	C
arcade::Snake	2	8

4 Hierarchical Index

## **Class Index**

### 3.1 Class List

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

arcade::ADisplayModule	1
arcade::AGameModule	1
arcade::NCurses	1
arcade::Pacman	
arcade::Sdl2	
arcade::Sfml	
arcade::Snake	

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## **File Index**

### 4.1 File List

Here is a list of all files with brief descriptions:

/home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/AGameModule.cpp	1
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/AGameModule.hpp	1
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/pacman/Pacman.cpp	2
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/pacman/Pacman.hpp	3
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/snake/Snake.cpp	3
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/home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ADisplayModule.hpp	ô
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ncurses/NCurses.cpp	7
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/home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sdl2/Sdl2.cpp	9
/home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sdl2/Sdl2.hpp	9
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/home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sfml.hpp	1
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/home/tmendy/Documents/Tek2/OOP/Arcade/src/Main.cpp	3
/home/tmendy/Documents/Tek2/OOP/Arcade/src/Shell.cpp	4

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# **Namespace Documentation**

### 5.1 arcade Namespace Reference

#### Classes

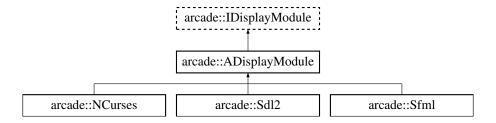
- class ADisplayModule
- class AGameModule
- class NCurses
- class Pacman
- class Sdl2
- class Sfml
- class Snake

### **Class Documentation**

### 6.1 arcade::ADisplayModule Class Reference

#include <ADisplayModule.hpp>

Inheritance diagram for arcade::ADisplayModule:



#### **Public Member Functions**

ADisplayModule ()

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

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual std::string getName ()=0
- void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the display module

• arcade::CoreModule \* getCoreModule () const

get the core module

- virtual void clearWindow ()=0
- virtual void displayWindow ()=0
- virtual arcade::KeyboardInput getInput ()=0
- virtual void drawSprite (std::pair < char, std::string > sprite, int x, int y, int width, int height)=0
- virtual void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)=0
- virtual void drawText (const std::string text, int x, int y, int size)=0

#### 6.1.1 Constructor & Destructor Documentation

#### 6.1.1.1 ADisplayModule()

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

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

#### 6.1.1.2 ∼ADisplayModule()

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

Destroy the arcade::ADisplayModule::ADisplayModule object.

#### 6.1.2 Member Function Documentation

#### 6.1.2.1 clearWindow()

```
\label{thm:cond} \mbox{virtual void arcade::ADisplayModule::clearWindow ( ) } \mbox{ [pure virtual]}
```

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

#### 6.1.2.2 displayWindow()

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

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

#### 6.1.2.3 drawAllSprite()

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

#### 6.1.2.4 drawSprite()

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

#### 6.1.2.5 drawText()

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

#### 6.1.2.6 getCoreModule()

```
arcade::CoreModule * arcade::ADisplayModule::getCoreModule ( ) const
get the core module
```

Returns

arcade::CoreModule \*

#### 6.1.2.7 getInput()

```
virtual arcade::KeyboardInput arcade::ADisplayModule::getInput ( ) [pure virtual]
Implemented in arcade::NCurses, arcade::Sdl2, and arcade::Sfml.
```

#### 6.1.2.8 getName()

```
virtual std::string arcade::ADisplayModule::getName ( ) [pure virtual]
```

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

#### 6.1.2.9 setCoreModule()

set the core module to the display module

**Parameters** 

coreModule

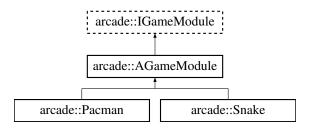
The documentation for this class was generated from the following files:

- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/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 Member Functions**

· AGameModule ()

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

∼AGameModule ()

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

- virtual std::string getName ()=0
- virtual void init ()=0
- virtual void updateGame ()=0
- void setGameStatus (GameStatus status)
- GameStatus getGameStatus () const

get the status of the game

void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the game module

arcade::CoreModule \* getCoreModule () const

get the core module

void setDirection (arcade::KeyboardInput direction)

set the direction of the game

• arcade::KeyboardInput getDirection () const

get the direction of the game

int getLayerCell (int layer, int x, int y) const

get the cell of the map

• virtual void handdleKeyEvents (arcade::KeyboardInput key)=0

#### 6.2.1 Constructor & Destructor Documentation

#### 6.2.1.1 AGameModule()

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

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

#### 6.2.1.2 ∼AGameModule()

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

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

#### 6.2.2 Member Function Documentation

#### 6.2.2.1 getCoreModule()

```
arcade::CoreModule * arcade::AGameModule::getCoreModule ( ) const
get the core module

Returns
    arcade::CoreModule *
```

#### 6.2.2.2 getDirection()

```
\label{lem:arcade::AGameModule::getDirection ( ) const} \\ get the direction of the game
```

Returns

arcade::KeyboardInput

#### 6.2.2.3 getGameStatus()

```
\label{lem:arcade::AGameModule::getGameStatus ( ) const} \\ get the status of the game
```

Returns

arcade::AGameModule::GameStatus

#### 6.2.2.4 getLayerCell()

get the cell of the map

#### **Parameters**



Returns

int

#### 6.2.2.5 getName()

```
virtual std::string arcade::AGameModule::getName ( ) [pure virtual]
```

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

#### 6.2.2.6 handdleKeyEvents()

```
\label{lem:arcade::AGameModule::handdleKeyEvents (} arcade::KeyboardInput \ \textit{key} \ ) \ \ [pure virtual]
```

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

#### 6.2.2.7 init()

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

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

#### 6.2.2.8 setCoreModule()

set the core module to the game module

**Parameters** 

coreModule

#### 6.2.2.9 setDirection()

set the direction of the game

**Parameters** 

direction

#### 6.2.2.10 setGameStatus()

```
void arcade::AGameModule::setGameStatus ( {\tt GameStatus}\ status\ )
```

#### 6.2.2.11 updateGame()

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

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

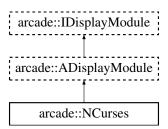
The documentation for this class was generated from the following files:

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

#### 6.3 arcade::NCurses Class Reference

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

Inheritance diagram for arcade::NCurses:



#### **Public Member Functions**

- NCurses ()
- $\sim$ NCurses ()
- std::string getName ()
- void clearWindow ()
- void displayWindow ()
- arcade::KeyboardInput getInput ()
- void drawSprite (std::pair< char, std::string > sprite, int x, int y, int width, int height)
- void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)
- void drawText (const std::string text, int x, int y, int size)

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

• ADisplayModule ()

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

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual std::string getName ()=0
- void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the display module

arcade::CoreModule \* getCoreModule () const

get the core module

- virtual void clearWindow ()=0
- virtual void displayWindow ()=0
- virtual arcade::KeyboardInput getInput ()=0
- virtual void drawSprite (std::pair < char, std::string > sprite, int x, int y, int width, int height)=0
- virtual void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)=0
- virtual void drawText (const std::string text, int x, int y, int size)=0

#### **Protected Attributes**

WINDOW \* window

#### 6.3.1 Constructor & Destructor Documentation

#### 6.3.1.1 NCurses()

```
arcade::NCurses::NCurses ( )
6.3.1.2 ~NCurses()
arcade::NCurses::~NCurses ( )
```

#### 6.3.2 Member Function Documentation

#### 6.3.2.1 clearWindow()

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

Implements arcade::ADisplayModule.

#### 6.3.2.2 displayWindow()

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

Implements arcade::ADisplayModule.

#### 6.3.2.3 drawAllSprite()

```
void arcade::NCurses::drawAllSprite (
    std::pair< char, std::string > sprite,
    std::vector< std::pair< int, int > > coordinates,
    int width,
    int height ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.3.2.4 drawSprite()

```
void arcade::NCurses::drawSprite (
          std::pair< char, std::string > sprite,
          int x,
          int y,
          int width,
          int height ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.3.2.5 drawText()

Implements arcade::ADisplayModule.

#### 6.3.2.6 getInput()

```
arcade::KeyboardInput arcade::NCurses::getInput ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.3.2.7 getName()

```
\verb|std::string| arcade::NCurses::getName ( ) [virtual]|\\
```

Implements arcade::ADisplayModule.

#### 6.3.3 Member Data Documentation

#### 6.3.3.1 \_window

```
WINDOW* arcade::NCurses::_window [protected]
```

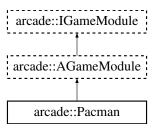
The documentation for this class was generated from the following files:

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

#### 6.4 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.

- std::string getName ()
- void init ()
- void updateGame ()
- void handdleKeyEvents (arcade::KeyboardInput key)

#### 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 std::string getName ()=0
- virtual void init ()=0
- virtual void updateGame ()=0
- · void setGameStatus (GameStatus status)
- GameStatus getGameStatus () const

get the status of the game

• void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the game module

arcade::CoreModule \* getCoreModule () const

get the core module

void setDirection (arcade::KeyboardInput direction)

set the direction of the game

• arcade::KeyboardInput getDirection () const

get the direction of the game

• int getLayerCell (int layer, int x, int y) const

get the cell of the map

• virtual void handdleKeyEvents (arcade::KeyboardInput key)=0

#### 6.4.1 Constructor & Destructor Documentation

#### 6.4.1.1 Pacman()

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

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

#### 6.4.1.2 ~Pacman()

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

Destroy the arcade::Pacman::Pacman object.

#### 6.4.2 Member Function Documentation

#### 6.4.2.1 getName()

```
std::string arcade::Pacman::getName ( ) [virtual]
```

Implements arcade::AGameModule.

#### 6.4.2.2 handdleKeyEvents()

Implements arcade::AGameModule.

#### 6.4.2.3 init()

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

Implements arcade::AGameModule.

#### 6.4.2.4 updateGame()

```
void arcade::Pacman::updateGame ( ) [virtual]
```

Implements arcade::AGameModule.

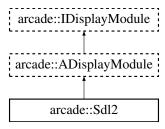
The documentation for this class was generated from the following files:

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

#### 6.5 arcade::Sdl2 Class Reference

#include <Sdl2.hpp>

Inheritance diagram for arcade::Sdl2:



#### **Public Member Functions**

- Sdl2 ()
- ∼Sdl2 ()
- std::string getName ()
- void clearWindow ()

clear the window

- void displayWindow ()
- arcade::KeyboardInput getInput ()

get the input from the window

• void drawSprite (std::pair< char, std::string > sprite, int x, int y, int width, int height)

draw a sprite on the window

- void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)
- void drawText (const std::string text, int x, int y, int size)

draw text on the window

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

• ADisplayModule ()

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

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual std::string getName ()=0
- void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the display module

• arcade::CoreModule \* getCoreModule () const

get the core module

- virtual void clearWindow ()=0
- virtual void displayWindow ()=0
- virtual arcade::KeyboardInput getInput ()=0
- virtual void drawSprite (std::pair< char, std::string > sprite, int x, int y, int width, int height)=0
- virtual void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)=0
- virtual void drawText (const std::string text, int x, int y, int size)=0

#### **Protected Attributes**

```
SDL_Window * _windowTTF_Font * _fontSDL_Renderer * _renderer
```

#### 6.5.1 Constructor & Destructor Documentation

#### 6.5.1.1 SdI2()

```
arcade::Sdl2::Sdl2 ( )
6.5.1.2 ~Sdl2()
arcade::Sdl2::~Sdl2 ( )
```

#### 6.5.2 Member Function Documentation

#### 6.5.2.1 clearWindow()

```
void arcade::Sdl2::clearWindow ( ) [virtual]
clear the window
Implements arcade::ADisplayModule.
```

#### 6.5.2.2 displayWindow()

```
void arcade::Sdl2::displayWindow ( ) [virtual]
Implements arcade::ADisplayModule.
```

#### 6.5.2.3 drawAllSprite()

```
void arcade::Sdl2::drawAllSprite (
          std::pair< char, std::string > sprite,
          std::vector< std::pair< int, int > > coordinates,
          int width,
          int height ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.5.2.4 drawSprite()

draw a sprite on the window

#### **Parameters**

path	path to the sprite							
X	x position of the sprite							
У	y position of the sprite							
width	width of the sprite							
height	height of the sprite							

Implements arcade::ADisplayModule.

#### 6.5.2.5 drawText()

draw text on the window

#### **Parameters**

text	text to display
X	x position of the text
У	y position of the text
size	size of the text

Implements arcade::ADisplayModule.

#### 6.5.2.6 getInput()

```
arcade::KeyboardInput arcade::Sdl2::getInput ( ) [virtual]
```

get the input from the window

Returns

arcade::KeyboardInput

Implements arcade::ADisplayModule.

#### 6.5.2.7 getName()

```
std::string arcade::Sdl2::getName ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.5.3 Member Data Documentation

#### 6.5.3.1 \_font

```
TTF_Font* arcade::Sdl2::_font [protected]
```

#### 6.5.3.2 \_renderer

```
SDL_Renderer* arcade::Sdl2::_renderer [protected]
```

#### 6.5.3.3 \_window

```
SDL_Window* arcade::Sdl2::_window [protected]
```

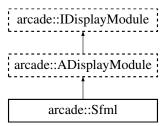
The documentation for this class was generated from the following files:

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

#### 6.6 arcade::Sfml Class Reference

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

Inheritance diagram for arcade::Sfml:



#### **Public Member Functions**

• Sfml ()

Construct a new arcade::Sfml::Sfml object.

• ∼Sfml ()

Destroy the arcade::Sfml::Sfml object.

- std::string getName ()
- void clearWindow ()
- void displayWindow ()
- arcade::KeyboardInput getInput ()
- void drawSprite (std::pair< char, std::string > sprite, int x, int y, int width, int height)
- void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)
- void drawText (const std::string text, int x, int y, int size)

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

• ADisplayModule ()

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

∼ADisplayModule ()

Destroy the arcade::ADisplayModule::ADisplayModule object.

- virtual std::string getName ()=0
- void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the display module

arcade::CoreModule \* getCoreModule () const

get the core module

- virtual void clearWindow ()=0
- virtual void displayWindow ()=0
- virtual arcade::KeyboardInput getInput ()=0
- virtual void drawSprite (std::pair< char, std::string > sprite, int x, int y, int width, int height)=0
- virtual void drawAllSprite (std::pair< char, std::string > sprite, std::vector< std::pair< int, int > > coordinates, int width, int height)=0
- virtual void drawText (const std::string text, int x, int y, int size)=0

#### **Protected Attributes**

- sf::RenderWindow \_window
- sf::Texture texture
- sf::Font \_font

#### 6.6.1 Constructor & Destructor Documentation

#### 6.6.1.1 Sfml()

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

Construct a new arcade::Sfml::Sfml object.

#### 6.6.1.2 ∼Sfml()

```
arcade::Sfml::\sim Sfml ( )
```

Destroy the arcade::Sfml::Sfml object.

#### 6.6.2 Member Function Documentation

#### 6.6.2.1 clearWindow()

```
void arcade::Sfml::clearWindow ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.2.2 displayWindow()

```
void arcade::Sfml::displayWindow ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.2.3 drawAllSprite()

```
void arcade::Sfml::drawAllSprite (
    std::pair< char, std::string > sprite,
    std::vector< std::pair< int, int > > coordinates,
    int width,
    int height ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.2.4 drawSprite()

```
void arcade::Sfml::drawSprite (
          std::pair< char, std::string > sprite,
          int x,
          int y,
          int width,
          int height ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.2.5 drawText()

Implements arcade::ADisplayModule.

#### 6.6.2.6 getInput()

```
arcade::KeyboardInput arcade::Sfml::getInput ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.2.7 getName()

```
std::string arcade::Sfml::getName ( ) [virtual]
```

Implements arcade::ADisplayModule.

#### 6.6.3 Member Data Documentation

#### 6.6.3.1 \_font

```
sf::Font arcade::Sfml::_font [protected]
```

#### 6.6.3.2 \_texture

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

#### 6.6.3.3 \_window

```
sf::RenderWindow arcade::Sfml::_window [protected]
```

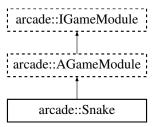
The documentation for this class was generated from the following files:

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

#### 6.7 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.

- std::string getName ()
- void init ()
- · void updateGame ()

update the game

- arcade::GameData moveSnake ()
- void handdleKeyEvents (arcade::KeyboardInput key)

handle key events

bool generateFood (std::vector< std::vector< arcade::entity >> &entities)

### 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 std::string getName ()=0
- virtual void init ()=0
- virtual void updateGame ()=0
- void setGameStatus (GameStatus status)
- GameStatus getGameStatus () const

get the status of the game

void setCoreModule (arcade::CoreModule \*coreModule)

set the core module to the game module

• arcade::CoreModule \* getCoreModule () const

get the core module

void setDirection (arcade::KeyboardInput direction)

set the direction of the game

• arcade::KeyboardInput getDirection () const

get the direction of the game

• int getLayerCell (int layer, int x, int y) const

get the cell of the map

virtual void handdleKeyEvents (arcade::KeyboardInput key)=0

#### 6.7.1 Constructor & Destructor Documentation

#### 6.7.1.1 Snake()

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

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

### 6.7.1.2 ~Snake()

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

Destroy the arcade::Snake::Snake object.

#### 6.7.2 Member Function Documentation

### 6.7.2.1 generateFood()

```
bool arcade::Snake::generateFood ( std::vector < \ arcade::entity >> \& \ entities \ )
```

### 6.7.2.2 getName()

```
std::string arcade::Snake::getName ( ) [virtual]
```

Implements arcade::AGameModule.

### 6.7.2.3 handdleKeyEvents()

handle key events

30 Class Documentation

#### **Parameters**



Implements arcade::AGameModule.

# 6.7.2.4 init()

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

Implements arcade::AGameModule.

## 6.7.2.5 moveSnake()

```
arcade::GameData arcade::Snake::moveSnake ( )
```

## 6.7.2.6 updateGame()

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

update the game

Implements arcade::AGameModule.

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

- /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/snake/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/lib/games/AGame Module.cpp File Reference

#include "AGameModule.hpp"

# 7.2 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/AGame Module.hpp File Reference

#include <arcade/IGameModule.hpp>

#### **Classes**

· class arcade::AGameModule

#### **Namespaces**

namespace arcade

# 7.3 AGameModule.hpp

## Go to the documentation of this file.

```
O0001 /*

00001 /*

00002 ** EPITECH PROJECT, 2024

00003 ** Arcade

00004 ** File description:

00005 ** AGameModule

00006 */

00007

00008 #ifndef AGAMEMODULE_HPP_

00009 #define AGAMEMODULE_HPP_

00010

00011 #include <arcade/IGameModule.hpp>
```

```
00013 namespace arcade {
00014 class AGameModule : virtual public arcade::IGameModule {
00015 public:
00016 AGameModule();
00017
       ~AGameModule();
00018
       virtual std::string getName() = 0;
00020
00021
       virtual void init() = 0;
       virtual void updateGame() = 0;
00022
00023
00024
       void setGameStatus(GameStatus status);
00025
       GameStatus getGameStatus() const;
00026
00027
       void setCoreModule(arcade::CoreModule *coreModule);
00028
       arcade::CoreModule *getCoreModule() const;
00029
00030
       void setDirection(arcade::KeyboardInput direction);
00031
       arcade::KeyboardInput getDirection() const;
00032
00033
       int getLayerCell(int layer, int x, int y) const;
00034
       virtual void handdleKeyEvents(arcade::KeyboardInput key) = 0;
00035
00036 1:
00037 }; // namespace arcade
00039 #endif /* !IGAMEMODULE_HPP_ */
```

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

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

#### **Functions**

- std::unique\_ptr< arcade::IGameModule > entryPoint ()
   generate entry point for the game library
- arcade::ModuleType getType ()
- std::string getName ()

#### 7.4.1 Function Documentation

#### 7.4.1.1 entryPoint()

```
std::unique_ptr< arcade::IGameModule > entryPoint ( )
```

generate entry point for the game library

# 7.4.1.2 getName()

```
std::string getName ( )
```

#### 7.4.1.3 getType()

```
arcade::ModuleType getType ( )
```

# 7.5 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/pacman/ Pacman.hpp File Reference

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

#### Classes

· class arcade::Pacman

#### **Namespaces**

· namespace arcade

# 7.6 Pacman.hpp

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

```
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 {
00014 class Pacman: virtual p

00015 public:

00016 Pacman();

00017 ~Pacman();

00018 std::string getName();

00019 void init();

00020 void updateGame();
00021
         void handdleKeyEvents(arcade::KeyboardInput key){};
00022
00023 protected:
00024 };
00025 }; // namespace arcade
00026
00027 #endif /* !PACMAN_HPP_ */
```

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

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

#### **Functions**

- std::unique\_ptr< arcade::IGameModule > entryPoint ()
   generate entry point for the game library
- arcade::ModuleType getType ()
- std::string getName ()

## 7.7.1 Function Documentation

# 7.7.1.1 entryPoint()

```
std::unique_ptr< arcade::IGameModule > entryPoint ( )
generate entry point for the game library
```

## 7.7.1.2 getName()

```
std::string getName ( )
```

# 7.7.1.3 getType()

```
arcade::ModuleType getType ( )
```

# 7.8 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/games/snake/ Snake.hpp File Reference

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

## Classes

· class arcade::Snake

### **Namespaces**

· namespace arcade

#### **Macros**

- #define HEAD 'P'
- #define BODY '\*'
- #define FOOD 'F'
- #define WALL '#'
- #define EMPTY ' '
- #define SNAKE\_SPEED 1
- #define MAP LAYER 0
- #define FOOD\_LAYER 1
- #define SNAKE LAYER 2

# 7.8.1 Macro Definition Documentation

# 7.8.1.1 BODY #define BODY '\*' 7.8.1.2 EMPTY #define EMPTY ' ' 7.8.1.3 FOOD #define FOOD 'F' 7.8.1.4 FOOD\_LAYER #define FOOD\_LAYER 1 7.8.1.5 **HEAD** #define HEAD 'P' 7.8.1.6 **MAP\_LAYER** #define MAP\_LAYER 0 7.8.1.7 SNAKE\_LAYER #define SNAKE\_LAYER 2 7.8.1.8 SNAKE\_SPEED #define SNAKE\_SPEED 1 7.8.1.9 WALL

#define WALL '#'

# 7.9 Snake.hpp

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

```
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** Snake
00006 */
00007
00008 #ifndef SNAKE HPP
00009 #define SNAKE_HPP_
00011 #include "../AGameModule.hpp"
00012
00013 namespace arcade {
00014 class Snake : virtual public arcade::AGameModule {
00015 public:
00016 #define HEAD 'P'
00017 #define BODY '*'
00018 #define FOOD 'F'
00019 #define WALL '#'
00020 #define EMPTY ''
00021 #define SNAKE_SPEED 1
00022 #define MAP_LAYER 0
00023 #define FOOD_LAYER 1
00024 #define SNAKE_LAYER 2
00025 Snake();
arcade::GameData moveSnake();
void handdleKeyEvents(arcade::KeyboardInput key);
00032 bool generateFood(std::vector<std::vector<arcade::entity» &entities);
00034 }; // namespace arcade
00035
00036 #endif /* !SNAKE_HPP_ */
```

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

#include "ADisplayModule.hpp"

# 7.11 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ ADisplayModule.hpp File Reference

#include <arcade/IDisplayModule.hpp>

#### Classes

· class arcade::ADisplayModule

#### **Namespaces**

· namespace arcade

# 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 ADTSPLAYMODULE HPP
00010
00011 #include <arcade/IDisplayModule.hpp>
00013 namespace arcade {
00014 class ADisplayModule : virtual public arcade::IDisplayModule {
00015 public:
00016 ADisplayModule();
       ~ADisplayModule();
00018
00019
       virtual std::string getName() = 0;
00020
       void setCoreModule(arcade::CoreModule *coreModule);
00021
00022
       arcade::CoreModule *getCoreModule() const;
00023
00024
       virtual void clearWindow() = 0;
00025
       virtual void displayWindow() = 0;
00026
       virtual arcade::KeyboardInput getInput() = 0;
00027
       virtual void drawSprite(std::pair<char, std::string> sprite,
00028
                                int x,
00029
                                 int y,
00030
                                 int width,
00031
                                 int height) = 0;
00032 virtual void drawAllSprite(std::pair<char, std::string> sprite,
00033
                                   std::vector<std::pair<int, int> coordinates,
00034
                                   int width,
int height) = 0;
00035
00036
      virtual void drawText(const std::string text, int x, int y, int size) = 0;
00037 };
00038 }; // namespace arcade
00039
00040 #endif /* !ADISPLAYMODULE HPP */
```

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

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

#### **Functions**

- std::unique\_ptr< arcade::IDisplayModule > entryPoint ()
   entry point
- arcade::ModuleType getType ()
- std::string getName ()

#### 7.13.1 Function Documentation

### 7.13.1.1 entryPoint()

```
std::unique_ptr< arcade::IDisplayModule > entryPoint ( )
entry point
```

### 7.13.1.2 getName()

```
std::string getName ( )
7.13.1.3 getType()
arcade::ModuleType getType ( )
```

# 7.14 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/ncurses/ NCurses.hpp File Reference

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

#### Classes

· class arcade::NCurses

#### **Namespaces**

· namespace arcade

# 7.15 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_
00011 #include "../ADisplayModule.hpp"
00012 #include <ncurses.h>
00013
00014 namespace arcade {
00015 class NCurses : virtual public arcade::ADisplayModule {
00016 public:
00017 NCurses();
00018 ~NCurs
        ~NCurses();
00019
        std::string getName();
00020
       void clearWindow();
00021
       void displayWindow();
00022
       arcade::KeyboardInput getInput();
00023
        void drawSprite(
00024
            std::pair<char, std::string> sprite, int x, int y, int width, int height);
00025 void drawAllSprite(std::pair<char, std::string> sprite,
00026
                            std::vector<std::pair<int, int» coordinates,
00027
                            int width,
int height);
00028
00029
       void drawText(const std::string text, int x, int y, int size);
00030
00031 protected:
00032
       WINDOW *_window;
00033 1:
00034 }; // namespace arcade
00036 #endif /* !NCURSES_HPP_ */
```

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

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

#### **Functions**

- std::unique\_ptr< arcade::IDisplayModule > entryPoint ()
   entry point for the library
- arcade::ModuleType getType ()
- std::string getName ()

#### 7.16.1 Function Documentation

## 7.16.1.1 entryPoint()

```
std::unique_ptr< arcade::IDisplayModule > entryPoint ( )
entry point for the library

Returns
    arcade::Sdl2 *
```

#### 7.16.1.2 getName()

```
std::string getName ( )
```

#### 7.16.1.3 getType()

```
arcade::ModuleType getType ( )
```

# 7.17 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sdl2/← Sdl2.hpp File Reference

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

#### Classes

· class arcade::Sdl2

### **Namespaces**

· namespace arcade

# 7.18 Sdl2.hpp

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

```
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** SDL2
00006 */
00007
00008 #ifndef SDL2_HPP_
00009 #define SDL2_HPP_
00010
00011 #include "../ADisplayModule.hpp"
00012 #include <SDL2/SDL.h>
00013 #include <SDL2/SDL_image.h>
00014 #include <SDL2/SDL_ttf.h>
00016 namespace arcade {
00017 class Sd12 : virtual public arcade::ADisplayModule {
00018 public:
00019
         Sd12();
00020
         ~Sd12();
00021
         std::string getName();
         void clearWindow();
00023 void displayWindow();
00024
        arcade::KeyboardInput getInput();
00025 void drawSprite(
00026 std::pair<char, std::string> sprite, int x, int y, int width, int height);
00027 void drawAllSprite(std::pair<char, std::string> sprite,
00028 std::vector<std::pair<int, int» coordinates,
00029
00030
                                int height);
00031 void drawText(const std::string text, int x, int y, int size);
00032
00033 protected:
00033 p
00034
00035
         SDL_Window *_window;
         TTF_Font *_font;
00036
        SDL_Renderer *_renderer;
00037 };
00038 }; // namespace arcade
00039
00040 #endif /* !SDL2_HPP_ */
```

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

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

### **Functions**

- std::unique\_ptr< arcade::IDisplayModule > entryPoint ()
   entry point for the library
- arcade::ModuleType getType ()
- std::string getName ()

## 7.19.1 Function Documentation

# 7.19.1.1 entryPoint()

```
std::unique_ptr< arcade::IDisplayModule > entryPoint ( )
entry point for the library

Returns
    arcade::Sfml*
```

#### 7.19.1.2 getName()

```
std::string getName ( )
```

## 7.19.1.3 getType()

```
arcade::ModuleType getType ( )
```

# 7.20 /home/tmendy/Documents/Tek2/OOP/Arcade/lib/graphics/sfml/← Sfml.hpp File Reference

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

#### Classes

· class arcade::Sfml

#### **Namespaces**

namespace arcade

# 7.21 Sfml.hpp

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

```
00002 ** EPITECH PROJECT, 2024
00003 ** Arcade
00004 ** File description:
00005 ** SFML
00006 */
00007
00008 #ifndef SFML_HPP_
00009 #define SFML HPP
00011 #include "../ADisplayModule.hpp"
00012 #include <SFML/Graphics.hpp>
00013
00014 namespace arcade {
00015 class Sfml : virtual public arcade::ADisplayModule {
00016 public:
00017
00018
        ~Sfml();
00019 std::string getName();
00020
00021
00022
        void clearWindow();
       void displayWindow();
00023 arcade::KeyboardInput getInput();
00024 void drawSprite(
00025
            std::pair<char, std::string> sprite, int x, int y, int width, int height);
00026 void drawAllSprite(std::pair<char, std::string> sprite,
00027
                             std::vector<std::pair<int, int» coordinates,
00028
                             int width,
int height);
00029
00030
        void drawText(const std::string text, int x, int y, int size);
00031
00032 protected:
00033 sf::RenderWindow _window;
00034 sf::Texture _texture;
00035
        sf::Font _font;
00036 };
00037 }; // namespace arcade
00038
00039 #endif /* !SFML HPP */
```

# 7.22 /home/tmendy/Documents/Tek2/OOP/Arcade/src/CoreModule.cpp File Reference

```
#include <CoreModule.hpp>
#include <Error.hpp>
#include <fcntl.h>
#include <fstream>
#include <sstream>
#include <sys/stat.h>
#include <unistd.h>
```

#### **Functions**

- std::vector< std::string > split\_str (std::string const &str, const char delim)
- static void generateFocusVersion (std::string &section, int len)
- int max\_len\_line (std::string str)
- std::vector< std::pair< std::string, int > > getScoreFromFile (std::string moduleName)
- static void addScoreInFile (std::string path, int score, std::string username)

#### 7.22.1 Function Documentation

### 7.22.1.1 addScoreInFile()

#### 7.22.1.2 generateFocusVersion()

#### 7.22.1.3 getScoreFromFile()

### 7.22.1.4 max\_len\_line()

## 7.22.1.5 split\_str()

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

```
#include <Arcade.hpp>
#include <CoreModule.hpp>
#include <iostream>
#include <unistd.h>
#include "Shell.hpp"
```

#### **Functions**

```
    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)

## 7.23.1 Function Documentation

#### 7.23.1.1 help()

```
void help (
     void )
```

display the help

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

check if the library is a good graphic library

#### **Parameters**

#### Returns

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

## 7.23.1.3 main()

```
int main (
          int ac,
          char ** av )
```

# 7.24 /home/tmendy/Documents/Tek2/OOP/Arcade/src/Shell.cpp File Reference

```
#include "Shell.hpp"
#include <Arcade.hpp>
#include <CoreModule.hpp>
```

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