Arcade

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Chapter 1

Namespace Index

1.1 Namespace List

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arcade																														,

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

e::IDisplayModule	
cade::ADisplayModule	. 11
arcade::NCurses	. 17
arcade::Sdl2	. 22
arcade::Sfml	. 26
e::IGameModule	
cade::AGameModule	. 14
arcade::Pacman	. 20
arcade::Snake	. 29

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Chapter 3

Class Index

3.1 Class List

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

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

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Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

/home/arthur/tek2/OOP/projects/Arcade/lib/games/AGameModule.cpp	33
/home/arthur/tek2/OOP/projects/Arcade/lib/games/AGameModule.hpp	33
/home/arthur/tek2/OOP/projects/Arcade/lib/games/pacman/Pacman.cpp	34
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/home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sfml/Sfml.cpp	12
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Chapter 5

Namespace Documentation

5.1 arcade Namespace Reference

Classes

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

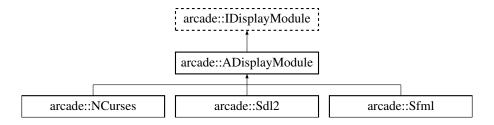
Chapter 6

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 () const =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

```
 arcade::KeyboardInput _input arcade::CoreModule * _coreModule
```

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()

```
\verb|arcade::ADisplayModule::\sim ADisplayModule ( )
```

Destroy the arcade::ADisplayModule::ADisplayModule object.

6.1.2 Member Function Documentation

6.1.2.1 clearWindow()

```
\label{lem:pure_virtual} \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 ( ) const [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

6.1.3 Member Data Documentation

6.1.3.1 _coreModule

arcade::CoreModule* arcade::ADisplayModule::_coreModule [protected]

6.1.3.2 _input

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

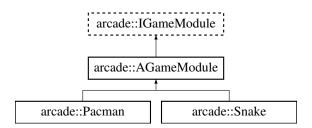
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/ADisplayModule.hpp
- /home/arthur/tek2/OOP/projects/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 void updateGame ()=0
- virtual std::string getName ()=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

- virtual void init ()=0
- virtual void handdleKeyEvents (arcade::KeyboardInput key)=0
- int getLayerCell (int layer, int x, int y) const

get the cell of the actual layer

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()

```
arcade::KeyboardInput arcade::AGameModule::getDirection ( ) const
```

get the direction of the game

Returns

arcade::KeyboardInput

6.2.2.3 getGameStatus()

```
\verb|arcade::AGameModule::GameStatus| arcade::AGameModule::getGameStatus| ( ) const|
```

get the status of the game

Returns

arcade::AGameModule::GameStatus

6.2.2.4 getLayerCell()

get the cell of the actual layer

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 $key$ ) [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.

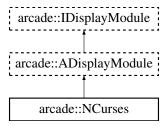
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/games/AGameModule.hpp
- /home/arthur/tek2/OOP/projects/Arcade/lib/games/AGameModule.cpp

6.3 arcade::NCurses Class Reference

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

Inheritance diagram for arcade::NCurses:



Public Member Functions

- NCurses ()
- ∼NCurses ()
- std::string getName () const
- void clearWindow ()
- arcade::KeyboardInput getInput ()
- void displayWindow ()
- void drawText (const std::string text, int x, int y, int size)
- 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)

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 () const =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

Protected Attributes inherited from arcade::ADisplayModule

```
• arcade::KeyboardInput _input
```

• arcade::CoreModule * _coreModule

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()

```
std::string arcade::NCurses::getName ( ) const [virtual]
Implements arcade::ADisplayModule.
```

6.3.3 Member Data Documentation

6.3.3.1 window

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

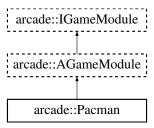
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/ncurses/NCurses.hpp
- /home/arthur/tek2/OOP/projects/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.

- void init ()
- void updateGame ()

update the game

• std::string getName ()

get the name of the game

• arcade::GameData movePacman ()

move the Pacman

void handdleKeyEvents (arcade::KeyboardInput key)

handle key events

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 updateGame ()=0
- virtual std::string getName ()=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

- virtual void init ()=0
- virtual void handdleKeyEvents (arcade::KeyboardInput key)=0
- int getLayerCell (int layer, int x, int y) const

get the cell of the actual layer

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::\sim Pacman ( )
```

Destroy the arcade::Pacman::Pacman object.

6.4.2 Member Function Documentation

6.4.2.1 getName()

```
std::string arcade::Pacman::getName ( ) [virtual]
get the name of the game
```

Returns

std::string

Implements arcade::AGameModule.

6.4.2.2 handdleKeyEvents()

handle key events

Parameters



Implements arcade::AGameModule.

6.4.2.3 init()

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

Implements arcade::AGameModule.

6.4.2.4 movePacman()

```
arcade::GameData arcade::Pacman::movePacman ( )
```

move the Pacman

Parameters

display_info

6.4.2.5 updateGame()

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

update the game

Implements arcade::AGameModule.

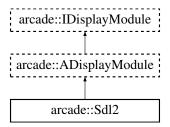
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/games/pacman/Pacman.hpp
- /home/arthur/tek2/OOP/projects/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 () const

get the name of the library

void clearWindow ()

clear the window

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

get the input from the window

void drawText (const std::string text, int x, int y, int size)

draw text on 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)

draw a sprite 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 () const =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_Renderer * _renderer
- SDL_Window * _window

Protected Attributes inherited from arcade::ADisplayModule

- arcade::KeyboardInput input
- arcade::CoreModule * _coreModule

6.5.1 Constructor & Destructor Documentation

6.5.1.1 SdI2()

```
arcade::Sdl2::Sdl2 ( )

6.5.1.2 ~Sdl2()
```

arcade::Sd12::~Sd12 ()

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()

draw a sprite on the window

Parameters

sprite	sprite to display
coordinates	coordinates of the sprite
width	width of the sprite
height	height of the sprite
rotation	rotation of the sprite

Implements arcade::ADisplayModule.

6.5.2.4 drawSprite()

```
void arcade::Sdl2::drawSprite (
         std::pair< char, std::string > sprite,
         int x,
         int y,
         int width,
         int height ) [virtual]
```

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()

```
\label{eq:std:string} \begin{tabular}{ll} \tt std::string arcade::Sdl2::getName ( ) const & [virtual] \\ \end{tabular} get the name of the library
```

Returns

std::string

Implements arcade::ADisplayModule.

6.5.3 Member Data Documentation

6.5.3.1 _renderer

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

6.5.3.2 _window

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

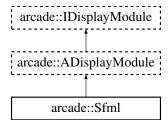
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sdl2/Sdl2.hpp
- /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sdl2/Sdl2.cpp

6.6 arcade::Sfml Class Reference

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

Inheritance diagram for arcade::Sfml:



Public Member Functions

- Sfml ()
- ~Sfml ()
- std::string getName () const
- void clearWindow ()
- void displayWindow ()
- arcade::KeyboardInput getInput ()
- void drawText (const std::string text, int x, int y, int size)
- 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)

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 () const =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

Protected Attributes inherited from arcade::ADisplayModule

```
    arcade::KeyboardInput _input
```

• arcade::CoreModule * _coreModule

6.6.1 Constructor & Destructor Documentation

6.6.1.1 Sfml()

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

6.6.1.2 ∼Sfml()

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

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()

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 ( ) const [virtual]
```

Implements arcade::ADisplayModule.

6.6.3 Member Data Documentation

6.6.3.1 _texture

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

6.6.3.2 _window

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

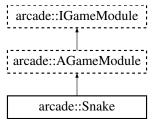
The documentation for this class was generated from the following files:

- /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sfml/Sfml.hpp
- /home/arthur/tek2/OOP/projects/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 ()

get the name of the game

- void init ()
- void updateGame ()

update the game

arcade::GameData moveSnake ()

move the snake

void handdleKeyEvents (arcade::KeyboardInput key)

handle key events

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 updateGame ()=0
- virtual std::string getName ()=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

- virtual void init ()=0
- virtual void handdleKeyEvents (arcade::KeyboardInput key)=0
- int getLayerCell (int layer, int x, int y) const

get the cell of the actual layer

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 getName()

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

get the name of the game

Returns

std::string

Implements arcade::AGameModule.

6.7.2.2 handdleKeyEvents()

handle key events

Parameters

key

Implements arcade::AGameModule.

6.7.2.3 init()

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

Implements arcade::AGameModule.

6.7.2.4 moveSnake()

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

move the snake

32 Class Documentation

Parameters

display_info

6.7.2.5 updateGame()

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

update the game

Implements arcade::AGameModule.

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

- /home/arthur/tek2/OOP/projects/Arcade/lib/games/snake/Snake.hpp
- /home/arthur/tek2/OOP/projects/Arcade/lib/games/snake/Snake.cpp

Chapter 7

File Documentation

7.1 /home/arthur/tek2/OOP/projects/Arcade/lib/games/AGame Module.cpp File Reference

#include "AGameModule.hpp"

7.2 /home/arthur/tek2/OOP/projects/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
        class AGameModule : virtual public arcade::IGameModule
00015
00016
        public:
00017
00018
         AGameModule();
00019
         ~AGameModule();
00020
00021
         virtual void updateGame() = 0;
00022
00023
         virtual std::string getName() = 0;
00024
00025
          void setGameStatus(GameStatus status);
00026
         GameStatus getGameStatus() const;
00027
00028
         void setCoreModule(arcade::CoreModule *coreModule);
00029
         arcade::CoreModule *getCoreModule() const;
00030
00031
         void setDirection(arcade::KeyboardInput direction);
00032
         arcade::KeyboardInput getDirection() const;
00033
00034
         virtual void init() = 0;
         virtual void handdleKeyEvents(arcade::KeyboardInput key) = 0;
00035
00036
00037
          int getLayerCell(int layer, int x, int y) const;
00038
00039
00040 }; // namespace arcade
00041
00042 #endif /* !IGAMEMODULE_HPP_ */
```

7.4 /home/arthur/tek2/OOP/projects/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()

```
\verb|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/arthur/tek2/OOP/projects/Arcade/lib/games/pacman/← Pacman.hpp File Reference

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

Classes

· class arcade::Pacman

Namespaces

· namespace arcade

Macros

• #define SPEED_SNAKE 1

7.5.1 Macro Definition Documentation

7.5.1.1 SPEED SNAKE

```
#define SPEED_SNAKE 1
```

7.6 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 #define SPEED_SNAKE 1
00011
00012 #include "../AGameModule.hpp"
00013
00014 namespace arcade {
00015 class Pacman : virtual public arcade::AGameModule { 00016 public:
00017 Pacman();
00018 ~Pacman();
00024
00025 protected:
00026 };
00027 \}; // namespace arcade
00028
00029 #endif /* !PACMAN_HPP_ */
```

7.7 /home/arthur/tek2/OOP/projects/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/arthur/tek2/OOP/projects/Arcade/lib/games/snake/Snake.hpp File Reference

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

Classes

· class arcade::Snake

Namespaces

· namespace arcade

7.9 Snake.hpp 37

Macros

- #define SPEED_SNAKE 1
- #define MAX_SNAKE_SIZE 361

7.8.1 Macro Definition Documentation

7.8.1.1 MAX_SNAKE_SIZE

```
#define MAX_SNAKE_SIZE 361
```

7.8.1.2 SPEED SNAKE

```
#define SPEED_SNAKE 1
```

7.9 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 #define SPEED_SNAKE 1
00011 #define MAX_SNAKE_SIZE 361
00012
00013 #include "../AGameModule.hpp"
00015 namespace arcade {
00016 class Snake : virtual public arcade::AGameModule {
00017 public:
00018 Snake();
00019
         ~Snake();
00020 std::string getName();

00021 void init();

00022 void updateGame();

00023 arcade::GameData moveSnake();

00024 void handdleKeyEvents(arcade::KeyboardInput key);
00025
00026 protected:
00027 };
00028 }; // namespace arcade
00029
00030 #endif /* !SNAKE_HPP_ */
```

7.10 /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/ADisplay Module.cpp File Reference

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

7.11 /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/ADisplay Module.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
00009 #ifndef ADISPLAYMODULE_HPP_
00010 #define ADISPLAYMODULE_HPP_
00011
00012 #include <arcade/IDisplayModule.hpp>
00013
00014 namespace arcade {
00015
       class CoreModule;
00016 class ADisplayModule : virtual public arcade::IDisplayModule {
00017 public:
00018 ADisplayModule();
00019
        ~ADisplayModule();
00020
00021
       virtual std::string getName() const = 0;
00022
00023
       void setCoreModule(arcade::CoreModule *coreModule);
00024
        arcade::CoreModule *getCoreModule() const;
00025
00026
       virtual void clearWindow() = 0;
       virtual void displayWindow() = 0;
virtual arcade::KeyboardInput getInput() = 0;
00027
00029
       virtual void drawSprite(std::pair<char, std::string> sprite, int x, int y, int width, int height) =
00030
       virtual void drawAllSprite(std::pair<char, std::string> sprite, std::vector<std::pair<int, int>
coordinates, int width, int height) = 0;
00031 virtual void drawText(const std::string text, int x, int y, int size) = 0;
00032
00033 protected:
00034
       arcade::KeyboardInput _input;
00035 arcade::CoreModule *_coreModule;
00036 };
00037 }; // namespace arcade
00039 #endif /* !ADISPLAYMODULE_HPP_ */
```

7.13 /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/ncurses/ NCurses.cpp File Reference

```
#include "NCurses.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/arthur/tek2/OOP/projects/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_
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 std::string getName() const;
int width, int height);
00026
00027 protected:
00028
       WINDOW *_window;
00029 };
00030 }; // namespace arcade
00031
00032 #endif /* !NCURSES_HPP_ */
```

7.16 /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sdl2/Sdl2.cpp File Reference

```
#include "ErrorHandling.hpp"
#include "Sdl2.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/arthur/tek2/OOP/projects/Arcade/lib/graphics/sdl2/Sdl2.hpp File Reference

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

Classes

· class arcade::Sdl2

Namespaces

· namespace arcade

7.18 Sdl2.hpp

Go to the documentation of this file.

```
00001 /*
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_ttf.h>
00014 #include <SDL2/SDL_image.h>
00015
00016 namespace arcade {
00017 class Sdl2: virtual public arcade::ADisplayModule {
00018 public:
00019 Sdl2();
00020 ~Sdl2();
00021
       std::string getName() const;
00022
       void clearWindow();
00023
       void displayWindow();
00024 arcade::KeyboardInput getInput();
       void drawText(const std::string text, int x, int y, int size);
00026 void \frac{drawSprite(std::pair<char, std::string> sprite, int x, int y, int width, int height);}
00027
       void drawAllSprite(std::pair<char, std::string> sprite, std::vector<std::pair<int, int> coordinates,
     int width, int height);
00028
00029 protected:
00030 SDL_Renderer *_renderer;
00031
       SDL_Window *_window;
00032 private:
00033 };
00034 }; // namespace arcade
00036 #endif /* !SDL2_HPP_ */
```

7.19 /home/arthur/tek2/OOP/projects/Arcade/lib/graphics/sfml/Sfml.cpp File Reference

```
#include <ErrorHandling.hpp>
#include "Sfml.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/arthur/tek2/OOP/projects/Arcade/lib/graphics/sfml/Sfml.hpp File Reference

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

Classes

· class arcade::Sfml

7.21 Sfml.hpp 43

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_
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()
           ~Sfml();
00019
00020 std::string getName() const;
00021
00021 void clearWindow();
00023 void displayWindow();
00024 arcade::KeyboardInput getInput();
00025 void drawText(const std::string text, int x, int y, int size);
00026 void drawSprite(std::pair<char, std::string> sprite, int x, int y, int width, int height);
00027 void drawAllSprite(std::pair<char, std::string> sprite, std::vector<std::pair<int, int» coordinates,
        int width, int height);
00028
00029 protected:
00030 sf::RenderWindow *_window;
00031 sf::Texture _texture;
00032 };
00033 }; // namespace arcade
00034
00035 #endif /* !SFML_HPP_ */
```

7.22 /home/arthur/tek2/OOP/projects/Arcade/src/CoreModule.cpp File Reference

#include <CoreModule.hpp>

7.23 /home/arthur/tek2/OOP/projects/Arcade/src/ErrorHandling.cpp File Reference

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

Functions

void checkPath (const char *path)

7.23.1 Function Documentation

7.23.1.1 checkPath()

```
void checkPath ( {\tt const\ char\ *\ path\ )}
```

7.24 /home/arthur/tek2/OOP/projects/Arcade/src/Main.cpp File Reference

```
#include <iostream>
#include <arcade/IShell.hpp>
#include <Shell.hpp>
#include <ErrorHandling.hpp>
```

Functions

• int main (int const argc, char const *const *argv)

check param launch arcade

7.24.1 Function Documentation

7.24.1.1 main()

check param launch arcade

Parameters

argc	
argv	

Returns

int

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