Arcade

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1	Namespace Index	1
	1.1 Namespace List	1
2	Hierarchical Index	3
	2.1 Class Hierarchy	3
3	Class Index	5
	3.1 Class List	5
4	File Index	7
	4.1 File List	7
5	Namespace Documentation	9
	5.1 Arcade Namespace Reference	9
	5.1.1 Detailed Description	10
	5.1.2 Enumeration Type Documentation	10
	5.1.2.1 Keys	10
	5.1.3 Variable Documentation	10
	5.1.3.1 apple	10
	5.1.3.2 game_nibbler	11
		11
		11
	• -	11
	5.1.3.6 game title	11
	5.1.3.7 grass	12
	5.1.3.8 lib_ncurses	12
		12
		12
		12
	5.1.3.12 lib_sfml	13
	5.1.3.13 lib_sfml_selected	13
	5.1.3.14 lib_title	13
	5.1.3.15 map_menu	13
	5.1.3.16 snake body horizontal	13
	5.1.3.17 snake_body_vertical	14
	5.1.3.18 snake_head_east	14
	5.1.3.19 snake_head_north	
		14
	5.1.3.20 snake_head_south	14
	5.1.3.21 snake_head_west	14
	5.1.3.22 wall	15
6	Class Documentation	17
	6.1 Arcade::Arc Class Reference	17
	6.2 Assets Struct Reference	17

6.3 DLLoader< T > Class Template Reference	18
6.4 Arcade::IGameLib Class Reference	18
6.4.1 Detailed Description	18
6.5 Arcade::IGraphicLib Class Reference	19
6.6 Arcade::MENU Class Reference	19
6.6.1 Member Function Documentation	20
6.6.1.1 change_libs()	20
6.6.1.2 collisions()	20
6.6.1.3 directions_assigner()	20
6.6.1.4 drawSnake()	20
6.6.1.5 end_game_score()	20
6.6.1.6 getName()	20
6.6.1.7 init()	21
6.6.1.8 map_creator()	21
6.7 Arcade::NCURSES Class Reference	21
6.7.1 Member Function Documentation	22
6.7.1.1 closeWindow()	22
6.7.1.2 drawText()	22
6.7.1.3 getLastEvent()	22
6.7.1.4 getName()	22
6.7.1.5 mapManager()	22
6.7.1.6 popWindow()	23
6.7.1.7 refresh()	23
6.7.1.8 select()	23
6.8 Arcade::NIBBLER Class Reference	23
6.8.1 Member Function Documentation	24
6.8.1.1 change_libs()	24
6.8.1.2 collisions()	24
6.8.1.3 directions_assigner()	24
6.8.1.4 drawSnake()	24
6.8.1.5 end_game_score()	24
6.8.1.6 getName()	25
6.8.1.7 init()	25
6.8.1.8 map_creator()	25
6.9 Arcade::SDL Class Reference	25
6.9.1 Member Function Documentation	26
6.9.1.1 closeWindow()	26
6.9.1.2 drawText()	26
6.9.1.3 getLastEvent()	26
6.9.1.4 getName()	26
6.9.1.5 mapManager()	26
6.9.1.6 popWindow()	27

· · · · · · · · · · · · · · · · · · ·	27
v	27
6.10 Arcade::SFML Class Reference	27
6.10.1 Member Function Documentation	28
6.10.1.1 closeWindow()	28
6.10.1.2 drawText()	28
6.10.1.3 getLastEvent()	28
6.10.1.4 getName()	28
6.10.1.5 mapManager()	28
6.10.1.6 popWindow()	29
6.10.1.7 refresh()	29
6.10.1.8 select()	29
6.11 Arcade::SNAKE Class Reference	29
6.11.1 Member Function Documentation	30
6.11.1.1 change_libs()	30
6.11.1.2 collisions()	30
6.11.1.3 directions_assigner()	30
6.11.1.4 drawSnake()	30
6.11.1.5 end_game_score()	30
6.11.1.6 getName()	31
6.11.1.7 init()	31
6.11.1.8 map_creator()	31
7 File Decumentation	22
	33
	33
	34
To the second of	34
··	35
•	36
	36
5.000	37
	38
••	39
7.10 SDL.hpp	39
The state of the s	40
	40
7.13 Keys.hpp	41
Index	43

Namespace Index

1.1 Namespace List

Here is a lis	ist of all documented namespaces with brief descriptions:	
Arcade		
	Arcade project namespace	

2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

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

ade::Arc	. 17
ets	. 17
.oader< T >	. 18
ade::IGameLib	. 18
Arcade::MENU	. 19
Arcade::NIBBLER	
Arcade::SNAKE	. 29
ade::IGraphicLib	. 19
Arcade::NCURSES	. 21
Arcade::SDL	. 25
Arcade::SFML	. 27

4 Hierarchical Index

Class Index

3.1 Class List

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

.de::Arc	
ets	17
oader< T >	18
ide::IGameLib	
Game libraries virtual class	18
de::IGraphicLib	19
de::MENU	19
de::NCURSES	21
de::NIBBLER	
de::SDL	25
de::SFML	27
de::SNAKE	29

6 Class Index

File Index

4.1 File List

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

src/Core/Arcade.cpp
src/Core/Arcade.hpp
src/Core/Loader.hpp
src/Games/IGameLib.hpp
src/Games/Menu/Menu.hpp
src/Games/Nibbler.hpp
src/Games/Snake.hpp
src/Graphics/IGraphicLib.hpp
src/Graphics/NCURSES/NCurses.hpp
src/Graphics/SDL/SDL.hpp
src/Graphics/SFML/SFML.hpp
src/include/Assets.hpp
src/include/Keys.hpp

8 File Index

Namespace Documentation

5.1 Arcade Namespace Reference

Arcade project namespace.

Classes

- · class Arc
- class IGameLib

Game libraries virtual class.

- class IGraphicLib
- class MENU
- class NCURSES
- class NIBBLER
- class SDL
- class SFML
- class SNAKE

Enumerations

```
enum Keys {
NONE, 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, LEFT,
RIGHT, UP, DOWN, ENTER,
SPACE, DELETE, BACKSPACE, TAB,
ESC, MOUSELEFT, MOUSERIGHT }
```

Functions

- Arcade::IGameLib * getInstance ()
- int chooseNumber (int min, int max)

Variables

- Assets map_menu
- · Assets lib_title
- · Assets game title
- · Assets game_snake
- · Assets game_nibbler
- Assets lib_sdl
- · Assets lib_ncurses
- · Assets lib sfml
- Assets lib_sdl_selected
- · Assets lib ncurses selected
- · Assets lib_sfml_selected
- Assets game_snake_selected
- · Assets game_nibbler_selected
- · Assets wall
- · Assets grass
- · Assets apple
- · Assets snake_head_north
- · Assets snake_head_south
- Assets snake_head_east
- Assets snake_head_west
- · Assets snake body horizontal
- Assets snake_body_vertical

5.1.1 Detailed Description

Arcade project namespace.

5.1.2 Enumeration Type Documentation

5.1.2.1 Keys

```
enum Arcade::Keys
```

All those keys should be handled by any graphic libraries or any games

5.1.3 Variable Documentation

5.1.3.1 apple

```
Assets Arcade::apple
Initial value:
{
    .image_path = "assets/image/food_snake_sprite.png",
    .character = "assets/text/food.txt",
    .color = "green",
    .width = 32,
    .height = 32
```

5.1.3.2 game_nibbler

```
Assets Arcade::game_nibbler

Initial value:
{
     .image_path = "assets/image/nibbler_menu_sprite.png",
     .character = "assets/text/game_nibbler.txt",
     .color = "red_black",
     .width = 128,
     .height = 32
}
```

5.1.3.3 game_nibbler_selected

```
Assets Arcade::game_nibbler_selected

Initial value:
{
     .image_path = "assets/image/nibbler_selected.png",
     .character = "assets/text/game_nibbler.txt",
     .color = "red",
     .width = 128,
     .height = 32
```

5.1.3.4 game_snake

```
Assets Arcade::game_snake

Initial value:
{
         .image_path = "assets/image/snake_menu_sprite.png",
         .character = "assets/text/game_snake.txt",
         .color = "red_black",
         .width = 128,
         .height = 32
}
```

5.1.3.5 game_snake_selected

```
Assets Arcade::game_snake_selected

Initial value:
{
     .image_path = "assets/image/snake_selected.png",
     .character = "assets/text/game_snake.txt",
     .color = "red",
     .width = 128,
     .height = 32
}
```

5.1.3.6 game_title

```
Assets Arcade::game_title

Initial value:
{
     .image_path = "assets/image/games_menu_sprite.png",
     .character = "assets/text/game_title.txt",
     .color = "yellow_black",
     .width = 192,
     .height = 64
```

5.1.3.7 grass

```
Assets Arcade::grass
Initial value:
            .image_path = "assets/image/grass_sprite.png",
.character = "assets/text/grass.txt",
.color = "green",
.width = 32,
             .height = 32
5.1.3.8 lib_ncurses
Assets Arcade::lib_ncurses
Initial value:
            .image_path = "assets/image/ncurses_menu_sprite.png",
.character = "assets/text/lib_ncurses.txt",
            .color = "red_black",
.width = 128,
.height = 32
5.1.3.9 lib_ncurses_selected
Assets Arcade::lib_ncurses_selected
Initial value:
            .image_path = "assets/image/ncurses_selected.png",
.character = "assets/text/lib_ncurses.txt",
            .color = "red",
.width = 128,
.height = 32
5.1.3.10 lib_sdl
Assets Arcade::lib_sdl
Initial value:
            .image_path = "assets/image/sdl_menu_sprite.png",
.character = "assets/text/lib_sdl.txt",
.color = "red_black",
.width = 128,
            .height = 32
5.1.3.11 lib_sdl_selected
Assets Arcade::lib_sdl_selected
Initial value:
            .image_path = "assets/image/sdl_selected.png",
.character = "assets/text/lib_sdl.txt",
.color = "red",
.width = 128,
```

.height = 32

5.1.3.12 lib_sfml

5.1.3.14 lib_title

.color = "red", .width = 128, .height = 32

```
Assets Arcade::lib_title

Initial value:
{
     .image_path = "assets/image/libraries_menu_sprite.png",
     .character = "assets/text/lib_title.txt",
     .color = "yellow_black",
     .width = 192,
     .height = 64
```

5.1.3.15 map_menu

5.1.3.16 snake_body_horizontal

```
Assets Arcade::snake_body_horizontal

Initial value:
{
     .image_path = "assets/image/snake_body_x.png",
     .character = "assets/text/snake_body_x.txt",
     .color = "red_green",
     .width = 32,
     .height = 32
```

5.1.3.17 snake_body_vertical

```
Assets Arcade::snake_body_vertical
Initial value:
            .image_path = "assets/image/snake_body_y.png",
.character = "assets/text/snake_body_y.txt",
.color = "red_green",
            .width = 32,
            .height = 32
5.1.3.18 snake_head_east
Assets Arcade::snake_head_east
Initial value:
            .image_path = "assets/image/snake_head_east.png",
.character = "assets/text/snake_head_east.txt",
            .color = "red_green",
.width = 32,
.height = 32
5.1.3.19 snake_head_north
Assets Arcade::snake_head_north
Initial value:
            .image_path = "assets/image/snake_head_north.png",
.character = "assets/text/snake_head_north.txt",
            .color = "red_green",
.width = 32,
.height = 32
5.1.3.20 snake_head_south
Assets Arcade::snake_head_south
Initial value:
            .image_path = "assets/image/snake_head_south.png",
.character = "assets/text/snake_head_south.txt",
.color = "red_green",
.width = 32,
            .height = 32
5.1.3.21 snake_head_west
Assets Arcade::snake_head_west
Initial value:
            .image_path = "assets/image/snake_head_west.png",
.character = "assets/text/snake_head_west.txt",
.color = "red_green",
.width = 32,
            .height = 32
```

5.1.3.22 wall

Class Documentation

6.1 Arcade::Arc Class Reference

Public Member Functions

- void run (const std::string &lib_path, const std::string &game_path)
- void load_graphical (const std::string &path)
- void load_games (const std::string &path)
- void init ()

Public Attributes

- const std::string menu_path = "lib/arcade_menu.so"
- std::vector< std::string > _gamesList = {"lib/arcade_snake.so", "lib/arcade_nibbler.so"}
- bool_run
- std::unique_ptr< |GraphicLib > _graphical = nullptr
- std::unique_ptr< |GameLib > _game = nullptr
- std::unique_ptr< DLLoader< IGraphicLib >> _graphicalLibrary = nullptr
- std::unique_ptr< DLLoader< IGameLib >> _gameLibrary = nullptr

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

- src/Core/Arcade.hpp
- src/Core/Arcade.cpp

6.2 Assets Struct Reference

Public Attributes

- fs::path image_path
- · fs::path character
- fs::path color
- int width
- · int height

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

src/include/Assets.hpp

6.3 DLLoader< T > Class Template Reference

Public Member Functions

- DLLoader (const std::string filename)
- T * getInstance ()
- · const std::string & getPath () const

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

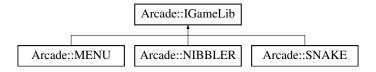
src/Core/Loader/Loader.hpp

6.4 Arcade::IGameLib Class Reference

Game libraries virtual class.

#include <IGameLib.hpp>

Inheritance diagram for Arcade::IGameLib:



Public Member Functions

- virtual std::string getName () const =0
- virtual bool init (Arcade::IGraphicLib &lib)=0
- virtual void map_creator (Arcade::IGraphicLib &lib)=0
- virtual void directions_assigner (Arcade::Keys key)=0
- virtual void collisions ()=0
- virtual void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y)=0
- virtual void end_game_score (Arcade::IGraphicLib &lib)=0
- virtual void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key)=0

6.4.1 Detailed Description

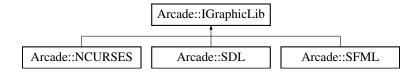
Game libraries virtual class.

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

· src/Games/IGameLib.hpp

6.5 Arcade::IGraphicLib Class Reference

Inheritance diagram for Arcade::IGraphicLib:



Public Member Functions

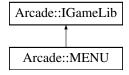
- virtual std::string getName () const =0
- virtual void popWindow (std::string const &title, int width, int height)=0
- virtual Keys getLastEvent ()=0
- virtual void mapManager (Assets &a, int x, int y)=0
- virtual void drawText (std::string text, int x, int y)=0
- virtual void closeWindow ()=0
- virtual int select (Arcade::Keys key)=0
- virtual void refresh ()=0

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

• src/Graphics/IGraphicLib.hpp

6.6 Arcade::MENU Class Reference

Inheritance diagram for Arcade::MENU:



- std::string getName () const override
- bool init (Arcade::IGraphicLib &lib) override
- · void directions assigner (Arcade::Keys key) override
- · void collisions () override
- void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override
- void end_game_score (Arcade::IGraphicLib &lib) override
- · void change libs (Arcade::IGraphicLib &lib, Arcade::Keys key) override
- void map_creator (Arcade::IGraphicLib &lib) override
- virtual std::string getName () const =0
- virtual bool init (Arcade::IGraphicLib &lib)=0
- virtual void map_creator (Arcade::IGraphicLib &lib)=0
- virtual void directions_assigner (Arcade::Keys key)=0
- virtual void collisions ()=0
- virtual void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y)=0
- virtual void end_game_score (Arcade::IGraphicLib &lib)=0
- virtual void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key)=0

Public Attributes

· int counter

6.6.1 Member Function Documentation

6.6.1.1 change_libs()

Implements Arcade::IGameLib.

6.6.1.2 collisions()

```
void Arcade::MENU::collisions ( ) [override], [virtual]
```

Implements Arcade::IGameLib.

6.6.1.3 directions_assigner()

Implements Arcade::IGameLib.

6.6.1.4 drawSnake()

Implements Arcade::IGameLib.

6.6.1.5 end_game_score()

Implements Arcade::IGameLib.

6.6.1.6 getName()

```
std::string Arcade::MENU::getName ( ) const [override], [virtual]
```

Implements Arcade::IGameLib.

6.6.1.7 init()

Implements Arcade::IGameLib.

6.6.1.8 map_creator()

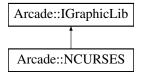
Implements Arcade::IGameLib.

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

- src/Games/Menu/Menu.hpp
- · src/Games/Menu/Menu.cpp

6.7 Arcade::NCURSES Class Reference

Inheritance diagram for Arcade::NCURSES:



- std::string getName () const override
- void popWindow (std::string const &title, int width, int height) override
- Keys getLastEvent () override
- void mapManager (Assets &a, int x, int y) override
- void drawText (std::string text, int x, int y) override
- void closeWindow () override
- int select (Arcade::Keys key) override
- void printFile (Assets &a, fs::path file_path, int x, int y)
- void refresh () override
- virtual std::string getName () const =0
- virtual void **popWindow** (std::string const &title, int width, int height)=0
- virtual Keys getLastEvent ()=0
- virtual void mapManager (Assets &a, int x, int y)=0
- virtual void drawText (std::string text, int x, int y)=0
- virtual void closeWindow ()=0
- virtual int select (Arcade::Keys key)=0
- virtual void refresh ()=0

Public Attributes

- int lib_count
- std::string win_title

Static Public Attributes

• static WINDOW * win = nullptr

6.7.1 Member Function Documentation

6.7.1.1 closeWindow()

```
void Arcade::NCURSES::closeWindow ( ) [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.7.1.2 drawText()

Implements Arcade::IGraphicLib.

6.7.1.3 getLastEvent()

```
Keys Arcade::NCURSES::getLastEvent ( ) [override], [virtual]
Implements Arcade::IGraphicLib.
```

6.7.1.4 getName()

```
std::string Arcade::NCURSES::getName ( ) const [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.7.1.5 mapManager()

Implements Arcade::IGraphicLib.

6.7.1.6 popWindow()

Implements Arcade::IGraphicLib.

6.7.1.7 refresh()

```
void Arcade::NCURSES::refresh ( ) [override], [virtual]
Implements Arcade::IGraphicLib.
```

6.7.1.8 select()

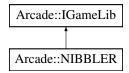
Implements Arcade::IGraphicLib.

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

- src/Graphics/NCURSES/NCurses.hpp
- src/Graphics/NCURSES/NCurses.cpp

6.8 Arcade::NIBBLER Class Reference

Inheritance diagram for Arcade::NIBBLER:



- std::string getName () const override
- void map_creator (Arcade::IGraphicLib &lib) override
- · void directions_assigner (Arcade::Keys key) override
- void collisions () override
- void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override
- void end_game_score (Arcade::IGraphicLib &lib) override
- void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key) override
- bool init (Arcade::IGraphicLib &lib) override
- virtual std::string **getName** () const =0
- virtual bool init (Arcade::IGraphicLib &lib)=0
- virtual void map_creator (Arcade::IGraphicLib &lib)=0
- virtual void directions_assigner (Arcade::Keys key)=0
- virtual void **collisions** ()=0
- virtual void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y)=0
- virtual void end_game_score (Arcade::IGraphicLib &lib)=0
- virtual void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key)=0

Public Attributes

- int snake_x = 1
- int snake_y = 1
- int snake_body_x
- · int snake_body_y
- int food counter = 0
- bool north
- · bool south
- bool east = true
- bool west

6.8.1 Member Function Documentation

6.8.1.1 change_libs()

Implements Arcade::IGameLib.

6.8.1.2 collisions()

```
void Arcade::NIBBLER::collisions ( ) [override], [virtual]
```

Implements Arcade::IGameLib.

6.8.1.3 directions_assigner()

Implements Arcade::IGameLib.

6.8.1.4 drawSnake()

Implements Arcade::IGameLib.

6.8.1.5 end_game_score()

Implements Arcade::IGameLib.

6.8.1.6 getName()

```
std::string Arcade::NIBBLER::getName ( ) const [override], [virtual]
Implements Arcade::IGameLib.
6.8.1.7 init()
bool Arcade::NIBBLER::init (
```

```
Arcade::IGraphicLib & lib ) [override], [virtual]
```

Implements Arcade::IGameLib.

6.8.1.8 map_creator()

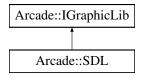
Implements Arcade::IGameLib.

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

- src/Games/Nibbler/Nibbler.hpp
- src/Games/Nibbler/Nibbler.cpp

6.9 Arcade::SDL Class Reference

Inheritance diagram for Arcade::SDL:



- std::string getName () const override
- · void popWindow (std::string const &title, int width, int height) override
- Keys getLastEvent () override
- void mapManager (Assets &a, int x, int y) override
- void drawText (std::string text, int x, int y) override
- · void closeWindow () override
- int select (Arcade::Keys key) override
- void refresh () override
- virtual std::string getName () const =0
- virtual void **popWindow** (std::string const &title, int width, int height)=0
- virtual Keys getLastEvent ()=0
- virtual void mapManager (Assets &a, int x, int y)=0
- virtual void **drawText** (std::string text, int x, int y)=0
- virtual void closeWindow ()=0
- virtual int select (Arcade::Keys key)=0
- virtual void refresh ()=0

Public Attributes

- SDL_Window * window
- SDL_Surface * window_surface
- SDL Renderer * renderer
- int lib_count
- bool **keep_window_open** = true
- int scale_factorx
- int scale_factory

6.9.1 Member Function Documentation

6.9.1.1 closeWindow()

```
void Arcade::SDL::closeWindow ( ) [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.9.1.2 drawText()

Implements Arcade::IGraphicLib.

6.9.1.3 getLastEvent()

```
Keys Arcade::SDL::getLastEvent ( ) [override], [virtual]
Implements Arcade::IGraphicLib.
```

6.9.1.4 getName()

```
std::string Arcade::SDL::getName ( ) const [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.9.1.5 mapManager()

Implements Arcade::IGraphicLib.

6.9.1.6 popWindow()

Implements Arcade::IGraphicLib.

6.9.1.7 refresh()

```
void Arcade::SDL::refresh ( ) [override], [virtual]
Implements Arcade::IGraphicLib.
```

6.9.1.8 select()

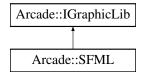
Implements Arcade::IGraphicLib.

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

- src/Graphics/SDL/SDL.hpp
- · src/Graphics/SDL/SDL.cpp

6.10 Arcade::SFML Class Reference

Inheritance diagram for Arcade::SFML:



- std::string getName () const override
- · void popWindow (std::string const &title, int width, int height) override
- Keys getLastEvent () override
- void mapManager (Assets &a, int x, int y) override
- void drawText (std::string text, int x, int y) override
- void closeWindow () override
- int select (Arcade::Keys key) override
- void refresh () override
- virtual std::string **getName** () const =0
- virtual void **popWindow** (std::string const &title, int width, int height)=0
- virtual Keys getLastEvent ()=0
- virtual void mapManager (Assets &a, int x, int y)=0
- virtual void **drawText** (std::string text, int x, int y)=0
- virtual void closeWindow ()=0
- virtual int select (Arcade::Keys key)=0
- virtual void refresh ()=0

Public Attributes

- sf::RenderWindow window
- sf::VideoMode videoMode
- · int lib_count

6.10.1 Member Function Documentation

6.10.1.1 closeWindow()

```
void Arcade::SFML::closeWindow ( ) [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.10.1.2 drawText()

Implements Arcade::IGraphicLib.

6.10.1.3 getLastEvent()

```
Keys Arcade::SFML::getLastEvent ( ) [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.10.1.4 getName()

```
std::string Arcade::SFML::getName ( ) const [override], [virtual]
```

Implements Arcade::IGraphicLib.

6.10.1.5 mapManager()

Implements Arcade::IGraphicLib.

6.10.1.6 popWindow()

Implements Arcade::IGraphicLib.

6.10.1.7 refresh()

```
void Arcade::SFML::refresh ( ) [override], [virtual]
Implements Arcade::IGraphicLib.
```

6.10.1.8 select()

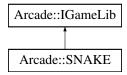
Implements Arcade::IGraphicLib.

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

- src/Graphics/SFML/SFML.hpp
- src/Graphics/SFML/SFML.cpp

6.11 Arcade::SNAKE Class Reference

Inheritance diagram for Arcade::SNAKE:



- std::string getName () const override
- void map_creator (Arcade::IGraphicLib &lib) override
- · void directions_assigner (Arcade::Keys key) override
- void collisions () override
- void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override
- void end_game_score (Arcade::IGraphicLib &lib) override
- void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key) override
- bool init (Arcade::IGraphicLib &lib) override
- virtual std::string getName () const =0
- virtual bool init (Arcade::IGraphicLib &lib)=0
- virtual void map_creator (Arcade::IGraphicLib &lib)=0
- virtual void directions_assigner (Arcade::Keys key)=0
- virtual void **collisions** ()=0
- virtual void drawSnake (Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y)=0
- virtual void end_game_score (Arcade::IGraphicLib &lib)=0
- virtual void change_libs (Arcade::IGraphicLib &lib, Arcade::Keys key)=0

Public Attributes

- int snake_x = 4
- int **snake_y** = 5
- int snake_body_x
- · int snake_body_y
- int food counter = 0
- bool north
- · bool south
- bool east = true
- bool west

6.11.1 Member Function Documentation

6.11.1.1 change_libs()

Implements Arcade::IGameLib.

6.11.1.2 collisions()

```
void Arcade::SNAKE::collisions ( ) [override], [virtual]
```

Implements Arcade::IGameLib.

6.11.1.3 directions_assigner()

Implements Arcade::IGameLib.

6.11.1.4 drawSnake()

Implements Arcade::IGameLib.

6.11.1.5 end_game_score()

Implements Arcade::IGameLib.

6.11.1.6 getName()

```
std::string Arcade::SNAKE::getName ( ) const [override], [virtual]
Implements Arcade::IGameLib.
```

6.11.1.7 init()

Implements Arcade::IGameLib.

6.11.1.8 map_creator()

Implements Arcade::IGameLib.

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

- src/Games/Snake/Snake.hpp
- src/Games/Snake/Snake.cpp

32 Class Documentation

Chapter 7

File Documentation

7.1 Arcade.cpp

```
00002 ** EPITECH PROJECT, 2023
00003 ** B-OOP-400-LYN-4-1-arcade-mathis.legrand
00004 ** File description: 00005 ** Arcade
00006 */
00007
00008 #include "Arcade.hpp"
00009
00010 void Arcade::Arc::run(const std::string &lib_path, const std::string &game_path)
00011 {
          load_graphical(lib_path);
00012
00013
         load_games(game_path);
00014
00015
         auto clock = std::chrono::steady_clock::now();
00016
         _run = true;
00017
         while (_run == true) {
00018
            if (_run == false)
00019
                  break;
00021
             auto now = std::chrono::steady_clock::now();
00022
             auto elapsed = now - clock;
00023
             clock = now;
00024
00025
             init();
00026
         }
00027 }
00028
00029 void Arcade::Arc::init()
00030 {
00031
          _game->init(*_graphical);
00032 }
00033
00034 void Arcade::Arc::load_graphical(const std::string &path)
00035 {
00036
          std::string copy_path = path;
00037
             _graphicalLibrary = std::make_unique<DLLoader<IGraphicLib»(copy_path);
00038
              _graphical = std::unique_ptr<Arcade::IGraphicLib>(_graphicalLibrary->getInstance());
00040
00041
         catch (const std::exception& e) {
00042
             std::cerr « e.what() « std::endl;
00043
00044 }
00045
00046 void Arcade::Arc::load_games(const std::string &path)
00047 {
00048
          std::string copy_path = path;
00049
          try {
00050
             _gameLibrary = std::make_unique<DLLoader<IGameLib»(copy_path);
              _game.reset(_gameLibrary->getInstance());
00052
00053
         catch (const std::exception& e) {
00054
             std::cerr « e.what() « std::endl;
00055
00056 }
00058 Arcade::Arc::~Arc()
```

7.2 Arcade.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** B-OOP-400-LYN-4-1-arcade-mathis.legrand
00004 ** File description:
00005 ** Arcade
00006 */
00008 #pragma once
00000 #pragma Once
00009 #include "Loader/Loader.hpp"
00010 #include "../Graphics/IGraphicLib.hpp"
00011 #include "../Games/IGameLib.hpp"
00012 #include "../include/Assets.hpp"
00013
00014 #include <memory>
00015 #include <string>
00016 #include <vector>
00017 #include <iostream>
00018 #include <string.h>
00020 namespace Arcade {
00021
         class Arc {
00022
                public:
00023
                     Arc() = default;
00024
                      ~Arc();
00025
                      void run(const std::string &lib_path, const std::string &game_path);
                      void load_graphical(const std::string &path);
00027
                      void load_games(const std::string &path);
00028
                       const std::string menu_path = "lib/arcade_menu.so";
                      std::vector<std::string> _gamesList = {"lib/arcade_snake.so", "lib/arcade_nibbler.so"};
std::vector<std::string> _graphicalsList = {"lib/arcade_ncurses.so", "lib/arcade_sdl2.so",
00029
00030
       "lib/arcade_sfml.so"};
00031
                      void init();
00032
00033
                      bool _run;
00034
                      std::unique_ptr<IGraphicLib> _graphical = nullptr;
00035
                      std::unique_ptr<IGameLib> _game = nullptr;
std::unique_ptr<DLLoader<IGraphicLib> _graphicalLibrary = nullptr;
00036
00038
                       std::unique_ptr<DLLoader<IGameLib» _gameLibrary = nullptr;</pre>
00039
00040
            };
00041 }
```

7.3 Loader.hpp

```
00002 ** EPITECH PROJECT, 2023
00003 ** B-OOP-400-LYN-4-1-arcade-mathis.legrand
00004 ** File description:
00005 ** Loader
00006 */
00008 #pragma once
00009
00010 #include <iostream>
00011 #include <string>
00012 #include <vector>
00013 #include <dlfcn.h>
00014
00015 template<typename T>
00016 class DLLoader {
00017 private:
00018
         std::string _path;
          void *handle;
00020
         T *(*get_instance)();
00021
00022 public:
       DLLoader(const std::string filename)
00023
00024
00025
              handle = dlopen(filename.c_str(), RTLD_LAZY);
              if (!handle) {
00027
                  throw std::runtime_error(dlerror());
```

7.4 IGameLib.hpp 35

```
00028
00029
              get_instance = reinterpret_cast<T *(*)()>(dlsym(handle, "getInstance"));
00030
              if (!get_instance) {
00031
                  throw std::runtime_error(dlerror());
00032
00033
          }
00035
          ~DLLoader()
00036
00037
              if (handle)
00038
              {
00039
                  dlclose(handle);
00040
00041
          }
00042
00043
          T *getInstance()
00044
00045
              return get_instance();
00046
00047
00048
          const std::string &getPath() const
00049
00050
              return _path;
00051
00052 };
```

7.4 IGameLib.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** arcade
00004 ** File description:
00005 ** arcade
00006 */
00007
00008 /
00009 * Interface used by game libraries.
00010 * All functions must be implemented correctly for the kernel to handle the game libraries.
00011 */
00012
00013 #pragma once
00014
00015 #include "../Graphics/IGraphicLib.hpp"
00016 #include "../include/Assets.hpp"
00017 #include <string>
00018 #include <random>
00019 #include <iostream>
00020 #include <fstream>
00021 #include <chrono>
00022 #include <thread>
00023 #include <cstdlib> // for rand() and srand()
00024 #include <ctime> // for time()
00025
00026 namespace Arcade {
00032 class IGameLib { 00033 // Purely virtual class that serves as the basis for all game libraries
00034
           public:
00035
00036
                virtual ~IGameLib() = default;
00037
                // Destructor
00038
                // IGameLib class's destructor
00039
00040
                virtual std::string getName() const = 0;
00041
                //summary: Game name's getter
00042
                //return: a string containing the name of the game
00043
                virtual bool init(Arcade::IGraphicLib &lib) = 0;
00044
                //summary: Initializes the game
00045
                //param lib: the graphic library to use //return: true if the game was initialized correctly, false otherwise \,
00046
00047
00048
                virtual void map_creator(Arcade::IGraphicLib &lib) = 0;
00049
00050
                //param lib: the graphic library to use
00051
                virtual void directions_assigner(Arcade::Keys key) = 0;
//summary: Assigns the directions to the snake
00052
00053
00054
                //param key: the key pressed by the user
00055
00056
                virtual void collisions() = 0;
00057
                //summary: Checks for collisions
00058
00059
                virtual void drawSnake(Arcade::IGraphicLib &lib, int snake body x, int snake body y) = 0;
00060
                //summary: Draws the snake
```

```
//param lib: the graphic library to use and the snake's body's coordinates
   00062
   00063
                                                                                                                                                                                                                                                                  virtual void end_game_score(Arcade::IGraphicLib &lib) = 0;
   00064
                                                                                                                                                                                                                                                                     //summary: Displays the score at the end of the game % \frac{1}{2}\left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) +\frac{1}{2}\left( \frac{1}{
00065
                                                                                                                                                                                                                                                                  //param lib: the graphic library to use % \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1
   00066
                                                                                                                                                                                                                                                                  virtual void change_libs(Arcade::IGraphicLib &lib, Arcade::Keys key) = 0;
   00068
                                                                                                                                                                                                                                                                     //summary: Changes the .so file of the graphic or game libraries
   00069
                                                                                                                                                                                                                                                                     //param lib: the graphical interface to use
00070
00071
                                                                                                                                                                                  };
00072 };
```

7.5 Menu.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** menu header file
00004 ** File description:
00005 ** Menu
00006 */
00007
00008 #pragma once
00009 #include "../IGameLib.hpp"
00010 #include ".././Graphics/IGraphicLib.hpp"
00012 namespace Arcade {
00013
00014
          class MENU : public IGameLib {
00015
             public:
                  MENU();
00016
00017
                   ~MENU();
00019
00020
                   std::string getName() const override;
00021
                   bool init(Arcade::IGraphicLib &lib) override;
00022
                   void directions_assigner(Arcade::Keys key) override;
00023
                   void collisions() override;
00024
                   void drawSnake(Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override;
00025
                   void end_game_score(Arcade::IGraphicLib &lib) override;
00026
                   void change_libs(Arcade::IGraphicLib &lib, Arcade::Keys key) override;
00027
                   void map_creator(Arcade::IGraphicLib &lib) override;
00028
00029
              protected:
              private:
00031
00032 }
```

7.6 Nibbler.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** snake header file
00004 ** File description:
00005 ** Nibbler
00006 */
00007
00008 #pragma once
00009 #include "../IGameLib.hpp"
00010 #include "../../Graphics/IGraphicLib.hpp"
00011
00012 namespace Arcade {
00013
00014
           class NIBBLER : public IGameLib {
              public:
00016
                  NIBBLER();
00017
                    ~NIBBLER();
00018
00019
                   int snake_x = 1;
                   int snake_y = 1;
int snake_body_x;
00020
00021
00022
                   int snake_body_y;
00023
                   int food_counter = 0;
00024
                   bool north;
00025
                   bool south;
00026
                   bool east = true;
00027
                   bool west;
                   std::string getName() const override;
00029
                   void map_creator(Arcade::IGraphicLib &lib) override;
```

7.7 Snake.hpp 37

```
void directions_assigner(Arcade::Keys key) override;
               void collisions() override;
00031
00032
               void drawSnake(Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override;
               void end_game_score(Arcade::IGraphicLib &lib) override;
00033
00034
               void change_libs(Arcade::IGraphicLib &lib, Arcade::Keys key) override;
00035
               bool init (Arcade::IGraphicLib &lib) override;
00037
00038
            private:
               enum Grid {
00039
00040
                   Empty,
00041
                   E = Empty,
00042
                   Wall,
00043
                   W = Wall,
00044
                   Food,
00045
                   F = Food
00046
                   Snake,
00047
                   S = Snake
00048
               };
               00049
00050
00051
               W, E, E, F, E, E, E, F, E, E, F, E, E, E, F, E, E, W,
00052
               W, E, W, W, W, E, W, E, W, W, E, W, E, W, W, W, E, W,
00053
               W, F, W, E, W, F, W, E, E, E, E, E, W, F, W, E, W, F, W,
00054
               W, E, W, W, W, E, W, E, W, E, W, E, W, E, W, W, W, E, W,
00055
               W, E, E, E, E, E, W, F, W, E, W, F, W, E, E, E, E, E, W,
00056
               W,
                    W, W, W, W, E, W,
                                       E, W, E,
                                               W,
00057
               W, F,
                    W, E, F, E, E, E, E, E, E, E, E, F,
                                                      E, W,
00058
               W, E, W, E, W, W, W, W, W, F, W, W,
                                               W, W, W, E, W,
00059
               00060
               W. E. W. W. W. W. E. W. W. E. W. W. W. W. W. E. W.
00061
               W, E, E, F, E, E, E, E, W, E, W, E, E, E, E, F, E, E, W,
00062
               W, E, W, W, E, W, E, W, W, W, E, W, E, W, W, W, E,
00063
               W, E, W, E, W, E, W, E, E, F, E, E, W, E, W, E, W,
                                               W, F,
00064
               W, F,
                    W, W, W, F, W, F, W, W, W, F,
                                                    W,
                                                      W, W,
00065
               W, E, E, E, E, E, W, E, W, E, W, E, E, E, E, E, E, W,
00066
               W, F, W, W, W, W, E, W, W, E, W, W, W, W, W, F, W,
00067
               00068
               00069
00070
        } ;
00071 }
```

7.7 Snake.hpp

```
00002 ** EPITECH PROJECT, 2023
00003 ** snake header file
00004 ** File description:
00005 ** Snake
00006 */
00007
00008 #pragma once
00009 #include "../IGameLib.hpp"
00010
00011 namespace Arcade {
00012
00013
          class SNAKE : public IGameLib {
              public:
00014
00015
                  SNAKE();
00016
                   ~SNAKE();
00017
00018
                   int snake x = 4;
                   int snake_y = 5;
00020
                   int snake_body_x;
00021
                   int snake_body_y;
00022
                   int food_counter = 0;
00023
                   bool north;
00024
                   bool south;
00025
                   bool east = true;
00026
                   bool west;
00027
                   std::string getName() const override;
00028
                   void map_creator(Arcade::IGraphicLib &lib) override;
00029
                   void directions_assigner(Arcade::Keys key) override;
00030
                   void collisions() override;
                   void drawSnake(Arcade::IGraphicLib &lib, int snake_body_x, int snake_body_y) override;
void end_game_score(Arcade::IGraphicLib &lib) override;
00031
00032
00033
                   void change_libs(Arcade::IGraphicLib &lib, Arcade::Keys key) override;
00034
                   bool init(Arcade::IGraphicLib &lib) override;
00035
00036
               protected:
00037
               private:
                   enum Grid {
```

```
Empty,
                                                                   E = Empty,
00040
00041
                                                                   Wall.
00042
                                                                   W = Wall.
00043
                                                                   Snake,
00044
                                                                   S = Snake,
                                                                   Food,
00046
00047
                                                         };
                                              00048
00049
00050
                                              00051
                                              00052
                                               00053
                                              00054
                                              00055
                                              00056
                                              00058
                                               00059
                                              00060
                                              W, E, E,
                                                                                                                                            E, E,
                                                                                                                                                            E, E, E,
00061
                                              00062
                                              00063
                                              00065
                                              00066
                                              00067
                                               \  \, \text{W}, \  \, \text{W
00068
00069
                          };
00070 }
```

7.8 IGraphicLib.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** arcade
00004 ** File description:
00005 ** arcade
00006 */
00007
00008 /3
00009 * Interface used by graphic libraries
00010 * All functions must be implemented correctly for the kernel to handle the graphic libraries.
00011 */
00012
00013 #pragma once
00014
00015 #include <string>
00016 #include "../include/Keys.hpp"
00017 #include "../include/Assets.hpp"
00018
00019
00020 namespace Arcade {
       class IGraphicLib {
00026
              //Purely virtual class that serves as the basis for all graphic libraries
00027
00028
          public:
00029
00030
              virtual ~IGraphicLib() = default;
00031
              // Destructor
00032
              //IGraphicLib class's destructor
00033
              virtual std::string getName() const = 0;
00035
              //summary: Graphic library name's getter
00036
              //return: a string containing the name of the graphic library
00037
00038
              virtual void popWindow(std::string const& title, int width, int height) = 0;
              //summary: Creates a window
00039
00040
              //param title: the title of the window
00041
              //return: void
00042
00043
              virtual Keys getLastEvent() = 0;
00044
              //summary: Gets the last keyboard event that happened in the window
              //return: the last event that happened in the window
00045
00046
00047
              virtual void mapManager(Assets &a, int x, int y) = 0;
00048
              //summary: displays different sprites at the x and y position
00049
               //param a: the assets to use
00050
              //param x: the x position of the map
00051
              //param y: the y position of the map
00052
              virtual void drawText(std::string text, int x, int y) = 0;
```

7.9 NCurses.hpp 39

```
//summary: Draws text
00055
              //param lib:the text to draw, the x and y coordinates
00056
00057
              virtual void closeWindow() = 0;
00058
              //summary: Closes the window
00059
              virtual int select(Arcade::Keys key) = 0;
00061
              //summary: Selects the current item in the menu
00062
00063
              virtual void refresh() = 0;
00064
              //summary: Refreshes the window
00065
         };
00066 };
```

7.9 NCurses.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** ncurses header file
00004 ** File description:
00005 ** ncurses
00006 */
00007
00008 #pragma once
00009
00010 #include "../IGraphicLib.hpp"
00011 #include <ncurses.h>
00012
00013 //to compile, use these flags: -lncurses
00014
00015 namespace Arcade {
00016
          class NCURSES : public IGraphicLib {
00018
00019
              NCURSES();
00020
               ~NCURSES() override;
00021
00022
              static WINDOW* win;
00023
               int lib_count;
00024
               std::string win_title;
00025
               std::string getName() const override;
00026
               void popWindow(std::string const& title, int width, int height) override;
00027
               Keys getLastEvent() override;
              void mapManager(Assets &a, int x, int y) override;
void drawText(std::string text, int x, int y) override;
00028
00030
               void closeWindow() override;
00031
               int select(Arcade::Keys key) override;
00032
               void printFile(Assets &a, fs::path file_path, int x, int y);
00033
               void refresh() override;
00034
00035
          };
00036 }
```

7.10 SDL.hpp

```
00001 #include "../IGraphicLib.hpp"
00002 #include <iostream>
00003 #include <SDL2/SDL.h>
00004 #include <SDL2/SDL_ttf.h>
00005 #include <SDL2/SDL_image.h>
00006
00007 //to compile use these flags: -1SDL2 -1SDL2_ttf
80000
00009 namespace Arcade {
00011
          class SDL : public IGraphicLib {
00012
         public:
00013
             SDL();
00014
              ~SDL() override;
00015
              SDL_Window *window;
00016
              SDL_Surface *window_surface;
00017
              SDL_Renderer *renderer;
00018
              int lib_count;
00019
              bool keep_window_open = true;
00020
              int scale_factorx;
00021
              int scale_factory;
00022
              std::string getName() const override;
00024
              void popWindow(std::string const& title, int width, int height) override;
```

```
00025 Keys getLastEvent() override;
00026 void mapManager(Assets &a, int x, int y) override;
00027 void drawText(std::string text, int x, int y) override;
00028 void closeWindow() override;
00029 int select(Arcade::Keys key) override;
00030 void refresh() override;
00031
00032 private:
00033 };
00034 }
```

7.11 SFML.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** sfml header file
00004 ** File description:
00005 ** sfml
00006 */
00007
00008 #pragma once
00009
00010 #include "../IGraphicLib.hpp"
00011 #include <SFML/Graphics.hpp>
00013 //to compile use these flags: -lsfml-graphics -lsfml-window -lsfml-system
00014
00015 namespace Arcade {
00016
00017
           class SFML : public IGraphicLib {
00018
          public:
00019
             SFML();
00020
               ~SFML() override;
00021
00022
              sf::RenderWindow window;
00023
               sf::VideoMode videoMode;
               int lib_count;
00025
               std::string getName() const override;
00026
               void popWindow(std::string const& title, int width, int height) override;
00027
               Keys getLastEvent() override;
00028
               void mapManager(Assets &a, int x, int y) override; void drawText(std::string text, int x, int y) override;
00029
00030
               void closeWindow() override;
00031
               int select(Arcade::Keys key) override;
00032
               void refresh() override;
00033
00034
          private:
00035
          };
00036 }
```

7.12 Assets.hpp

```
00002 ** EPITECH PROJECT, 2023
00003 ** Untitled (Workspace)
00004 ** File description:
00005 ** Assets
00006 */
00007
00008 #ifndef ASSETS_HPP_
00009 #define ASSETS_HPP_
00010
00011 #include <filesystem>
00012 #include <iostream>
00013 #include <fstream>
00014 #include <string>
00015 #include <cstring>
00016 #include <array>
00017
00018 namespace fs = std::filesystem;
00019
00020 struct Assets {
         fs::path image_path;
00022
         fs::path character;
          fs::path color;
00023
00024
          int width;
00025
          int height;
00026 };
00028 #endif /* !ASSETS_HPP_ */
```

7.13 Keys.hpp 41

7.13 Keys.hpp

```
00001 /*
00002 ** EPITECH PROJECT, 2023
00003 ** arcade
00004 ** File description:
00005 ** arcade
00006 */
00007
00008 /* 00009 * Key Enum, each graphics library must store a map in order to convert 00010 * the specific library key code into one of this enum code so that it can be 00011 * used by other components independently of the graphics library. 00012 */
 00013
00014 #pragma once
00015
00016 namespace Arcade {
00017
 00018
                     enum Keys {
 00019
                             NONE,
                             NONE,
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,
LEFT, RIGHT, UP, DOWN,
ENTER, SPACE, DELETE, BACKSPACE, TAB, ESC,
MOUSELEFT, MOUSERIGHT
00020
00021
00022
00023
 00024
 00025
00026
00032 };
```

Index

apple	collisions, 24
Arcade, 10	directions_assigner, 24
Arcade, 9	drawSnake, 24
apple, 10	end_game_score, 24
game_nibbler, 10	getName, 24
game_nibbler_selected, 11	init, 25
game_snake, 11	map_creator, 25
game_snake_selected, 11	Arcade::SDL, 25
game_title, 11	closeWindow, 26
grass, 11	drawText, 26
Keys, 10	getLastEvent, 26
lib_ncurses, 12	getName, 26
lib_ncurses_selected, 12	mapManager, 26
lib_sdl, 12	popWindow, 26
lib_sdl_selected, 12	refresh, 27
lib_sfml, 12	select, 27
lib_sfml_selected, 13	Arcade::SFML, 27
lib_title, 13	closeWindow, 28
map_menu, 13	drawText, 28
snake_body_horizontal, 13	getLastEvent, 28
snake_body_vertical, 13	getName, 28
snake_head_east, 14	mapManager, 28
snake_head_north, 14	popWindow, 28
snake_head_south, 14	refresh, 29
snake head west, 14	select, 29
wall, 14	Arcade::SNAKE, 29
Arcade::Arc, 17	change_libs, 30
Arcade::IGameLib, 18	collisions, 30
Arcade::IGraphicLib, 19	directions_assigner, 30
Arcade::MENU, 19	drawSnake, 30
change_libs, 20	end_game_score, 30
collisions, 20	getName, 30
directions_assigner, 20	init, 31
drawSnake, 20	map_creator, 31
end game score, 20	Assets, 17
getName, 20	· ·
init, 20	change_libs
map creator, 21	Arcade::MENU, 20
Arcade::NCURSES, 21	Arcade::NIBBLER, 24
closeWindow, 22	Arcade::SNAKE, 30
drawText, 22	closeWindow
getLastEvent, 22	Arcade::NCURSES, 22
getName, 22	Arcade::SDL, 26
mapManager, 22	Arcade::SFML, 28
popWindow, 22	collisions
refresh, 23	Arcade::MENU, 20
select, 23	Arcade::NIBBLER, 24
Arcade::NIBBLER, 23	Arcade::SNAKE, 30
change_libs, 24	,
5agooo, = /	directions_assigner

44 INDEX

Arcade::MENU, 20	Arcade, 12
Arcade::NIBBLER, 24	lib_sfml_selected
Arcade::SNAKE, 30	Arcade, 13
DLLoader< T >, 18	lib_title
drawSnake	Arcade, 13
Arcade::MENU, 20	
Arcade::NIBBLER, 24	map_creator
Arcade::SNAKE, 30	Arcade::MENU, 21
drawText	Arcade::NIBBLER, 25
Arcade::NCURSES, 22	Arcade::SNAKE, 31
Arcade::SDL, 26	map_menu
Arcade::SFML, 28	Arcade, 13
	mapManager
end_game_score	Arcade::NCURSES, 22
Arcade::MENU, 20	Arcade::SDL, 26
Arcade::NIBBLER, 24	Arcade::SFML, 28
Arcade::SNAKE, 30	a an NAC and a second
	popWindow
game_nibbler	Arcade::NCURSES, 22
Arcade, 10	Arcade::SDL, 26
game_nibbler_selected	Arcade::SFML, 28
Arcade, 11	refresh
game_snake	Arcade::NCURSES, 23
Arcade, 11	Arcade::NOONGEG, 25
game_snake_selected	Arcade::SFML, 29
Arcade, 11	Alloudoor WE, Eb
game_title	select
Arcade, 11 getLastEvent	Arcade::NCURSES, 23
Arcade::NCURSES, 22	Arcade::SDL, 27
Arcade::NCOnSES, 22 Arcade::SDL, 26	Arcade::SFML, 29
Arcade::SFML, 28	snake_body_horizontal
getName	Arcade, 13
Arcade::MENU, 20	snake_body_vertical
Arcade::NCURSES, 22	Arcade, 13
Arcade::NIBBLER, 24	snake_head_east
Arcade::SDL, 26	Arcade, 14
Arcade::SFML, 28	snake_head_north
Arcade::SNAKE, 30	Arcade, 14
grass	snake_head_south
Arcade, 11	Arcade, 14
Auddo, 11	snake_head_west
init	Arcade, 14
Arcade::MENU, 20	src/Core/Arcade.cpp, 33
Arcade::NIBBLER, 25	src/Core/Arcade.hpp, 34
Arcade::SNAKE, 31	src/Core/Loader/Loader.hpp, 34
	src/Games/IGameLib.hpp, 35
Keys	src/Games/Menu/Menu.hpp, 36
Arcade, 10	src/Games/Nibbler/Nibbler.hpp, 36
	src/Games/Snake/Snake.hpp, 37
lib_ncurses	src/Graphics/IGraphicLib.hpp, 38
Arcade, 12	src/Graphics/NCURSES/NCurses.hpp, 39
lib_ncurses_selected	src/Graphics/SDL/SDL.hpp, 39
Arcade, 12	src/Graphics/SFML/SFML.hpp, 40
lib_sdl	src/include/Assets.hpp, 40
Arcade, 12	src/include/Keys.hpp, 41
lib_sdl_selected	
Arcade, 12	wall
lib_sfml	Arcade, 14