Arcade

1.0

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How to implement your own game / library

Game

- First, you wanna create a c++ class implementing the IGameModule interface.
- · Next you wanna compile it into a dynamic library (.so file).
- Put that library file in the games / folder located at the root of the arcade repository.
 - Note that it must follow the following naming convention : lib_arcade_\$gamename.so.

Every class contained by the libraries located in the <code>games/</code> folder are going to be instanciated using the symbol <code>createLib</code> that your library must contain.

It should be as following:

```
extern "C" std::unique_ptr<Arcade::Games::IGameModule> createLib(void)
{
    return std::make_unique<MyGameModule>();
}
```

Library

- First, you wanna create a c++ class implementing the IDisplayModule interface.
- · Next you wanna compile it into a dynamic library (.so file).
- Put that library file in the lib/ folder located at the root of the arcade repository.
 - Note that it must follow the following naming convention: lib_arcade_\$libraryname.so.

Every class contained by the libraries located in the lib/ folder are going to be instanciated using the symbol createLib that your library **must** contain.

It should be as following:

```
extern "C" std::unique_ptr<Arcade::Display::IDisplayModule> createLib(void)
{
    return std::make_unique<MyDisplayModule>();
}
```

Namespace Index

2.1 Namespace List

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

Arcade	
Arcade::Display	
Arcade::Exceptions	10
Arcade::Games	10

4 Namespace Index

Hierarchical Index

3.1 Class Hierarchy

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

Arcade::Core	21
Arcade::Exceptions::ArcadeException	. 17
Arcade::Exceptions::BadFileException	
Arcade::Exceptions::BadInstanciationException	
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6 Hierarchical Index

Class Index

4.1 Class List

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

8 Class Index

Namespace Documentation

5.1 Arcade Namespace Reference

Namespaces

- Display
- Exceptions
- Games

Classes

· class Core

Core class that handles all the interactions between the library modules and the game modules.

5.1.1 Detailed Description

Default namespace for the project.

5.2 Arcade::Display Namespace Reference

Classes

· class ADisplayModule

Abstract class adding utilities and an enum to the IDisplayModule interface.

class IDisplayModule

Interface for the display modules used to display things.

· class Libcaca

Libcaca library.

• class SDL

SDL library.

• class SFML

SFML library.

5.2.1 Detailed Description

Contains elements related to the display libraries of the Arcade project.

5.3 Arcade::Exceptions Namespace Reference

Classes

• class ArcadeException

Base exception class for this projects' exceptions.

• class BadFileException

Thrown when looking up to an external file that is inexistant.

· class BadInstanciationException

Thrown when library objects failed to be instanciated.

· class InvalidLibraryException

Thrown when trying to use an invalid library file.

5.3.1 Detailed Description

Contains a loadout of exceptions that are used in the Arcade project.

5.4 Arcade::Games Namespace Reference

Classes

· class AGameModule

Abstract class implementing key methods of the IGameModule interface.

class Centipede

Centipede game.

· class IGameModule

Interface for the game modules used to handle games.

· class Nibbler

Nibbler game.

• class Pacman

Pacman game.

class Qix

Qix game.

· class Solarfox

Solarfox game.

5.4.1 Detailed Description

Contains elements related to the game libraries of the Arcade project.

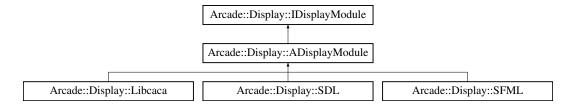
Class Documentation

6.1 Arcade::Display::ADisplayModule Class Reference

Abstract class adding utilities and an enum to the IDisplayModule interface.

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

Inheritance diagram for Arcade::Display::ADisplayModule:



Public Member Functions

- ADisplayModule (const std::string &libName)
 - Construct a new ADisplayModule object.
- const std::string & getLibName () const final Gets the library name.

Protected Types

```
enum SystemKeys {ESCAPE = Keys::KEYS_END, M, R, F1,F2, F3, F4, SYSKEYS_END }
```

Additional keys that are used by the library.

Additional Inherited Members

6.1.1 Detailed Description

Abstract class adding utilities and an enum to the IDisplayModule interface.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 ADisplayModule()

Construct a new ADisplayModule object.

Parameters

libName	The library's name
---------	--------------------

6.1.3 Member Function Documentation

6.1.3.1 getLibName()

```
const std::string& Arcade::Display::ADisplayModule::getLibName ( ) const [final], [virtual]
```

Gets the library name.

Returns

The library's name

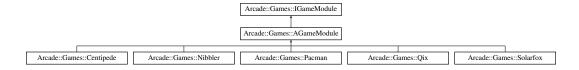
Implements Arcade::Display::IDisplayModule.

6.2 Arcade::Games::AGameModule Class Reference

Abstract class implementing key methods of the IGameModule interface.

#include <AGameModule.hpp>

Inheritance diagram for Arcade::Games::AGameModule:



Public Member Functions

AGameModule (std::string const &libName)

Construct a new AGameModule object.

bool loadFromFile (const std::string &filepath) final

Loads highscores from a file.

• bool loadFromFile () final

Loads highscores from the default save file.

bool saveToFile (const std::string &filepath) const final

Saves highscores to a file.

• bool saveToFile () const final

Saves highscores from the default save file.

void setPlayerName (const std::string &name) final

Sets the player name.

• std::pair< std::string, int > getScore () const final

Gets the current score.

std::vector< std::pair< std::string, int > > getBestScores () const final

Gets the best 16 scores.

void render (Arcade::Display::IDisplayModule &lib) const override

Default game implementation (out of order)

• const std::string & getLibName () const final

Gets the library name.

Protected Member Functions

void addToBestScores (int nb)

Adds a score to the scoreboard.

void drawGameOver (Arcade::Display::IDisplayModule &displayModule) const

Display game over screen.

Protected Attributes

· int currentScore

The current score of the active game session.

bool _isDead

True if the player is dead.

6.2.1 Detailed Description

Abstract class implementing key methods of the IGameModule interface.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 AGameModule()

Construct a new AGameModule object.

Parameters

libName	The library's name
---------	--------------------

6.2.3 Member Function Documentation

6.2.3.1 addToBestScores()

Adds a score to the scoreboard.

Parameters

```
nb The score value
```

6.2.3.2 drawGameOver()

Display game over screen.

Parameters

displayModule	The display module
---------------	--------------------

6.2.3.3 getBestScores()

```
std::vector<std::pair<std::string, int> > Arcade::Games::AGameModule::getBestScores ( ) const
[final], [virtual]
```

Gets the best 16 scores.

Returns

std::vector<std::pair<std::string, int>> Vector of [name, score] value pairs

Implements Arcade::Games::IGameModule.

```
6.2.3.4 getLibName()
```

```
const std::string& Arcade::Games::AGameModule::getLibName ( ) const [final], [virtual]
```

Gets the library name.

Returns

The library's name

Implements Arcade::Games::IGameModule.

```
6.2.3.5 getScore()
```

```
std::pair<std::string, int> Arcade::Games::AGameModule::getScore ( ) const [final], [virtual]
```

Gets the current score.

Returns

```
std::pair<std::string, int> [Name, score] value pairs
```

Implements Arcade::Games::IGameModule.

```
6.2.3.6 loadFromFile() [1/2]
```

Loads highscores from a file.

Parameters

```
filepath The file path
```

Returns

true Highscores were loaded false An error occured

Implements Arcade::Games::IGameModule.

```
6.2.3.7 loadFromFile() [2/2]
```

```
bool Arcade::Games::AGameModule::loadFromFile ( ) [final], [virtual]
```

Loads highscores from the default save file.

Returns

true Highscores were loaded false An error occured

Implements Arcade::Games::IGameModule.

6.2.3.8 render()

Default game implementation (out of order)

Parameters

lib The display module that will be used to put things on a canvas.

Implements Arcade::Games::IGameModule.

Reimplemented in Arcade::Games::Nibbler, and Arcade::Games::Pacman.

```
6.2.3.9 saveToFile() [1/2]
```

Saves highscores to a file.

Parameters

filepath	The file path

Returns

true Highscores were saved false An error occured

Implements Arcade::Games::IGameModule.

```
6.2.3.10 saveToFile() [2/2]
```

bool Arcade::Games::AGameModule::saveToFile () const [final], [virtual]

Saves highscores from the default save file.

Returns

true Highscores were saved false An error occured

Implements Arcade::Games::IGameModule.

6.2.3.11 setPlayerName()

Sets the player name.

Parameters

name	The player name
------	-----------------

Implements Arcade::Games::IGameModule.

6.3 Arcade::Exceptions::ArcadeException Class Reference

Base exception class for this projects' exceptions.

```
#include <ArcadeException.hpp>
```

Inheritance diagram for Arcade::Exceptions::ArcadeException:



Public Member Functions

• ArcadeException (std::string const &message, std::string const &component)

Construct a new Arcade Exception object.

• const char * what (void) const noexcept override

Gets the error message which describe why the exception occured.

std::string const & getComponent (void) const noexcept

Gets the name of component where the exception occured.

6.3.1 Detailed Description

Base exception class for this projects' exceptions.

6.3.2 Constructor & Destructor Documentation

6.3.2.1 ArcadeException()

Construct a new Arcade Exception object.

Parameters

message	Message explaining the problem.
component	Additional information on where the problem occured.

6.3.3 Member Function Documentation

6.3.3.1 getComponent()

Gets the name of component where the exception occured.

Returns

The component name

6.3.3.2 what()

Gets the error message which describe why the exception occured.

Returns

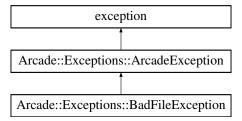
The error message

6.4 Arcade::Exceptions::BadFileException Class Reference

Thrown when looking up to an external file that is inexistant.

```
#include <BadFileException.hpp>
```

Inheritance diagram for Arcade::Exceptions::BadFileException:



Public Member Functions

BadFileException (std::string const &message, std::string const &component)
 Construct a new Bad File Exception object.

6.4.1 Detailed Description

Thrown when looking up to an external file that is inexistant.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 BadFileException()

Construct a new Bad File Exception object.

Parameters

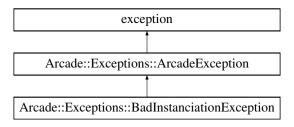
message	Message explaining the problem.
component	Additional information on where the problem occured.

6.5 Arcade::Exceptions::BadInstanciationException Class Reference

Thrown when library objects failed to be instanciated.

#include <BadInstanciationException.hpp>

Inheritance diagram for Arcade::Exceptions::BadInstanciationException:



Public Member Functions

• BadInstanciationException (std::string const &message, std::string const &component)

Construct a new Bad Instanciation Exception object.

6.5.1 Detailed Description

Thrown when library objects failed to be instanciated.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 BadInstanciationException()

Construct a new Bad Instanciation Exception object.

Parameters

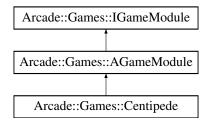
message	Message explaining the problem.
component	Additional information on where the problem occured.

6.6 Arcade::Games::Centipede Class Reference

Centipede game.

```
#include <Centipede.hpp>
```

Inheritance diagram for Arcade::Games::Centipede:



Public Member Functions

· void reset () final

Resets and restarts the game.

• void update (const Arcade::Display::IDisplayModule &lib) final Updates the game.

Additional Inherited Members

6.6.1 Detailed Description

Centipede game.

6.6.2 Member Function Documentation

```
6.6.2.1 update()
```

Updates the game.

Parameters

lib The display module that will be used to get events that occured

Implements Arcade::Games::IGameModule.

6.7 Arcade::Core Class Reference

Core class that handles all the interactions between the library modules and the game modules.

```
#include <Core.hpp>
```

Public Member Functions

• Core (const std::string &startLibraryPath)

Construct a new Core object.

• void play ()

Starts the arcade program.

6.7.1 Detailed Description

Core class that handles all the interactions between the library modules and the game modules.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 Core()

Construct a new Core object.

Parameters

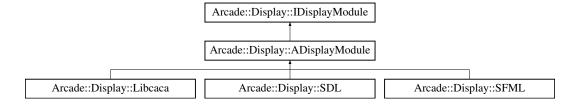
startLibraryPath The library path that will be first used when the program will be started.

6.8 Arcade::Display::IDisplayModule Class Reference

Interface for the display modules used to display things.

```
#include <IDisplayModule.hpp>
```

Inheritance diagram for Arcade::Display::IDisplayModule:



Public Types

enum Colors {
 DEFAULT, BLACK, RED, GREEN,

```
YELLOW, BLUE, MAGENTA, CYAN,
 LIGHT GRAY, DARK GRAY, LIGHT RED, LIGHT GREEN,
 LIGHT_YELLOW, LIGHT_BLUE, LIGHT_MAGENTA, LIGHT_CYAN,
 WHITE, COLORS_END }
    Available colors.
• enum Keys {
 LEFT, RIGHT, UP, DOWN,
 Z, Q, S, D,
 A, E, W, X,
 SPACE, J, K, U,
 I, ENTER, KEYS_END }
    Available keys.
```

Public Member Functions

virtual void reset ()=0

Resets the library.

virtual void open ()=0

Opens / initializes the window.

• virtual bool isOpen () const =0

Check window status.

virtual bool switchToNextLib () const =0

Checks whether you need to change the current display library.

virtual bool switchToPreviousLib () const =0

Checks whether you need to change the current display library.

virtual bool switchToNextGame () const =0

Checks whether you need to change the current game library.

virtual bool switchToPreviousGame () const =0

Checks whether you need to change the current game library.

• virtual bool shouldBeRestarted () const =0

Checks whether you need to restart the current game.

virtual bool shouldGoToMenu () const =0

Checks whether you need to go back to the menu.

• virtual bool shouldExit () const =0

Checks whether you need to exit the program.

virtual bool isKeyPressed (IDisplayModule::Keys key) const =0

Checks whether the current key is being pressed.

virtual bool isKeyPressedOnce (IDisplayModule::Keys key) const =0

Checks whether the current key was pressed during the last frame.

virtual float getDelta () const =0

Gets the number of frames since last update.

virtual void clear () const =0

Clears the canvas.

virtual void update ()=0

Runs an update over the events that occured.

virtual void render () const =0

Renders the canvas.

virtual char getKeyCode () const =0

Gets the last pressed character from the keyboard.

virtual void setColor (IDisplayModule::Colors color)=0

Defines the color of the elements that will be drawn.

• virtual void putPixel (float x, float y) const =0

Displays a pixel.

• virtual void putLine (float x1, float y1, float x2, float y2) const =0

Displays a line.

virtual void putRect (float x, float y, float w, float h) const =0

Displays a rectangle.

• virtual void putFillRect (float x, float y, float w, float h) const =0

Displays a filled rectangle.

• virtual void putCircle (float x, float y, float rad) const =0

Displays a cirle.

• virtual void putFillCircle (float x, float y, float rad) const =0

Displays a filled cirle.

• virtual void putText (const std::string &text, unsigned int size, float x, float y) const =0

Displays text.

• virtual const std::string & getLibName () const =0

Gets the library name.

6.8.1 Detailed Description

Interface for the display modules used to display things.

6.8.2 Member Enumeration Documentation

6.8.2.1 Colors

enum Arcade::Display::IDisplayModule::Colors

Available colors.

Enumerator

The color the window clears to.
Black color.
Red color.
Green color.
Yellow color.
Blue color.
Magenta color.
Cyan color.
Light gray color.
Dark gray color.
Light red color.
Light green color.
Light yellow color.
Light blue color.
Light magenta color.
Light cyan color.
White color.
Color count.

6.8.2.2 Keys

enum Arcade::Display::IDisplayModule::Keys

Available keys.

Enumerator

Left key.
Right key.
Up key.
Down key.
Z key.
Q key.
S key.
D key.
A key.
E key.
W key.
X key.
Space key.
J key.
K key.
U key.
I key.
Return key.
Key count.

6.8.3 Member Function Documentation

6.8.3.1 getDelta()

virtual float Arcade::Display::IDisplayModule::getDelta () const [pure virtual]

Gets the number of frames since last update.

Returns

float Frame count

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.2 getKeyCode()

```
virtual char Arcade::Display::IDisplayModule::getKeyCode ( ) const [pure virtual]
```

Gets the last pressed character from the keyboard.

Returns

\0 if nothing was pressed, \b if backspace was pressed, \n if return was pressed, otherwise, a character.

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.3 getLibName()

```
virtual const std::string& Arcade::Display::IDisplayModule::getLibName ( ) const [pure virtual]
```

Gets the library name.

Returns

The library's name

Implemented in Arcade::Display::ADisplayModule.

6.8.3.4 isKeyPressed()

Checks whether the current key is being pressed.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.5 isKeyPressedOnce()

Checks whether the current key was pressed during the last frame.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.6 isOpen()

```
virtual bool Arcade::Display::IDisplayModule::isOpen ( ) const [pure virtual]
```

Check window status.

Returns

true Window is open false Window is closed

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.7 putCircle()

Displays a cirle.

Parameters

X	X coordinates
У	Y coordinates
rad	Radius of the circle

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.8 putFillCircle()

Displays a filled cirle.

Parameters

Х	X coordinates
У	Y coordinates
rad	Radius of the circle

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.9 putFillRect()

Displays a filled rectangle.

Parameters

Х	X coordinates
У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.10 putLine()

```
virtual void Arcade::Display::IDisplayModule::putLine ( float x1, float y1,
```

```
float x2, float y2) const [pure virtual]
```

Displays a line.

Parameters

x1	X coordinates for the first point
y1	Y coordinates for the first point
x2	X coordinates for the second point
y2	Y coordinates for the second point

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.11 putPixel()

Displays a pixel.

Parameters

Χ	X coordinates
У	Y coordinates

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.12 putRect()

Displays a rectangle.

Parameters

X	X coordinates
У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.13 putText()

Displays text.

Parameters

text	The text content
size	The text size
Χ	X coordinates
У	Y coordinates

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.14 setColor()

Defines the color of the elements that will be drawn.

Parameters

color	The color

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.15 shouldBeRestarted()

```
virtual bool Arcade::Display::IDisplayModule::shouldBeRestarted ( ) const [pure virtual]
```

Checks whether you need to restart the current game.

Returns

true Restart the game false Do nothing

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

```
6.8.3.16 shouldExit()
virtual bool Arcade::Display::IDisplayModule::shouldExit ( ) const [pure virtual]
Checks whether you need to exit the program.
Returns
     true Exit the program
     false Do nothing
Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.
6.8.3.17 shouldGoToMenu()
virtual bool Arcade::Display::IDisplayModule::shouldGoToMenu ( ) const [pure virtual]
Checks whether you need to go back to the menu.
Returns
     true Go back to menu
     false Do nothing
Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.
6.8.3.18 switchToNextGame()
virtual bool Arcade::Display::IDisplayModule::switchToNextGame ( ) const [pure virtual]
Checks whether you need to change the current game library.
Returns
     true Switch to next available library
     false Do nothing
```

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

Generated by Doxygen

6.8.3.19 switchToNextLib()

virtual bool Arcade::Display::IDisplayModule::switchToNextLib () const [pure virtual]

Checks whether you need to change the current display library.

Returns

true Switch to next available library false Do nothing

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.20 switchToPreviousGame()

virtual bool Arcade::Display::IDisplayModule::switchToPreviousGame () const [pure virtual]

Checks whether you need to change the current game library.

Returns

true Switch to previous available library false Do nothing

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.8.3.21 switchToPreviousLib()

virtual bool Arcade::Display::IDisplayModule::switchToPreviousLib () const [pure virtual]

Checks whether you need to change the current display library.

Returns

true Switch to previous available library false Do nothing

Implemented in Arcade::Display::SDL, Arcade::Display::Libcaca, and Arcade::Display::SFML.

6.9 Arcade::Games::IGameModule Class Reference

Interface for the game modules used to handle games.

#include <IGameModule.hpp>

Inheritance diagram for Arcade::Games::IGameModule:



Public Member Functions

• virtual void reset ()=0

Resets and restarts the game.

virtual bool loadFromFile (const std::string &filepath)=0

Loads highscores from a file.

• virtual bool loadFromFile ()=0

Loads highscores from the default save file.

virtual bool saveToFile (const std::string &filepath) const =0

Saves highscores to a file.

virtual bool saveToFile () const =0

Saves highscores from the default save file.

• virtual void setPlayerName (const std::string &name)=0

Sets the player name.

virtual std::pair< std::string, int > getScore () const =0

Gets the current score.

virtual std::vector< std::pair< std::string, int > > getBestScores () const =0

Gets the best 16 scores.

virtual void update (const Arcade::Display::IDisplayModule &lib)=0

Updates the game.

• virtual void render (Arcade::Display::IDisplayModule &lib) const =0

Renders the game on the display module.

virtual const std::string & getLibName () const =0

Gets the library name.

6.9.1 Detailed Description

Interface for the game modules used to handle games.

6.9.2 Member Function Documentation

6.9.2.1 getBestScores()

```
virtual std::vector<std::pair<std::string, int> > Arcade::Games::IGameModule::getBestScores (
) const [pure virtual]
```

Gets the best 16 scores.

Returns

```
std::vector<std::pair<std::string, int>> Vector of [name, score] value pairs
```

Implemented in Arcade::Games::AGameModule.

6.9.2.2 getLibName()

```
virtual const std::string& Arcade::Games::IGameModule::getLibName ( ) const [pure virtual]
```

Gets the library name.

Returns

The library's name

Implemented in Arcade::Games::AGameModule.

6.9.2.3 getScore()

```
virtual std::pair<std::string, int> Arcade::Games::IGameModule::getScore ( ) const [pure
virtual]
```

Gets the current score.

Returns

```
std::pair<std::string, int> [Name, score] value pairs
```

Implemented in Arcade::Games::AGameModule.

6.9.2.4 loadFromFile() [1/2]

Loads highscores from a file.

Parameters

filepath	The file path
----------	---------------

Returns

true Highscores were loaded false An error occured

Implemented in Arcade::Games::AGameModule.

```
6.9.2.5 loadFromFile() [2/2]
```

```
virtual bool Arcade::Games::IGameModule::loadFromFile ( ) [pure virtual]
```

Loads highscores from the default save file.

Returns

true Highscores were loaded false An error occured

Implemented in Arcade::Games::AGameModule.

6.9.2.6 render()

Renders the game on the display module.

Parameters

lib The display module that will be used to put things on a canvas.

Implemented in Arcade::Games::AGameModule, Arcade::Games::Nibbler, and Arcade::Games::Pacman.

```
6.9.2.7 saveToFile() [1/2]
```

Saves highscores to a file.

Parameters

```
filepath The file path
```

Returns

true Highscores were saved false An error occured

Implemented in Arcade::Games::AGameModule.

```
6.9.2.8 saveToFile() [2/2]
virtual bool Arcade::Games::IGameModule::saveToFile ( ) const [pure virtual]
```

Saves highscores from the default save file.

Returns

true Highscores were saved false An error occured

Implemented in Arcade::Games::AGameModule.

6.9.2.9 setPlayerName()

Sets the player name.

Parameters

name	The player name
------	-----------------

Implemented in Arcade::Games::AGameModule.

```
6.9.2.10 update()
```

Updates the game.

Parameters

lib The display module that will be used to get events that occured

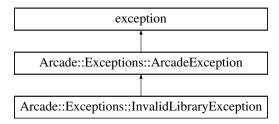
Implemented in Arcade::Games::Nibbler, Arcade::Games::Pacman, Arcade::Games::Centipede, Arcade::Games::Qix, and Arcade::Games::Solarfox.

6.10 Arcade::Exceptions::InvalidLibraryException Class Reference

Thrown when trying to use an invalid library file.

#include <InvalidLibraryException.hpp>

Inheritance diagram for Arcade::Exceptions::InvalidLibraryException:



Public Member Functions

InvalidLibraryException (std::string const &message, std::string const &component)
 Construct a new Invalid Library Exception object.

6.10.1 Detailed Description

Thrown when trying to use an invalid library file.

6.10.2 Constructor & Destructor Documentation

6.10.2.1 InvalidLibraryException()

Construct a new Invalid Library Exception object.

Parameters

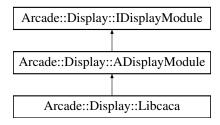
	message	Message explaining the problem.
ſ	component	Additional information on where the problem occured.

6.11 Arcade::Display::Libcaca Class Reference

Libcaca library.

```
#include <Libcaca.hpp>
```

Inheritance diagram for Arcade::Display::Libcaca:



Public Member Functions

· void reset () final

Resets the library.

· void open () final

Opens / initializes the window.

• bool isOpen () const final

Check window status.

· bool switchToNextLib () const final

Checks whether you need to change the current display library.

· bool switchToPreviousLib () const final

Checks whether you need to change the current display library.

• bool switchToNextGame () const final

Checks whether you need to change the current game library.

• bool switchToPreviousGame () const final

Checks whether you need to change the current game library.

• bool shouldBeRestarted () const final

Checks whether you need to restart the current game.

• bool shouldGoToMenu () const final

Checks whether you need to go back to the menu.

• bool shouldExit () const final

Checks whether you need to exit the program.

bool isKeyPressed (IDisplayModule::Keys key) const final

Checks whether the current key is being pressed.

• bool isKeyPressedOnce (IDisplayModule::Keys key) const final

Checks whether the current key was pressed during the last frame.

float getDelta () const final

Gets the number of frames since last update.

· void clear () const final

Clears the canvas.

void update () final

Runs an update over the events that occured.

· void render () const final

Renders the canvas.

· char getKeyCode () const final

Gets the last pressed character from the keyboard.

• void setColor (IDisplayModule::Colors color) final

Defines the color of the elements that will be drawn.

void putPixel (float x, float y) const final

Displays a pixel.

void putLine (float x1, float y1, float x2, float y2) const final

Displays a line.

- void putRect (float x, float y, float w, float h) const final Displays a rectangle.
- $\bullet \ \ void \ \underline{\text{putFillRect}} \ (\text{float x, float y, float w, float h}) \ const \ \text{final} \\$

Displays a filled rectangle.

- void putCircle (float x, float y, float rad) const final
 - Displays a cirle.
- void putFillCircle (float x, float y, float rad) const final

Displays a filled cirle.

 void putText (const std::string &text, unsigned int size, float x, float y) const final Displays text.

Additional Inherited Members

6.11.1 Detailed Description

Libcaca library.

6.11.2 Member Function Documentation

```
6.11.2.1 getDelta()
```

```
float Arcade::Display::Libcaca::getDelta ( ) const [final], [virtual]
```

Gets the number of frames since last update.

Returns

float Frame count

Implements Arcade::Display::IDisplayModule.

6.11.2.2 getKeyCode()

```
char Arcade::Display::Libcaca::getKeyCode ( ) const [final], [virtual]
```

Gets the last pressed character from the keyboard.

Returns

\0 if nothing was pressed, \b if backspace was pressed, \n if return was pressed, otherwise, a character.

Implements Arcade::Display::IDisplayModule.

6.11.2.3 isKeyPressed()

Checks whether the current key is being pressed.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

6.11.2.4 isKeyPressedOnce()

Checks whether the current key was pressed during the last frame.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

```
6.11.2.5 isOpen()
```

```
bool Arcade::Display::Libcaca::isOpen ( ) const [final], [virtual]
```

Check window status.

Returns

true Window is open false Window is closed

Implements Arcade::Display::IDisplayModule.

6.11.2.6 putCircle()

Displays a cirle.

Parameters

X	X coordinates
У	Y coordinates
rad	Radius of the circle

Implements Arcade::Display::IDisplayModule.

6.11.2.7 putFillCircle()

Displays a filled cirle.

Parameters

X	X coordinates
У	Y coordinates
rad	Radius of the circle

Implements Arcade::Display::IDisplayModule.

6.11.2.8 putFillRect()

Displays a filled rectangle.

Parameters

Х	X coordinates
У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

6.11.2.9 putLine()

Displays a line.

Parameters

x1	X coordinates for the first point
y1	Y coordinates for the first point
x2	X coordinates for the second point
y2	Y coordinates for the second point

Implements Arcade::Display::IDisplayModule.

6.11.2.10 putPixel()

Displays a pixel.

Parameters

Х	X coordinates
У	Y coordinates

Implements Arcade::Display::IDisplayModule.

6.11.2.11 putRect()

Displays a rectangle.

Parameters

Χ	X coordinates	
---	---------------	--

Parameters

У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

Implements Arcade::Display::IDisplayModule.

6.11.2.12 putText()

Displays text.

Parameters

text	The text content
size	The text size
Χ	X coordinates
У	Y coordinates

Implements Arcade::Display::IDisplayModule.

6.11.2.13 setColor()

Defines the color of the elements that will be drawn.

Parameters

```
color The color
```

Implements Arcade::Display::IDisplayModule.

6.11.2.14 shouldBeRestarted()

```
bool Arcade::Display::Libcaca::shouldBeRestarted ( ) const [final], [virtual]
```

Checks whether you need to restart the current game.

```
Returns
```

```
true Restart the game false Do nothing
```

Implements Arcade::Display::IDisplayModule.

```
6.11.2.15 shouldExit()
```

```
bool Arcade::Display::Libcaca::shouldExit ( ) const [final], [virtual]
```

Checks whether you need to exit the program.

Returns

true Exit the program false Do nothing

Implements Arcade::Display::IDisplayModule.

```
6.11.2.16 shouldGoToMenu()
```

```
bool Arcade::Display::Libcaca::shouldGoToMenu ( ) const [final], [virtual]
```

Checks whether you need to go back to the menu.

Returns

true Go back to menu false Do nothing

Implements Arcade::Display::IDisplayModule.

```
6.11.2.17 switchToNextGame()
```

```
bool Arcade::Display::Libcaca::switchToNextGame ( ) const [final], [virtual]
```

Checks whether you need to change the current game library.

Returns

true Switch to next available library false Do nothing

```
6.11.2.18 switchToNextLib()
```

```
bool Arcade::Display::Libcaca::switchToNextLib ( ) const [final], [virtual]
```

Checks whether you need to change the current display library.

Returns

true Switch to next available library false Do nothing

Implements Arcade::Display::IDisplayModule.

6.11.2.19 switchToPreviousGame()

```
bool Arcade::Display::Libcaca::switchToPreviousGame ( ) const [final], [virtual]
```

Checks whether you need to change the current game library.

Returns

true Switch to previous available library false Do nothing

Implements Arcade::Display::IDisplayModule.

6.11.2.20 switchToPreviousLib()

```
bool Arcade::Display::Libcaca::switchToPreviousLib ( ) const [final], [virtual]
```

Checks whether you need to change the current display library.

Returns

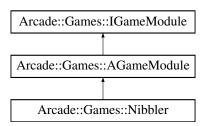
true Switch to previous available library false Do nothing

6.12 Arcade::Games::Nibbler Class Reference

Nibbler game.

```
#include <Nibbler.hpp>
```

Inheritance diagram for Arcade::Games::Nibbler:



Public Member Functions

- · void reset () final
 - Resets and restarts the game.
- void update (const Arcade::Display::IDisplayModule &displayModule) final Updates the game.
- void render (Arcade::Display::IDisplayModule &displayModule) const final Default game implementation (out of order)

Additional Inherited Members

6.12.1 Detailed Description

Nibbler game.

6.12.2 Member Function Documentation

```
6.12.2.1 render()
```

Default game implementation (out of order)

Parameters

lib The display module that will be used to put things on a canvas.

Reimplemented from Arcade::Games::AGameModule.

6.12.2.2 update()

Updates the game.

Parameters

lib The display module that will be used to get events that occured

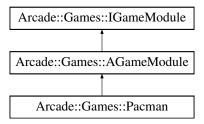
Implements Arcade::Games::IGameModule.

6.13 Arcade::Games::Pacman Class Reference

Pacman game.

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

Inheritance diagram for Arcade::Games::Pacman:



Public Member Functions

- · void reset () final
 - Resets and restarts the game.
- void update (const Arcade::Display::IDisplayModule &lib) final Updates the game.
- void render (Arcade::Display::IDisplayModule &lib) const final
 Default game implementation (out of order)

Additional Inherited Members

6.13.1 Detailed Description

Pacman game.

6.13.2 Member Function Documentation

6.13.2.1 render()

Default game implementation (out of order)

Parameters

lib The display module that will be used to put things on a canvas.

Reimplemented from Arcade::Games::AGameModule.

6.13.2.2 update()

Updates the game.

Parameters

lib The display module that will be used to get events that occured

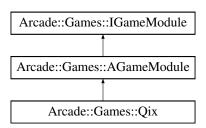
Implements Arcade::Games::IGameModule.

6.14 Arcade::Games::Qix Class Reference

Qix game.

```
#include <Qix.hpp>
```

Inheritance diagram for Arcade::Games::Qix:



Public Member Functions

· void reset () final

Resets and restarts the game.

• void update (const Arcade::Display::IDisplayModule &lib) final Updates the game.

Additional Inherited Members

6.14.1 Detailed Description

Qix game.

6.14.2 Member Function Documentation

```
6.14.2.1 update()
```

Updates the game.

Parameters

lib The display module that will be used to get events that occured

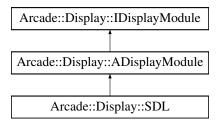
Implements Arcade::Games::IGameModule.

6.15 Arcade::Display::SDL Class Reference

SDL library.

```
#include <SDL.hpp>
```

Inheritance diagram for Arcade::Display::SDL:



Public Member Functions

· void reset () final

Resets the library.

· void open () final

Opens / initializes the window.

• bool isOpen () const final

Check window status.

· bool switchToNextLib () const final

Checks whether you need to change the current display library.

bool switchToPreviousLib () const final

Checks whether you need to change the current display library.

• bool switchToNextGame () const final

Checks whether you need to change the current game library.

bool switchToPreviousGame () const final

Checks whether you need to change the current game library.

bool shouldBeRestarted () const final

Checks whether you need to restart the current game.

bool shouldGoToMenu () const final

Checks whether you need to go back to the menu.

· bool shouldExit () const final

Checks whether you need to exit the program.

bool isKeyPressed (IDisplayModule::Keys key) const final

Checks whether the current key is being pressed.

• bool isKeyPressedOnce (IDisplayModule::Keys key) const final

Checks whether the current key was pressed during the last frame.

float getDelta () const final

Gets the number of frames since last update.

· void clear () const final

Clears the canvas.

· void update () final

Runs an update over the events that occured.

· void render () const final

Renders the canvas.

char getKeyCode () const final

Gets the last pressed character from the keyboard.

void setColor (IDisplayModule::Colors color) final

Defines the color of the elements that will be drawn.

void putPixel (float x, float y) const final

Displays a pixel.

• void putLine (float x1, float y1, float x2, float y2) const final

Displays a line.

void putRect (float x, float y, float w, float h) const final

Displays a rectangle.

• void putFillRect (float x, float y, float w, float h) const final

Displays a filled rectangle.

• void putCircle (float x, float y, float rad) const final

Displays a cirle.

void putFillCircle (float x, float y, float rad) const final

Displays a filled cirle.

void putText (const std::string &text, unsigned int size, float x, float y) const final

Displays text.

Additional Inherited Members

6.15.1 Detailed Description

SDL library.

6.15.2 Member Function Documentation

```
6.15.2.1 getDelta()
```

```
float Arcade::Display::SDL::getDelta ( ) const [final], [virtual]
```

Gets the number of frames since last update.

Returns

float Frame count

Implements Arcade::Display::IDisplayModule.

6.15.2.2 getKeyCode()

```
char Arcade::Display::SDL::getKeyCode ( ) const [final], [virtual]
```

Gets the last pressed character from the keyboard.

Returns

\0 if nothing was pressed, \b if backspace was pressed, \n if return was pressed, otherwise, a character.

Implements Arcade::Display::IDisplayModule.

6.15.2.3 isKeyPressed()

Checks whether the current key is being pressed.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

6.15.2.4 isKeyPressedOnce()

Checks whether the current key was pressed during the last frame.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

```
6.15.2.5 isOpen()
```

```
bool Arcade::Display::SDL::isOpen ( ) const [final], [virtual]
```

Check window status.

Returns

true Window is open false Window is closed

Implements Arcade::Display::IDisplayModule.

6.15.2.6 putCircle()

Displays a cirle.

Parameters

X	X coordinates
У	Y coordinates
rad	Radius of the circle

Implements Arcade::Display::IDisplayModule.

6.15.2.7 putFillCircle()

Displays a filled cirle.

Parameters

X	X coordinates
У	Y coordinates
rad	Radius of the circle

Implements Arcade::Display::IDisplayModule.

6.15.2.8 putFillRect()

Displays a filled rectangle.

Parameters

Х	X coordinates
У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

6.15.2.9 putLine()

Displays a line.

Parameters

x1	X coordinates for the first point
y1	Y coordinates for the first point
x2	X coordinates for the second point
y2	Y coordinates for the second point

Implements Arcade::Display::IDisplayModule.

6.15.2.10 putPixel()

Displays a pixel.

Parameters

Χ	X coordinates
У	Y coordinates

Implements Arcade::Display::IDisplayModule.

6.15.2.11 putRect()

Displays a rectangle.

Parameters

X	X coordinates	
---	---------------	--

Parameters

У	Y coordinates
W	Width of the rectangle
h	Height of the rectangle

Implements Arcade::Display::IDisplayModule.

6.15.2.12 putText()

Displays text.

Parameters

text	The text content
size	The text size
Χ	X coordinates
У	Y coordinates

Implements Arcade::Display::IDisplayModule.

6.15.2.13 setColor()

Defines the color of the elements that will be drawn.

Parameters

```
color The color
```

Implements Arcade::Display::IDisplayModule.

6.15.2.14 shouldBeRestarted()

```
bool Arcade::Display::SDL::shouldBeRestarted ( ) const [final], [virtual]
```

Checks whether you need to restart the current game.

```
Returns
```

```
true Restart the game false Do nothing
```

Implements Arcade::Display::IDisplayModule.

```
6.15.2.15 shouldExit()
```

```
bool Arcade::Display::SDL::shouldExit ( ) const [final], [virtual]
```

Checks whether you need to exit the program.

Returns

true Exit the program false Do nothing

Implements Arcade::Display::IDisplayModule.

```
6.15.2.16 shouldGoToMenu()
```

```
bool Arcade::Display::SDL::shouldGoToMenu ( ) const [final], [virtual]
```

Checks whether you need to go back to the menu.

Returns

true Go back to menu false Do nothing

Implements Arcade::Display::IDisplayModule.

```
6.15.2.17 switchToNextGame()
```

```
bool Arcade::Display::SDL::switchToNextGame ( ) const [final], [virtual]
```

Checks whether you need to change the current game library.

Returns

true Switch to next available library false Do nothing

```
6.15.2.18 switchToNextLib()
```

```
bool Arcade::Display::SDL::switchToNextLib ( ) const [final], [virtual]
```

Checks whether you need to change the current display library.

Returns

true Switch to next available library false Do nothing

Implements Arcade::Display::IDisplayModule.

6.15.2.19 switchToPreviousGame()

```
bool Arcade::Display::SDL::switchToPreviousGame ( ) const [final], [virtual]
```

Checks whether you need to change the current game library.

Returns

true Switch to previous available library false Do nothing

Implements Arcade::Display::IDisplayModule.

6.15.2.20 switchToPreviousLib()

```
bool Arcade::Display::SDL::switchToPreviousLib ( ) const [final], [virtual]
```

Checks whether you need to change the current display library.

Returns

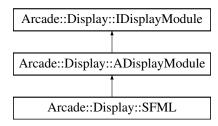
true Switch to previous available library false Do nothing

6.16 Arcade::Display::SFML Class Reference

SFML library.

#include <SFML.hpp>

Inheritance diagram for Arcade::Display::SFML:



Public Member Functions

· void reset () final

Resets the library.

· void open () final

Opens / initializes the window.

· bool isOpen () const final

Check window status.

· bool switchToNextLib () const final

Checks whether you need to change the current display library.

· bool switchToPreviousLib () const final

Checks whether you need to change the current display library.

• bool switchToNextGame () const final

Checks whether you need to change the current game library.

• bool switchToPreviousGame () const final

Checks whether you need to change the current game library.

· bool shouldBeRestarted () const final

Checks whether you need to restart the current game.

bool shouldGoToMenu () const final

Checks whether you need to go back to the menu.

· bool shouldExit () const final

Checks whether you need to exit the program.

bool isKeyPressed (IDisplayModule::Keys key) const final

Checks whether the current key is being pressed.

• bool isKeyPressedOnce (IDisplayModule::Keys key) const final

Checks whether the current key was pressed during the last frame.

float getDelta () const final

Gets the number of frames since last update.

· void clear () const final

Clears the canvas.

• void update () final

Runs an update over the events that occured.

· void render () const final

Renders the canvas.

· char getKeyCode () const final

Gets the last pressed character from the keyboard.

void setColor (IDisplayModule::Colors color) final

Defines the color of the elements that will be drawn.

void putPixel (float x, float y) const final

Displays a pixel.

void putLine (float x1, float y1, float x2, float y2) const final

Displays a line.

• void putRect (float x, float y, float w, float h) const final

Displays a rectangle.

• void putFillRect (float x, float y, float w, float h) const final

Displays a filled rectangle.

void putCircle (float x, float y, float rad) const final

Displays a cirle.

• void putFillCircle (float x, float y, float rad) const final

Displays a filled cirle.

 void putText (const std::string &text, unsigned int size, float x, float y) const final Displays text.

Additional Inherited Members

6.16.1 Detailed Description

SFML library.

6.16.2 Member Function Documentation

6.16.2.1 getDelta()

```
float Arcade::Display::SFML::getDelta ( ) const [final], [virtual]
```

Gets the number of frames since last update.

Returns

float Frame count

6.16.2.2 getKeyCode()

```
char Arcade::Display::SFML::getKeyCode ( ) const [final], [virtual]
```

Gets the last pressed character from the keyboard.

Returns

\0 if nothing was pressed, \b if backspace was pressed, \n if return was pressed, otherwise, a character.

Implements Arcade::Display::IDisplayModule.

6.16.2.3 isKeyPressed()

Checks whether the current key is being pressed.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

6.16.2.4 isKeyPressedOnce()

Checks whether the current key was pressed during the last frame.

Parameters

```
key The key
```

Returns

true Key is pressed false Key is not pressed

Implements Arcade::Display::IDisplayModule.

```
6.16.2.5 isOpen()
```

```
bool Arcade::Display::SFML::isOpen ( ) const [final], [virtual]
```

Check window status.

Returns

true Window is open false Window is closed

Implements Arcade::Display::IDisplayModule.

6.16.2.6 putCircle()

Displays a cirle.

Parameters

Χ	X coordinates	
y Y coordinates		
rad	Radius of the circle	

Implements Arcade::Display::IDisplayModule.

6.16.2.7 putFillCircle()

Displays a filled cirle.

Parameters

Ge/macchte	ed Bapandikussenf the circle
У	Y coordinates
X	X coordinates

Implements Arcade::Display::IDisplayModule.

6.16.2.8 putFillRect()

Displays a filled rectangle.

Parameters

Х	X coordinates	
У	Y coordinates	
W	Width of the rectangle	
h	Height of the rectangle	

Implements Arcade::Display::IDisplayModule.

6.16.2.9 putLine()

Displays a line.

Parameters

x1	X coordinates for the first point
y1	Y coordinates for the first point
x2	X coordinates for the second point
y2	Y coordinates for the second point

Implements Arcade::Display::IDisplayModule.

6.16.2.10 putPixel()

Displays a pixel.

Parameters

Х	X coordinates
У	Y coordinates

Implements Arcade::Display::IDisplayModule.

6.16.2.11 putRect()

Displays a rectangle.

Parameters

Х	X coordinates	
У	Y coordinates	
W	Width of the rectangle	
h	Height of the rectangle	

Implements Arcade::Display::IDisplayModule.

6.16.2.12 putText()

Displays text.

Parameters

text	The text content	
size	The text size	
X	X coordinates	
У	Y coordinates	

```
6.16.2.13 setColor()
```

Defines the color of the elements that will be drawn.

Parameters

```
color The color
```

Implements Arcade::Display::IDisplayModule.

6.16.2.14 shouldBeRestarted()

```
bool Arcade::Display::SFML::shouldBeRestarted ( ) const [final], [virtual]
```

Checks whether you need to restart the current game.

Returns

true Restart the game false Do nothing

Implements Arcade::Display::IDisplayModule.

6.16.2.15 shouldExit()

```
bool Arcade::Display::SFML::shouldExit ( ) const [final], [virtual]
```

Checks whether you need to exit the program.

Returns

true Exit the program false Do nothing

```
6.16.2.16 shouldGoToMenu()
bool Arcade::Display::SFML::shouldGoToMenu ( ) const [final], [virtual]
Checks whether you need to go back to the menu.
Returns
     true Go back to menu
     false Do nothing
Implements Arcade::Display::IDisplayModule.
6.16.2.17 switchToNextGame()
bool Arcade::Display::SFML::switchToNextGame ( ) const [final], [virtual]
Checks whether you need to change the current game library.
Returns
     true Switch to next available library
     false Do nothing
Implements Arcade::Display::IDisplayModule.
6.16.2.18 switchToNextLib()
bool Arcade::Display::SFML::switchToNextLib ( ) const [final], [virtual]
Checks whether you need to change the current display library.
Returns
     true Switch to next available library
     false Do nothing
```

Generated by Doxygen

6.16.2.19 switchToPreviousGame()

```
bool Arcade::Display::SFML::switchToPreviousGame ( ) const [final], [virtual]
```

Checks whether you need to change the current game library.

Returns

true Switch to previous available library false Do nothing

Implements Arcade::Display::IDisplayModule.

6.16.2.20 switchToPreviousLib()

```
bool Arcade::Display::SFML::switchToPreviousLib ( ) const [final], [virtual]
```

Checks whether you need to change the current display library.

Returns

true Switch to previous available library false Do nothing

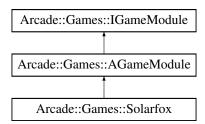
Implements Arcade::Display::IDisplayModule.

6.17 Arcade::Games::Solarfox Class Reference

Solarfox game.

```
#include <Solarfox.hpp>
```

Inheritance diagram for Arcade::Games::Solarfox:



Public Member Functions

· void reset () final

Resets and restarts the game.

 void update (const Arcade::Display::IDisplayModule &lib) final Updates the game. **Additional Inherited Members**

6.17.1 Detailed Description

Solarfox game.

6.17.2 Member Function Documentation

```
6.17.2.1 update()
```

Updates the game.

Parameters

lib The display module that will be used to get events that occured

Implements Arcade::Games::IGameModule.

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