SDL Overview 1.0

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1 SDL Overview	1
1.0.1 Installation	1
1.0.2 Documentation	1
1.0.3 Contributing	2
1.0.4 License	2
1.0.5 Acknowledgments	2
2 Class Index	3
2.1 Class List	3
3 File Index	5
3.1 File List	5
4 Class Documentation	7
4.1 SDLApplication Class Reference	7
5 File Documentation	9
5.1 src/main.hxx File Reference	9
5.1.1 Detailed Description	9
5.2 main.hxx	9
5.3 test/sdl_compilation.cxx File Reference	10
5.3.1 Detailed Description	10
5.3.2 Function Documentation	10
5.3.2.1 TEST() [1/2]	10
5.3.2.2 TEST() [2/2]	10
Index	11

### **SDL Overview**

### SDL 3.0.0 Overview

This repository provides an overview of how to connect and configure SDL 3.0.0.

#### 1.0.1 Installation

- 1. Clone the repository
- 2. Install the required dependencies:

```
cmake 3.25.0+cpp compiler with cpp 23 supportninja
```

### 3. Compile:

```
cmake --preset=Release .
cd build/release
cmake --build . --config Release
```

For more build configurations see CMakePresets.json

Also, you can use an automized build.sh in scripts folder

### 1.0.2 Documentation

All you need is to install doxygen and run these commands:

doxygen .doxygen cd scripts sh view\_docs.sh

It will open your default app for viewing html files

2 SDL Overview

### 1.0.3 Contributing

If you would like to contribute to this project, feel free to fork the repository and submit a pull request with your changes. Contributions are always welcome, whether it's an improvement to the existing program or a new program in a different language.

#### 1.0.4 License

This project is licensed under the AGPL-3.0 License — see the LICENSE file for details.

### 1.0.5 Acknowledgments

Thanks to the developers of CMake and CTest for providing the tools necessary to build and test this program. Also, thanks to the open-source community for providing resources and support for C++ development.

# **Class Index**

### 2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:	
SDLApplication	7

4 Class Index

# File Index

### 3.1 File List

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

Src/main.nxx	
The main file that contains the entry point for the application	9
test/sdl_compilation.cxx	
Contains compilation verifying tests for SDL library	10

6 File Index

## **Class Documentation**

### 4.1 SDLApplication Class Reference

### **Public Member Functions**

• SDLApplication ()

The constructor of the SDLApplication class that initializes SDL components.

• ∼SDLApplication ()

The destructor of the SDLApplication class that releases the SDL components.

• void Run ()

The main loop of the application that runs until it's stopped by the user.

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

- src/main.hxx
- src/main.cxx

8 Class Documentation

### **File Documentation**

### 5.1 src/main.hxx File Reference

The main file that contains the entry point for the application.

```
#include "SDL3/SDL.h"
#include <cstdint>
#include <iostream>
```

#### **Classes**

class SDLApplication

### 5.1.1 Detailed Description

The main file that contains the entry point for the application.

#### 5.2 main.hxx

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

```
00001 #pragma once
00002
00003 #include "SDL3/SDL.h"
00004 #include <cstdint>
00005 #include <iostream>
00006
00007 class SDLApplication { 00008 public:
00009
          SDLApplication();
00010
00011
          ~SDLApplication();
00012
          void Run();
00013
00014
00015 private:
00015 p11
00016
00017
          constexpr static uint16_t kWindowWidth_ = 640;
          constexpr static uint16_t kWindowHeight_ = 480;
00018
00019
          SDL_Window* window_;
00020
          SDL_Renderer* renderer_;
00021
00022
          bool is_running_ = true;
00023 };
```

10 File Documentation

### 5.3 test/sdl\_compilation.cxx File Reference

Contains compilation verifying tests for SDL library.

```
#include <gtest/gtest.h>
#include <SDL3/SDL.h>
#include <iostream>
```

#### **Functions**

```
• TEST (SDLTest, SDLVersion)
```

Tests the SDL version.

• TEST (SDLTest, SDLInitialization)

Tests the SDL initialization.

• int main (int argc, char \*\*argv)

### 5.3.1 Detailed Description

Contains compilation verifying tests for SDL library.

#### 5.3.2 Function Documentation

```
5.3.2.1 TEST() [1/2]
```

```
TEST (
SDLTest ,
SDLInitialization )
```

Tests the SDL initialization.

Checks that SDL initializes correctly by creating a window and renderer, and then destroying them.

### 5.3.2.2 TEST() [2/2]

```
TEST (
SDLTest ,
SDLVersion )
```

Tests the SDL version.

Checks that the compiled version of SDL matches the linked version.

## Index

```
sdl_compilation.cxx
TEST, 10
SDLApplication, 7
src/main.hxx, 9
TEST
sdl_compilation.cxx, 10
test/sdl_compilation.cxx, 10
```