## Lab 16 notes:

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Q1: Official site: <a href="https://www.libsdl.org/">https://www.libsdl.org/</a>

Q2: SDL = Simple Directmedia Layer

Q3: Released under the zlib license https://www.zlib.net/zlib license.html

Q4: Supports windows, mac, linux, ios and android

Q5: Written in C <a href="https://www.libsdl.org/index.php">https://www.libsdl.org/index.php</a>

Q6: Where to look for API by Name <a href="http://wiki.libsdl.org/CategoryAPI">http://wiki.libsdl.org/CategoryAPI</a>

Q7: I couldn't find where they explain the different options, but here's my assumptions:

- Source Code: The source code of the for people who wanna work on the library itself
- Runtime Binaries: Code for running games that use this library
- Dev Libraries: Code for game devs to use for making their games

Q8: I'm a student learning how to make a game using this library, so the 3rd option above

Q9: Difference between a library and a framework:

- A library: a *library* of code that the user can choose and use wherever, whenever they need to solve their problem
- A framework: provides code as a frame/a guide for the user on how to solve their problem
- The programmer has more freedom when using a library than a framework.

https://www.freecodecamp.org/news/the-difference-between-a-framework-and-a-library-bd133054023f/

#### O10:

- Configuration & Platform need to be changed to "All Platforms"
- Active solution platform needs to be x64
- The current language configuration needs to include the library
- The linker's additional library needs to include x64
- The linker's input needs to have SDL2.lib and SDL2main.lib dependencies

Q11: Links used for learning:

How to set up SDL2 and do basic coding to get a window appearing https://www.youtube.com/watch?v=QQzAHcojEKg&ab channel=Let%27sMakeGames

How to handle text input and keyboard input

https://www.youtube.com/watch?v=m2doh3Li65c&ab channel=CodingMadeEasy

https://www.youtube.com/watch?v=letfLyHh3-g&ab channel=CodingMadeEasy

### Key codes

http://wiki.libsdl.org/SDL Keycode

How to quit using SDL

https://stackoverflow.com/questions/15272089/sdl-event-loop-quitting

### Hello World code demo

Fig 1. Main code that change colors on pressing "R" and quit on pressing "Q"

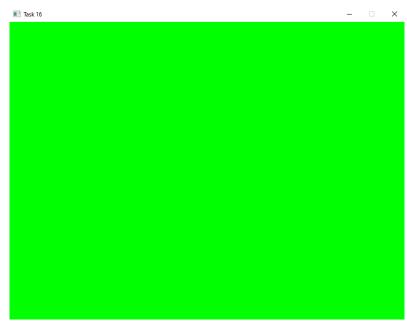


Fig 2. Initial window's appearance



Fig 3. What happens after pressing "R"

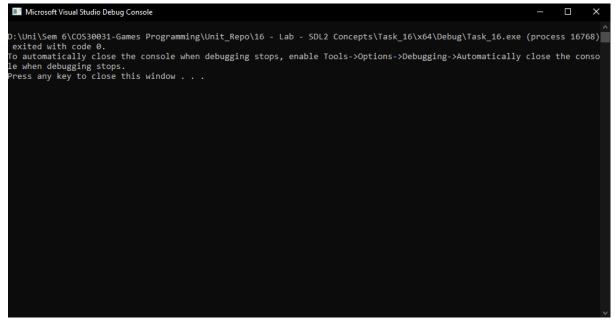


Fig 4. What the console log looks like