## How to compile SDL\_bgi programs with Code-Blocks

These instructions show how to compile an SDL\_bgi program using CodeBlocks; we will use fern.c, provided in the test/ directory.

Let's assume that CodeBlocks is installed in C:\CodeBlocks, and that the SDL2 development libraries for MinGW are installed in C:\SDL2-2.0.16. If you installed the software in different directories, change the following instructions accordingly.

The procedure was tested with CodeBlocks 20.02 and SDL2-devel-2.0.16-mingw.tar.gz.

## Links:

http://codeblocks.org/

https://libsdl.org/download-2.0.php

## Installing SDL\_bgi

- copy bin/CodeBlocks/SDL\_bgi.dll to C:\CodeBlocks\MinGW\bin
- copy SDL\_bgi.h to C:\SDL2-2.0.16\x86\_64-w64-mingw32\include\SDL2
- copy graphics.h toC:\SDL2-2.0.16\x86\_64-w64-mingw32\include

## How to compile

- start CodeBlocks and click on Create a new project
- click on SDL2 project, then proceed
- in the wizard, provide a project name (fern), pick a folder to store the project, then click on Next>
- in the next window (SDL2 location), pick C:\SDL2-2.0.16\x86\_64-w64-mingw32, then click on Next>
- in the next window, uncheck Create "Debug" configuration, check Create "Release" configuration, then click on Finish
- in the panel Projects/Workspace/fern/Sources, delete main.cpp (Remove file from project)
- in the panel Projects/Workspace/fern: right click, click on Add files..., pick fern.c, then click on Ok

- from the menu Project/Build options... select the Search directories tab, click on Add, pick the directory
   C:\SDL2-2.0.16\x86\_64-w64-mingw32\include, then select No when asked to Keep this as a relative path?. Click on Ok
- from the menu Project/Build options... select the Linker settings tab, click on Add, pick the files

  C:\CodeBlocks\MinGW\bin\SDL\_bgi.dll and

  C:\SDL2-2.0.16\x86\_64-w64-mingw32\bin\SDL2.dll, then select No when asked to Keep this as a relative path?. Click on Ok
- from the menu Build, select Build. The executable fern.exe will be compiled.
- if you don't need to set environment variables, close the Global variable editor window
- run fern.exe.

Note 1: if you release your compiled program, you must also provide SDL2.dll and SDL\_bgi.dll in the same directory.

Note 2: if your code uses functions provided by stdio.h (e.g. printf(), scanf(), etc.) you must also run a terminal. From the menu "Project/Set program's arguments..., check the box Run host in terminal.