README.md

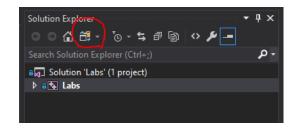
[∞] COMP371-Project

Git Repository for the project

Windows

Building with VisualStudio 2017

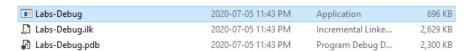
- 0. When installing VS2017, make sure that you include the installation of the Windows SDK version 10.0.16299.0
- 1. Start VisualStudio 2017, open the .sln file in vs2017 folder.
- 2. In the 'Solution Explorer' click the 'Solutions and Folders' button so that you can see all the folders/files.



- 3. Click the Main.cpp inside the Source folder.
- 4. You should see the Local Windows Debugger button at the top, clicking this should build the project and launch the executable. If you don't see this option or it doesn't work, continue with the steps below:
- 5. Click the dropdown next to the green arrow at the top, make sure it has 'Current Document (Main.cpp)' selected.



6. If you already built the project before, delete the executable COMP371-Project/Bin/Labs-Debug



7. Click the green arrow to build and launch the code.

NOTE: The automatic running of the executable may not work (error message contains: "Unable to start program...").



If the above steps do not result in a new window popping up to render the graphics, then navigate to and run the newly generated executable COMP371-Project/Bin/Labs-Debug by double clicking it.

Linux

To compile from the CLI

- cd COMP371-Project/Source
- 2. make

Controls

Keyboard inputs

- w --> walk forward
- a --> walk left
- s --> walk backward
- d --> walk right
- u --> scale up model
- j --> scale down model
- home --> set world orientation to home position
- Left Mouse Click + Move Mouse up/down --> Zoom out/in
- Right Mouse Click + Move Mouse left/right --> Pan
- Middle Mouse Click + Move Mouse up/down --> Tilt
- 1 --> switch to player camera
- 2 --> switch to world camera
- 1 --> switch to lines rendering mode
- p --> switch to points rendering mode
- t --> switch to triangles rendering mode
- b --> toggle light and shadow rendering
- x --> toggle texture rendering
- Esc --> terminate program

To run MangoHud

MANGOHUD_DLSYM=1 mangohud ./exec

Credits

- · Light code, shadows, skybox
- Noise library FastNoise (MIT)
- bark texture
- box texture
- wood texture
- · rock texture
- · leaves texture
- log texture

localhost:6419 2/3

- dark log texture
- door texture
- window texture
- snow texture
- grass texture
- penguin black fur texture
- penguin white fur texture
- penguin orange beak texture
- penguin pearl white sclera texture
- penguin pitch black pupil texture

localhost:6419