

Appendix A Notes demo-test

```
devel@mypi3-20:~/nuklear/demo/x11_opengl2 $ bin/demo [X11] Failed to create OpenGL 3.0 context [X11] ... using old-style GLX context!

Major chg in demo when the Makefile is modified.

-CFLAGS += -std=c99 -pedantic -O2 -DINCLUDE_ALL
```

In main.c

#ifdef INCLUDE ALL

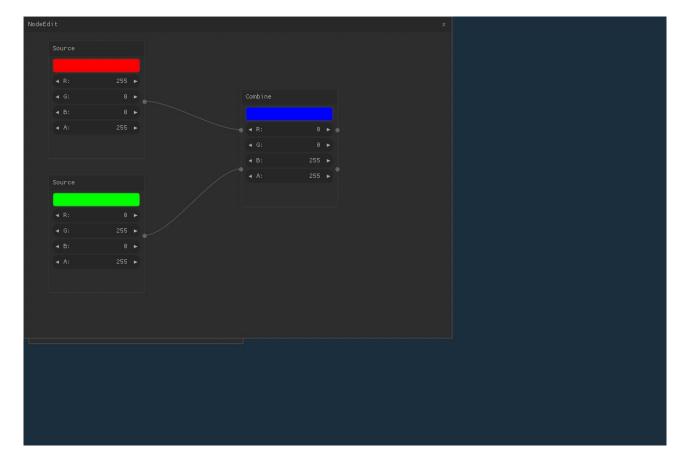
```
/* This are some code examples to provide a small overview of what can be * done with this library. To try out an example uncomment the defines */
```

```
#define INCLUDE_STYLE
 #define INCLUDE_CALCULATOR
 #define INCLUDE OVERVIEW
 #define INCLUDE_NODE_EDITOR
#endif
#ifdef INCLUDE STYLE
 #include "../style.c"
#endif
#ifdef INCLUDE CALCULATOR
 #include "../calculator.c"
#endif
#ifdef INCLUDE_OVERVIEW
 #include "../overview.c"
#endif
#ifdef INCLUDE_NODE_EDITOR
 #include "../node_editor.c"
```

Running the program "bin/demo"

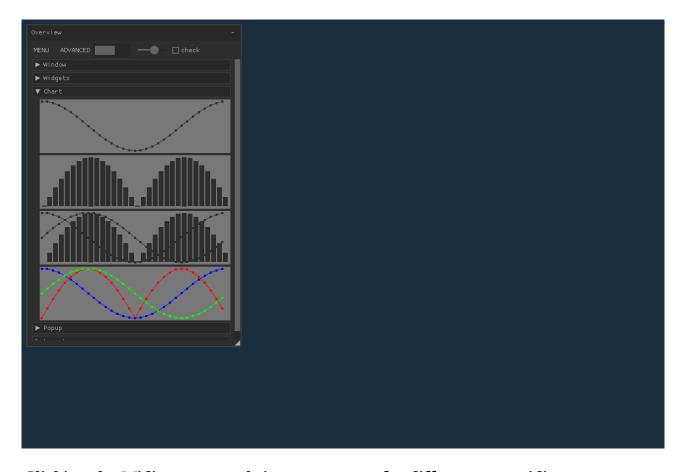
demo1

#endif



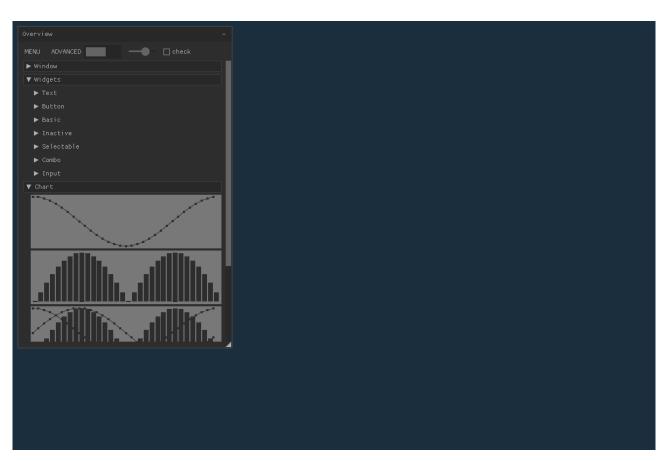
Closing the first window in Demo. Depress the x on NodeEdit window. This brings up a new window. Clicking the Chart arrow brings up several graphs.

demo2



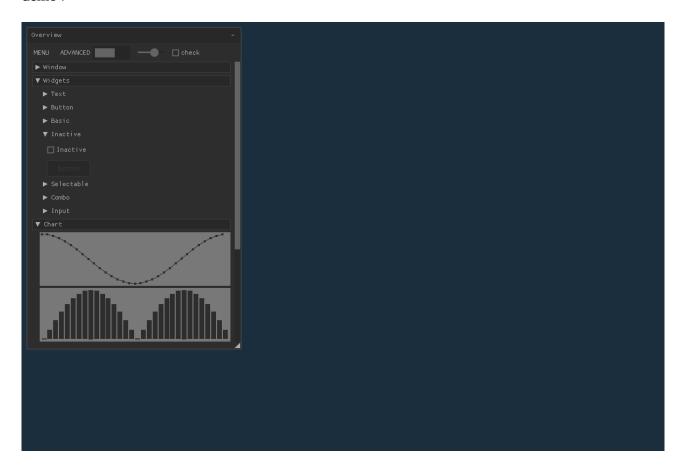
Clicking the Widigets arrow brings up arrows for different type widigets.

demo3



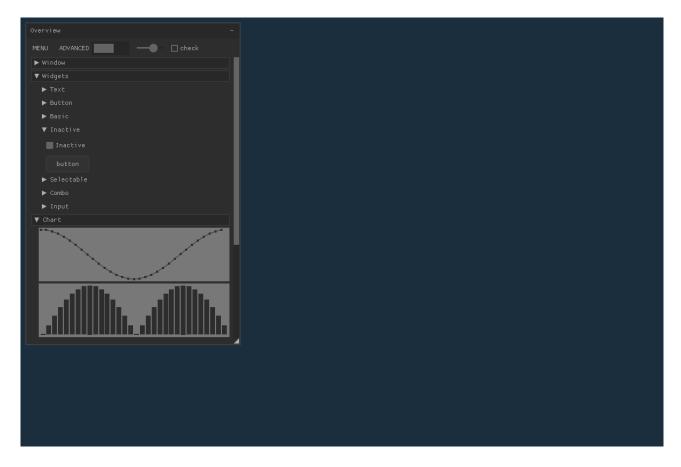
Clicking the Inactive arrow brings up a check box and a button widigets.

demo4



Setting check box and the button is active widigets. Pressing the button displays button pressed in the start shell.

demo5



Appendix A Notes demo-tests

Testing nuklear 08/10/20 RPi4 4gB demo x11 creates bin/zahnrad works okay

demo x11_opengl2 creates bin/demo works okay

demo x11_opengl3

bin/demo

[X11] Failed to create OpenGL 3.0 context

[X11] ... using old-style GLX context!

[GL]: Graphics card does not fullfill minimum OpenGL 2.0 support

demo: ../../nuklear.h:13949: nk_input_begin: Assertion `ctx' failed.

Aborted

glfw_opengl2

Makefile modification

LIBS = -lglfw -lGL -lm -lGLU

+ LIBS = -lglfw3 -lGL -lm -lGLU

make

rm -f bin/demo

cc main.c -std=c99 -pedantic -O2 -o bin/demo -lglfw3 -lGL -lm -lGLU

/usr/bin/ld: //usr/local/lib/libglfw3.a(vulkan.c.o): undefined reference to symbol

'dlopen@@GLIBC 2.4'

/usr/bin/ld: //lib/arm-linux-gnueabihf/libdl.so.2: error adding symbols: DSO missing from command

line

collect2: error: ld returned 1 exit status make: *** [Makefile:25: demo] Error 1

devel@mypi3-20:~/nuklear/example \$ make

 $cc - std = c99 - pedantic - O2 - o bin/file_browser file_browser.c - L/usr/local/lib - lglfw3 - lGL - lm - lglfw3 - lGL - lm - lglfw3 -$

IGLU-IGLEW

file_browser.c:15:10: fatal error: GL/glew.h: No such file or directory

#include <GL/glew.h>

 \wedge

compilation terminated.

make: *** [Makefile:32: file_browser] Error 1

sudo apt install libglew-dev

devel@mypi3-20:~/nuklear/example \$ make

cc -std=c99 -pedantic -O2 -o bin/file_browser file_browser.c -L/usr/local/lib -lglfw3 -lGL -lm -

IGLU-IGLEW

/usr/bin/ld: /usr/local/lib/libglfw3.a(vulkan.c.o): undefined reference to symbol

'dlopen@@GLIBC_2.4'

/usr/bin/ld: //lib/arm-linux-gnueabihf/libdl.so.2: error adding symbols: DSO missing from command line

collect2: error: ld returned 1 exit status

make: *** [Makefile:32: file_browser] Error 1

LIBS := \$(GLFW3) -lGL -lm -lGLU -lGLEW

+ LIBS := \$(GLFW3) -lX11 -lGL -lm -lGLU -lGLEW -ldl -lpthread

devel@mypi3-20:~/nuklear/example \$ make

cc -std=c99 -pedantic -O2 -o bin/file_browser file_browser.c -L/usr/local/lib -lglfw3 -lX11 -lGL -lm -lGLU -lGLEW -ldl -lpthread

cc -std=c99 -pedantic -O2 -o bin/extended extended.c -L/usr/local/lib -lglfw3 -lX11 -lGL -lm -

IGLU -IGLEW -Idl -lpthread

cc -std=c99 -pedantic -O2 -o bin/canvas canvas.c -L/usr/local/lib -lglfw3 -lX11 -lGL -lm -lGLU -lGLEW -ldl -lpthread

cc -std=c99 -pedantic -O2 -o bin/skinning skinning.c -L/usr/local/lib -lglfw3 Yes, it's graphics card limitation, mesa supports minimum 3.1 for all included drivers: https://mesamatrix.net/

Proprietary drivers should support max hardware capabilities too

ls bin/

canvas extended file_browser skinning

devel@mypi3-20:~/nuklear/example \$ bin/canvas

Error 65543: GLX: Failed to create context: GLXBadFBConfig

canvas: /home/devel/glfw/src/window.c:958: glfwSetWindowUserPointer: Assertion `window != NULL' failed.

Aborted

devel@mypi3-20:~/nuklear/example \$ bin/extended

Error 65543: GLX: Failed to create context: GLXBadFBConfig

extended: /home/devel/glfw/src/window.c:958: glfwSetWindowUserPointer: Assertion `window != NULL' failed.

Aborted

devel@mypi3-20:~/nuklear/example \$ bin/file browser

Error 65543: GLX: Failed to create context: GLXBadFBConfigg

file_browser: /home/devel/glfw/src/window.c:958: glfwSetWindowUserPointer: Assertion `window != NULL' failed.

Aborted

devel@mypi3-20:~/nuklear/example \$ bin/skinning

Error 65543: GLX: Failed to create context: GLXBadFBConfig

skinning: /home/devel/glfw/src/window.c:958: glfwSetWindowUserPointer: Assertion `window != NULL' failed.

Aborted

https://github.com/vurtun/nuklear/issues/364

```
glxinfo | grep 'version'
server glx version string: 1.4
client glx version string: 1.4
GLX version: 1.4
Max core profile version: 0.0
```

Max compat profile version: 2.1 Max GLES1 profile version: 1.1 Max GLES[23] profile version: 3.1 OpenGL version string: 2.1 Mesa 19.3.2

OpenGL shading language version string: 1.20

OpenGL ES profile version string: OpenGL ES 3.1 Mesa 19.3.2

OpenGL ES profile shading language version string: OpenGL ES GLSL ES 3.10 GL EXT separate shader objects, GL EXT shader implicit conversions,

comments

Hmmm... how odd, glxinfo shows 2.1 for me too. Is that a graphics card limitation? My system is up to date, so I don't think it's a software issue

Yes, it's graphics card limitation, mesa supports minimum 3.1 for all included drivers:

https://mesamatrix.net/

Proprietary drivers should support max hardware capabilities too

```
glfw_opengl2
```

Makefile modification

```
- LIBS = -lglfw -lGL -lm -lGLU
+ LIBS = -lglfw3 -lGL -lm -lGLU
```

make

rm -f bin/demo

cc main.c -std=c99 -pedantic -O2 -o bin/demo -lglfw3 -lGL -lm -lGLU

/usr/bin/ld: //usr/local/lib/libglfw3.a(vulkan.c.o): undefined reference to symbol

'dlopen@@GLIBC 2.4'

/usr/bin/ld: //lib/arm-linux-gnueabihf/libdl.so.2: error adding symbols: DSO missing from command line

```
collect2: error: ld returned 1 exit status make: *** [Makefile:25: demo] Error 1 2nd chg
```

LIBS = -lglfw3 -lGL -lm -lGLU
 LIBS = -lglfw3 -lGL -lm -lGLU -lX11 -lGL -lm -lGLU -lGLEW -ldl -lpthread

devel@mypi3-20:~/nuklear/demo/glfw_opengl3 \$ make rm -f bin/demo

```
cc main.c -std=c99 -pedantic -O2 -o bin/demo -L/usr/local/lib -lglfw3 -lGL -lm -lGLU -lGLEW
/usr/bin/ld: /usr/local/lib/libglfw3.a(vulkan.c.o): undefined reference to symbol
'dlopen@@GLIBC_2.4'
/usr/bin/ld: //lib/arm-linux-gnueabihf/libdl.so.2: error adding symbols: DSO missing from command
line
collect2: error: ld returned 1 exit status
make: *** [Makefile:26: demo] Error 1
devel@mypi3-20:~/nuklear/demo/glfw_opengl3 $ git diff Makefile
diff --git a/demo/glfw opengl3/Makefile b/demo/glfw opengl3/Makefile
index da95261..159383d 100644
--- a/demo/glfw_opengl3/Makefile
+++ b/demo/glfw opengl3/Makefile
@@ -16,7 +16,7 @@ else
    ifeq ($(UNAME S),Darwin)
         LIBS := $(GLFW3) -framework OpenGL -framework Cocoa -framework IOKit -
framework CoreVideo -lm -lGLEW -L/usr/local/lib
    else
         LIBS = $(GLFW3) -lGL -lm -lGLU -lGLEW
         LIBS = $(GLFW3) -lGL -lm -lGLU -lGLEW -lX11 -lGL -lm -lGLU -lGLEW -ldl -
+
lpthread
    endif
endif
devel@mypi3-20:~/nuklear/demo/glfw opengl3 $ make
rm -f bin/demo
cc main.c -std=c99 -pedantic -O2 -o bin/demo -L/usr/local/lib -lglfw3 -lGL -lm -lGLU -lGLEW -
IX11 -IGL -lm -IGLU -IGLEW -ldl -lpthread
devel@mypi3-20:~/nuklear/demo/glfw_opengl3 $ bin/demo
Error 65543: GLX: Failed to create context: GLXBadFBConfig
demo: /home/devel/glfw/src/window.c:547: glfwGetWindowSize: Assertion `window != NULL'
failed.
Aborted
sudo apt-get install libsdl2-dev
devel@mypi3-20:~/nuklear/demo/sdl opengl2 $ make
creates bin/demo works okay
devel@mypi3-20:~/nuklear/demo/x11 opengl2 $ bin/demo
[X11] Failed to create OpenGL 3.0 context
[X11] ... using old-style GLX context!
Major chg in demo when the Makefile is modified.
-CFLAGS += -std=c99 -pedantic -O2
+CFLAGS += -std=c99 -pedantic -O2 -DINCLUDE_ALL
Adding the -DINCLUDE_ALL to Makefile in glfw_opengl2
-CFLAGS += -std=c99 -pedantic -O2
+CFLAGS += -std=c99 -pedantic -O2 -DINCLUDE_ALL
Adding the -DINCLUDE_ALL to Makefile in x11
-CFLAGS += -std=c89 -pedantic -O2
```

+CFLAGS += -std=c99 -pedantic -O2 -DINCLUDE_ALL