Geeonx I.trdru

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9Da5np .utw6oa06la*LWfiN88j)l

35n1n.72aMNlMMlN8MX

III. Install Geeonx on your system:

1. Before all

We want to use the directories /usr/local/lib, /usr/local/include, /usr/local/bin and usr/share/applications. These directories are normally owned by root. Hence, it is necessary to change the ownership to you.

Open terminal, type sudo -i and enter passphrase.

chown <yourname> /usr/local/lib

chmod u+rwx /usr/local/lib

chown <yourname> /usr/local/include

chmod u+rwx /usr/local/include

chown <yourname> /usr/local/bin

chmod u+rwx /usr/local/bin

chown <yourname> /usr/share/applications.

chmod u+rwx /usr/local/share/applications

2. In general

First check if the shared libraries

- SDL (V1.2.15) → http://libsdl.org/download-1.2.php ,

- SDL_ttf (V 2.0.11) → https://www.libsdl.org/projects/SDL_ttf/release-1.2.html ,

- SDL_image (V 1.2.12) → https://www.libsdl.org/projects/SDL_image/release-1.2.html and

- Freetype -> http://www.freetype.org/download.html

are installed. If not, you must first install them on your computer. That the shared library glibc is preinstalled, is taken for granted.

You can download the SDL sources and compile and install them with

./configure

make

make install.

If you want to compile for 64 bit x86 systems it is needed to replace x11_sym.h in SDL-1.2.15/src/video/x11/ by the one delivered with the Geeonx package.

Install the Geeonx library itself by copying it to your library directory - for example usr/local/lib/. Copy geeonx_public.h to usr/local/include and the GeeonxCreator.dektop to usr/share/applications. Run **ldconfig** to tell your system that one or more new libraries are installed.

Keep in mind that the *.gee, *.gee, font and gfx files must be in the same directory as the Geeonx applications.

2. Ubuntu

In regard to **Ubuntu** it is needed that a lot of missing stuff (incl. Freetype library) will be installed. You can do it manually:

Type

sudo apt-get install build-essential xorg-dev libudev-dev libts-dev libgl1-mesa-dev libglu1-mesa-dev libasound2-dev libpulse-dev libopenal-dev libogg-dev libvorbis-dev libaudiofile-dev libpng12-dev libfreetype6-dev libusb-dev libdbus-1-dev zlib1g-dev libdirectfb-dev libx11-dev libxext-dev .

Use copy and paste.

Don't forget ldconfig.

Or you can use the **geeonx install script** for **Ubuntu**.

(a) Decompress geeonx32.tar.gz respectively geeonx64.tar.gz in the folder usr/local/bin.

(b) You should receive /usr/local/bin/geeonx.

(c) Get necessary rights regarding the folder /usr/local/bin by chmod u+rwx usr/local/bin -R.

(d) Move with cd into /usr/local/bin/geeonx.

(e) Type ./install_geeonx.sh.

(f) Follow the instructions.

(g) After the script has finished its work, you can run geeonx_demo by ./geeonx_demo or geeonx_creator by ./geeonx_creator or by clicking on the Geeonx logo in your launch menu.

IV. Litte introduction into the Geeonx interface:

Geeonx offers pulldown-menus and buttons as you already know from other interfaces. The Geeonx windows differ a little from other interfaces. All buttons to operate the window are placed above the top of the window. Furtermore the selected window is marked with a little colored box (selected_box) and a colored outline around the window.

These are the window operators:

The **Close-Operator** will close the window.

The **Move-Operator** enables you to move the window. With a click on this operator you enable window-movement. With next click on the screen you will chose the new screen position of the window.

↓ ↑ ← →

The **Arrows** enables you to change the size of the window or to move the content of the window, depending on size or scroll modus is activated.

$

With the **Switch-operator** you can switch between size and scroll_modus. Once you have clicked on this operator, the color of the window selected_box and the outline changes.

V. Thanx:

Special thanx to

Sam Latinga for creating the SDL and SDL_ttf library,

Sam Lantinga and Mattias Engdegård for SDL_image,

David Turner, Robert Wilhelm, and Werner Lemberg for FreeType.

Rasmus J. N. Keller 03.05.2017