Installing SaVi in Windows

To install and run SaVi in Windows one needs the following components

- **Enable** the WSL and relevant features
- Install the **Ubuntu** app from the **Microsoft Store**
- Install an X window server
- Run a set of commands to install SaVi + geomview
- Run SaVi through the Ubuntu app

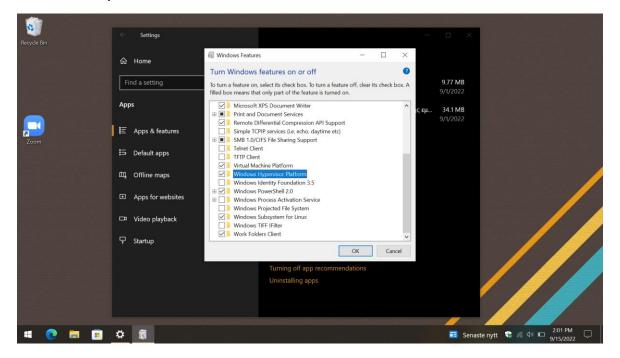
Step 1: Enable WSL and relevant features

Search for **Windows Features** in the start menu and the following window will appear. Check the following and restart

Virtual Machine Platform

Windows Hypervisor Platform

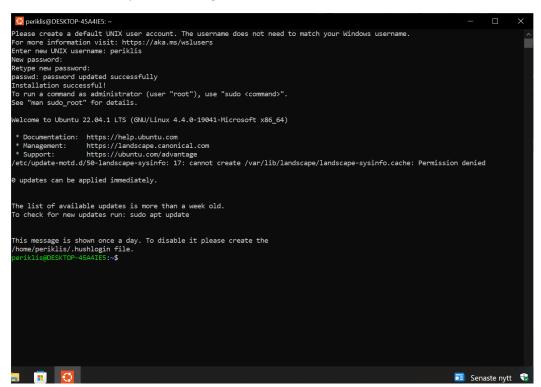
Windows Subsystem for Linux



Step 2: Install the Ubuntu app from the Microsoft Store



When this is done open and configure



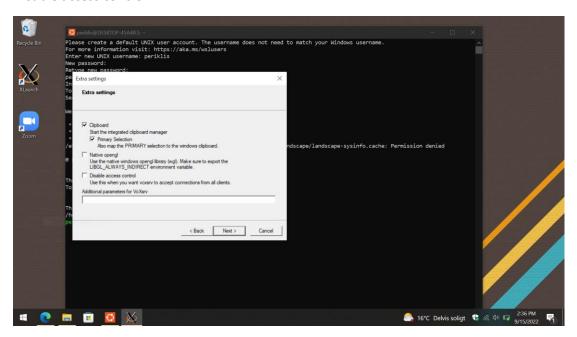
Step 3: Install an X window server

Download, install and configure VcXsrv Windows X Server download | SourceForge.net

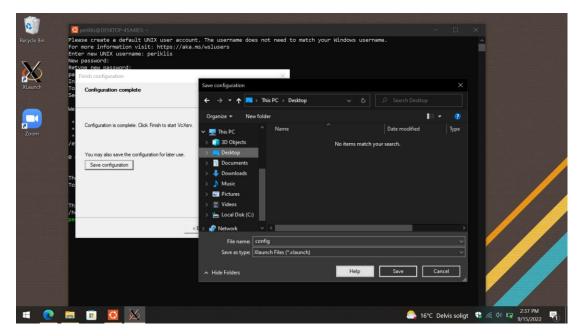
After installing, run Xlaunch for the first time and uncheck (if not already unchecked)

Native opengl

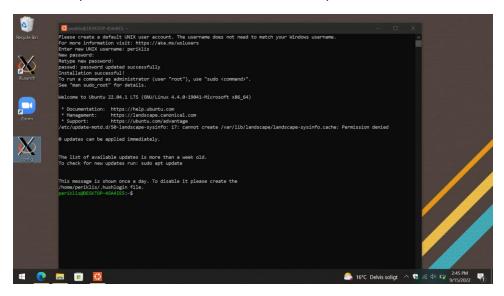
Disable access control



Then click Save configuration in a new file at the desktop



Whenever you want to launch the X window server, you should double-click on that file



Step 4: Run a set of commands to install SaVi + geomview

In the ubuntu app environment run

- sudo apt-get update
- sudo apt-get install savi
- sudo apt-get install geomview

```
This message is shown once a day. To disable it please create the //home/periklis/.hushlogin file.pushlogin fil
```

```
et:30 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [2264 8]

Get:31 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3068 8]

Get:32 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3068 8]

Get:33 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [420 8]

Get:34 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 8]

Get:35 http://archive.ubuntu.com/ubuntu jammy-backports/rasin amd64 c-n-f Metadata [272 8]

Get:36 http://archive.ubuntu.com/ubuntu jammy-backports/rasin amd64 c-n-f Metadata [362 8]

Get:37 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6752 8]

Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [352 8]

Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [352 8]

Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [352 8]

Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [352 8]

Reading package lists... Done

Reading package lists... Done

Reading state information... Done

       i (5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          🦲 16°C Delvis soligt \land 😓
                           periklis@DESKTOP-45A4IE5:
                        containers need to be restarted
              User sessions running outdated binaries:
periklis @ /dev/tty1: bash[49]
root @ /dev/pts/0: sh[572]
root @ /dev/tty1: init[48]
              No VM guests are running outdated hypervisor (qemu) binaries on this host.

Perikli@DESKTOP-45A4TE5:-% sudo apt-get install geomview
Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

advaita-icon-theme aspell aspell-en at-spi2-core bubblewrap dconf-gsettings-backend dconf-service dictionaries-common

emacsen-common enchant-2 evince evince-common fontconfig fonts-droid-fallback fonts-noto-mono fonts-urw-base35

gnome-desktop3-data gsettings-desktop-schemas gstreamer1.0-plugins-base gtk-update-icon-cache hicolor-icon-theme

humanity-icon-theme hunspell-en-us libaspell15 libatk-bridge2.0-0 libatk1.0-0 libatk1.0-data libatspi2.0-0 libatk-libaty12.0-dibatrie1 libdconf1

libavahi-common-data libavahi-common3 libicairo-gobject2 libcairo-2 libcdpar-anoia0 libcolord2 libcups2 libcups2 libatrie1 libdconf1

libderlate0 libdjvulibre-text libdjvulibre21 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libenchant-2-2

libepoxy0 libevdocument3-4 libevview3-3 libgds/-pixbuf2.0-0-0 libigkt,-pixbuf2.0-0-0 libgkty0f2.0-common libgscomiev1-1.9-5

libgl1 libgl1-amber-dri libgl1-mesa-dri libglapi-mesa libglu1-mesa libglvnd0 libglx-mesa0 libglx0 libgnome-desktop-3-19

libgraphite2-3 libgs9 libgs9-common libgspell-1-2 libgspell-1-common libgstreamen-plugins-base1.0-0 libgkt-3-0 libglx-3-bin libgts-1-0-common libgspx2 libhangy-1-0 libharhefuzz0b libhunspell-1-7-0 libicse0 libidin2 libijs-0.85 libjf00 libjgi2de00

libghc3-common libgspx2 libhangy-1-0 libharhefuzz0b libhunspell-1-7-0 libicse0 libidin2 libijs-0.85 libjf00 libgi2de00

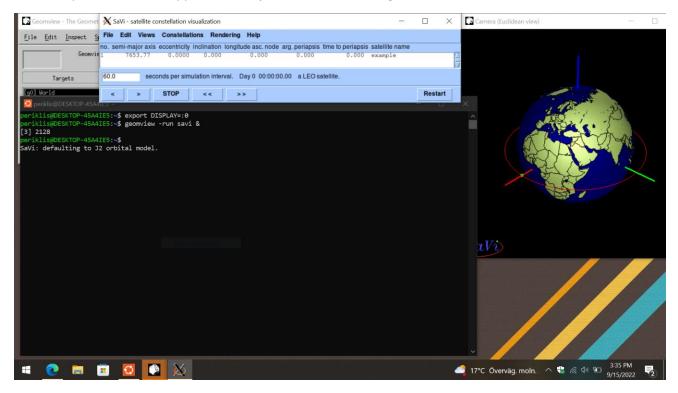
libpenjp2-1 libopus9 liborc-0-4-0 libpange-1-0-0 libpangocairo-1-0-0 libnatils-extension1a libogs0 libopengl0

libpenjp2-1 libopus9 liborc-0-4-0 libpange-1-0-0 libnapagocairo-1-0-0 libnapago-1-1-0-0-1 libnapago-1-1-0-0-1 libnapago-1-1-0-0-1 libnapago-1-1-0-0-1 libnapago-1-1-0-0-1 libnapago-1-1-0-0-1-0-0-1 libnapago-1-1-0-0-1-0-0-1 libnay-1-0-0-0-1 libnapago-1-1-0-0-1-0-0-1 libnapago-1-1-0-1-0-0-0
                   o VM guests are running outdated hypervisor (qemu) binaries on this host.
eriklis@DESKTOP-45A4IE5:~$ sudo apt-get install geomview
                      libxt6 libxts60 libxxf60vml mesa-vulkan-drivers poppler-uata session mag determined to libx table libxxf60vml mesa-vulkan-drivers poppler-uata session mag determined to libxxf60vml mesa-vulkan-drivers poppler-uata session mag determined to libxxf60vml per poppler-uata session mag determined to libxxf60vml per poppler-uata session libxxf60vml penoffice.org-hunspell openoffice.org-core colord cups-common libenchant-2-voikko libxisual-0.4-plugins liblxxf60vml penoffice.org-hunspell indicated to libxxf60vml penoffice.org-hunspell-0.4-plugins liblxxf60vml penoff-gothic fonts-applic-ukai fonts-arphic-uming fonts-nanum he following NEW packages will be installed:
adwaita-icon-theme aspell aspell-en at-spi2-core bubblewrap dconf-gsettings-backend dconf-service dictionaries-common emacsen-common enchant-2 evince evince-common fontconfig fonts-droid-fallback fonts-noto-mono fonts-urw-base35 geomyiew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ♠ 16°C Delvis soligt ^ \$
```

Step 5: Run SaVi through the Ubuntu app

Whenever you want to run SaVi you should

- Launch the X window server as described above
- Open the Ubuntu app and run export DISPLAY=:0 and geomview --run savi &



Troubleshooting:

If the texture of the globe is not recognized and you get the "1: gzip: Exec format error" along with other warnings when you launch savi, and want to correct it you should go through the following procedure.

- Open the Windows Command prompt as Administrator



- Run the wsl --update and wsl --shutdown commands and close the window

```
Microsoft Windows [Version 10.0.19944.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>wsl --update
Checking for updates...
The Windows Subsystem for Linux kernel can be manually updated with 'wsl --update', but automatic updates cannot occur d
ue to your system settings.
To receive automatic kernel updates, please enable the Windows Update setting: 'Receive updates for other Microsoft prod
ucts when you update Windows'.
For more information please visit https://aka.ms/wsl2kernel.

C:\Windows\system32>wsl --shutdown

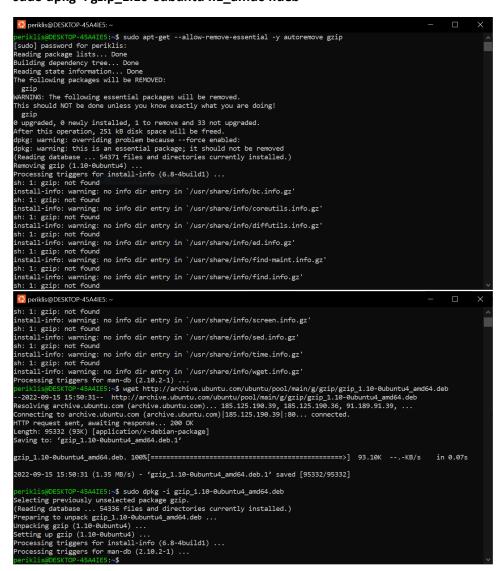
C:\Windows\system32>wsl --shutdown
```

Open the **Ubuntu app** and run the following commands

sudo apt-get --allow-remove-essential -y autoremove gzip

wget http://archive.ubuntu.com/ubuntu/pool/main/g/gzip/gzip_1.10-0ubuntu4_amd64.deb

sudo dpkg -i gzip_1.10-0ubuntu4.1_amd64.deb



Try relaunching SaVi and the errors should be corrected.