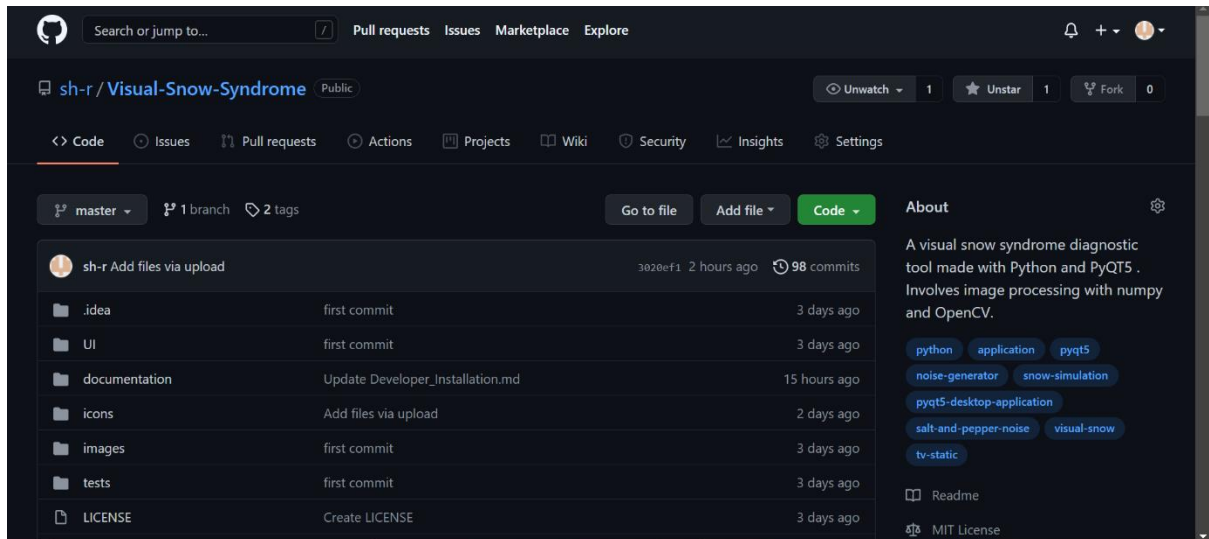
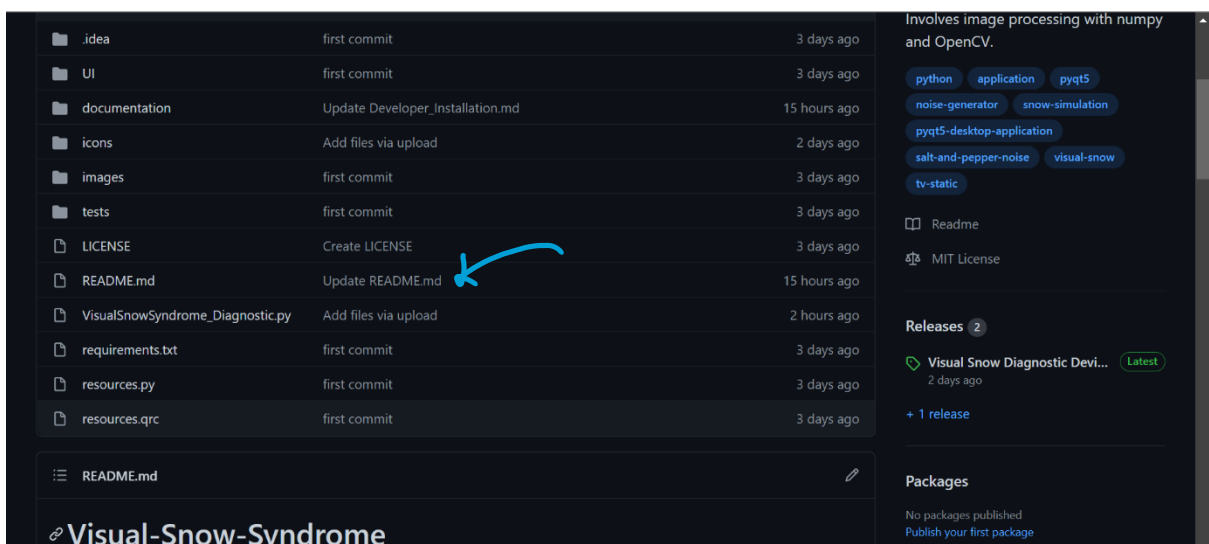


## User manual with pictures of the application

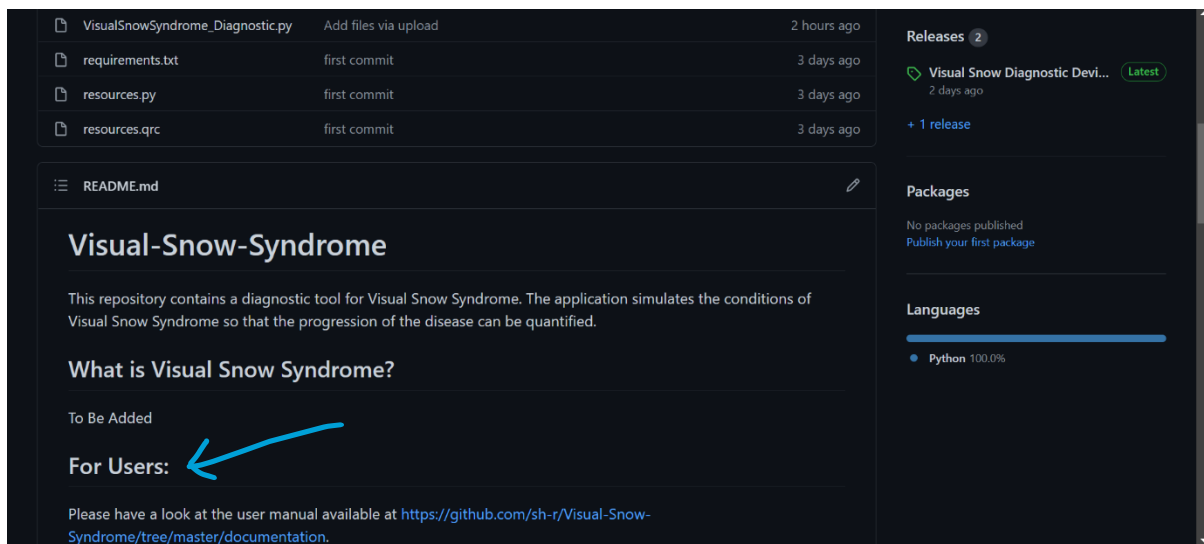
This is the GitHub repository. This is the page that pops up when you open it.



You can either click the README.md file or Scroll Down in the repository to read the README.md file.



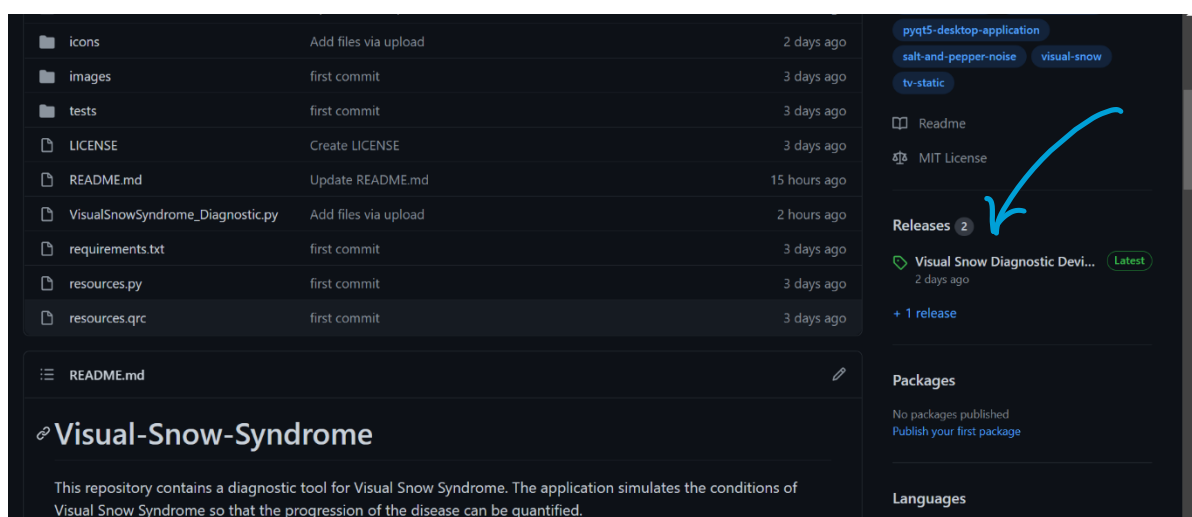
OR



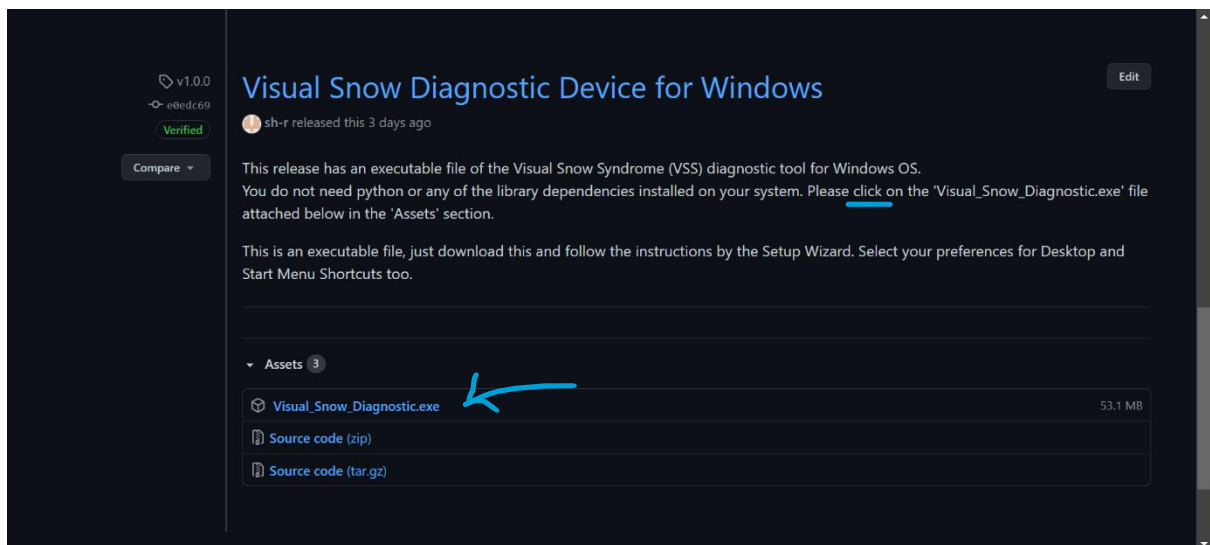
The documentation for each Operating System is given in the README.md file. You can scroll down to find the user manual for the Operating System you are using.

## For Windows

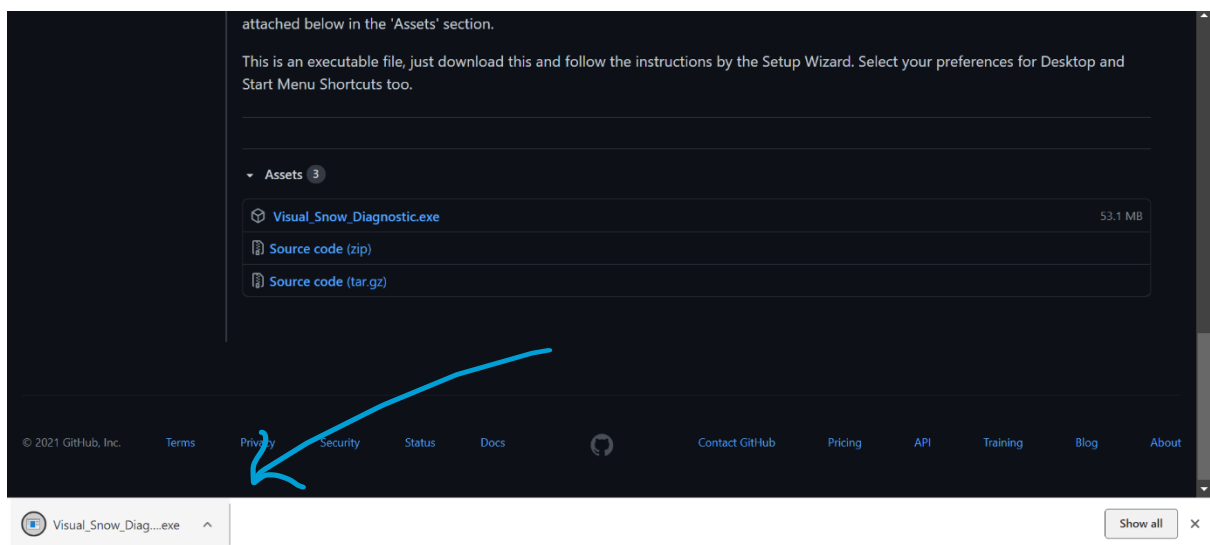
For those who are using the application on Windows, you do not need to install python or any other dependencies. The application is packaged as an executable file. You can download this from the release section of the [GitHub repository](#).



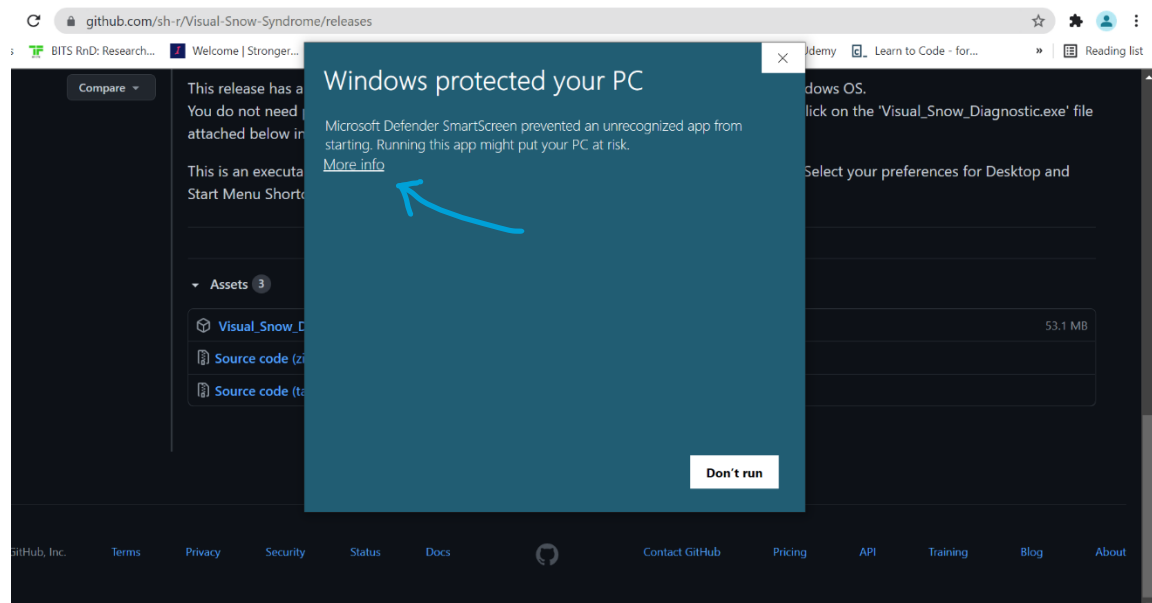
When you click on the Release section, please scroll down to find the Windows Release. The title will be as shown below.



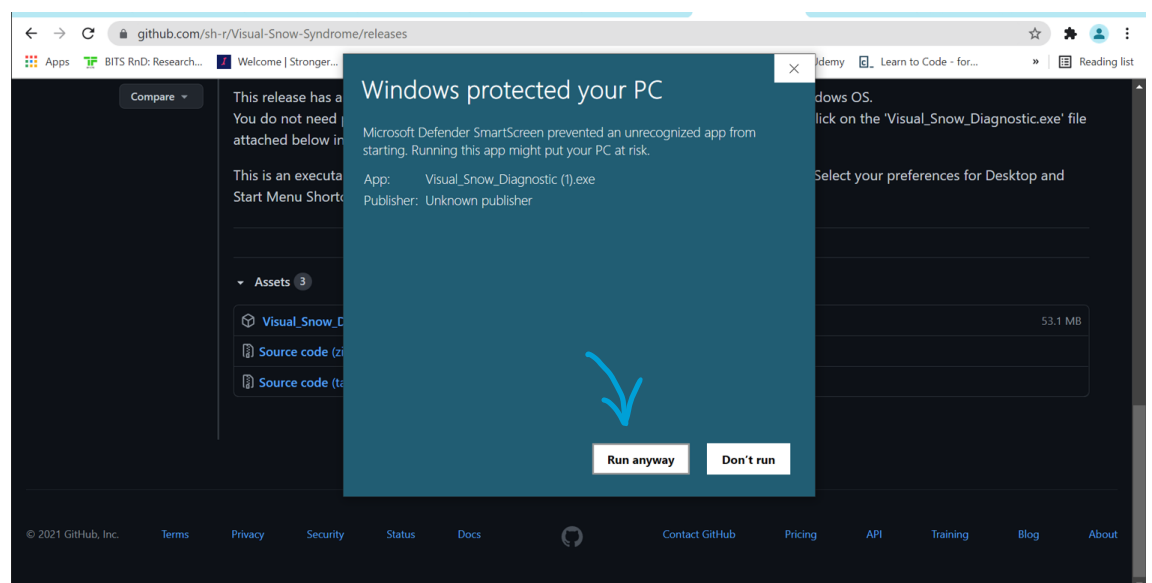
Once you click download, an executable file will be downloaded as seen below. Please click on it to run the application.



You may have to disable Microsoft Windows Defender to run the application. This would pop up when you click on the downloaded .exe file. Please click on 'More Info'.



Click 'Run Anyway' for the Installation Wizard to pop up.

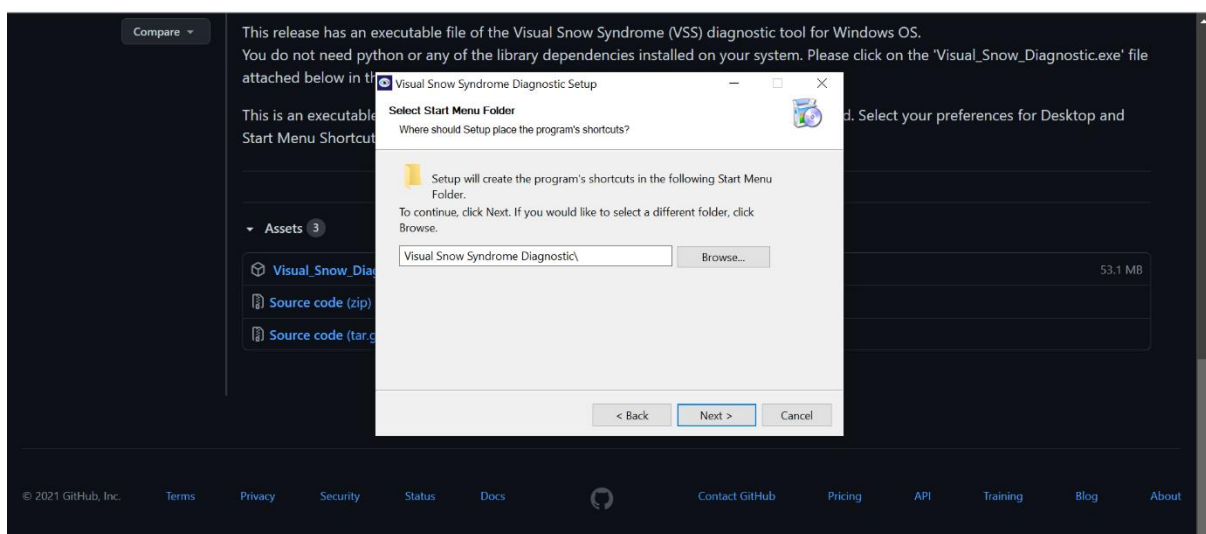
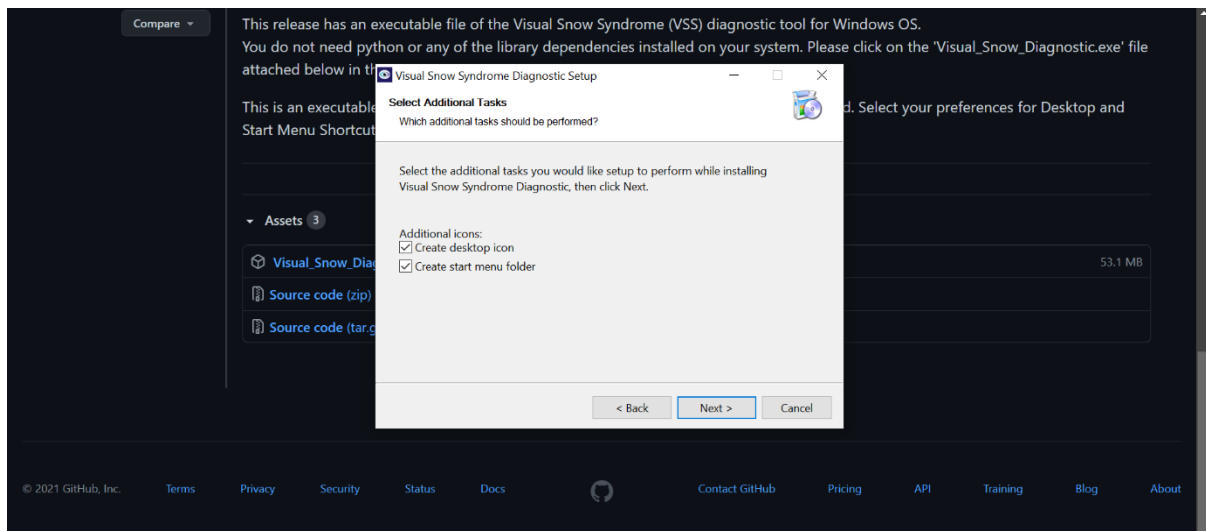


The setup wizard will then pop up. Follow the instructions on the setup Wizard to continue installing the application. Click on 'Next' as seen below.



If you wish to, create a Start Menu and Desktop Shortcut. **This is highly recommended for easy access of the application.**

Otherwise, if these are not checked, you would have to enter the application folder every single time to run the application which would become very time consuming and laborious.

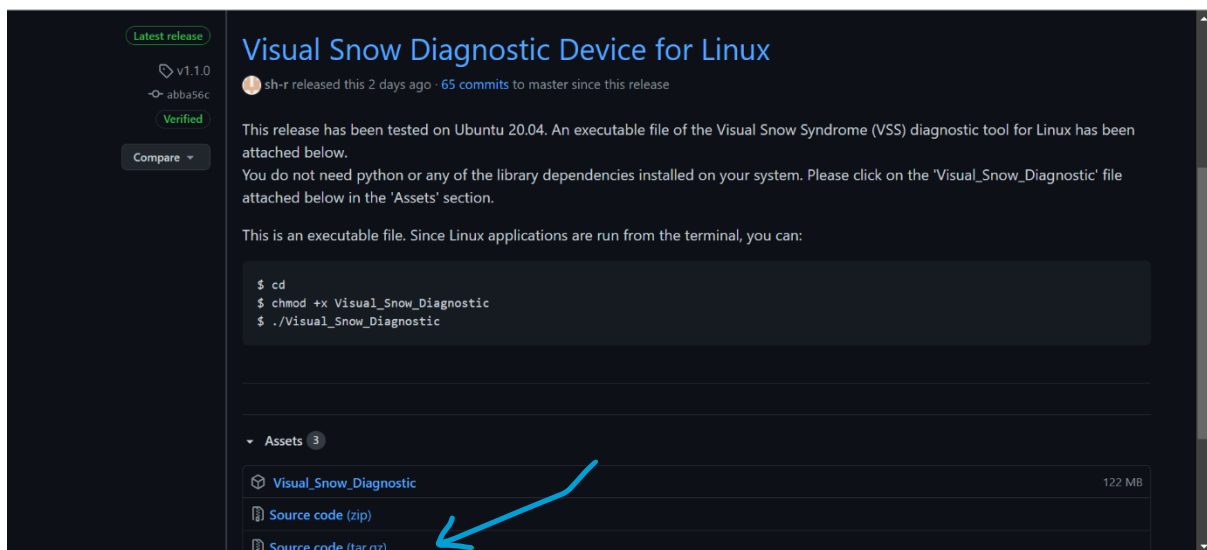


Once you click 'Next', the application will be installed and it will Launch on startup.

## For Linux

For those who are using the application on Linux, you do not need to install python or any other dependencies. The application is packaged as an executable file. You can download this from the release section of the [GitHub repository](#).

Please click on 'Visual\_Snow\_Diagnostic' as shown in the below image.



Once you download, you need to open up the Ubuntu terminal and run the following commands to run the application.

For Linux you need to use terminal commands to run the application. The commands are:

```
$ cd <name of directory you have downloaded the file>
```

```
$ chmod +x Visual_Snow_Diagnostic
```

```
$ ./Visual_Snow_Diagnostic
```

You may have to make the file executable if it is not working from the terminal. Refer to the steps below.

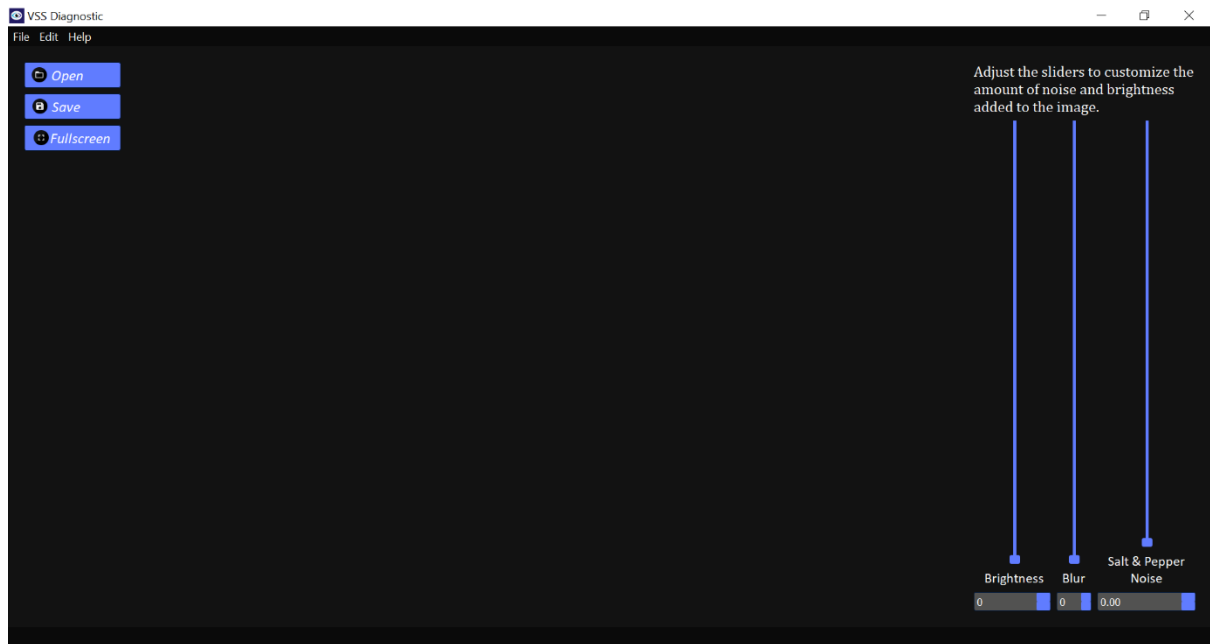
1. Right click the file
2. Click Properties
3. Change permissions to executable

## **MAC OS**

This will be soon be done for MAC OS too.



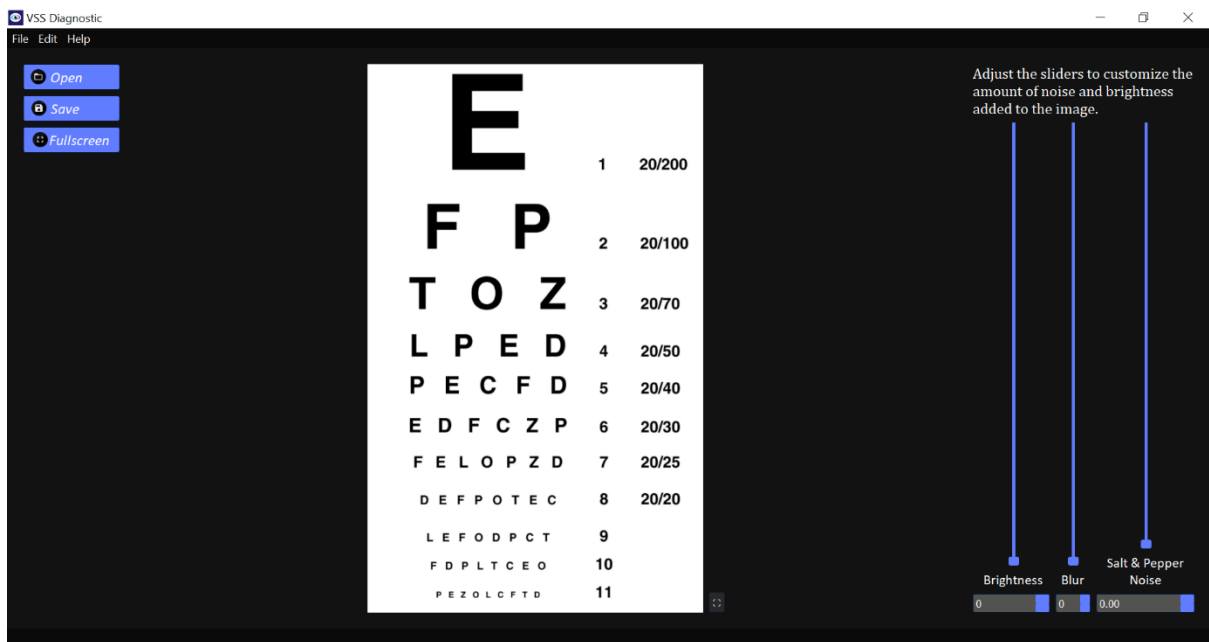
This is the main application window on start-up.



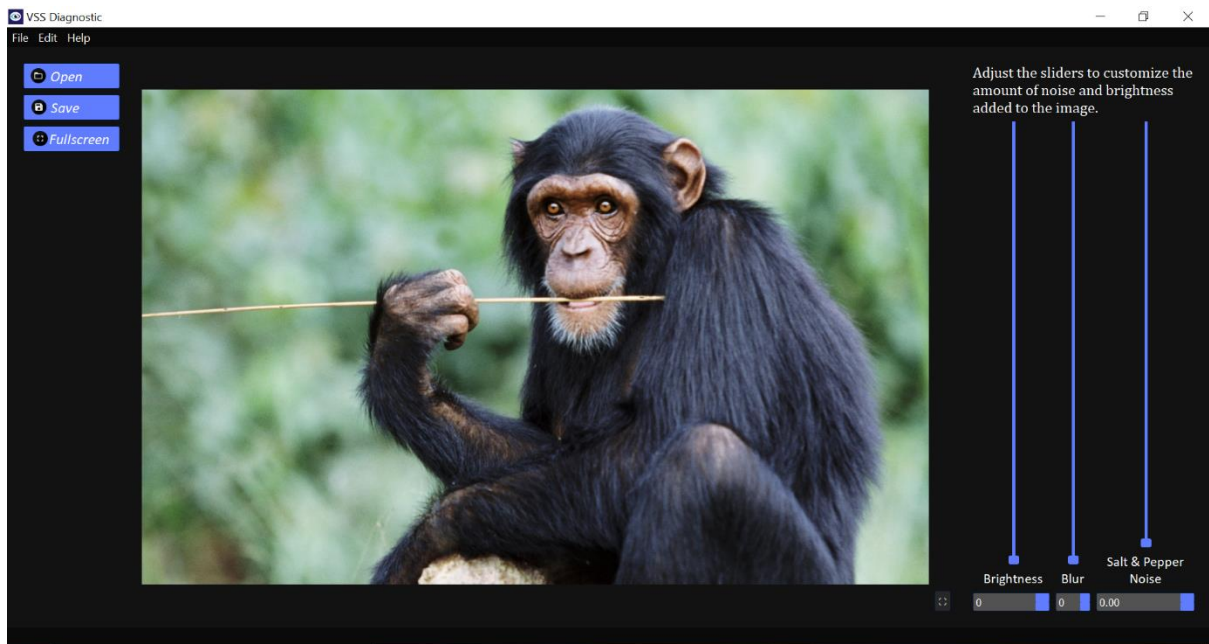
When you click open, you can select any image from any directory you choose. The image formats supported are jpg and png.

The image would load as seen. Any image you choose will get resized according to the window size.

Sample vertical image:

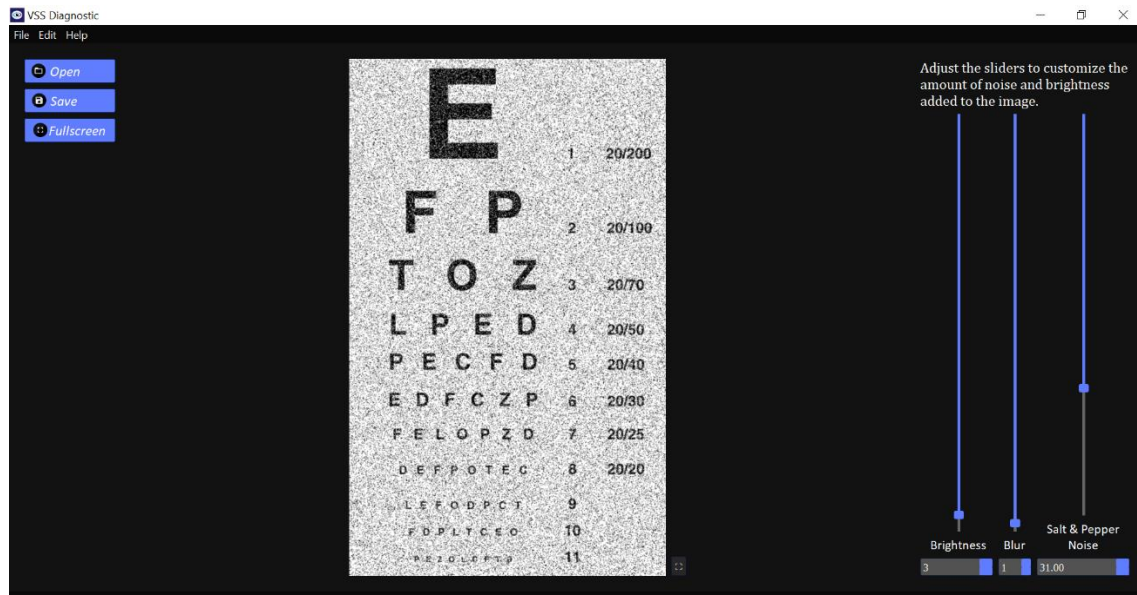


Sample Horizontal image:

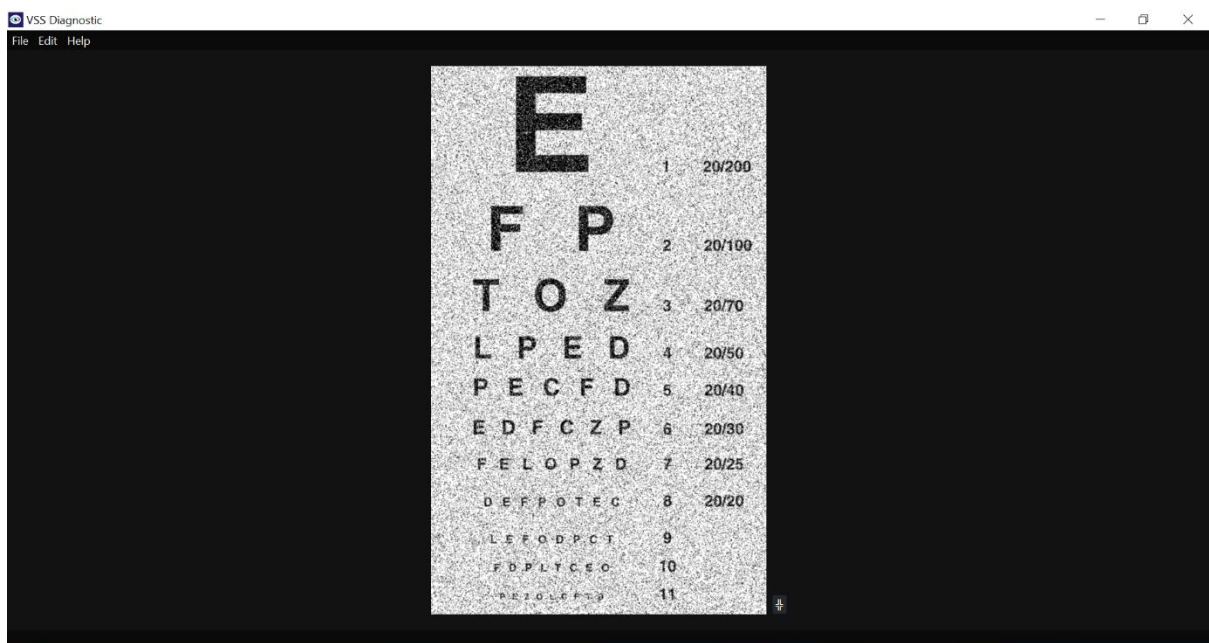


The slider at the side can be adjusted to add any amount of noise.

The brightness, blur, and noise values can be changed simultaneously to get any configuration required.



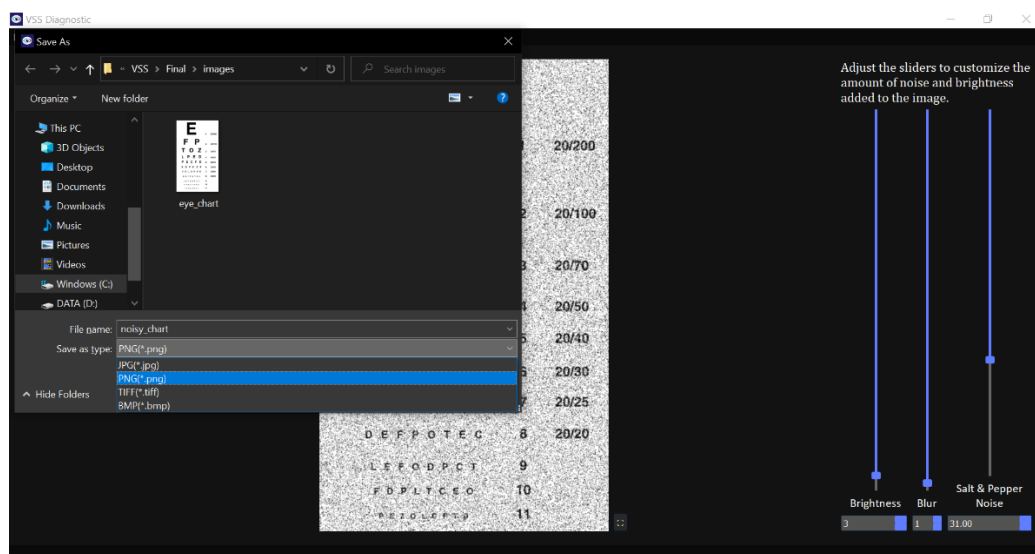
There is full screen functionality as well which can be used to view only the eye chart. The small button to the side, Escape Key, and Double Clicking the eye chart would enable users to manipulate the sliders and view the entire application again.



Finally, this image can be saved in any directory. The noise and brightness configurations stay intact according to the adjustments. It can be saved as:

- jpg
- png
- tiff
- bmp

Even if the object is originally a .png image, it can be still be saved as a .jpg or .tiff image file after the modification.



Whenever an image file is saved, a text file which contains the configuration of noise, brightness, and blur is also saved with the same file name and in the same directory as the saved image.

