VSpipe – GUI Installation Guide for Linux

Accessing and downloading VSpipe-GUI repository

- Access the GitHub repository
- Clone or go to the path or Executables/Linux/, and download the repo containing following files
 - o *vspipe-gui-linux-app* (executable file and can be run either through terminal or directly by double clicking on the app)
 - o *vspipe-tools/* (directory containing all required files to run vspipe-gui-linux-app application)
- Clone or download *vspipe-libraries.zip* file. It contains already minimized libraries provided by vspipe-gui

Installation of dependencies needed to run VSpipe-GUI

- 1. Python (https://www.python.org/downloads/source/)
- 2. MGL Tools (https://ccsb.scripps.edu/mgltools/downloads/)
- 3. Autodock tools (*sudo apt-get install autodock-vina*)
- 4. Rscript (*sudo apt-get install r-base*)
- 5. Alacarte (sudo apt-get install alacarte)
- 6. Gedit (sudo apt-get install gedit)

Step-by-Step guide

Once you have downloaded above mentioned files/directories from the repo, do the following steps:

Note: You need to have administrative privileges to install vspipe-gui

- 7. You will need to locate the path of MGL tools and find out the path of a file 'pythonsh'
 - a. For example, in current machine, this path is:

```
/usr/bin/env /home/rashid/MGLTools-1.5.6/bin/pythonsh (This path will be changed depends on where you have installed MGL tools)
```

- 8. Give following commands.
 - ♦ cd vspipe-tools/
 - gedit prepare_receptor4.py
 (Change the header as shown in figure above)

- gedit prepare_ligand4.py
 (Change the header as shown in figure above)
- ◆ gedit prepare_dpf4.py
 (Change the header as shown in figure above)
- gedit prepare_gpf4.py
 (Change the header as shown in figure above)
- gedit summarize_results4.py
 (Change the header as shown in figure above)
- ♦ sudo cp * /usr/local/bin/
- ♦ sudo chmod 777 -R /usr/local/bin/
- ♦ unzip vspipe-libraries.zip
- ♦ sudo cp -r minimised libs /usr/local/lib/
- ♦ sudo chmod 777 -R /usr/local/lib/minimised libs/
- ♦ alacarte
- ♦ Make changes shown in figure below
- ♦ Give name
- ♦ Browse to the file vspipe-gui-linux-app
- ◆ Check on the option (Launch in Terminal)

Launching Vspipe-GUI

Once you have followed the instructions above, Go to the applications and type on the **vspipe-gui-linux-app** in the search menu, double click the **vspipe-gui-linux-app** icon to launch the VSpipe GUI.

