

Rosetta Tips and Tricks

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Attendance
tinyurl.com/y33jhcxr

Rosetta Tips

- Always try Googling the error message
- Need to be aware of relative paths
- To extract need to have enough space for both the archive and expanded folder, then for compiled files
- Run bin files from source folder
 - `./bin/AbinitoRelax`
- Add `&` to end of command to run in the background
- Take advantage of Tab complete and arrows

main/source – Main folder to put files

main/source/bin – Executables to run

main/database – Chemical properties

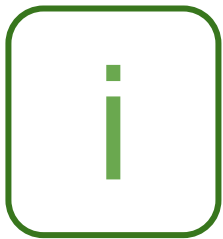
demos/tutorials – Useful tutorials

tools – Handy automation scripts

```
-ln~  
    -file~  
        -fasta input_nanobody/nanobody.fasta~  
        -frag3 input_nanobody/aat000_03_05.200_v1_3~  
        -frag9 input_nanobody/aat000_09_05.200_v1_3~  
-abinitio~  
    -relax~  
    -increase_cycles 10~  
    -rg_reweight 0.5~  
    -rsd_wt_helix 0.5~  
    -rsd_wt_loop 0.5~  
[-relax~  
    -fast~  
-out~  
    -pdb~  
    -nstruct 300~  
    -file~  
        -scorefile score.sc~  
-overwrite~
```



- Linux terminal text editor
- Run with 'vim file.txt'
- Modal text editor
 - To type text, press 'i' first
 - To get back to default mode, press ESC
- Useful for editing files for Rosetta
- See my Vim slides for more details
- Use vimtutor to learn through doing



Enter insert mode



Go back to
normal mode



Save and exit file



Paste from
clipboard



Enter visual mode
select text



Enter command
prompt

:w – Save file

:wq – Save and Quit

:sort – Sort selected lines

:set ff=unix – Use Unix line endings

Linux Tricks



- Use `/mnt/c/` to access Windows from Linux subsystem
 - `mv /mnt/c/Downloads/rosetta ~`
 - `C:\Users\NAME\AppData\Local\Packages\DISTRO_FOLDER\LocalState\rootfs`
- Install things with
 - `sudo apt install PROGRAM`
 - Use 'search' to find program
 - Tab complete program

PyMOL



- Different from PyRosetta
- **Left click** Pan/Rotate
- **Right click** Zoom in/out
- **Middle click** Move
- **Scroll** Change visual depth
- Align all structures with one
 - align S_000X, all