

# Visualization on Graham

Compute Canada systems can be used for visualization as well as computation. We have installed the MINC toolkit with the graphical pieces (`Display`, `register`) included on the Graham system, allowing you to view files created there without first transferring to another system. You can also use `R` to interactively make and view plots (although fitting models, reading large numbers of files, etc., should be done on other nodes; see the references), and Compute Canada provides a number of other visualization tools such as `Paraview`, `VisIt`, etc. which you may find useful for visualizing cortical surfaces, point clouds, deformation fields, etc.

Our suggested methodology is as follows:

- [get a Compute Canada account](#) if you don't have one (you need a PI identifier; see your PI, or Ben or Chris if you're in Jason's group)
- start a `VNC` client on your local machine (e.g., laptop, MICE desktop).
- point your client towards `gra-vdi.computeCanada.ca` and log in using your Compute Canada login name and password (used for both logging into the `computeCanada.ca` website and CC systems). Note: you seemingly can't `ssh` to this address.
- `module load minc-toolkit/1.9.17-visual-tools`
- use `Display` or `register` as usual (apparently no need to use `vglrun`)

The CC reference docs below propose other ways of doing visualization. Please update this page if you attempt any!

## References

<https://docs.computeCanada.ca/wiki/Visualization> (here following the 'VDI nodes' rather than 'login nodes' section)

<https://docs.computeCanada.ca/wiki/VNC>

[Pydipper on Graham](#)