

Freesurfer Preprocessing

When there is a new case & it's finished processing through ImageOwl - cue for me to start FS preprocessing. [Doesn't have to go through MORI b/c that's a different pipeline -- just ImageOwl]. Also make sure the ImageOwl files are moved to the correct folder that the `chg.csh` script will look into.

CHG.csh

1. Go into **tcsh > fs51_longitudinal > cd Desktop/freesurfer_runs** folder
2. Source **chg.csh** (if it doesn't run - try it without the extension)
 - a. Make text file of subject's to be run and link it to the script

FS_preprocess

1. **Tcsh > fs51_longitudinal > cd ~Desktop/freesurfer_runs**
2. Source **FS_preprocess**
 - a. Link text file of subjects to be run to the script

Recon

1. **Tcsh**
2. Source **fs51_longitudinal**
Environment switches to APP_longitudinal folder
3. Run **FS_recon**
4. Then do gray matter edits + ctrl pts - after fs_recon1
5. Run **recon2_cp.csh**
6. Then do the white matter edits - after recon2
7. Run **recon3_wm.csh**
8. Quality control check after this and make sure everything looks okay.
 - a. If have to go back and do more gm edits/ctrl pts then have to run the recons in sequence all the way to the end (run recon 2 and recon 3 even though I only did the gm/ctrl edits and not wm edits) -- just go in sequence and complete it through
9. After running Recon3 → go onto the QCache steps - once everything is done & looks good

Qcache + LGI

1. **Tcsh > source fs51_longitudinal**
2. Run **run_qcache.csh** - don't forget to link text file to script. Run w/o extension if doesn't work.
 - a. Prepares subjects for stats
 - b. Calculates surface area, volume, cortical thickness etc
3. Run **lgi_standard.csh** - don't forget to link text file to script
4. Run **run_qcache_lgi_allfwhm.csh** - don't forget to link text file to script
 - a. `.log file` is in subject folder > scripts > reconall status.log & reconall.log

```
alias wu='ssh app@152.79.176.123'
```

```
alias wudrive='sshfs app@152.79.176.123:/media /home/natasha/W'
```

```
alias treedrive='sshfs natasha@152.79.176.243:/data /home/natasha/treedrive'
```

```
hyperion: 152.79.176.245
```