NeuroElf (NE) - BrainVoyager (BV)

Cluster threshold

Both in BV and NE: VTC (functional) voxel is used, for example, for monkey data with VTC resampled at 1 mm, 1 "voxel" = 8 * 0.5 (anatomical MRI) voxels.

E.g., 10 voxels: 80 0.5 voxels, thus cluster threshold "10 voxels" means at least 80 0.5 voxels, 10 mm^3.

Important difference: In BrainVoyager, when using "Interpolate" option, the number of voxels is apparently calculated after interpolation, but in NeuroElf, the threshold (k-thresh) is first applied and then the resulting clusters are interpolated. This can result in discrepancy between BV and NE, with less activated clusters in BV as compared to NE.

VOIs

As described above, NE only applies interpolation *after* clusters/VOIs have been defined. This is why VOIs that were created in NE look like mosaics when displayed in BrainVoyager. In addition, due to different coordinate systems NE clusters/VOIs are shifted when opened in BrainVoyager. The function *nevois_addvoxels.m* (see Dropbox\DAG\Sources\bv_umg\Lydia_fmri_microstim 20151210) takes care of both issues and allows you to display NE clusters in BrainVoyager properly. **Important:** If you want to look at a corresponding VMP, you must disable interpolation in the Volume Maps tab.

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