

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 mm³.

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.

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