Defining ROIs

You can use the built-in ROI standard objects, or you can specify you own. Recognized sizes are 1, 7, 19, 27.

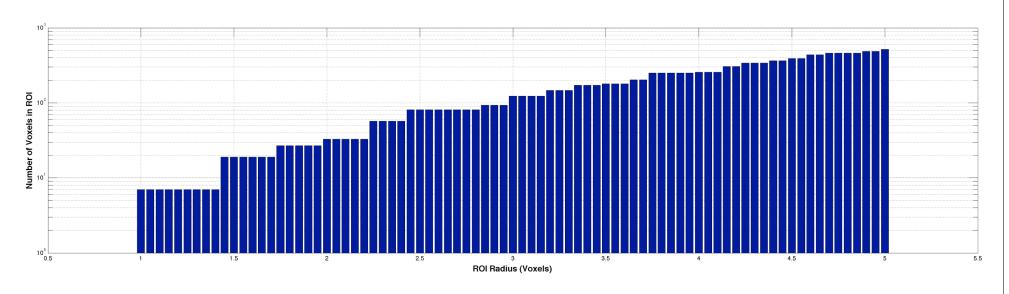
```
parameters.mni.
  coodinates = [x_0 \ y_0 \ z_0;
                        x_1 y_1 z_1;
                        x_n y_n z_n;
   size
                     = #;
   size.XROI
                     = [-1 \ 0 \ -1];
                    = [ 0 0 0 0 ];
        .YROI
                     = [0 0 0 0];
        .ZROI
```

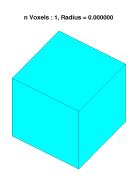
So specify you own use:

Or, have the code build the arrays

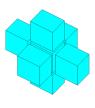
```
XYZ = SOM_MakeSphereROI(radius);
parameters.mni.rois.size.XROI=XYZ(1,:);
parameters.mni.rois.size.YROI=XYZ(2,:);
parameters.mni.rois.size.ZROI=XYZ(3,:);
```

Obviously, some range of radii will give same ROI definition.

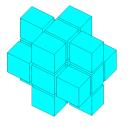




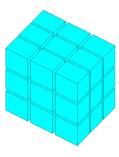




n Voxels : 19, Radius = 1.450000



n Voxels : 27, Radius = 1.750000



n Voxels : 33, Radius = 2.000000



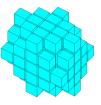
n Voxels : 57, Radius = 2.250000



n Voxels : 81, Radius = 2.450000



n Voxels : 93, Radius = 2.850000



n Voxels : 123, Radius = 3.000000 n Voxels : 147, Radius = 3.200000 n Voxels : 171, Radius = 3.350000 n Voxels : 179, Radius = 3.500000 n Voxels : 203, Radius = 3.650000 n Voxels : 251, Radius = 3.750000 n Voxels : 257, Radius = 4.000000 n Voxels : 305, Radius = 4.150000

n Voxels : 437, Radius = 4.600000 n Voxels : 341, Radius = 4.250000 n Voxels : 365, Radius = 4.400000 n Voxels : 389, Radius = 4.500000 n Voxels : 461, Radius = 4.700000 n Voxels : 485, Radius = 4.900000 n Voxels : 515, Radius = 5.000000