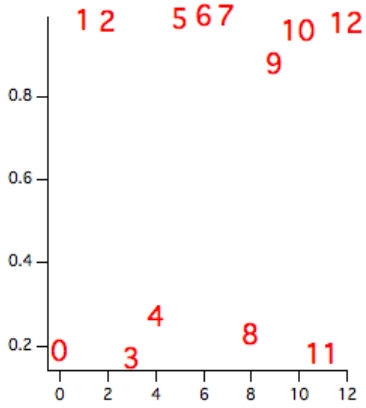


The second classification produces a distinct separation of the screws from the washers and nuts. It also illustrates the importance of selecting the best classification parameters.

You can use the ImageAnalyzeParticles operation also for the purpose of creating masks for particular particles. For example, to create a mask for particle 9 in the example above:

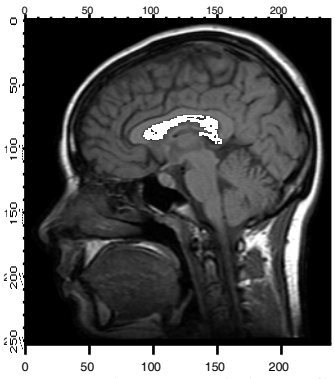
```
ImageAnalyzeParticles /L=(w_spotX[9],w_spotY[9]) mark screws
NewImage M_ParticleMarker
```

You can use this feature of the operation to color different classes of objects using an overlay.

Seed Fill

In some situations you may need to define segments of the image based on a contiguous region of pixels whose values fall within a certain range. The **ImageSeedFill** operation (see page V-409) helps you do just that.

```
NewImage mri
ImageSeedFill/B=64 seedX=132,seedY=77,min=52,max=65,target=255,srcWave=mri
AppendImage M_SeedFill
ModifyImage M_SeedFill explicit=1, eval={255,65535,65535,65535}
```



Here we have used the /B flag to create an overlay image but it can also be used to create an ROI wave for use in further processing. This example represents the simplest use of the operation. In some situations the criteria for a pixel's inclusion in the filled region are not so sharp and the operation may work better if you use the adaptive or fuzzy algorithms. For example (**Note**: the command is wrapped over two lines):

```
ImageSeedFill/B=64/c seedX=144,seedY=83,min=60,max=150,target=255,
srcWave=mri,adaptive=3
```

Note that the min and max values have been relaxed but the adaptive parameter provides alternative continuity criterion.