



## Region Grow

Whereas threshold-based segmentation applies globally to all voxels in the volume, region growing can be used to limit the segmentation to voxels that are connected to a user-defined seed point which fall within a specified threshold range.

## 5. Segmentation with Region Grow

- Select a data set and open Segment.
- Select Semi-Automatic **1** and choose Region Grow. **2**
- Click on the image data to set a seed point in the object you would like to isolate. **3**
- Set the Threshold Min/Max values to define the object. **4**
- Click Connect Object. **5**

 Download the CT\_Heart data set to follow along <http://analyzedirect.com/data/>



- The voxels fulfilling the seed point and threshold criteria for the region grow will be assigned to a new object.
- The segmented object is shown overlaid on the 2D slice data **6** and a 3D rendering **7** is displayed.

