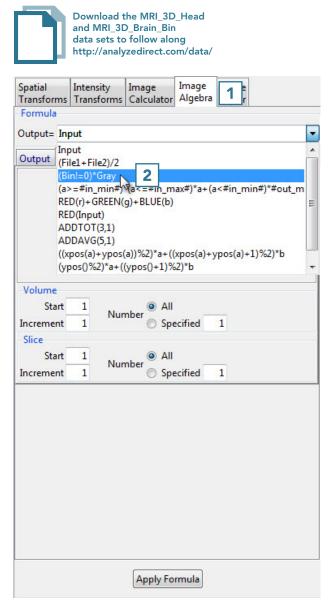
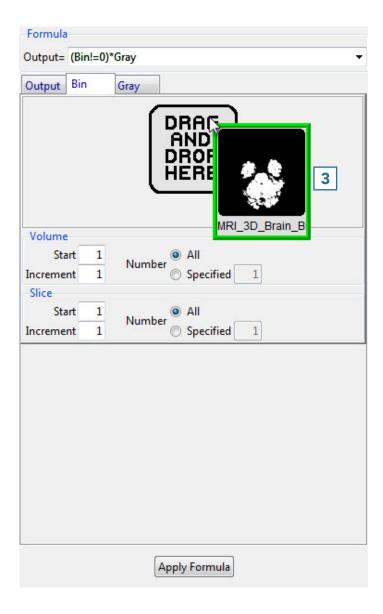
9. Applying a Binary Mask to a Grayscale Volume

This exercise demonstrates how to multiply a grayscale data set with a binary data set. The binary brain will act as a mask; all voxels in the grayscale data set that fall within the binary mask will be kept, while the voxels that fall outside will be removed.

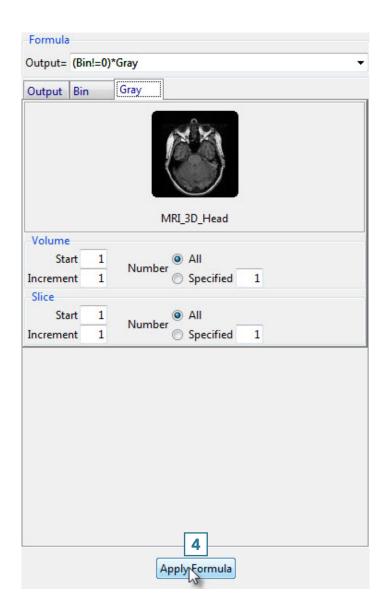
- Open Transform and navigate to Image Algebra.
- From the formula drop-down, select the third option down: (Bin!=0)*Gray.



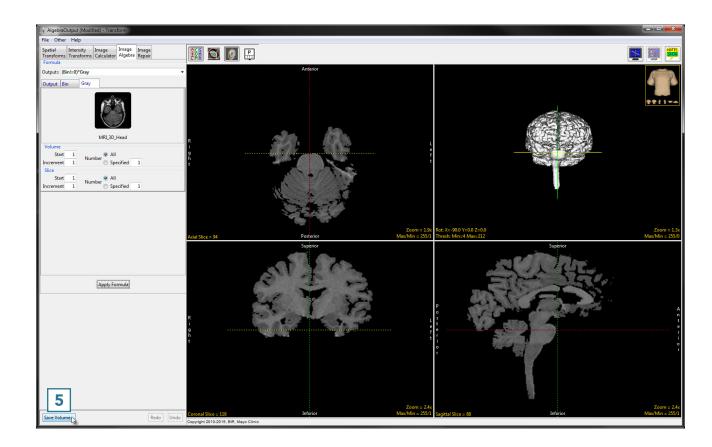
- The input variables will appear as tabs labeled with the variable names.
- Drag and drop the binary data set into the designated space on the Bin tab.
- Do the same with the grayscale data set on the Gray tab.



 Once both data sets are loaded into Image Algebra, click the Apply Formula button.



- The result is shown to the right.
- Click Save Volume 5 to save the masked data set.



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- In the Save Transformed window, choose to create a new workspace volume
 and rename.
- Click Save Volume. 8
- Close Transform.

