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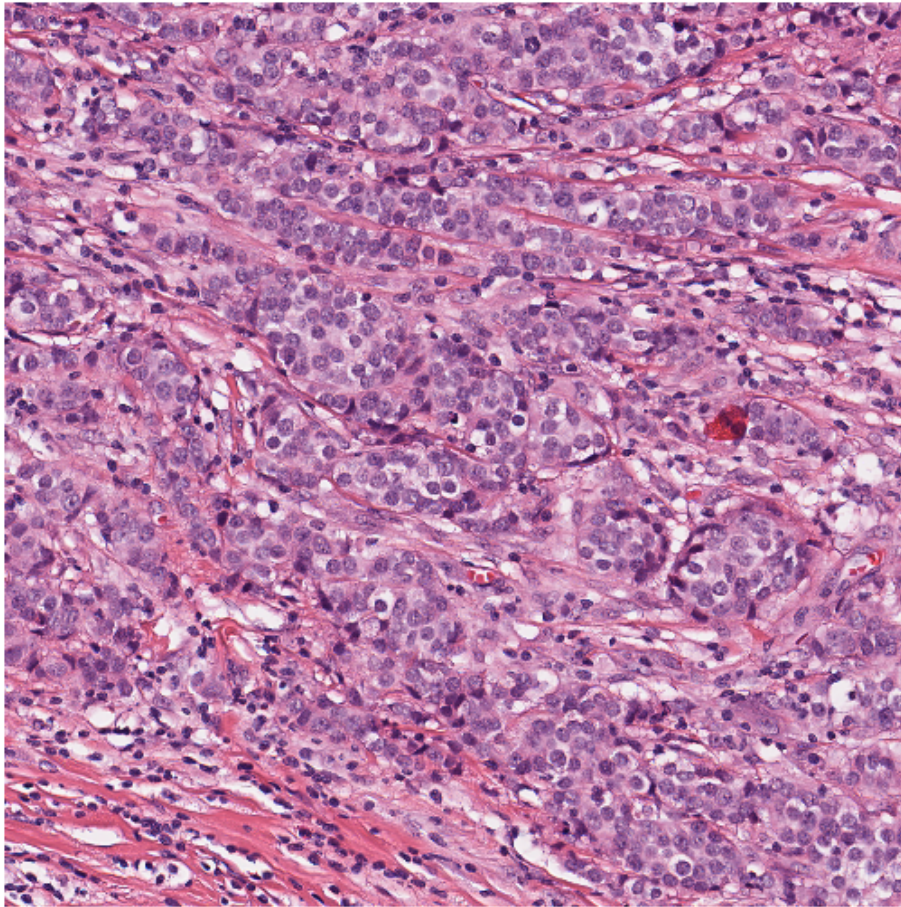
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Read images(Training image,Labeling Image, and TestingImage)

show train and test image

Warning: Image is too big to fit on screen; displaying at 25%

Testing Image



Construct $3 \times (h \times w)$ image

Find optical density of images

Compute transformation matrix

Perform transformation into the Maxwellian space

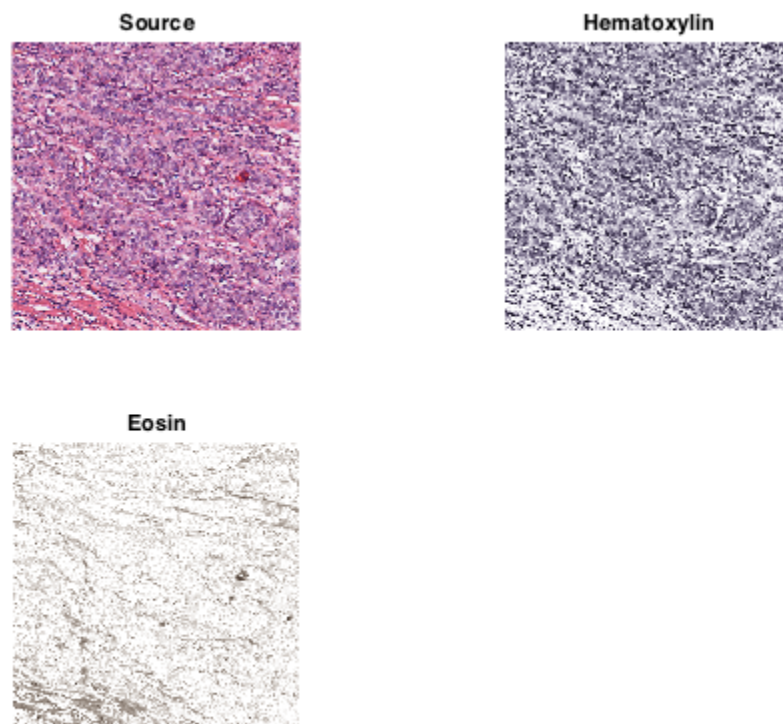
Compute Means for each classified group

*Number of signals: 2
Number of samples: 4000000
Calculating covariance...
Dimension not reduced.*

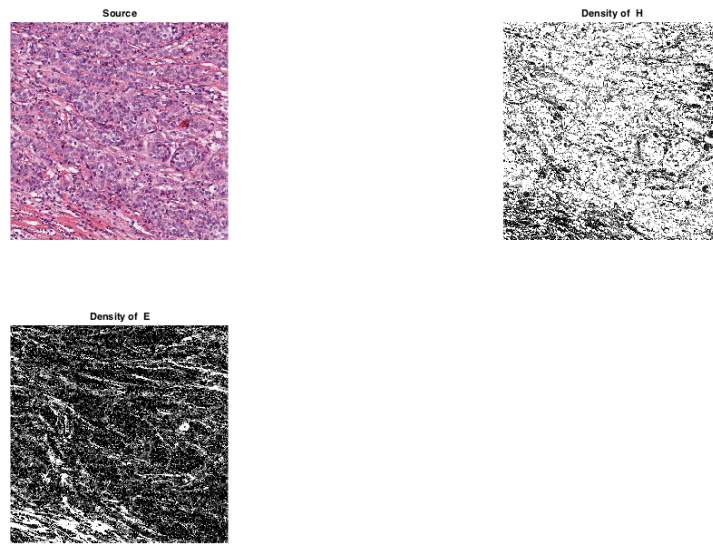
```
Selected [ 2 ] dimensions.  
Smallest remaining (non-zero) eigenvalue [ 0.00178677 ]  
Largest remaining (non-zero) eigenvalue [ 0.00699319 ]  
Sum of removed eigenvalues [ 0 ]  
[ 100 ] % of (non-zero) eigenvalues retained.  
Whitening...  
Check: covariance differs from identity by [ 9.57696e-15 ].  
Used approach [ defl ].  
Used nonlinearity [ pow3 ].  
Starting ICA calculation...  
IC 1 .....computed ( 8 steps )  
IC 2 ..computed ( 2 steps )  
Done.  
Adding the mean back to the data.
```

Show results

Show seperated stain for the sample image



Show Density map for each stain



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