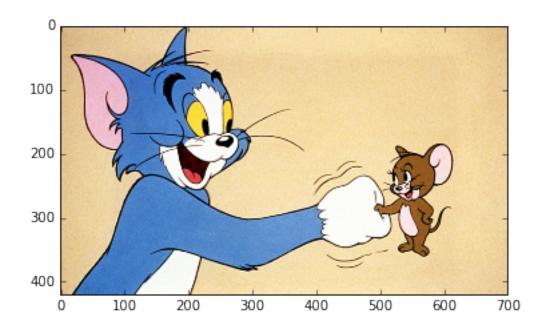
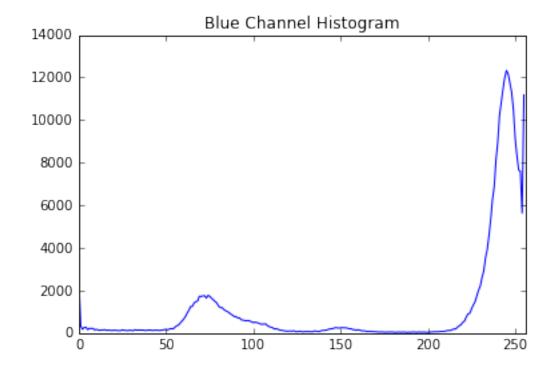
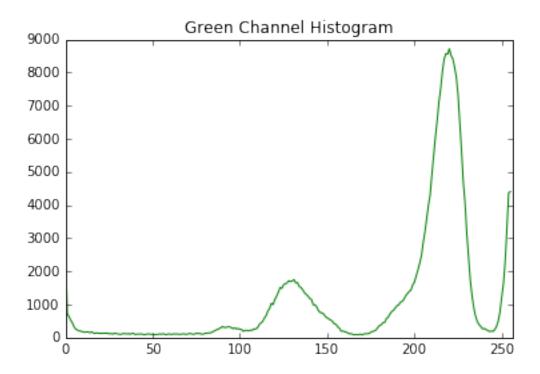
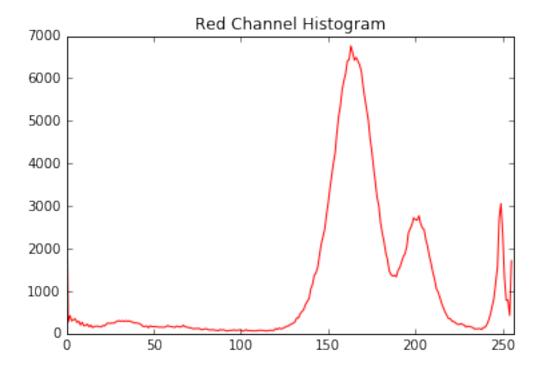
pa1

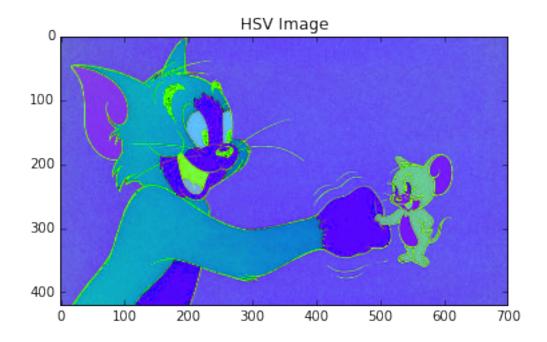
August 30, 2016

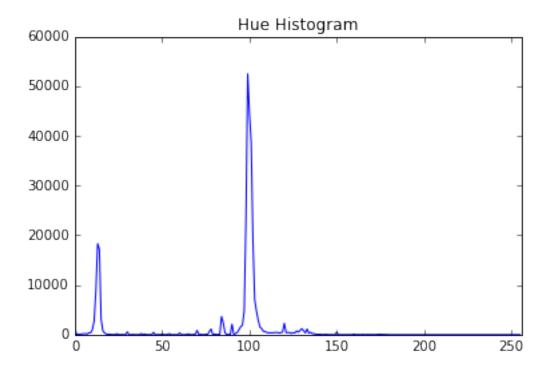


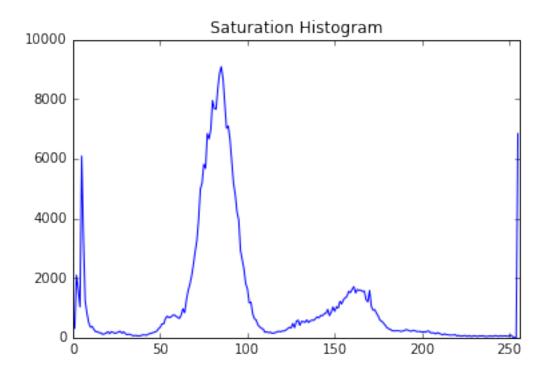


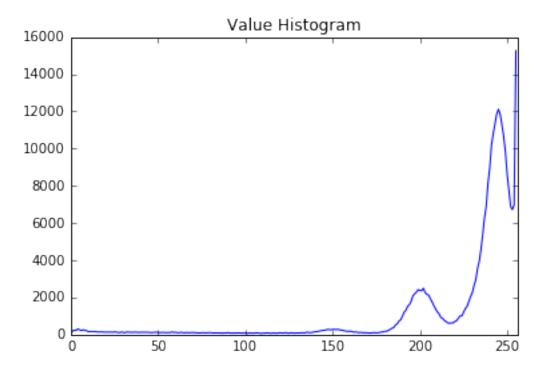




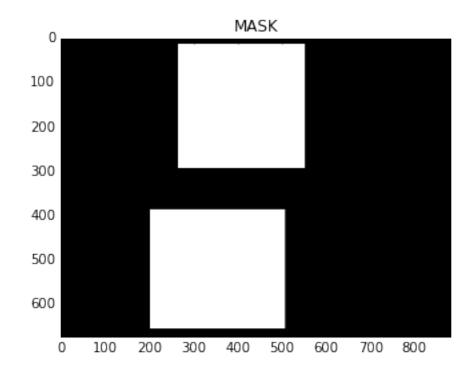


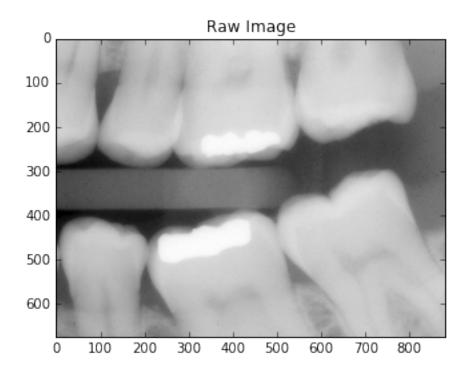


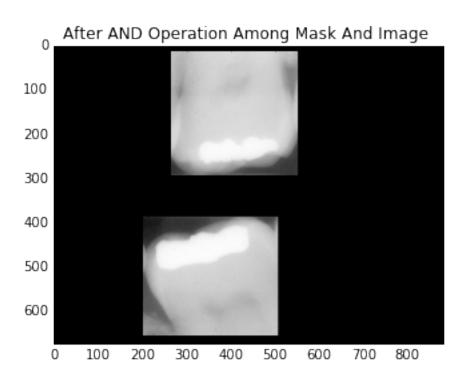




```
In [641]: cv2.imread('Fig0228(b).tif',cv2.IMREAD_GRAYSCALE).shape
Out[641]: (420, 420)
In [642]: mask=cv2.imread('Fig0230(b).tif')
          figure()
          plt.imshow(mask)
          title('MASK')
          show()
          image=cv2.imread('Fig0230(a).tif')
          figure()
          plt.imshow(image)
          title('Raw Image')
          show()
          cv2.bitwise_and(image, mask, res)
          figure()
          title('After AND Operation Among Mask And Image ')
          plt.imshow(res)
          show()
```



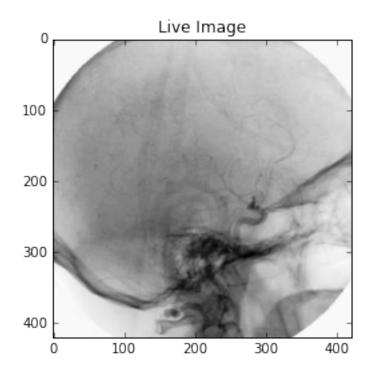


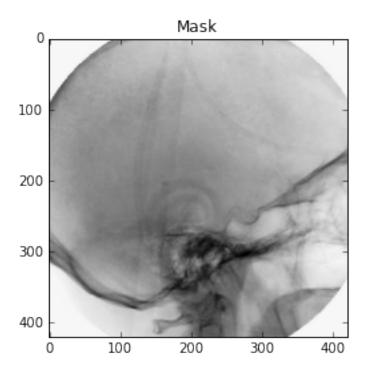


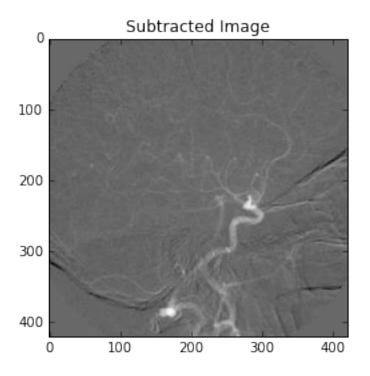
In [643]: b=cv2.imread('Fig0228(b).tif',0)

```
figure()
plt.imshow(b, cmap='Greys_r')
title('Live Image')
show()
a=cv2.imread('Fig0228(a).tif',0)
figure()
plt.imshow(a, cmap='Greys_r')
title('Mask')
show()

c=cv2.subtract(a,b, mask=a, dtype=1)
figure()
plt.imshow(c, cmap='Greys_r')
title('Subtracted Image')
show()
```



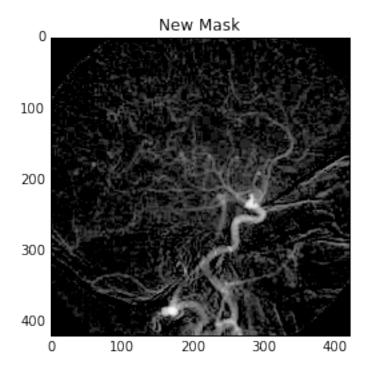


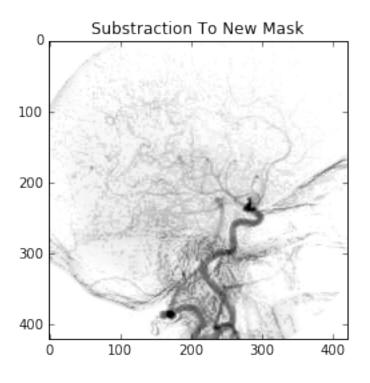


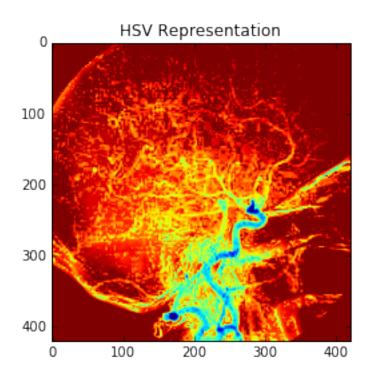
bright pixels become slightly bright

```
maxIntensity = 255.0 # depends on dtype of image data
x = arange(maxIntensity)
phi = 0.8 #i have played with these numbers to get result im expecting
theta = 1 \#
newImage0 = (maxIntensity/phi) * (c/(maxIntensity/theta)) * * 0.5
newImage0 = array(newImage0,dtype=uint8)
figure()
plt.imshow(newImage0,cmap='Greys_r')
title('New Mask')
show()
c=cv2.subtract(b,newImage0,dtype=1)
figure()
plt.imshow(c,cmap='Greys_r')
title('Substraction To New Mask')
show()
figure()
plt.imshow(c)
title('HSV Representation')
show()
```

/Users/nimaaghli/anaconda/lib/python3.5/site-packages/ipykernel/__main__.py:10: Rur







- In []:
- In []:
- In []: