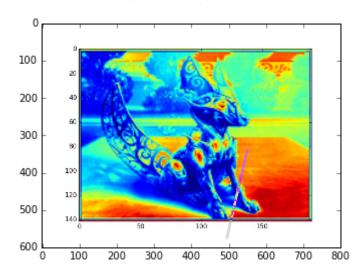
```
In [7]: import numpy as np
          import math as ma
          from scipy import misc,ndimage
          import matplotlib.pyplot as plt
          %matplotlib inline
 In [2]: def line(x0, y0, x1, y1):
              x = np.arange(x0, x1+1, 1)
              m = (y1 - y0)/(x1 - x0)
              y = (m*(x - x0) + y0).astype('int')
              return x,y
In [105]: def addline( R, G, B):
              thick = int(np.random.uniform( 1, R.shape[1]/100) )
              dark = int(np.random.uniform( 1, 100 ))
              x0 = int(np.random.uniform( 0, R.shape[0]-1 ))
              y0 = int(np.random.uniform( 0, R.shape[1] ))
              x1 = int(np.random.uniform( x0+1, R.shape[0] ))
              y1 = int(np.random.uniform( 0, R.shape[1] ))
              x = np.array([])
              y = np.array([])
              for i in range(thick):
                  xn,yn = line(x0, (y0+i))R.shape[1],x1, (y1 + i)R.shape[1])
                  x = np.append( x, xn ).astype('int')
                  y = np.append( y, yn ).astype('int')
              R[x,y] = (R[x,y] - dark)%255
              G[x,y] = (G[x,y] - dark)%255
              B[x,y] = (B[x,y] - dark)%255
              return R,G,B
```

```
In [12]: im = misc.imread('Filigree Familiar.full.Blue.jpg')
```

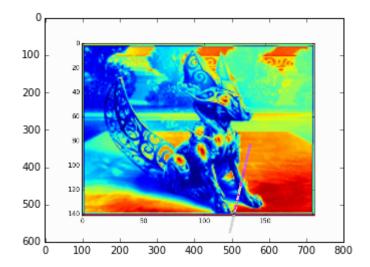
```
In [13]: R = im[:,:,0]
    G = im[:,:,1]
    B = im[:,:,2]
    R, G, B = addline(R,G,B)
    im = np.array([R,G,B])
    im = np.transpose( im , (1,2,0) )
    plt.imshow( im)
```

Out[13]: <matplotlib.image.AxesImage at 0x7f452f025908>



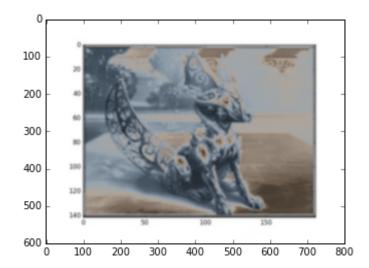
In [15]: plt.imshow(ndimage.filters.gaussian_filter(im, 0.3))

Out[15]: <matplotlib.image.AxesImage at 0x7f452dc66f28>

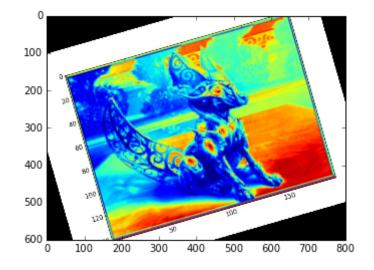


```
In [8]: plt.imshow( ndimage.filters.gaussian_filter( im, 2 ))
```

Out[8]: <matplotlib.image.AxesImage at 0x7f0874c735f8>



Out[10]: <matplotlib.image.AxesImage at 0x7f0874b7dcf8>



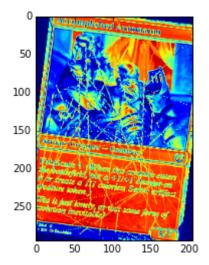
```
In [8]: ma.floor(np.random.uniform( 0, 100)) # Number of lines
```

Out[8]: 93

```
In [ ]:
```

```
In [140]: im = misc.imread('Accomplished Automaton.full.jpg')
for j in range( ma.floor(np.random.uniform(0,100))):
    R = im[:,:,0]
    G = im[:,:,1]
    B = im[:,:,2]
    R, G, B = addline(R,G,B)
    im = np.array([R,G,B])
    im = np.transpose( im , (1,2,0) )
im = ndimage.filters.gaussian_filter( im, np.random.uniform(0,1.5))
im = misc.imrotate( im, np.random.normal(0,10))
plt.imshow( im[:,:,0])
```

Out[140]: <matplotlib.image.AxesImage at 0x7f451e463320>



```
In [104]: im = misc.imread('Accomplished Automaton.full.jpg')
    R = im[:,:,0]
    G = im[:,:,1]
    B = im[:,:,2]
    R, G, B = addline(R,G,B)
    im = np.array([R,G,B])
    im = np.transpose( im , (1,2,0) )
    plt.imshow( im)
```

Out[104]: <matplotlib.image.AxesImage at 0x7f451f198c50>



```
In [96]: R = im[:,:,0]
    G = im[:,:,1]
    B = im[:,:,2]
    R, G, B = addline(R,G,B)
    im = np.array([R,G,B])
    im = np.transpose( im , (1,2,0) )
    plt.imshow( im)
```

Out[96]: <matplotlib.image.AxesImage at 0x7f451f493780>



