

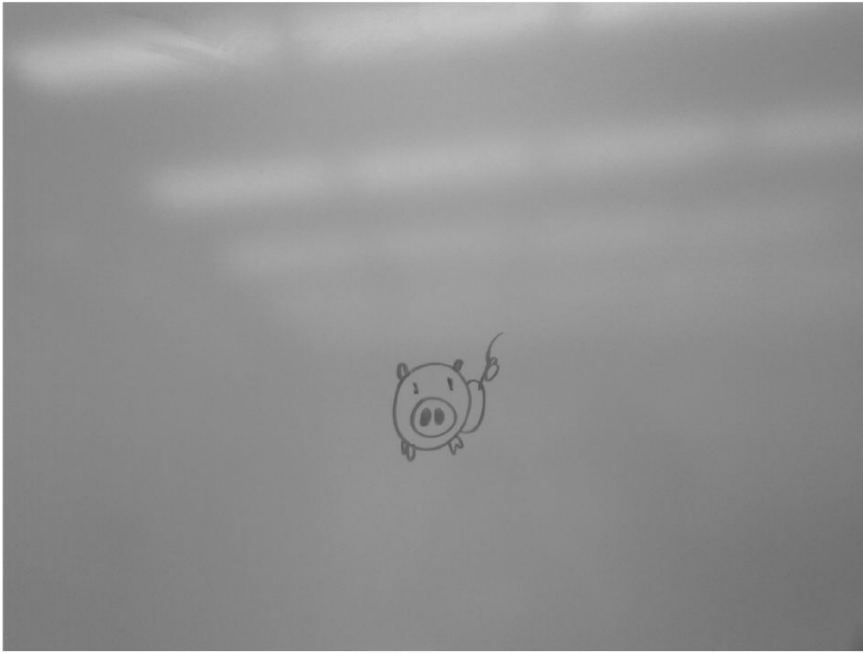
```
lowres = imread('images/IMAGE006.jpg');  
highres = imread('images/IMAGE008.jpg');  
filter_blue = imread('images/IMAGE012.jpg');  
filter_purple = imread('images/IMAGE011.jpg');
```

```
lowres = rgb2gray(lowres);  
highres = rgb2gray(highres);  
filter_blue = rgb2gray(filter_blue);  
filter_purple = rgb2gray(filter_purple);
```

```
imshow(lowres)
```



```
imshow(highres)
```



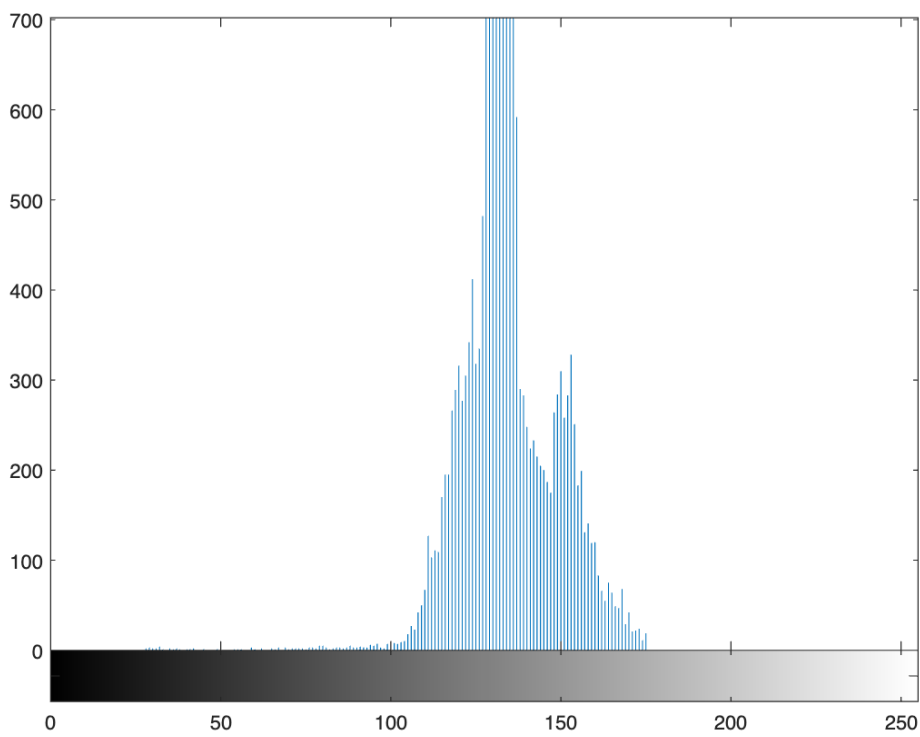
```
imshow(filter_purple)
```



```
imshow(filter_blue)
```



```
imhist(lowres)
```



```
% threshold = 147/255;  
bw_lowres1 = imbinarize(lowres, 120/255);  
bw_lowres2 = imbinarize(lowres, 130/255);  
imshow(bw_lowres1)
```

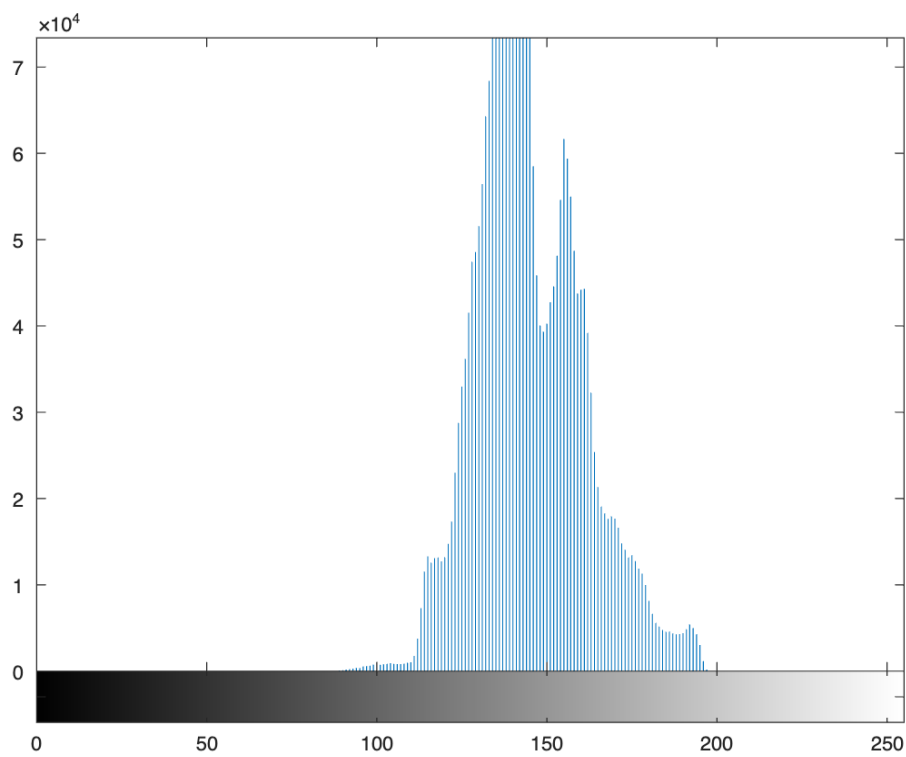


```
imshow(bw_lowres2)
```

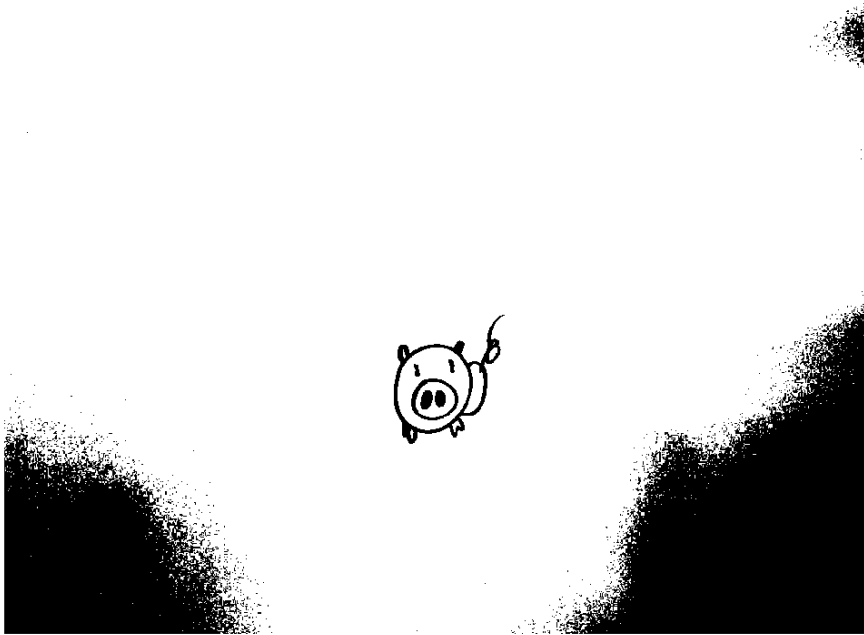




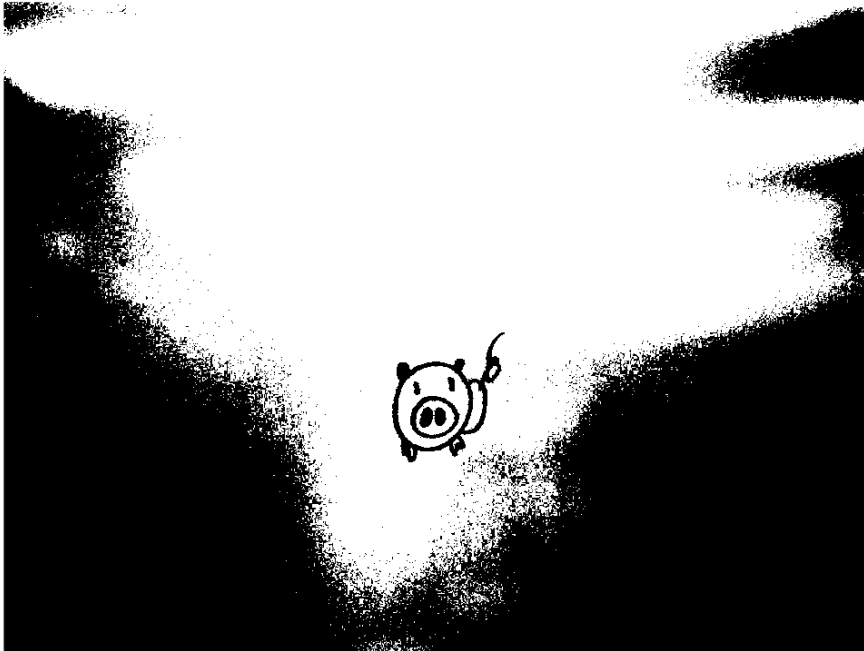
```
imhist(highres)
```



```
threshold = 10;  
bw_highres1 = imbinarize(highres, 131/255);  
bw_highres2 = imbinarize(highres, 140/255);  
bw_highres3 = imbinarize(highres, 149/255);  
  
imshow(bw_highres1)
```



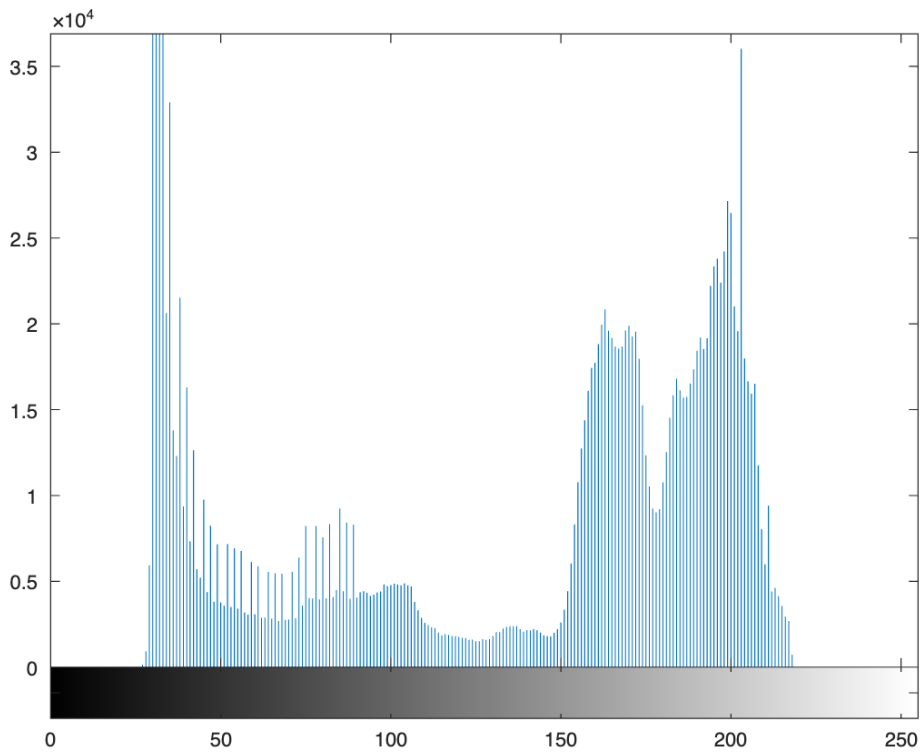
```
imshow(bw_highres2)
```



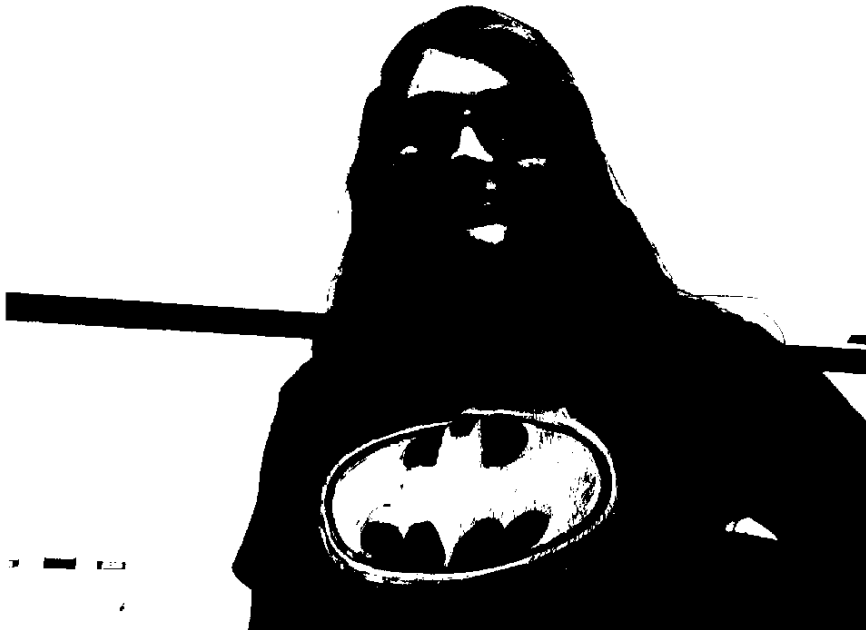
```
imshow(bw_highres3)
```




```
imhist(filter_blue)
```



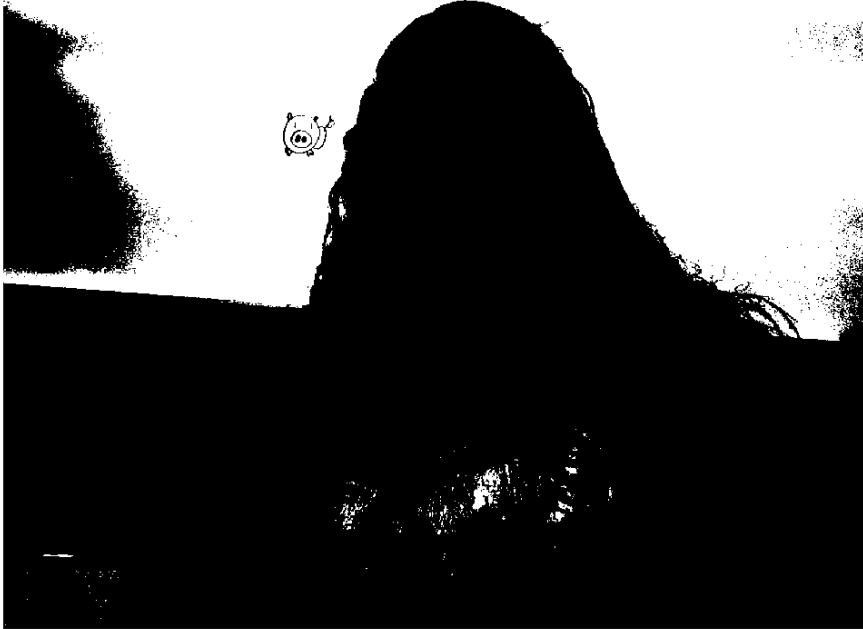
```
bw_blue1 = imbinarize(filter_blue, 117/255);  
bw_blue2 = imbinarize(filter_blue, 150/255);  
bw_blue3 = imbinarize(filter_blue, 179/255);  
  
imshow(bw_blue1)
```



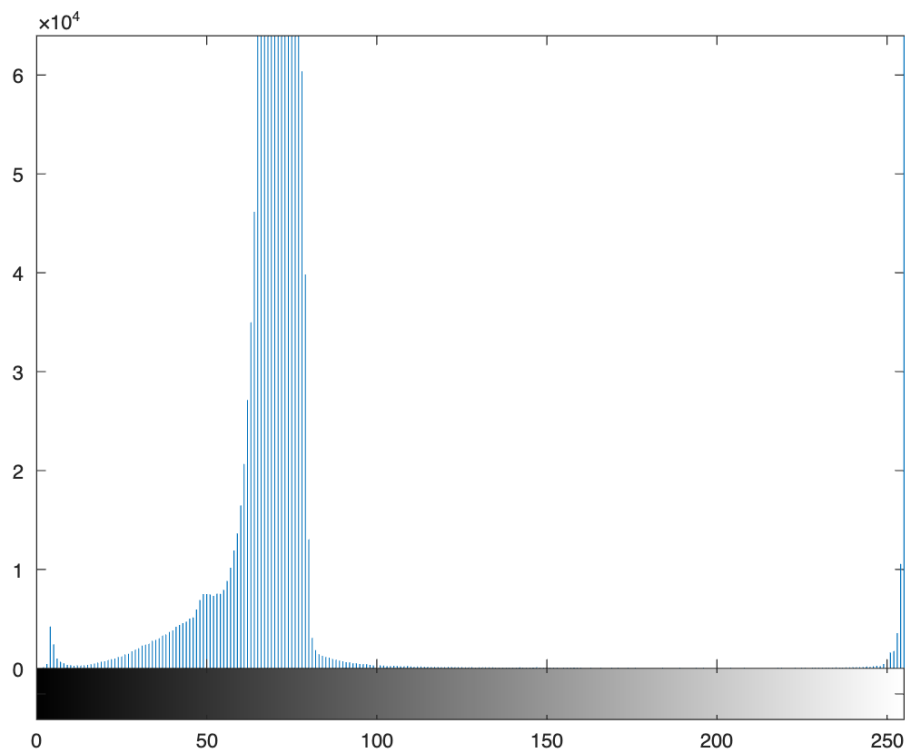
```
imshow(bw_blue2)
```



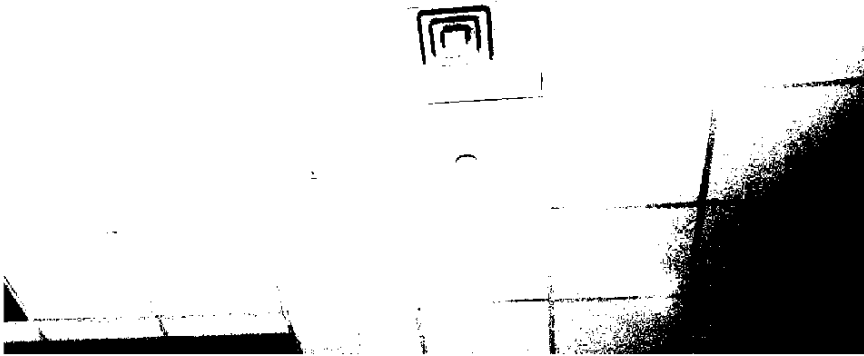
```
imshow(bw_blue3)
```



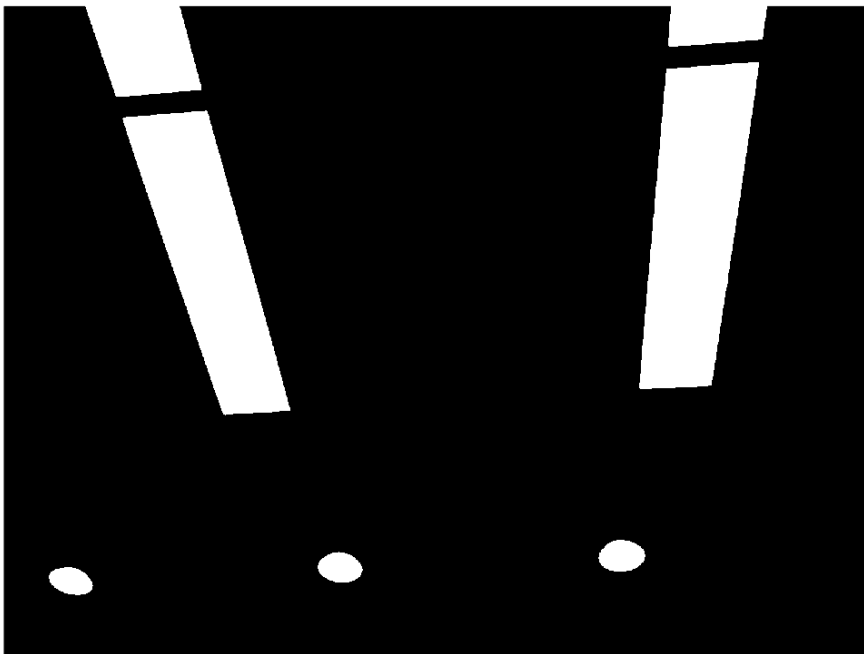
```
imhist(filter_purple)
```



```
bw_purple1 = imbinarize(filter_purple, 57/255);  
bw_purple2 = imbinarize(filter_purple, 150/255);  
bw_purple3 = imbinarize(filter_purple, 230/255);  
  
imshow(bw_purple1)
```



```
imshow(bw_purple2)
```



```
imshow(bw_purple3)
```

