

Example1

```
X=imread('snegovik.jpg');
I=im2double( rgb2gray(X));
figure,imshow(I)
T = 0.5*(min(I(:)) + max(I(:)));
done = false;
while ~done g=I>= T;
Tnext = 0.5*(double(min(I(g))) + double(max(I(~g))));
done = abs(T - Tnext) < 0.5;
T = Tnext;
end
bw = I > T;
figure, imshow(bw)
```

Example2

```
rgb = imread('snegovik.jpg');
I= im2double(rgb2gray(rgb));
figure,imshow(I)
T = graythresh(I);
Bw=I > T;
figure, imshow(Bw)
```

Example3

```
X = imread('snegovik.jpg' );
I=rgb2gray(X);
figure,imshow(I)
T=graythresh(I);
BW = I < T;
figure,imshow(BW)
```

Example4.1

```
X = imread('snegovik.jpg' );
I=rgb2gray(X);
figure,imshow(I)
BW = im2bw(I);
figure,imshow(BW)
```

Example4.2

```
X = imread('snegovik.jpg' );
I=rgb2gray(X);
figure,imshow(I)
T = graythresh(I);
BW = im2bw(I,0.6);
figure,imshow(BW)
```