>> x = imread('imagem\_natureza.png');

>> imshow(x)

>> y = rgb2gray(x);

>> imshow(y)

>> y = double(y)/255;

>> imshow(y)

>> h = [-1 -1 -1; -1 8 -1; -1 -1 -1]

h =

-1 -1 -1

-1 8 -1

-1 -1 -1

>> z = conv2(y,h,'same');

>> imshow(z)

>> N=5; h = ones(N,N)/N^2;

>> z = conv2(y,h,'same');

>> imshow(z)

>> N=55; h = ones(N,N)/N^2;

>> imshow(z)

>> z = conv2(y,h,'same');

>> imshow(z)

>> y\_bordas = y-z;

>> imshow(y\_bordas)

>> imshow(x)

>> x\_r = x;

>> x\_r(:,:,2) = 0;

>> x\_r(:,:,3) = 0;

>> imshow(x\_r)

>> x\_g = x;

>> x\_g(:,:,1) = 0;

>> x\_g(:,:,3) = 0;

>> imshow(x\_g)

>> x\_b = x;

>> x\_b(:,:,1) = 0;

>> x\_b(:,:,2) = 0;

>> imshow(x\_b)

>> x\_hsi = rgb2hsv(x);

>> imshow(x\_hsi)

>> x\_hsi(:,:,1) = x\_hsi(:,:,1) + 0.2;

>> x\_rgb2 = hsv2rgb(x\_hsi);

>> imshow(x\_rgb2)

>> figure(2)

>> imshow(x)