Converting RGB to HSV and Returning Reduced Image

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```
function [saved,z1] = Compress_RGB_to_HSV(img)
% Convert to hsv from rgb
rgb = imread(img);
hsv = rqb2hsv(rqb);
% Determine the size of the matrix
[rows, columns, depth] = size(hsv);
Vert_mat = rows/8;
check_rows = Vert_mat - floor(Vert_mat);
extra row = 0;
if check rows > 0;
    extra_row = 1;
end
step_row = floor(Vert_mat) + extra_row;
Hor_mat = columns/8;
check_columns = Hor_mat - floor(Hor_mat);
extra col = 0;
if check_columns > 0;
    extra_col = 1;
end
step_col = floor(Hor_mat) + extra_col;
hsv = hsv(1:(end-extra_row),1:(end-extra_col),:);
c = 1;
saved = 0;
% Break up into 8x8 blocks, reduce each one, and count the bytes saved
% (saved)
for j = 1:8:floor(Hor_mat)*8
    for i = 1:8:floor(Vert mat)*8
            a = 7i
            b = 7i
            [reduced(c).data,z1,z2,z3] = Reducer(hsv(i:(i+a),j:(j+b),:));
            x = [z1; z2; z3];
            [rowIdx,colIdx] = find(x);
            v = accumarray(rowIdx,colIdx,[],@max)';
            [v1, v2, v3] = size(v);
            if v2 < 3;
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v(3) = 0;
            end
            saved = saved + sum([64 64 64] - v);
            c = c + 1;
    end
end
display(saved);
% Rebuild matrix from reduced form
Mat = [];
counter = 1;
for c = 1:(floor(Hor_mat))
    Col = [];
    for r = 1:floor(Vert_mat)
        Col = [Col;reduced(1,(counter)).data];
        counter = counter + 1;
    end
    Mat = [Mat,Col];
end
% Convert back to rgb and show image
Mat = hsv2rgb(Mat);
figure;
imshow(Mat)
end
Error using Compress_RGB_to_HSV (line 7)
Not enough input arguments.
```

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