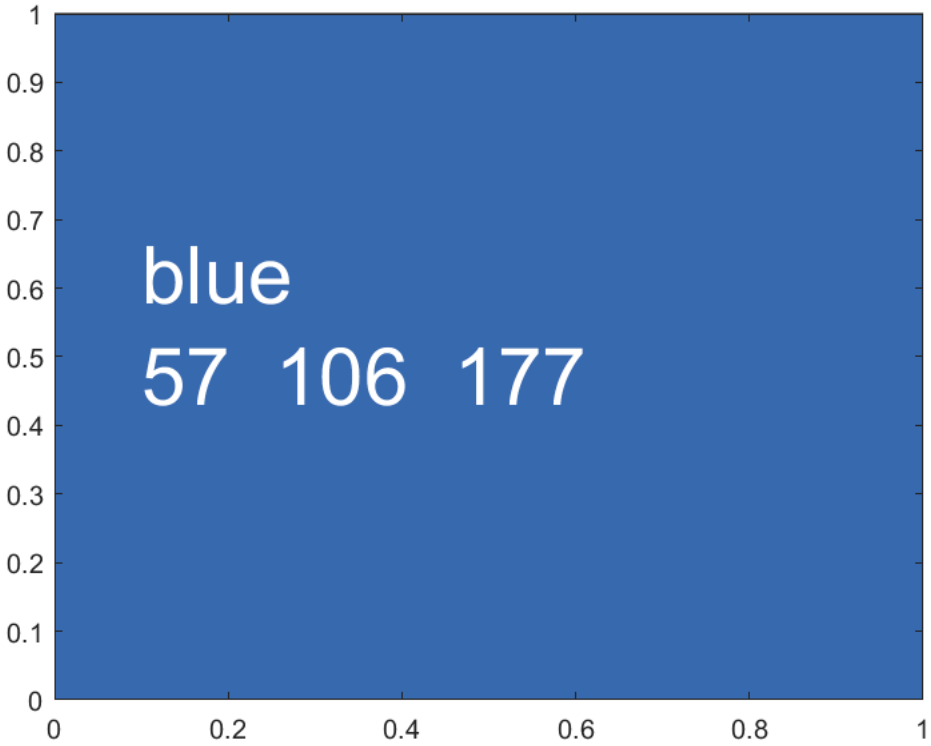
Matlab Graph Safe Colors for Web, Presentation and Publications Examples

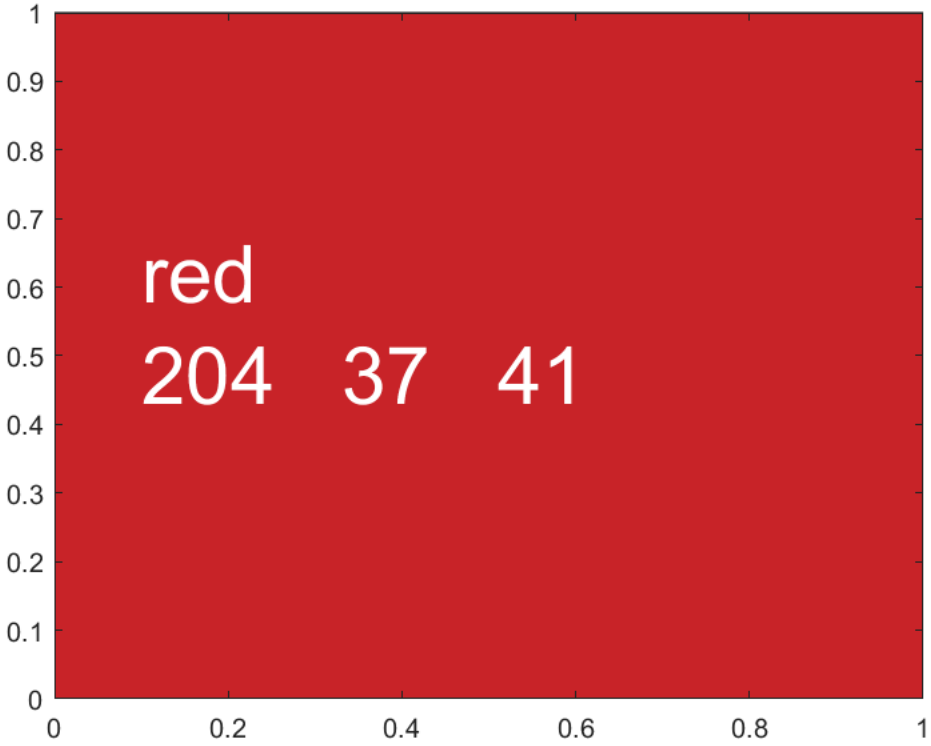
back to Fan's Intro Math for Econ, Matlab Examples, or MEconTools Repositories

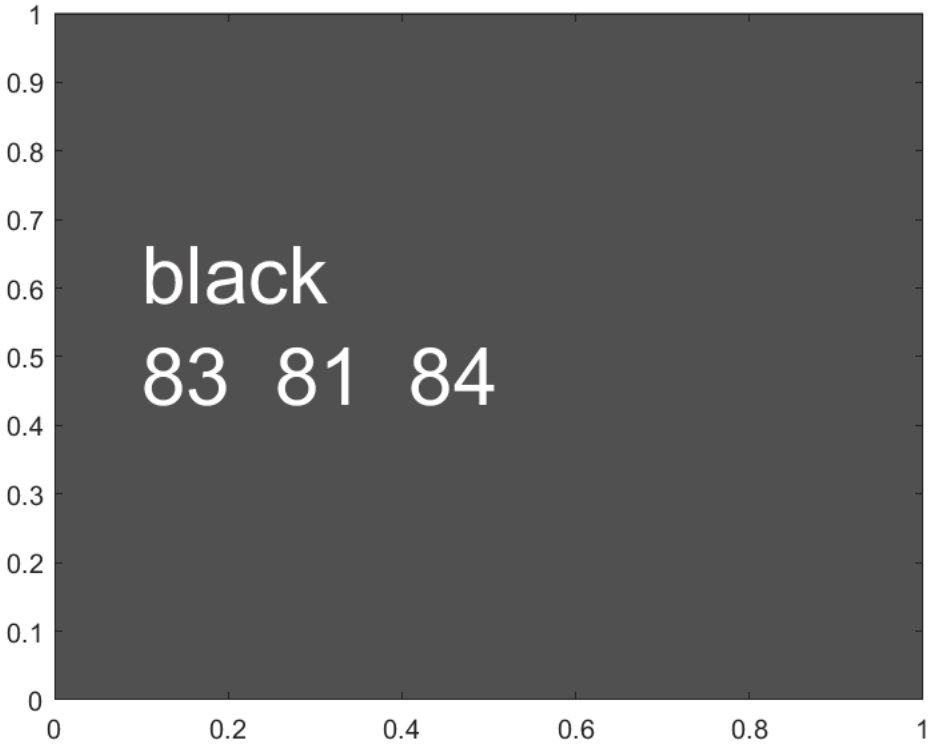
Good Colors to Use Darker

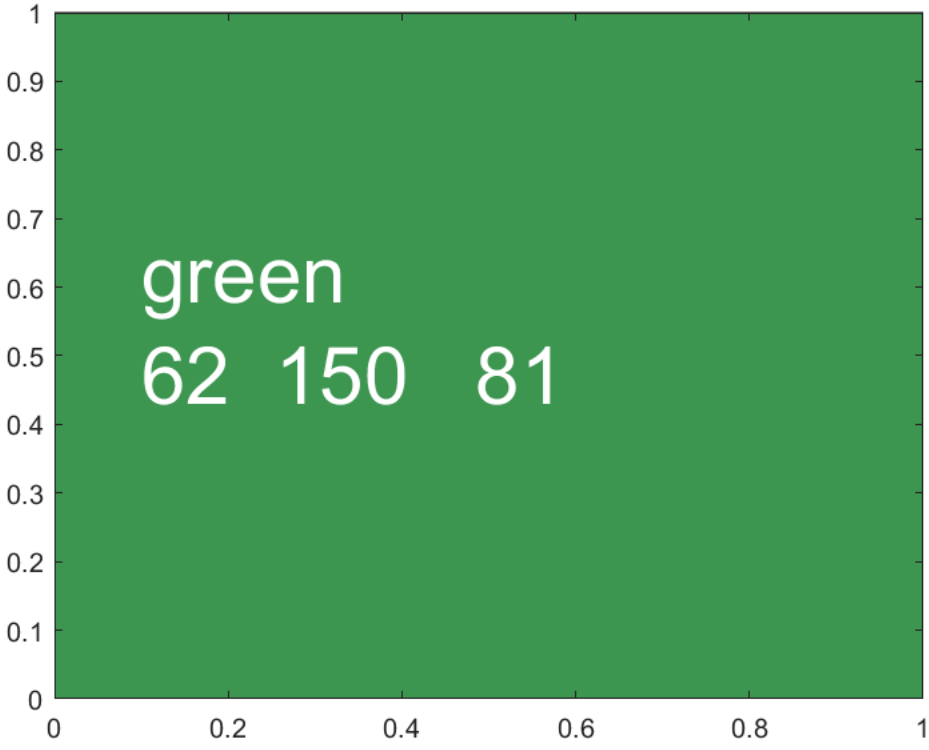
Nice darker light colors to use in matlab.

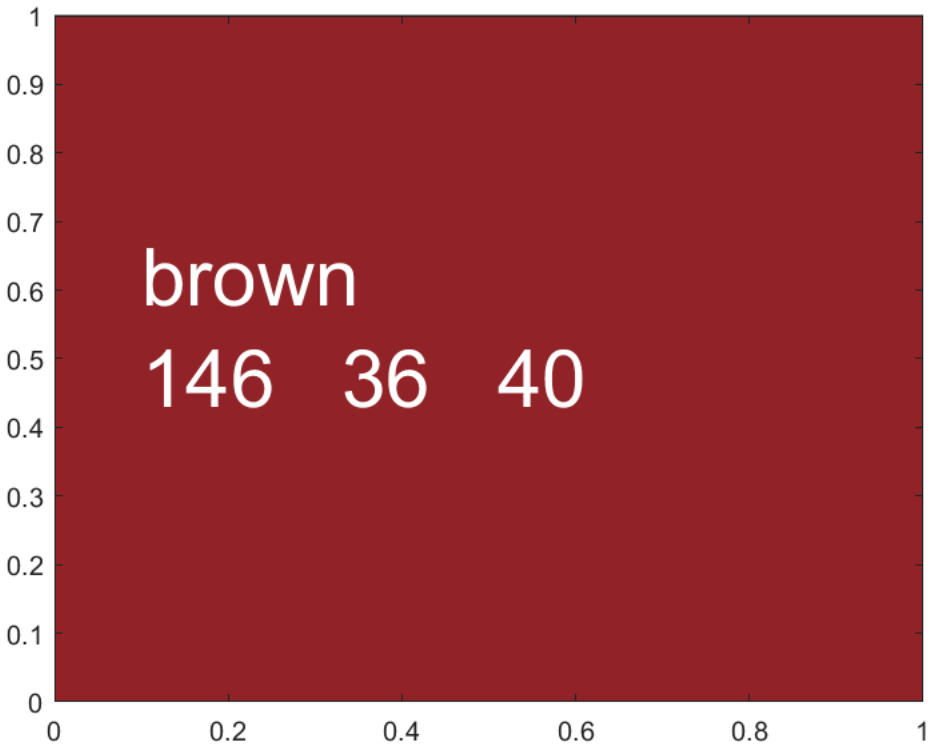
```
close all

blue = [57 106 177]./255;
red = [204 37 41]./255;
black = [83 81 84]./255;
green = [62 150 81]./255;
brown = [146 36 40]./255;
purple = [107 76 154]./255;
cl_colors = {blue, red, black, ...
             green, brown, purple};
cl_str_clr_names = ["blue", "red", "black", "green", "brown", "purple"];

for it_color=1:length(cl_colors)

    figure();
    x = [0 1 1 0];
    y = [0 0 1 1];
    fill(x, y, cl_colors{it_color});
    st_text = [cl_str_clr_names(it_color) num2str(round(cl_colors{it_color}*255))];
    hText = text(.10,.55, st_text);
    hText.Color = 'white';
    hText.FontSize = 30;
    snapnow;

end
```

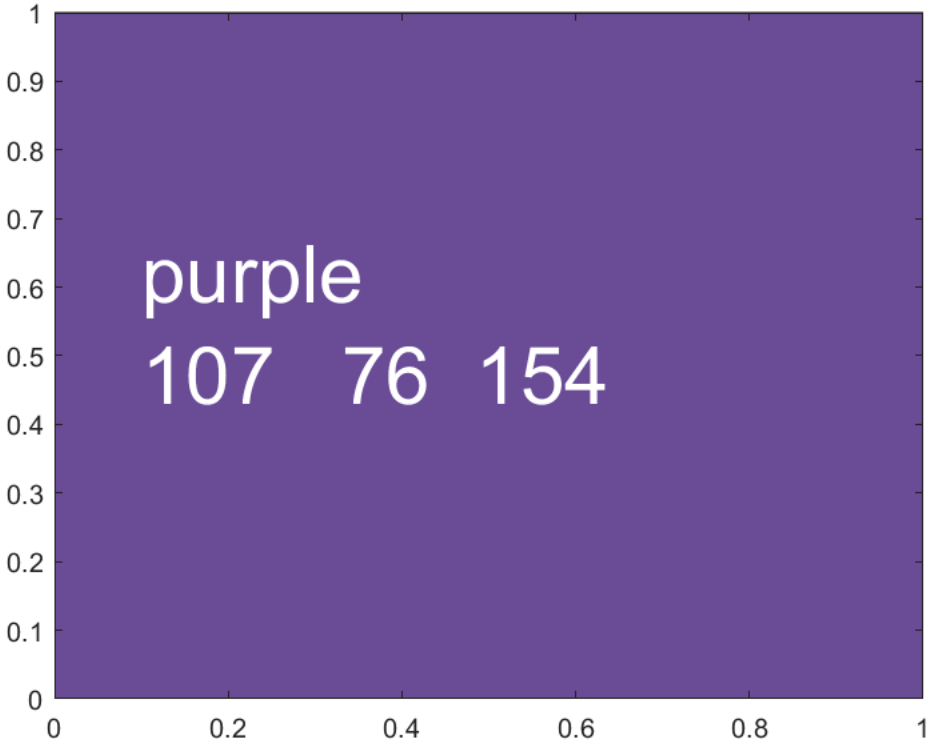

blue
57 106 177


red
204 37 41


black
83 81 84
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.2
0.4
0.6
0.8
1


green
62 150 81
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.2
0.4
0.6
0.8
1

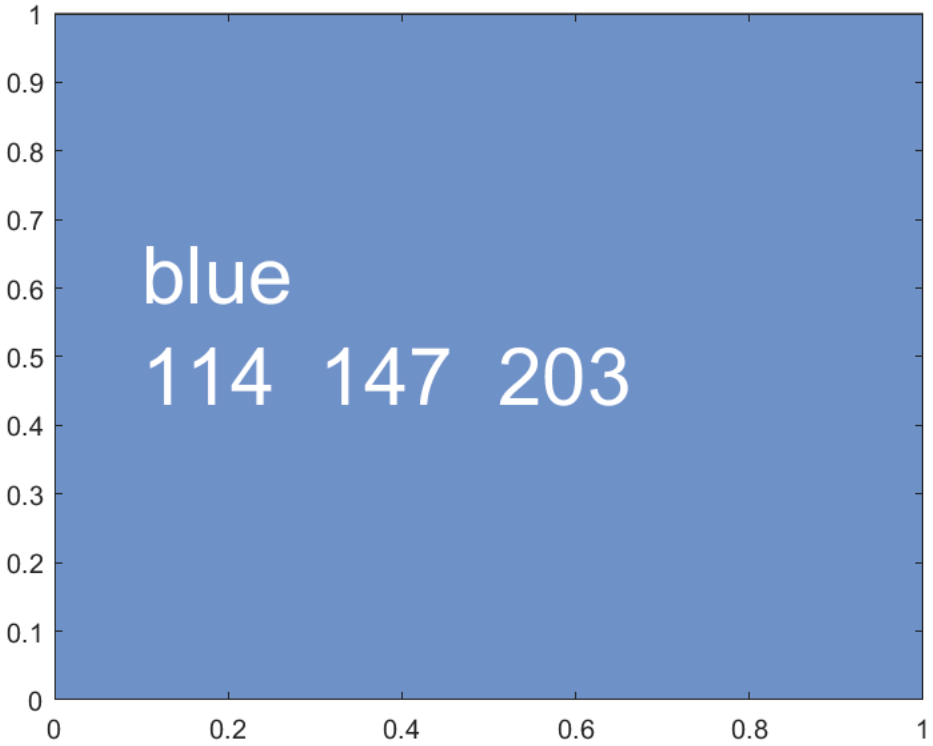


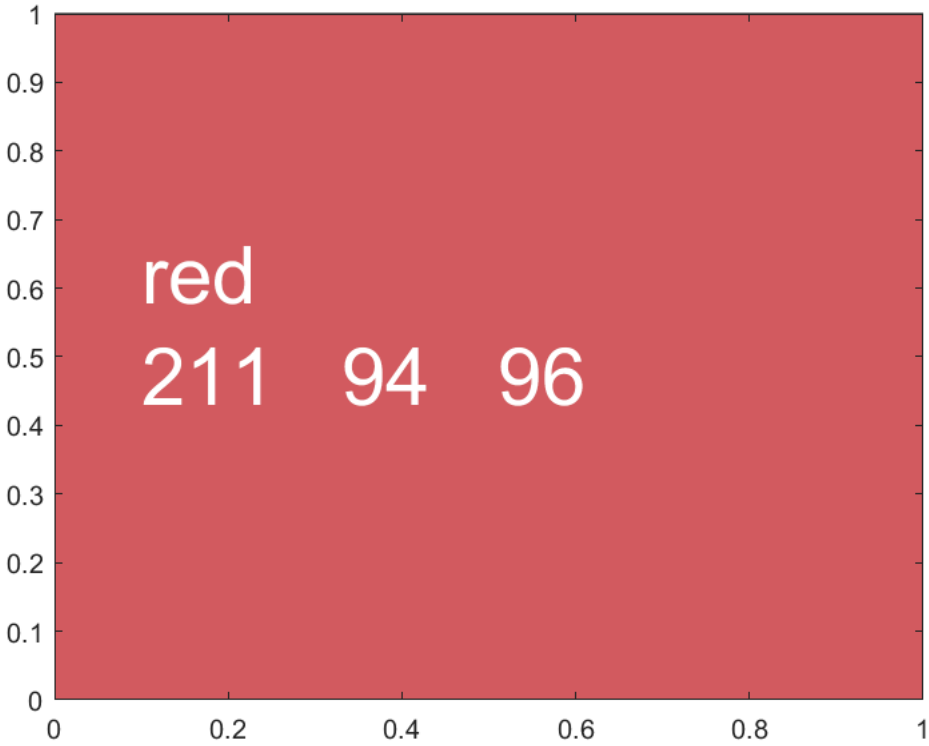


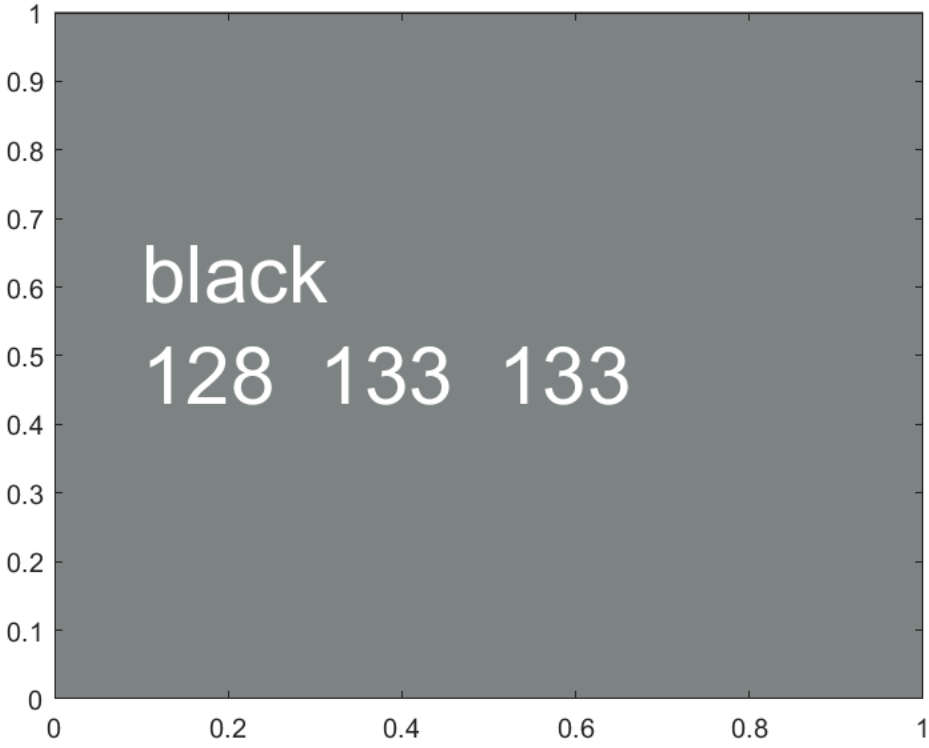
Good Colors to Use Lighter

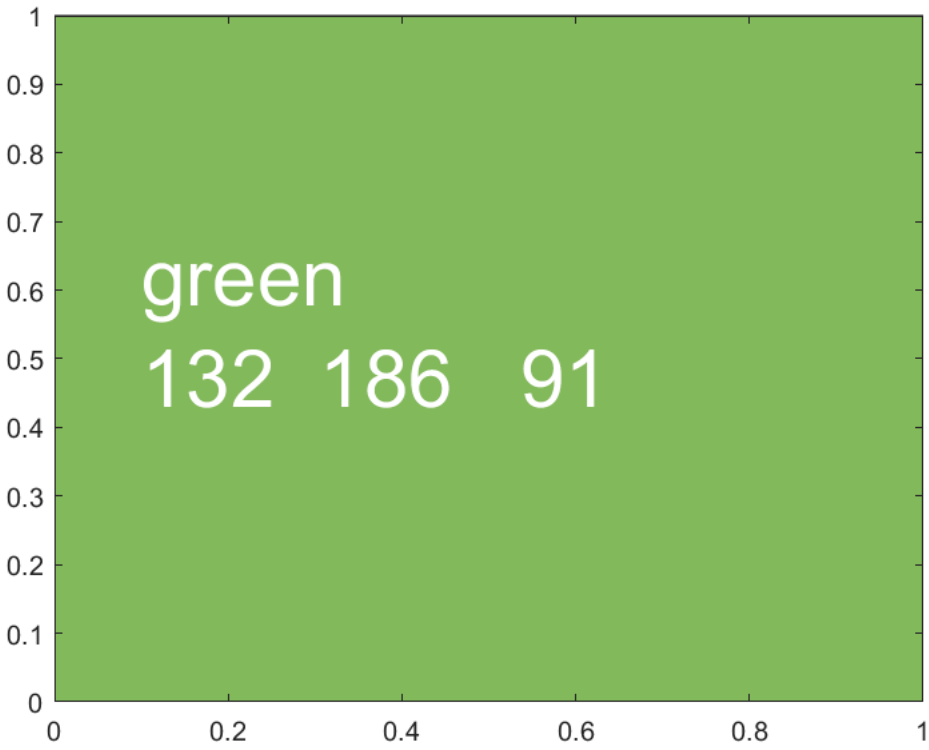
Nice ligher colors to use in matlab.

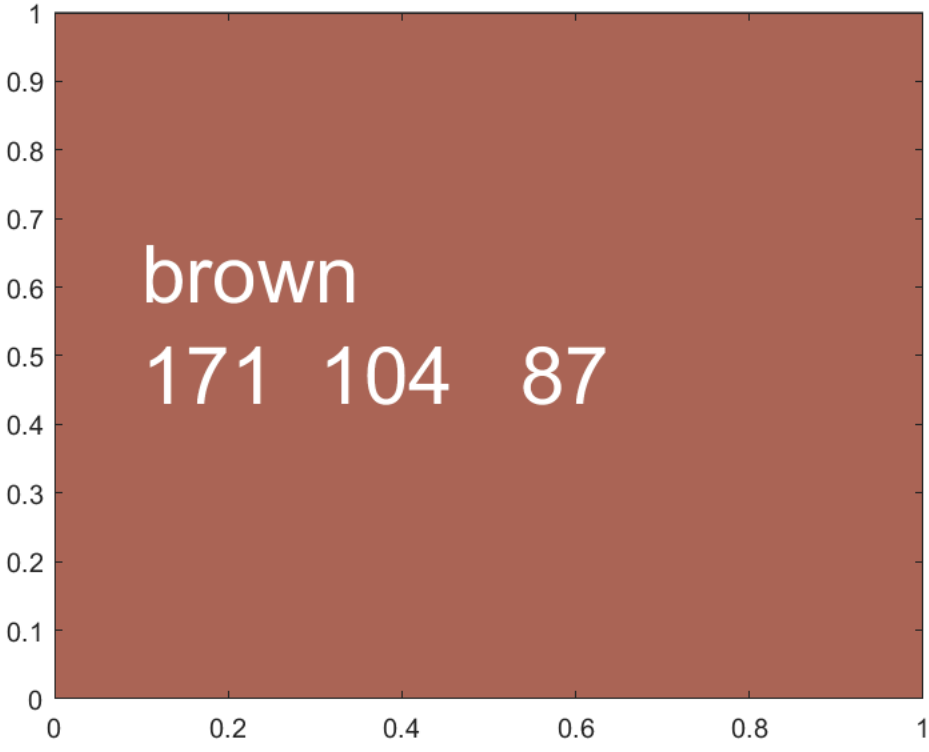
```
close all

blue = [114 147 203]./255;
red = [211 94 96]./255;
black = [128 133 133]./255;
green = [132 186 91]./255;
brown = [171 104 87]./255;
purple = [144 103 167]./255;
cl_colors = {blue, red, black, ...
             green, brown, purple};
cl_str_clr_names = ["blue", "red", "black", "green", "brown", "purple"];

for it_color=1:length(cl_colors)

    figure();
    x = [0 1 1 0];
    y = [0 0 1 1];
    fill(x, y, cl_colors{it_color});

    st_text = [cl_str_clr_names(it_color) num2str(round(cl_colors{it_color}*255))];
    hText = text(.10,.55, st_text);
    hText.Color = 'white';
    hText.FontSize = 30;
    snapnow;

end
```

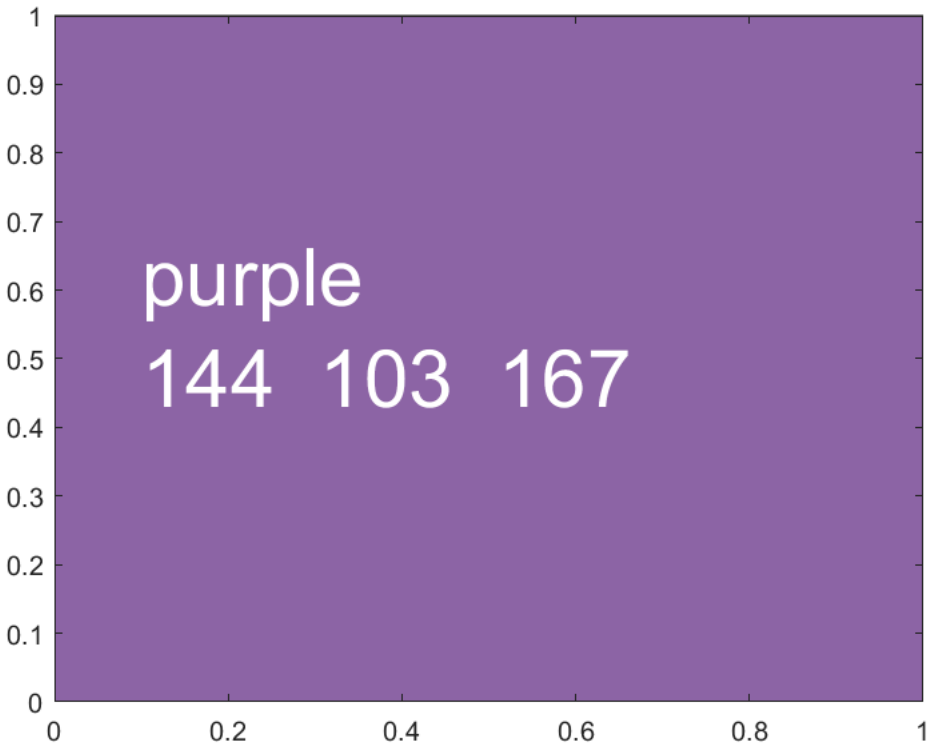



red
211 94 96
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
0.2
0.4
0.6
0.8
1


black
128 133 133
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0
0.2
0.4
0.6
0.8
1


green
132 186 91


brown
171 104 87



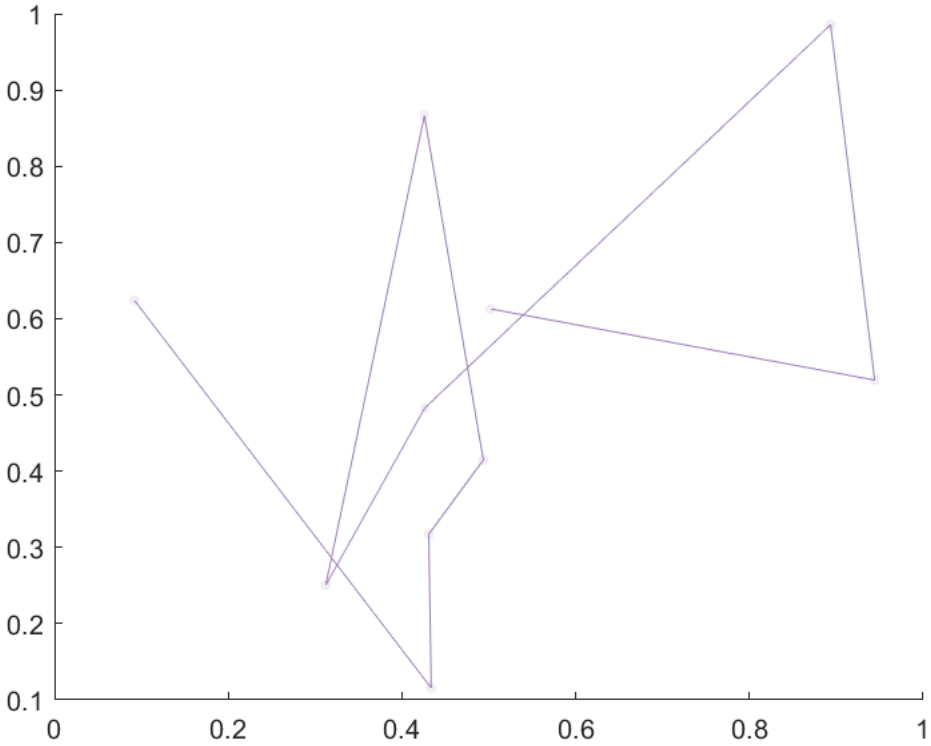
Matlab has a graphical tool for picking color

Enter uisetcolor pick color from new window and color values will appear uisetcolor

```
% Color Pickers
% uisetcolor
```

Picked Color use

```
figure();
hold on;

x = rand([10,1]);
y = rand([10,1]);

% Then can use for plot
plot(x,y,'Color',[.61 .51 .74]);

% Can use for Scatter
scatter(x, y, 10, ...
    'MarkerEdgeColor', [.61 .51 .74], 'MarkerFaceAlpha', 0.1, ...
    'MarkerFaceColor', [.61 .51 .74], 'MarkerEdgeAlpha', 0.1);
```


1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.2
0.4
0.6
0.8
1