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Matlab multi legends

Fromhelp legend ... Only one legend can be displayed per axis. So you can't do what you specifically asked for (which might take into account the confusing part :)). Another section notes that Legends for charts that contain groups of objects such as lineseries, barseries, contourgroups, and so on created by high-level plot commands such as plot, bar, outline, and so on, by default display a single legend entry for the entire group, regardless of the number of member objects it contains. However, you can customize those legends to display individual entries for all or the selected member objects and assign a unique DisplayName to one of them. You can control how groups are displayed in the legend by setting values for the Annotation and DisplayName properties with code. For information and examples of customizing legends in this way, see Controlling Legends in the matlab graphics documentation. Following the example for One Legend Entry for a Group of ObjectshDots=semilogy(snr,some1,'); hold onhLines=semilogy(snr,some1,'); hDotsGr = hggroup; hLinesGr= hggroup;set(hDots,'Parent',hDotsGr)set(hLines,'Parent',hLinesGr)set(get(hDotsGr,'Annotation'),'LegendInformation'),... 'IconDisplayStyle','on'); set(get(get(hLinesG,'Annotation'),'LegendInformation'),... 'IconDisplayStyle','on'); legend('Points','Solids')These are the foundations for creating the two legend entries; one for the solid the other for the dotted lines. If you need multiple labels, create a group for each for the other Grouping of Objects sample to reduce the entries in the LEGENDADDENDUM: I tried to do a demo using the above of the given example -- I made it work with the error but the final legend was still all six lines, not the five groupings as I tried to identify. I'll see if I can debug tonight; I've never tried it before angrily... ADDENDUM 2: I didn't have time to delve deep enough to finger the problems with the hggroup stuff, but another approach came to me... create fictitious lines solely for the purposes of legend -- try the following trivial demo to see the idea:hL=plot(randn(10,3)); hold onhD=plot(0.5*randn(10,3),'); hX=plot(nan(2,5)); set(hX(4:5),'color','k') set(hX(5),'linestyle','~') legend(hX,'Blue','Green','Red','Solid','Dotted','position','best') You can now label colors and line styles as desired that reflect actual chart data, but you have a certain number and can associate the desired style for the legend at a cost of just two additional data points each for the number of rows you want as legends and the task of setting their properties as desired. I'm sure you can get the same final visual result with the hggroup stuff, but it's certainly complex to try to work through the multiple layers of the maze to beat it in submission. Matlab by default only allows one legend per axis, so what you should do is create a fake/empty secondary axis to get your legend. Legend. help has a good example of this Code to produce the graph below is here x= 0:0.01:2*pi; y = sin(x); h1 = line(x, y,'Color','k','LineStyle','-'); ax1 = gca; set(ax1,'xlim',[0, 7], 'ylim',[-1, 1], 'XColor','k', 'YColor','k'); legend_ handle1 = legend(' sin'); ax2 = axes('Position',get(ax1,'Position'),... 'xlim',[0, 7], 'ylim',[-1,1],... 'Visible','off', 'Color','none'); h2 = row(pi/2, 1,'Color','r','Marker','o','Father',ax2); h3 = line(pi, 0,'Color','g','Marker','x','Father',ax2); legend_ handle2 = legend('peak', 'zero'); set(legend_handle2, 'Color', 'none'); I'm adapting the straight line to the data I have. I have 6 sets of data. My code adapts directly to each dataset. I created a loop to put all datasets with their attacks on top of each other, in a single graph for N0 = 1.6 f = polyval(T,Nl); Nfit = polyval(f,T); Figure(1) plot(T,Nl) retain; plot(T,Nfit,'-') hold on; grid on; endThe dataset is (T,Nl) for different values of N0=[1:6]. Now I need to create a legend that can display each line along with its fit. Can someone help me? Hi everyone, I'm trying to plot a figure with 3 curves. I need legends for figures with variables like legends. Here's my try. Please correct it. figure(), plot(x1, y1,'o', x2, y2, 'x', coeffs(1)+x2, coeffs(2)+y2,'+') legend('x1-y1, i-10:i', i=%d', i), ... x2, y2, 'x', 'DisplayName', sprintf('x2-y2, i+1:i+11, i=%d', i), ... coeffs(1)+x2, coeffs(2)+y2,'+', 'DisplayName', sprintf('interpolated, i=%d', i)); The isError error while using the Plot String argument is an unknown option. Thank you for your attention... I want to generate a legend for multiple textures on the same figure using 'hold on;'. I'm using a certain method that I found through googling but I'm not getting the expected results. Here's my code. sf = 1; lambda_b = 10; lambda_c = 10; lambda_u = 50; npointsb = randi(npointsb,2); xpocb = rand(npointsb,2); xb = pprocb(:,1);yb = pprocb(:,2);npointrc = poisson(lambda_c*sf)/ rocc = rand(npointrc,2);xc = pprocrc(:,1); yc = pprocrc(:,2);npointsu = poisson(lambda_u*sf);pp rocu = rand(npointsu,2);xu = pprocrc(:,1);yu = pprocrc(:,2); Figure(), [x1b,y1b] = voronoi(xb,yb); [x1c,y1c] = voronoi(xc,yc);p 1 = plot(x1b,y1b,'b','userdata','BS tessellation'); hold on;p2 = plot(x1c,y1c,'r','userdata','BS'); p 3 = plot(x1u,y1u,'g','userdata','User'); hold down;legend(get(gca,'children').get(get(gca,'children'),'userdata'));axis([0 1 0 1]); the result of this code is illustrated You can see that there are multiple entries and I suspect this is because the variables returned by the voronoi function are arrays and not vectors like the other variables. Looks like this is making the plot plot return a column vector of line objects and that's why I'm getting the multiple legend entries. How do I get around this issue and plot the correct legend by ignoring multiple entries? So I basically have this y function that varies over a nablax chosen number. I wrote a function that takes a chosen number of nablax and plots the y value corresponding to a given x-range, here it is:if truefunction nablaxplot(n)for i=1:nablax(i)=input(sprintf('Enter the value number nablax %d: ',i)); y(i,:) = 2.*x - 2.*x.^3 + x.^4 + (nablax(i)/6).*x.*(1-x).^3 ;end x=0:0.01:1; figurey1= 0*x; plot(x,y1,'black') hold the onplot(x,y) axis ([0 1 -0.2 2]) keep offendingThis function prints the specified number n of charts in a single chart - which is what I want! But is there a way to trace n legends that state what nablax value each chart has? Commented: Steinklopfel on November 15, 2017 I have although on the addition of 2 legends to my plots. One to display the entries that all charts share, and one that displays the unique entries for each plot. I found a solution with copyobj, (however that only seems to work with Matlab versions prior to 2014b or so on. Is there a solution for newer versions too? See the ColorOrder demo. You can get multiple colors.clc; close all; it is clear; workspace; fontSize = 18:numberOfDataSets = 20;x = 1:25;y = rand(numberOfDataSets, length(x));offsets = repmat([(1:numberOfDataSets)', [1, length(x)])];y = y + offsets; initialColorOrder = get(gca,'ColorOrder') subtrama(2, 1, 1);p lot(x,y,'LineWidth', 3);grid on;caption = sprintf('%d plots with the Initial Default Color Order (Note the repeating colors)', numberOfDataSets);title(caption, 'FontSize', fontSize);xlabel('X', 'FontSize', fontSize);ylabel('Y', 'FontSize', fontSize);set(gcf, 'units','normalized','outerposition',[0 0 1 1]); set(gcf,'name','Image Analysis Demo','numbertitle','off')choice = menu('Which ColorOrder do you want?', 'jet', 'random', 'hsv', 'hot', 'cool', 'spring', 'summer', ... 'autumn', 'winter', 'lines', 'gray', 'bone', 'copper', 'pink');subpreme(2, 1, 2);case change chosen 1 newDefaultColors = jet(numberOfDataSets); case 2 newDefaultColors = rand(numberOfDataSets, 3); case 3 newDefaultColors = hsv(numberOfDataSets); case 4 newDefaultColors = hot(numberOfDataSets); case 5 newDefaultColors = cool(numberOfDataSets); case 6 newDefaultColors = spring(numberOfDataSets); case 7 newDefaultColors = summer(numberOfDataSets); case 8 newDefaultColors = autumn(numberOfDataSets); case 9 newDefaultColors = winter(numberOfDataSets); case 10 newDefaultColors = rows(numberOfDataSets); case 11 newDefaultColors = gray(numberOfDataSets); case 12 newDefaultColors = case 13 newDefaultColors = copper(numberOfDataSets); in caso contrario, newDefaultColors = pink(numberOfDataSets);endset(gca, 'ColorOrder', 'ColorOrder', 'NextPlot', 'replacechildren');newColorOrder = get(gca,'ColorOrder')plot(x,y,'LineWidth', 3);grid on;caption = sprintf('%d track with new default color order', numberOfDataSets);title(caption, 'FontSize', fontSize);xlabel('X', 'FontSize', fontSize);ylabel('Y', 'FontSize', fontSize);msgbox('Done with ColorOrder demo!'); The LEGEND function creates only one legend object per axis. You can create multiple legends by using the COPYOBJ function to create a copy of a legend object. The following example shows how to create two legends corresponding to two sets of charts in a figure. Note that some of the properties of legend objects are lost due to copying.x = 1:10;y1 = x.*0.9;y2 = x.*1.1;y3 = 2*x + 3;y4 = x;y5 = 3*x;y6 = 4*x;hf1 = figure;ax1 = axes('Father',hf1);hold down;hplot = plot(x,y1, '-.x',x,y2, '-.+', x,y3, '.'); [hleg,hobjs,hlinpatches,legtxt] ... = legend(hplots,'y1','y2','y3','location','NorthWest');hleg_copy = copyobj(hleg,hf1); delete(hleg);hf2 = figure('visible','on');ax2 = axes('Parent',hf2,'visible','on');hold(ax2, 'on');set(hplots,'Parent',ax2);set(hleg_copy,'Parent',hf2);hplots2 = plot(x,y4, '-.k'*x,y5, '--k'*x,y6, 'k'); [hleg2,hobjs2,hlinpatches2,legtxt2] = ... legend(hplots2,'y4','y5','y6','location','NorthEast');hleg_copy2 = copyobj(hleg2,hf1); delete(hleg2); set(hleg_copy,'Tag','', 'ButtonDownFcn','', 'UserData', {}); set(hleg_copy2,'Tag','', 'ButtonDownFcn','', 'UserData', {});set(hplots,'Parent',ax1);set(hplots2,'Parent', ax1);set(hleg_copy,'Parent',hf1);xlabel('X-Data');close(hf2); for more information about the functions used in this example run the following command at the matlab command prompt

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