Subject: How do I create a plot which looks something like a Matrix Plot in IDL ?
Posted by James[3] on Sat, 02 Jan 2016 17:31:45 GMT
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I have two dataset scenarios. Each scenario is an output from a model and each scenario contains an array of values in the x (horizontal) axis and 10 arrays of values in the y (vertical) axis. I am trying to create a plot which looks like this
http://www.mathworks.com/matlabcentral/answers/uploaded_file s/42412/3.png
I have been looking for a plot function in ENVI IDL which can help make these plots but so far I did not find any. Can anybody help? Even better if someone can suggest a better graphical/visualization/plot option to display these two multivariate datasets so that the differences are conspicuous enough. With line graphs the visualization is not clear enough because the same values overlap on top of each other.

Following are my scenarios.

SCENARIO A

x= [0, 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1]
y1= [0, 0, 0.02, 0.01, 0, 0, 0, 0, 0, 0, 0, 0]
y2= [0.01, 0, 0.05, 0.1, 0.19, 0.6, 0.87, 1, 1, 1, 1, 1]
y3= [0.02, 0.05, 0.2, 0.69, 0.99, 1, 1, 1, 1, 1, 1, 1]
y4= [0.02, 0.12, 0.25, 0.97, 1, 1, 1, 1, 1, 1, 1, 1]
y5= [0, 0.12, 0.68, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y6= [0, 0.2, 0.84, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y7= [0.01, 0.49, 0.97, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y8= [0.01, 0.51, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y9= [0.01, 0.82, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y10= [0, 0.84, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]

SCENARIO B

x= [0, 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1]
y1= [0.01, 0.03, 0.01, 0, 0.01, 0, 0, 0, 0, 0, 0, 0]
y2= [0.01, 0.07, 0.04, 0.13, 0.23, 0.5, 0.92, 1, 1, 1, 1, 1]
y3= [0.01, 0.03, 0.2, 0.61, 0.99, 1, 1, 1, 1, 1, 1, 1]
y4= [0.02, 0.06, 0.4, 0.99, 1, 1, 1, 1, 1, 1, 1, 1]
y5= [0, 0.24, 0.61, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y6= [0, 0.26, 0.88, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y7= [0, 0.51, 0.99, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y8= [0.02, 0.64, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y9= [0.02, 0.87, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]
y10= [0.01, 0.94, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]