Graphing ROC Curves With Excel

ROC Curve Graph

Diagonal		% Signal	Stimulus S	peed 1.0	Stimulus S	peed 2.5
FA	HIT		FA	Hit	FA	Hit
0	0	10%	0.04	0.24	0.01	0.1
1	1	50%	0.3	0.69	0.12	0.87
		90%	0.65	0.92	0.8	0.97

Select Data for Diagonal

Diagonal		% Signal	Stimulus S	peed 1.0	Stimulus S	peed 2.5
FA	HIT		FA	Hit	FA	Hit
0	0	10%	0.04	0.24	0.01	0.1
1	1	50%	0.3	0.69	0.12	0.87
		90%	0.65	0.92	0.8	0.97



Insert a Line Chart



Select "Scatter with Straight Lines and Markers" Highlighted



The design tab should come up immediately is not select it. Make sure you have selected the chart.

Remove The Data It Thinks it Has





Add the X-Axis Data (False Alarms)





Highlight the Hit data under the Diagonal heading



This is what you have

After clicking "OK"



Now add the slow line.

Click Add and repeat the steps to add your first ROC curve.



Add your second ROC Curve



Click "OK" twice, next it is time to edit the graph to make it look right.





After selecting this option, type "False Alarms" and hit return.

Add Y-Axis Label

Home Ins	ert Page	Layout I	Formulas	Data F	Review V	iew D	esign	Layout	Format	
Value) Axis Tir ▼Image: PictureSelectionImage: PictureMatch StyleImage: PictureMatch StyleImage: PictureSelectionInsert		Axis Titles • Legend Data Data Legend Data Data Legend S • Table • Axis Primary <u>H</u> orizontal Axis Title •		xes Gridl	lines	Plot Area + 1 3-1 Backgro	aart Wall ▼ aart Floor ▼ D Rotation pund	Trendlin		
▼ (* fx False			In Primary Vertical Axis Title ►			None				
B	С	D	E	F	G	Ľ	Do not display an Axis litle			
						Rotated Title · Display Rotated Axis Title and resize chart			ize	
						Vertical Title				
Diagonal Stimulus d		uration 20 Stimulus Duration 150			Display Axis litle with vertical text and resize chart				and	
FA	HIT	FA	Hit	FA	Hit	Horizontal Title				
	0 0	0.04	0.24	0.01	0.1		Display chart	/ Axis Title hori	izontally and	resize
	1 1	0.3	0.69	0.12	0.87	Mo	re Prima	arv Vertical Axi	is Title Optio	ns
		0.65	0.92	0.8	0.97					

After selecting this option, type "Hits" and hit return.



Select Format Axis





Set minimum and maximum to fixed and set minimum value to 0 and maximum value to 1.0. Repeat for Yaxis.

	2									
Format Axis										
Axis Options	Axis Options									
Number	Minimum: O Auto O Fixed 0.0									
Fill	Maximum: O Auto O Fixed 1.0									
Line Color	Major unit: Auto Fixed 0.5									
Line Style	Minor unit: Auto Fixed 0.1									
Shadow	Values in reverse order									
Glow and Soft Edges	Logarithmic scale Base: 10									
3-D Format	Display units: None Show display units label on chart									
Alignment	Major tick mark type: Outside 💌									
	Minor tick mark type: None									
	Axis labels: Next to Axis									
	Vertical axis crosses:									
	Avis value: 0.0									
	Maximum axis value									
	Close									



