

Dynamic Data for teaching mono-variate statistics



On a 1D Statistics page using POINT mode

To prepare for this

a. in "Axes" -> "Edit Axes", set scales accordingly eg x: 0, 20 pips=1 and y: 0 to 25 pips = 5

lit Axes	Settings						?
Ranges	Labels	Options	Appearance				
Rang	jes			Spacing			
	Minimu	im M	aximum	Auto I	Numbers	Auto	Pips
⇒ X:	0	20)	⇒ x: 🗹 5		1	
n y:	0	25	;	nt y: 🗹 2	5	5	

b. in "Axes" -> "Snap Settings" set to x-snap = 1 (default is 0.1). y-snap no change x-snaps are relative to the grid pip setting

Ec	dit Snap Settin	igs		? ×	
	x-Snap		y-Snap		
	○×0.1	○ × 2	○×0.1	○ × 2	
	○×0.5	○ × 10	○×0.5	() × 10	
	• × 1	Custom	• × 1	O Custom	
	Multiply Fac	tor:	Multiply Fac	tor:	

In POINT mode, click away and points build up on the x-axis to form a DYNAMIC DOT PLOT.



To add dependent objects, eg a Box Plot, use CTRL-A to select all the points (or do a 'marquee' select with the mouse) then right-click "Convert to Data Set"

Any subsequent dragging of points around will affect the box plot accordingly.

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On a 1D Statistics page with entered Raw Data

In "Enter Raw Data": Either type/pastr in your own data Or create a SAMPLE – eg Select Distribution: Binomial Edit Distribution: n = 10, p = 0.25 Create sample: N = 100

Data Set					
Name: 100 x Bin	100 x Binomial (10, 0.25)				
Data		Scale Options			
x	^	2x-3	Scale-x		
6	_	Sample Data			
<u>6</u>		Sample Size, N: 1	00		
5		Select Distrib.	Edit Distrib.		
9		Binomial	Create Sample		
6 5	-	Column Header			
4		Use as Data Set Name			
6					
3	- ×	Memory	Recall		
Import (csv)		Sort by x	Clear Data		
Export (csv)		⊂ Create Dynamic Dot Plot n≤1000			

Enter Data Set name, eg "100 x Binomial (10, 0.25)" Untick "Use as x-axis" Tick "Create Dynamic Dot Plot



Enter Probability Distribution: Normal – Fit to Data "Axes" -> "Snap Settings": Set x- and y-snaps to 1 Drag points around and the normal will readjust