
Subject: Re: probability scale on 2D line plot?

Posted by [Peter Mason](#) on Thu, 10 Dec 1998 08:00:00 GMT

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Charlotte DeMott wrote:

> Does anyone know how to create a "probability axis" for a
> line plot? This is an axis that runs from nearly zero to
> nearly 1, that is stretched at each end, such that the
> cumulative distribution of a normal population appears as a
> straight line.

I think that you can use IDL's GAUSSINT() function to do this.
e.g., $X = \text{GAUSSINT}((\text{findgen}(N) - (N - 1.0) * 0.5) / ((N - 1.0) / (SD * 2.0)))$ will
give you what you want over +/- SD standard deviations (N points
worth). You would then use such an X vector in your plot, instead of
just a straight findgen-style X vector.

Peter Mason
