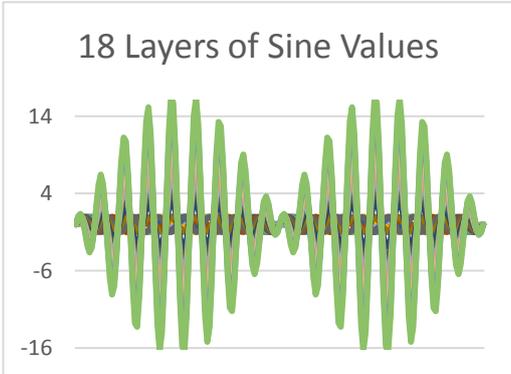
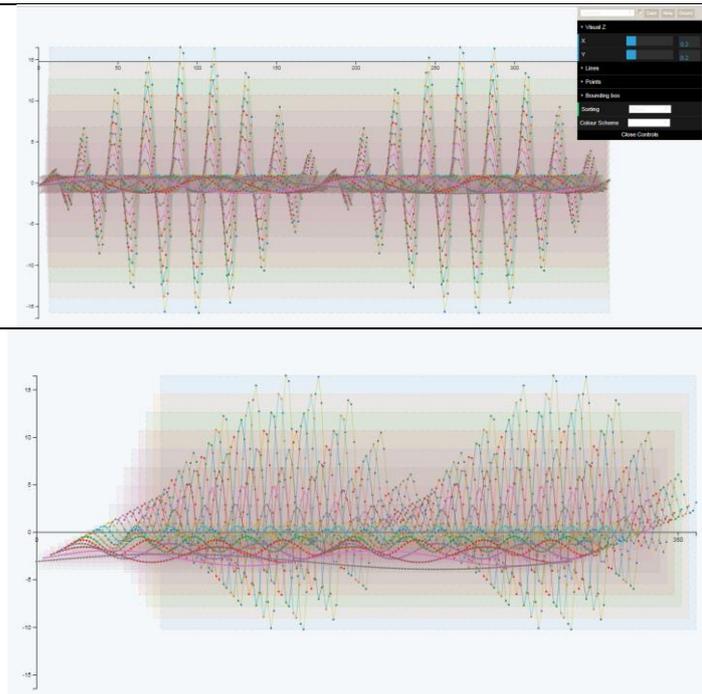


Generic Visualisation Style looking for Multi-Dimensional Data Explorations An Invitation to MSc Students to Gather, Differentiate and Learn from Layering mD Data

In December 2012 I posted [I've turned the mathematical curse of dimensionality into the Software Solution of Layering Complex Data](#)¹ on an old blog.

More recently I met a developer who liked the challenge of turning my offline prototype into an online SMART KNOWLEDGE ENGINE.

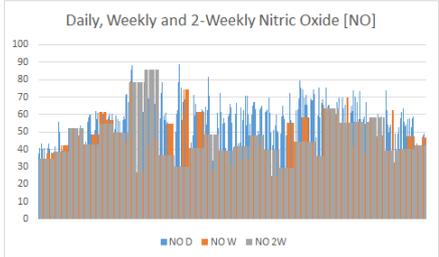
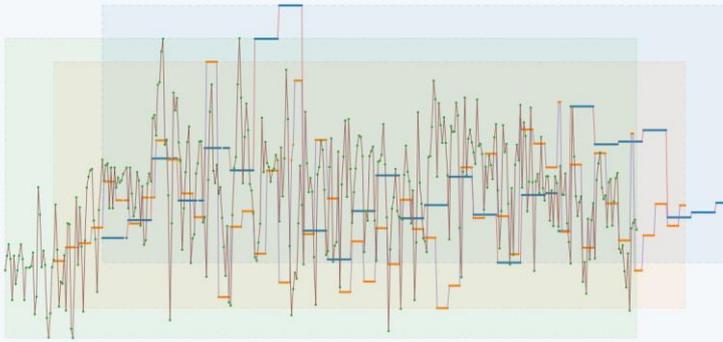
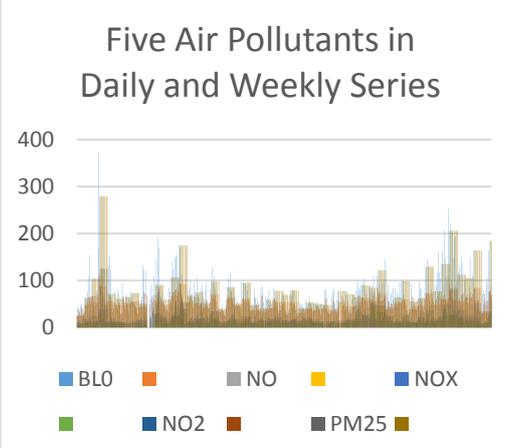
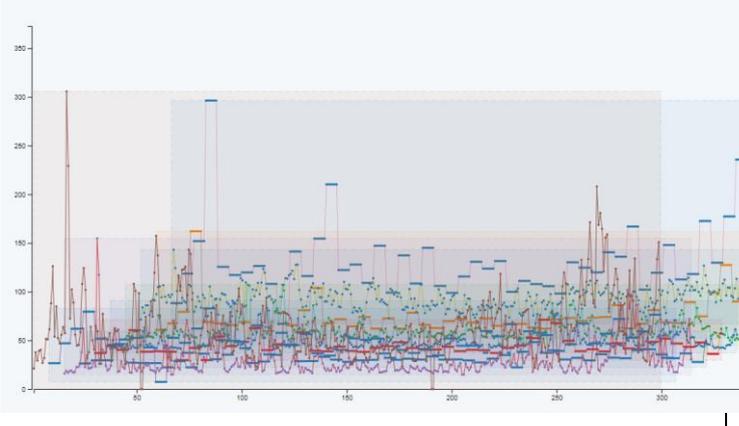
It is now work in progress and has produced these screenshots of 'layering' multi-dimensional data:

<p>In Visual 3D² we unclutter into Layers³ the series that Excel draws on top of each other</p>	
 <p>18 Layers of Sine Values</p>	
<p><i>Excel</i></p>	<p><i>The same data layered – with controls to vary 'visual comparability'</i></p>

¹ <https://3dmetrics.me.uk/2012/12/05/ive-turned-the-curse-of-dimensionality-into-the-blessing-of-layering-complex-data/>

² <https://smartknowledge.space/investing/compare-contrast/layering-vs-excel-charts/>

³ <https://smartknowledge.space/investing/compare-contrast/layering-vs-excel-charts/>

	
<p><i>Three air pollutants in daily, weekly and 2-weekly series</i></p>	<p><i>The same data layered with controls to 'compare and contrast' visually</i></p>
	
<p><i>Five air pollutants in daily and weekly series</i></p>	<p><i>The same data in ten layers where the colour scheme can be varied</i></p>

The challenges now are

1. To find [compelling data sets](#) illustrating insights that could not have been gained from using conventional visualisation methods;
2. To describe not only the data sets used and their source, but, above all, the problems they address, the [insights gained](#) and their [value](#) – whether [theoretical](#), [practical](#), for policy, grant writing or other purposes.

The input data must simply consist of a single spreadsheet which can also contain a chart of the input. Data sets abound in the public domain, but UCL may have its own recommendations and preferences.

As a pre-start-up SME, we are not in a position to provide any finance. But as the mathematician and software designer, I am available to supervise any time and liaise with my developer, when needed.

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