Extruding Common 2D Charts with Timeseries Data:

**Histogram**

**Scatterplot (wormplot)**

**Bar chart**

**Line chart**

**Why?**

Financial experts rarely use 3D charts. They do use the above 2D point-in-time charts frequently, and they use timeseries charts even more: Table 1.

**How?**

No VR/AR/3D glasses. Always retain 2D chart in front plane, 3D appears on rotate, plus visual depth cues. Restraining camera from unexpected viewpoints, plus snap to timeseries side view and heatmap top view (far right).

**So what?**

3Difying (a drag interaction from 2D to 3D or back) most popular interaction (40%). Replaced 3 prior unsuccessful ambient vis. Funded scope expanded from 2 to 5 vis, plus CAVE & mobile and 3D printing (far right).