Business Intelligence

Dan Appleman danappleman.com @danappleman







There's value in that data somewhere...

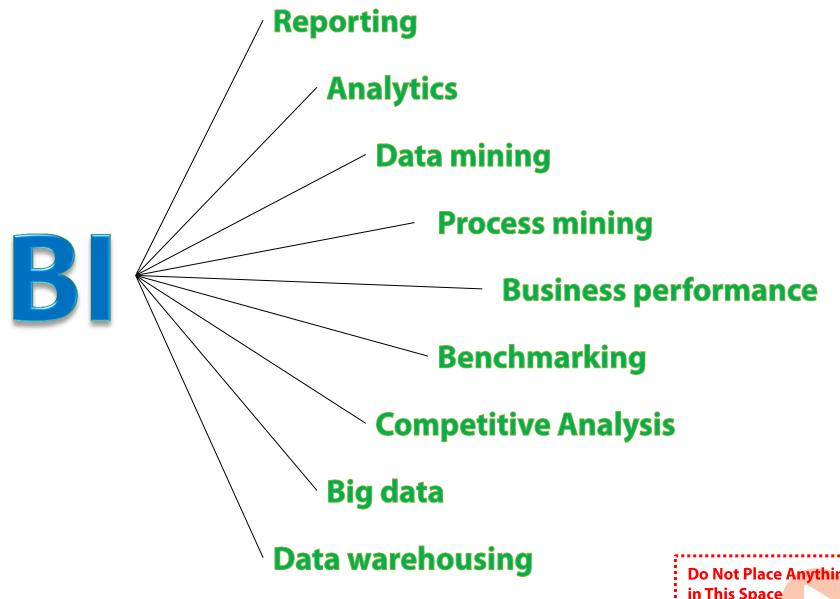
...isn't there?

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Apple vs Samsung



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What's Going On?

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		U.S. Historical IPod Touch Sales	
		IPod Touch Sales	IPod Touch Revenue
Year	Quarter		
2007	1		
	2		
	3	172	57
	4	1764	523
2008	1	738	242
	2	825	254
	3	1204	317
	4	3181	737
2009	1	1631	392
	2	1942	438
	3	2100	457
	4	4961	1001
2010	1	2647	558
	2	2441	493
	3	2501	496
	4	5689	1263
2011	1	2293	547
	2	1881	420
	3	1588	342
	4	5175	993
2012	1	2028	411
	2	1791	354

Unit sales in thousands
Revenue in millions

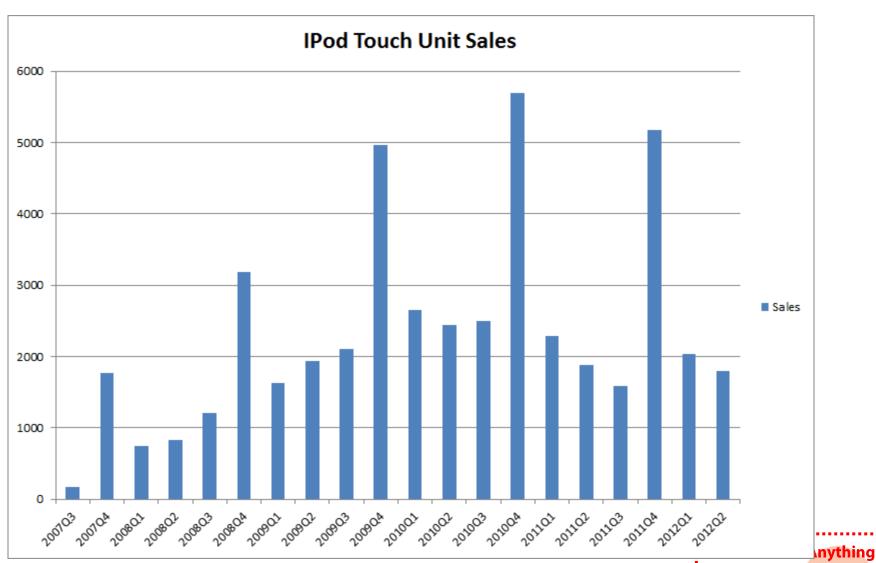
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What Should We Do?

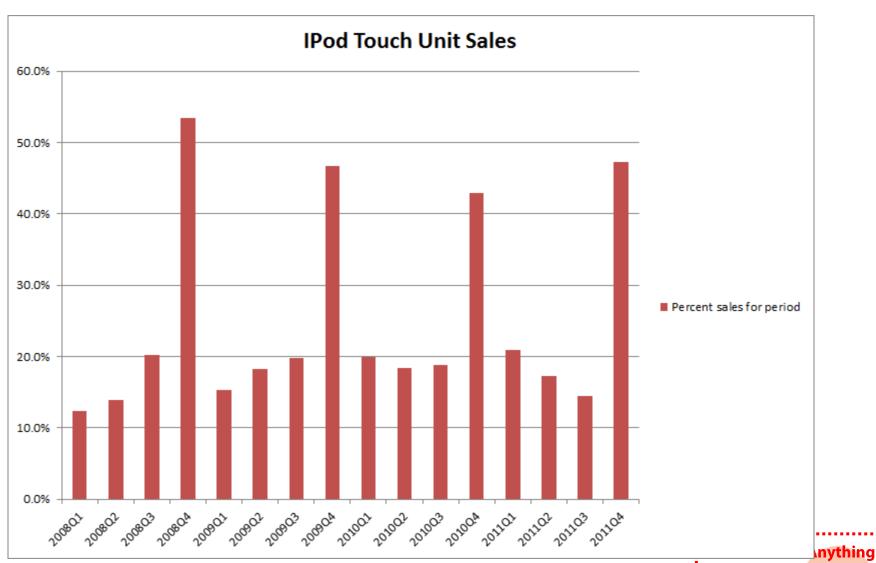
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What's Going On?

What Should We Do?

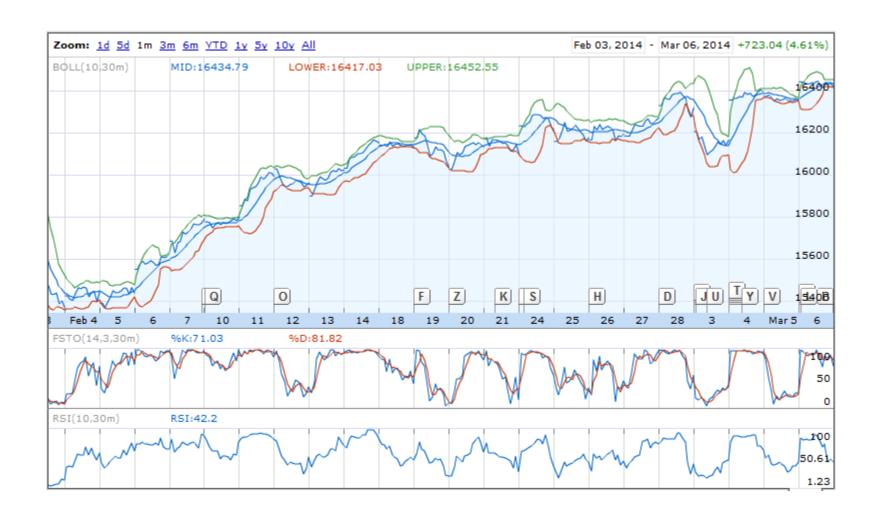
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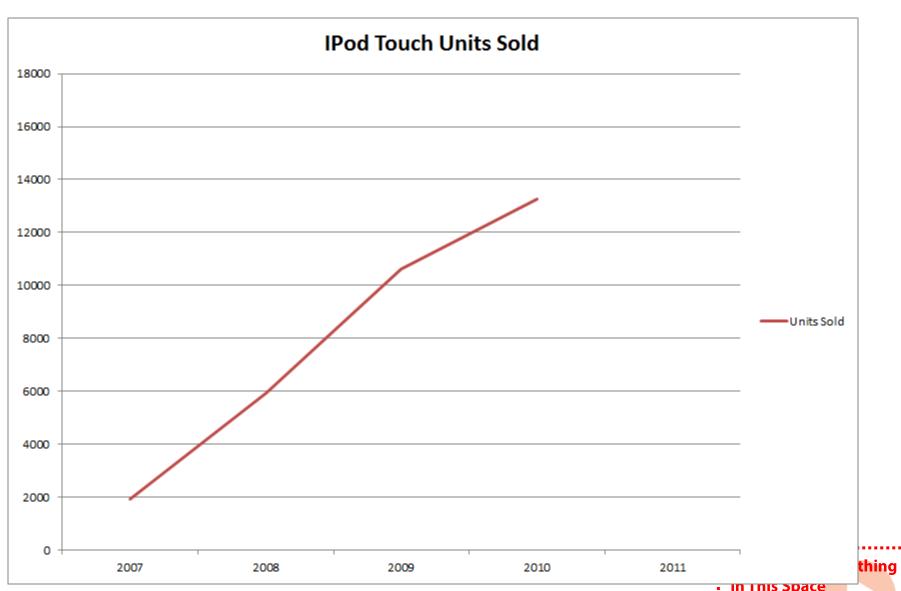
What Happens Next?

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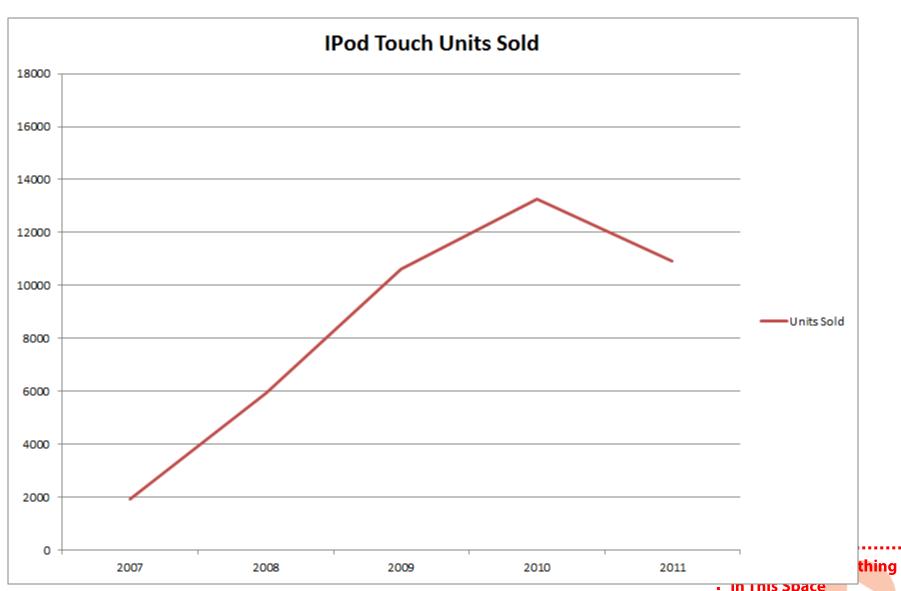


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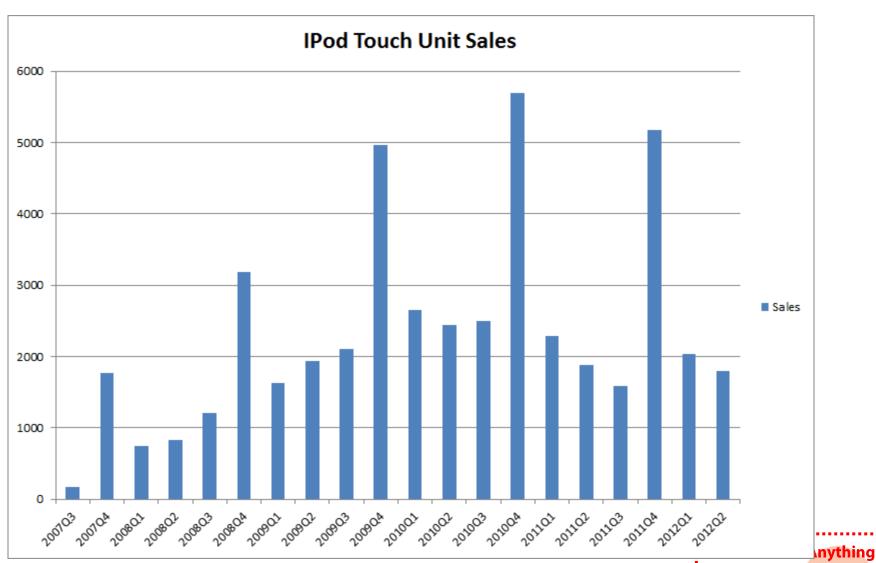
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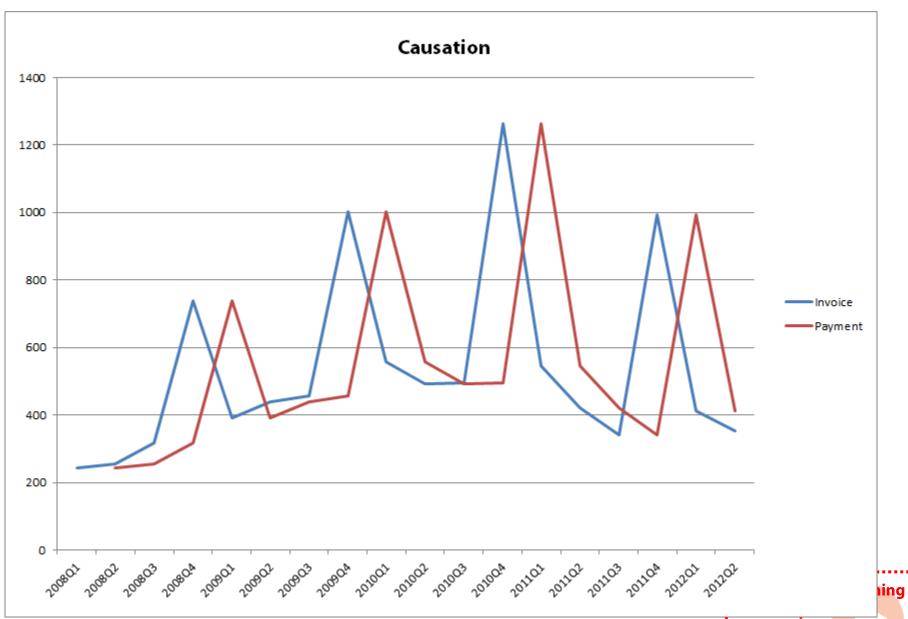
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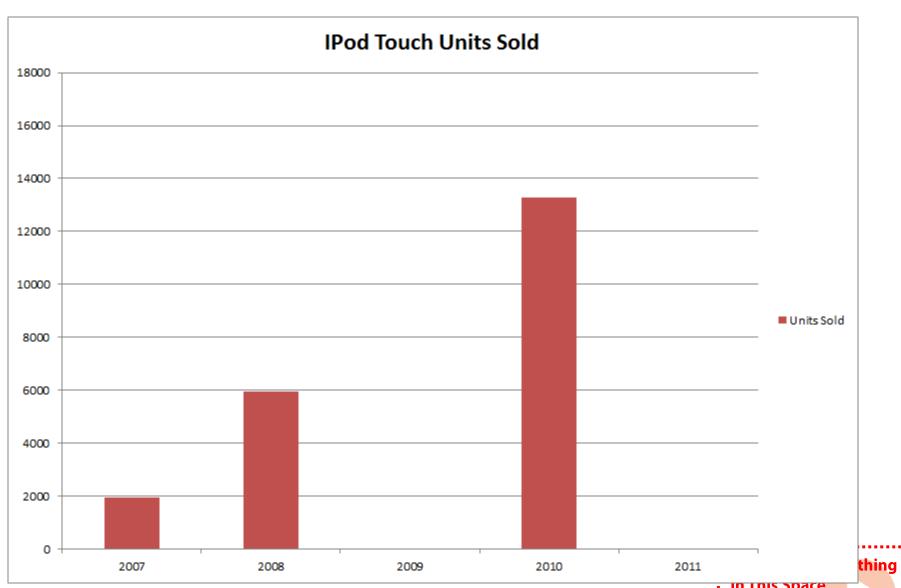


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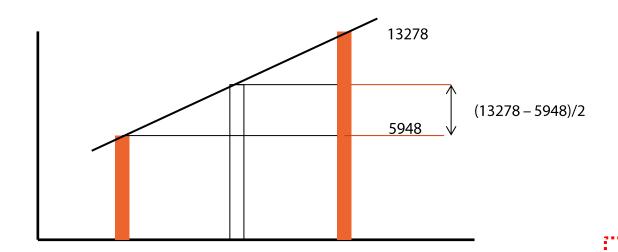
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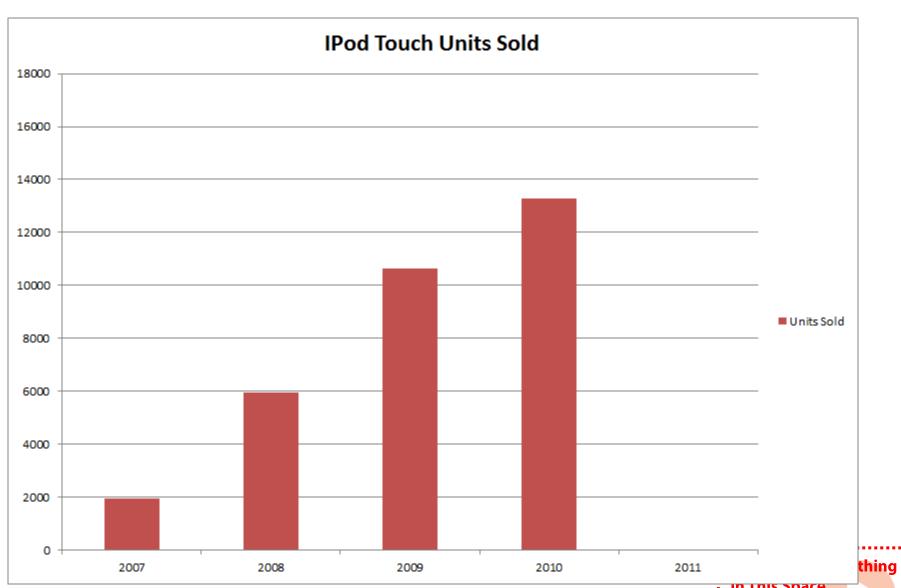
Interpolation

- 2008 sales = 5948K
- 2010 sales = 13278K
- Interpolated 2009 sales = (13278 5948)/2 + 5948 = 9613K
- Actual 2009 sales = 10634K



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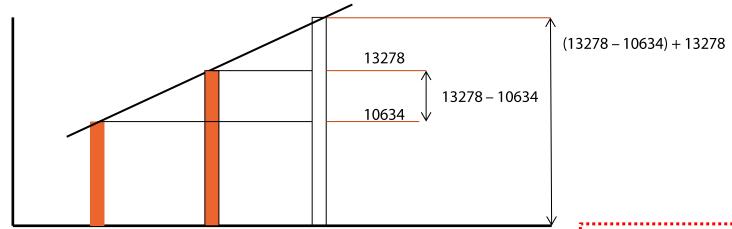


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Extrapolation

- 2009 sales = 10634K
- 2010 sales = 13278K
- Interpolated 2011 sales = (13278 10634) + 13278 = 15922K
- Actual 2011 sales = 10937K

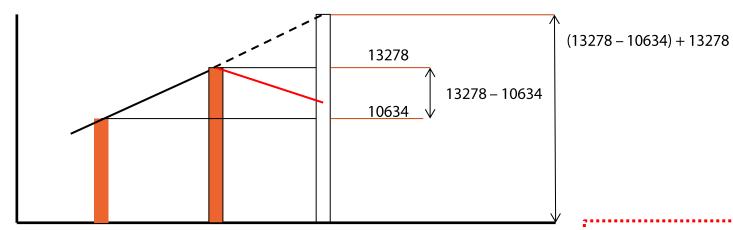


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clearance











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Neatness Counts



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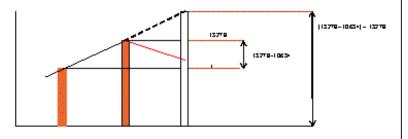
Extrapolation

Dan Appleman Math 1A 2nd Period

Exellent work!

Extrapolation involves trying to predict a data point that is outsid of the range of existing data.

Let's say Apple had suppressed the sales data from 2011. If you were to extrapolate the sales of IPod touch from 2009 to 2011 you might just sketch it out, or you might do some simple math. A data scientists might use more complex math to fit an exponential or quadratic curve onto the existing data. But in any of these cases, the results would be disastrously wrong.



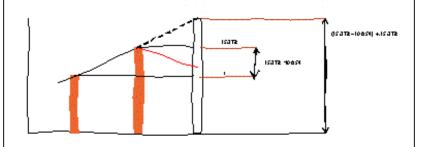
Extrapolation

Dan Appleman Math IA 2nd Períod

SEE ME AFTER CLASS

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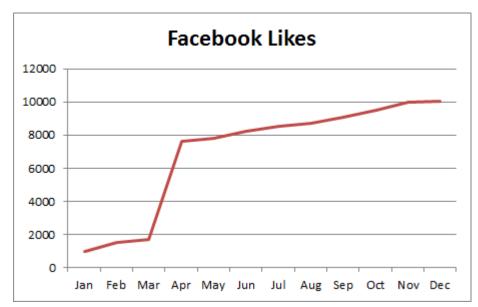
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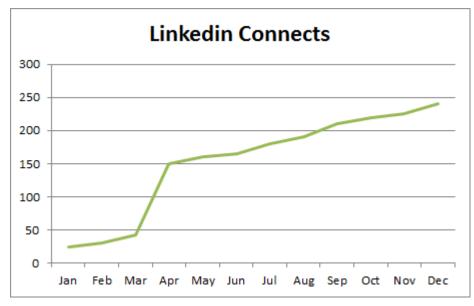
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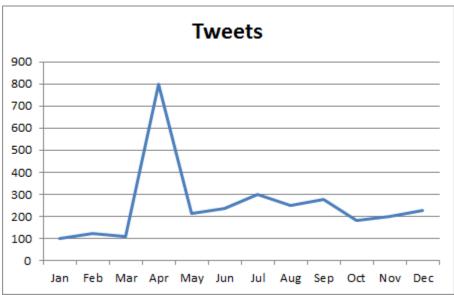
Is Our Social Media Effective?

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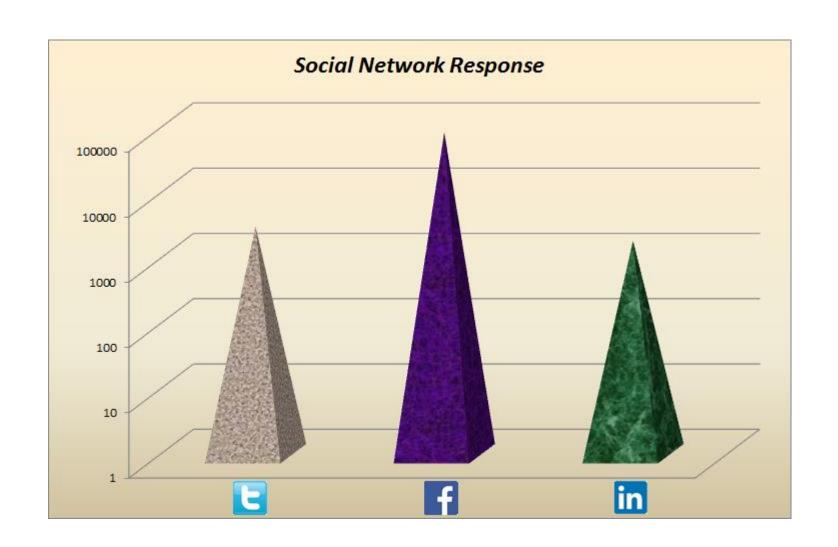
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- Always start with the story you want to tell or the question you want to ask
- 2. Have the contrast address the story or question
- 3. Don't forget the data
- 4. Don't make people think

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