

It's a mind-set, not a skill-set. Brilliance helps, but is not required. Instead, adopt these mantras: be stubborn, bossy, lazy, **obsessive**, cynical, plodding, and importunate. Why? So you can use IT as a tool to do cool stuff...

Lotus added charting to the spreadsheet concept.

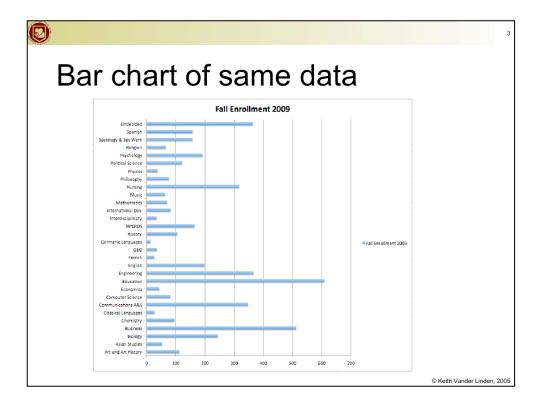
Sometimes a picture is worth 1000 words.

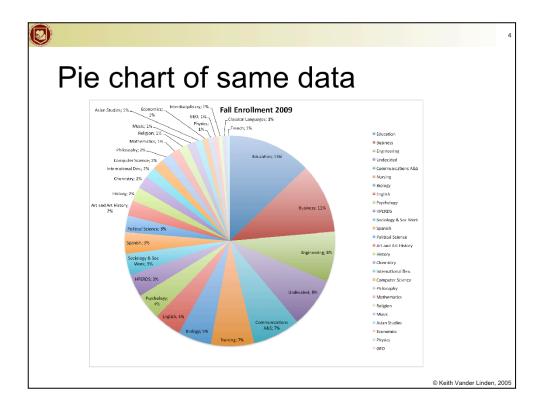
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1	Major	Fall Enrollment 2009
2		112
3	Asian Studies	53
4	Biology	243
5	Business	511
6	Chemistry	95
7	Classical Languages	27
8	Communications A&S	347
9	Computer Science	81
	Economics	44
	Education	608
	Engineering	366
	English	198
	French	26
	GEO	35
	Germanic Languages	13
	History	104
	HPERDS	164
	Interdisciplinary	33
	International Dev.	82
	Mathematics	70
	Music	62
	Nursing	316
	Philosophy	76
25		37
	Political Science	121
	Psychology	191
	Religion	65
	Sociology & Soc Work	157
	Spanish	157
	Undecided	364
32	Total	4758

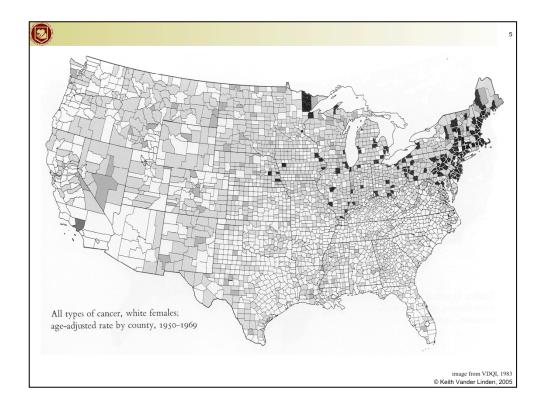
This simple bar chart is much more clear than the raw numbers in the upper left.

Show them how to build this chart.

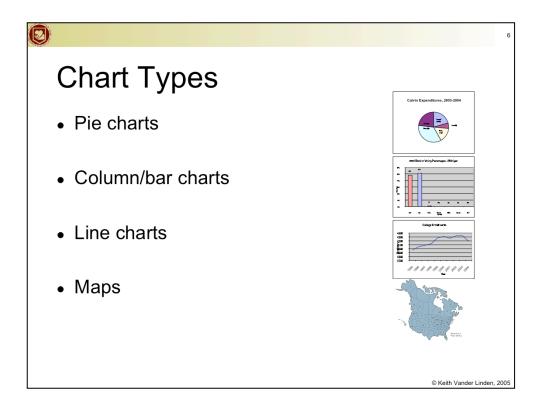
People are visually oriented, making the chart much easier to understand (provided it is illustrating the right thing the right way).







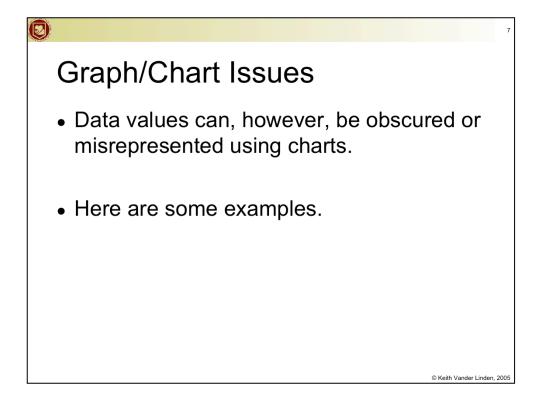
Tufte, page17 top here This chart displays 21,000 data points very very well.



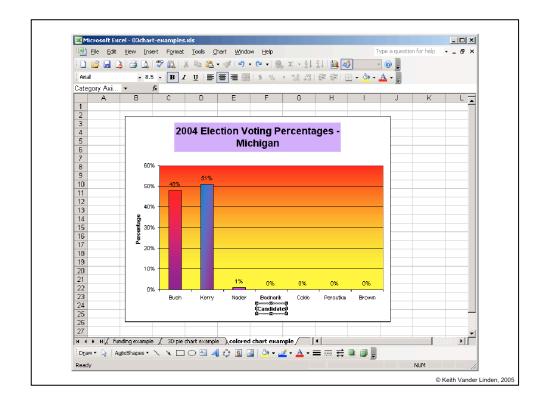
Pie charts - proportional relationships

Column/bar charts - relative numeric information (rather than just percentages) Line charts - change in values over time

Maps - geographical information (obviously), people are very good at noting spatial relationships.

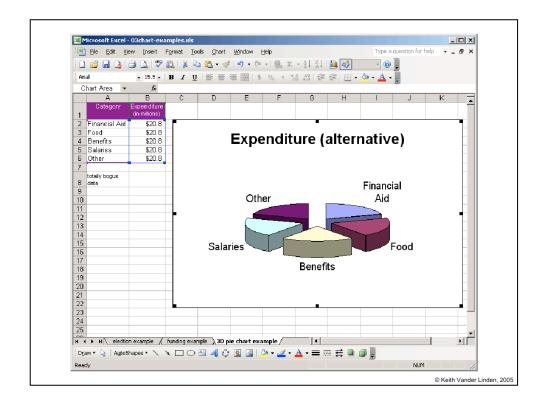


Lotus added charting to the spreadsheet concept. Sometimes a picture is worth 1000 lies.



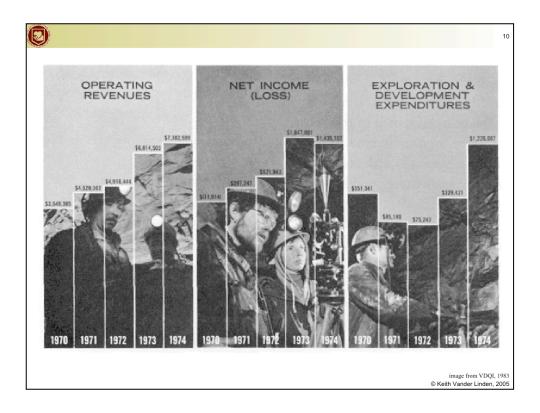
These colors obscure the real message of the chart, and would basically make it hard to photocopy a legible version.

Don't be cute with your slides - KISS!



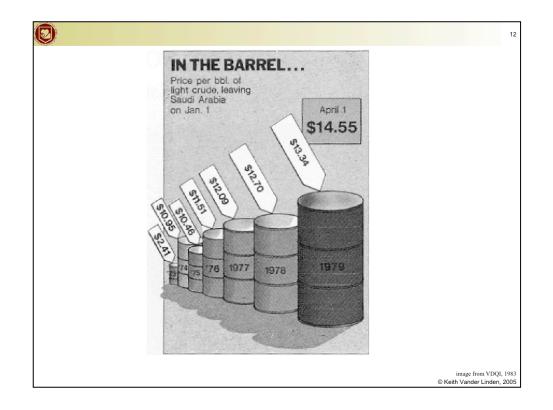
This chart misrepresents the data values in a subtle way - 3D pie charts are evil. See if they can guess what the real proportion is here.

Don't be cute with your slides - KISS!





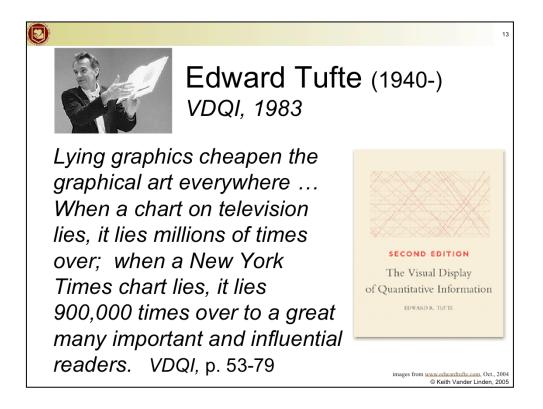
This chart masks the net loss in 1970. You're looking at the pictures and not at the y-axis manipulations.



Tufte, page 62

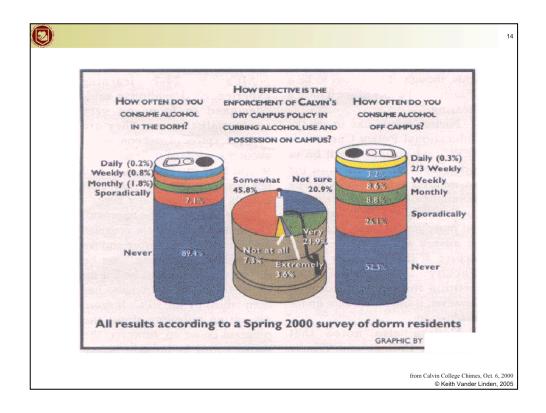
this has a high lie factor with a political intent.

The data variation of 454% is depicted with a surface area variation of 4280% and a volume variation of 27000%



See http://www.edwardtufte.com/tufte/

Vic says that the image on the cover of Tufte's book shows a part of the British train schedule.



Note the differing scales on the can at left from can at right.

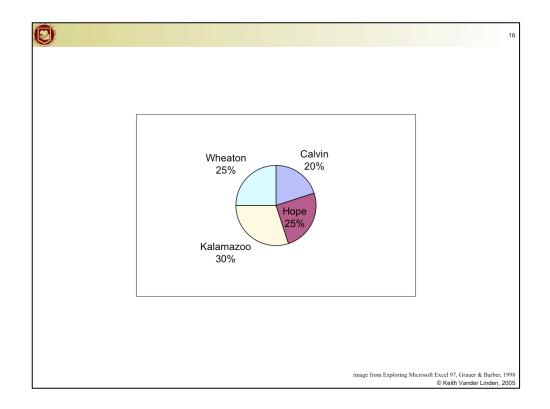
•L can - approx 25% of can is taken up in about 10% of data, making it seem that there's more consumption on campus than there really is.

•R can - blue 3.2% is same size as orange 8.6%

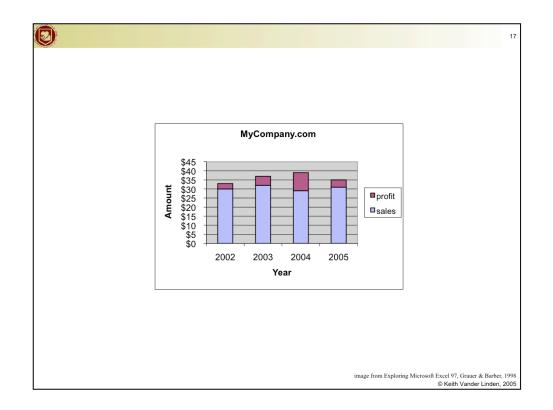
It seems that they've modified the data size in order to get the words on the page properly...

What chart would you really use to display this sort of data?

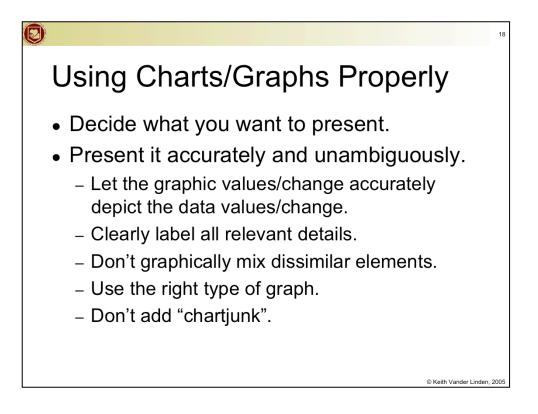
(These notes from Brenda Vander Linden)



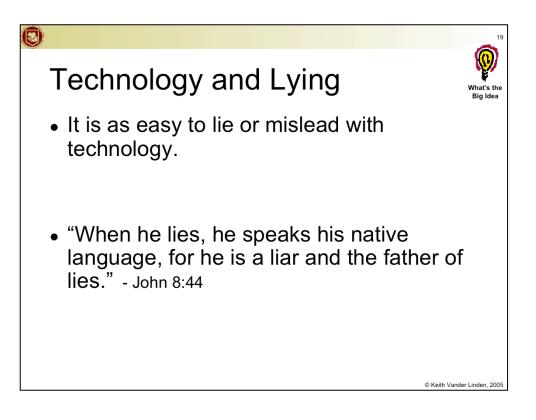
Based on Grauer, figure 14.4, page 176 Didn't label the units! Is this percentage of dumb instructors or what?



Based on Grauer, figure 4.15B, page 177 Added dissimilar quantities



Be honest. If necessary, have other people look at your work to catch any slant you may have.



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