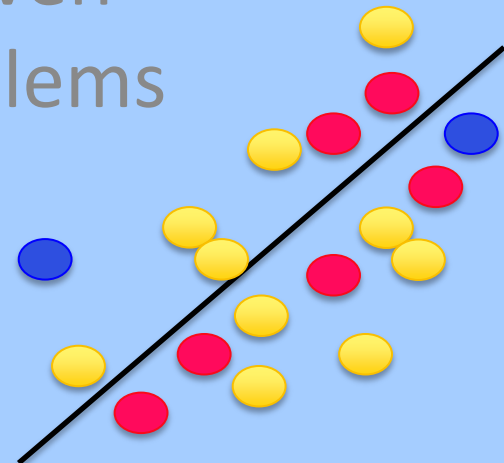


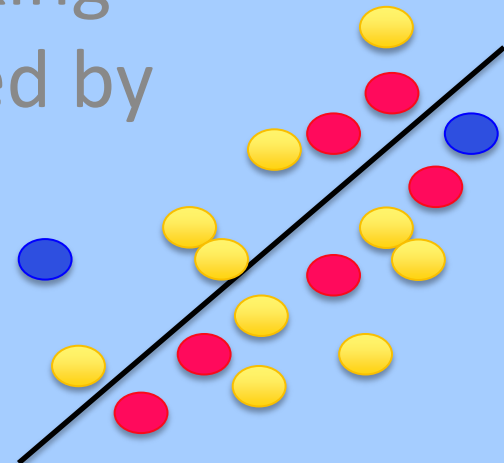
Data Visualization in Education Summit #edvis

- Good visualizations help make sense of data with great volume, velocity and variety.
- We define and extend the new science of visual analytics driven by real-world, real-scale problems of engaged partners.



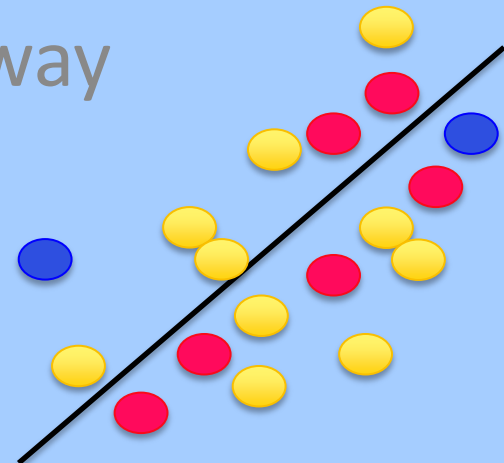
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- Big Data not just about volume, but very rapid flow and large number of variables.
- Start with the problem that needs to be solved. Then begin looking at data and how it will be used by end user.



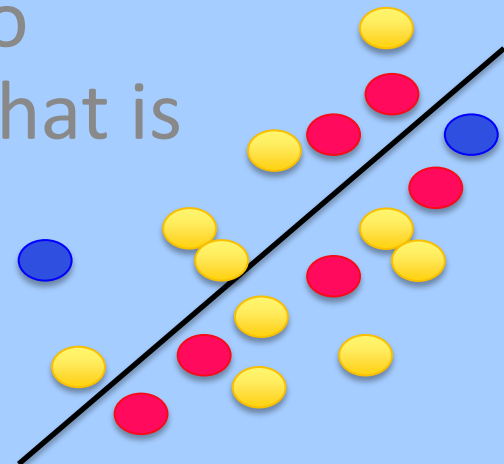
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- Larry Johnson: not only do we need to create great science, we also need to create an awareness of why that is important.
- What's the purpose of higher ed - is it to prepare people for the workforce? Are we moving away from liberal arts education?



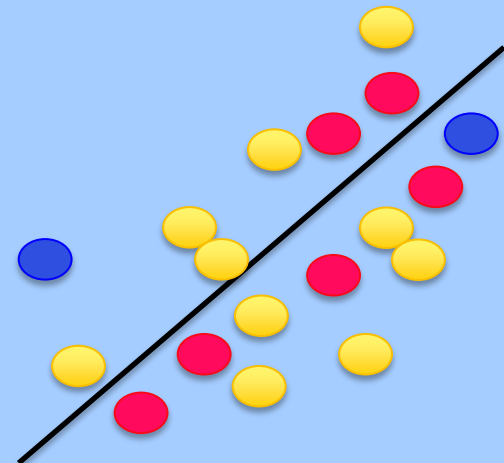
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- The future's already here - it's just not very evenly distributed. - writer William Gibson (Think about this in terms of education and data.)
- Not only do we need to create great science, we also need to create an awareness of why that is important.



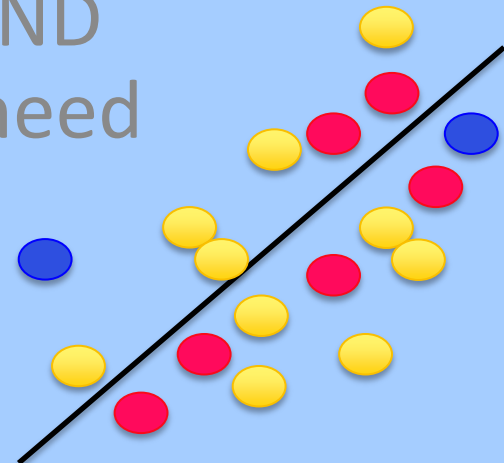
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- Data visualization: need to balance human cognition and automated analysis. Interactivity is key.
- Big Data is not just about volume, but very rapid flow and large number of variables.



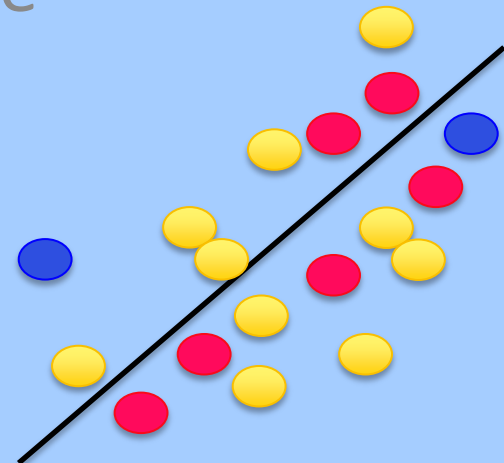
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- The first step in trying to make a difference in education is to understand what the state of the art is, and go from there!
- You need the data that drives your choices to be really current AND available to the people who need it.



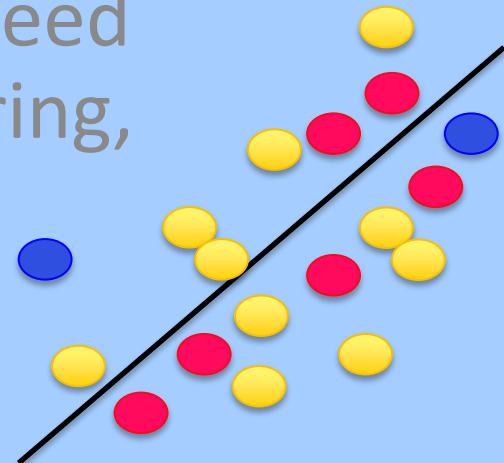
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- Good point being made by UT provost - students don't care very much about the ways that administrators think about their education.
- Important point - what is the life cycle of a student - semester? graduation? first career? 5th career?



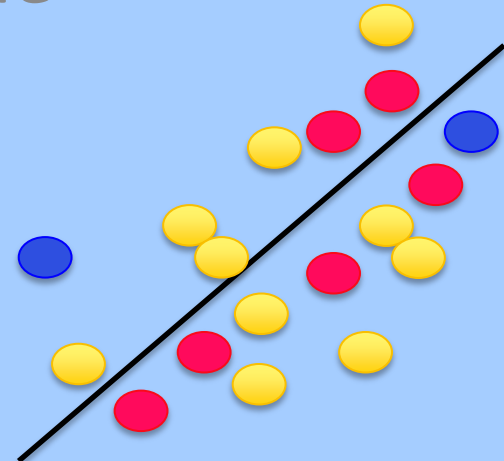
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- Charles Thornburgh draws the parallel between the use of healthcare (preventative) medical data and education data for learning.
- Must get data to those that need it most, actionable, empowering, relevant!



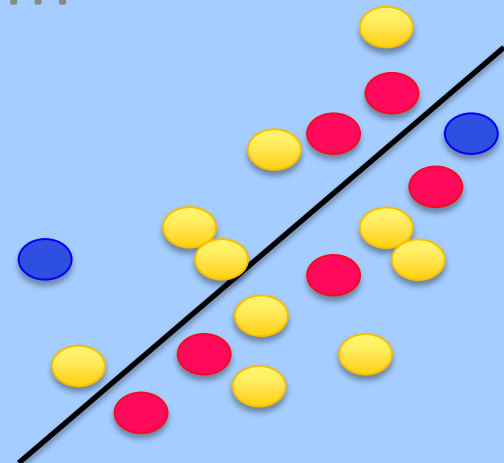
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- We want our faculty to be able to train leaders of the future.
Question degree plans,
accountability, problems, etc.
- You have to get the data to the front lines.



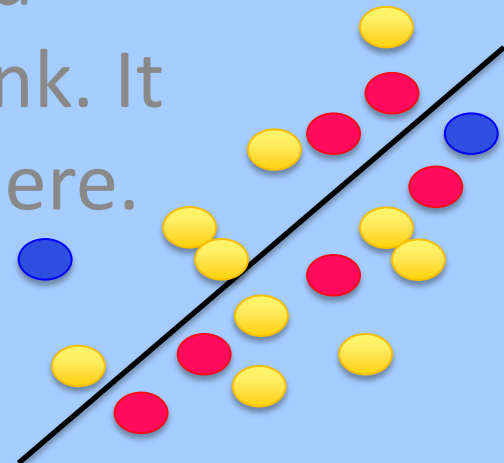
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- Data will never replace experience and intuition. Rather, it's an augmentation.
- When you visualize data you bring it to life and put it in story form - this is how people want to consume it.



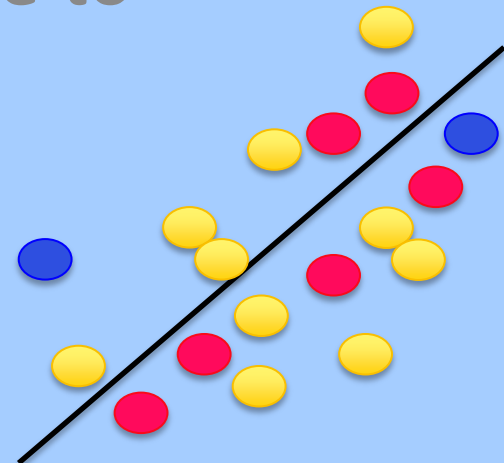
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- When you put maps and visual representations up, they hit a different part of the brain. People respond to that.
- Your audience can understand much more than you may think. It is all in how you lead them there.



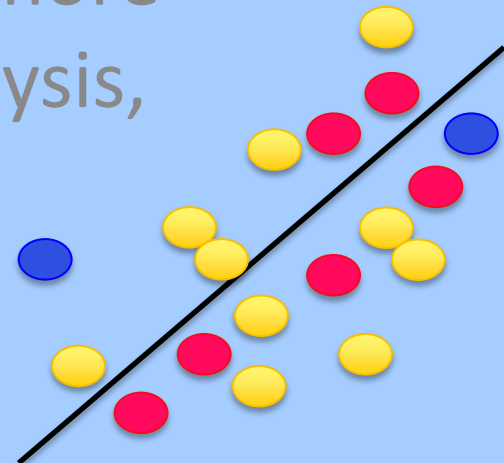
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- Education is littered with data plots without context. Plots need to be placed within the context of the community and literature!
- In education, we are fortunate to have such smart audiences.



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- Chris Dede “Virtual worlds are the richest source of data about online learning.” Agreed :-)
- Immersive environments sound great. Means I have to learn more about text analysis, path analysis, and unstructured data.



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- 3 barriers to consumption/use of educational data: data is silo'd; lack of training in teacher prep programs; lack of time.
- Teachers are often disconnected from the student outcome data gathered in blended learning tools.

