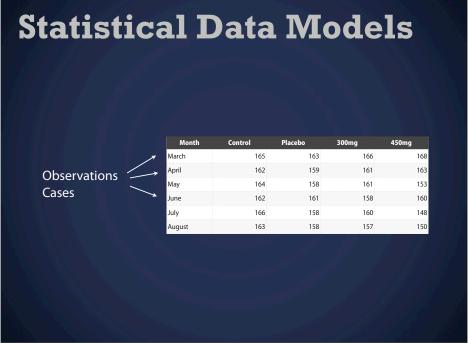
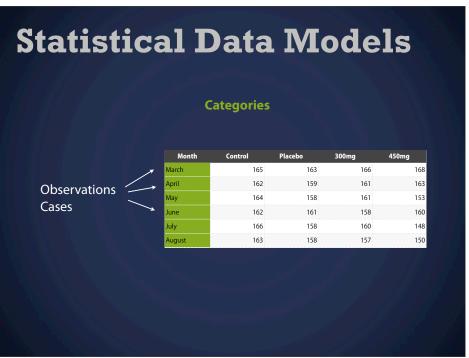
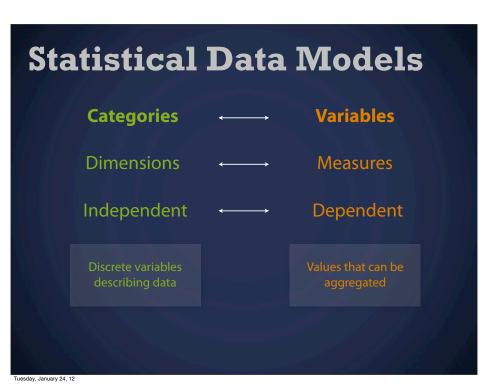


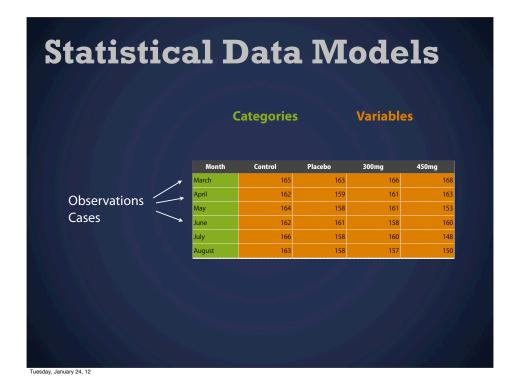


Statistical Data Models							
	Month March	Control	Placebo 163	300mg	450mg		
	April	162	159	161	163		
	May	164	158	161	153		
	June	162	161	158	160		
	July	166	158	160	148		
	August	163	158	157	150		







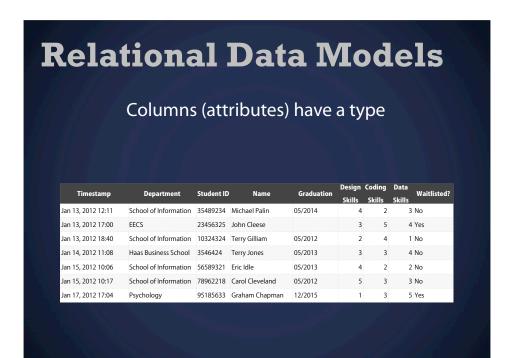


Relational Data Models Jan 13, 2012 12:11 School of Information 35489234 Michael Palin 05/2014 3 No Jan 13, 2012 17:00 23456325 John Cleese School of Information 10324324 Terry Gilliam 05/2012 Jan 14, 2012 11:08 Haas Business School 3546424 Terry Jones 05/2013 2 No Jan 15, 2012 10:06 Jan 15, 2012 10:17 School of Information 78962218 Carol Cleveland 05/2012 3 No Jan 17, 2012 17:04 95185633 Graham Chapman 12/2015

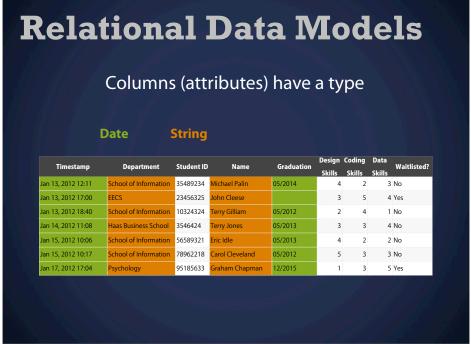
| Timestamp | Department | Student | Design | Coding | Still |

Tuesday, January 24, 12

Relational Data Models Columns (attributes) have a type **Date** 3 No an 13 2012 12·11 School of Information 35489234 Michael Palin 4 Yes 23456325 John Cleese an 13, 2012 18:40 School of Information 10324324 Terry Gilliam 1 No an 15, 2012 10:06 05/2013 2 No School of Information 78962218 Carol Cleveland 5/2012 3 No 95185633 Graham Chapman 5 Yes



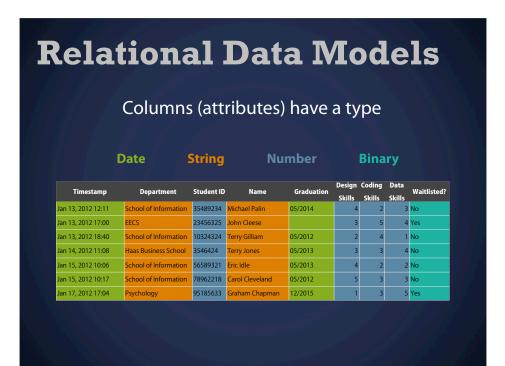
Tuesday, January 24, 12

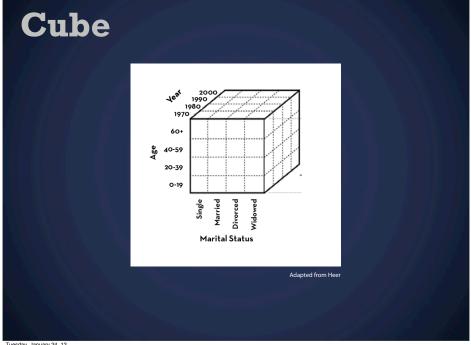


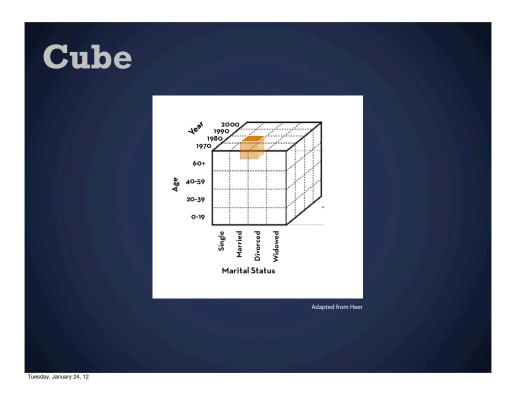
Relational Data Models Columns (attributes) have a type **String Date** Number an 13, 2012 12:11 School of Information 35489234 05/2014 23456325 an 13, 2012 17:00 John Cleese 05/2012 School of Information 10324324 erry Gilliam No 546424 05/2013 an 15, 2012 10:06 6589321 05/2013 78962218 05/2012 an 15, 2012 10:17 Carol Cleveland No an 17, 2012 17:04 Psychology 95185633 12/2015 Yes Graham Chapm

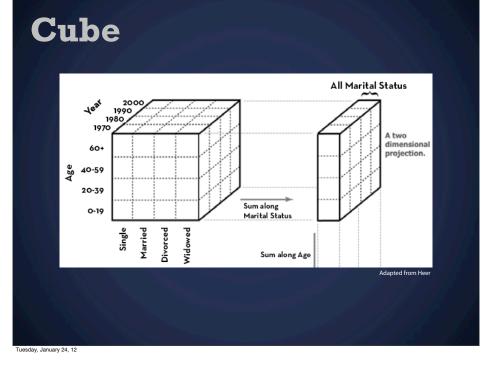


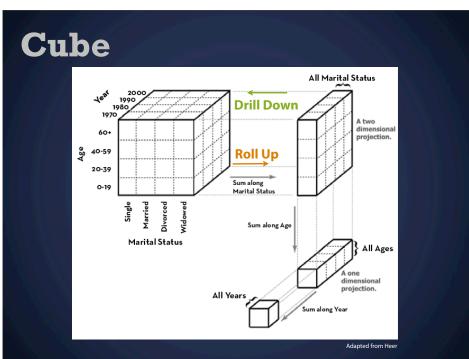


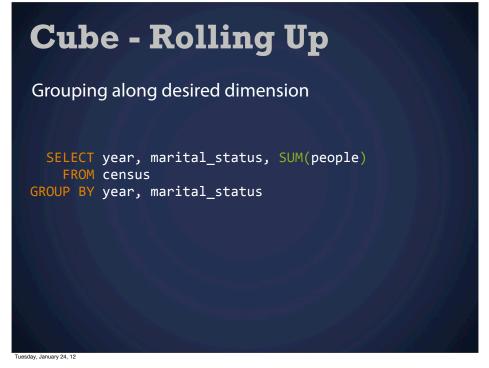






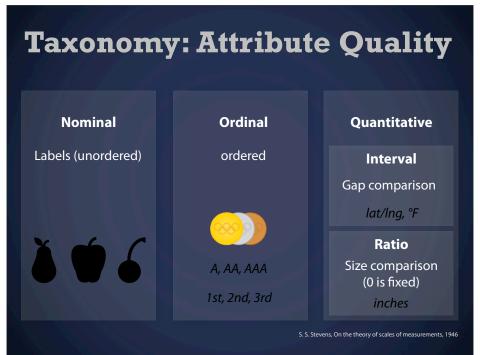






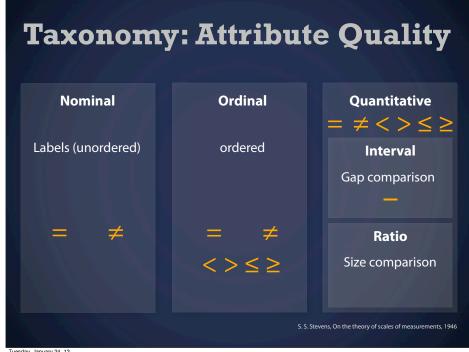
Taxonomy: Data Types • 1D (sets, sequences, text) Each data type allows for a specific set of tasks • 2D (maps) Shneiderman: "The Eyes Have It" • 3D (shapes) Temporal • Multidimensional (relations) • Tree (hierarchies) Network (graphs)

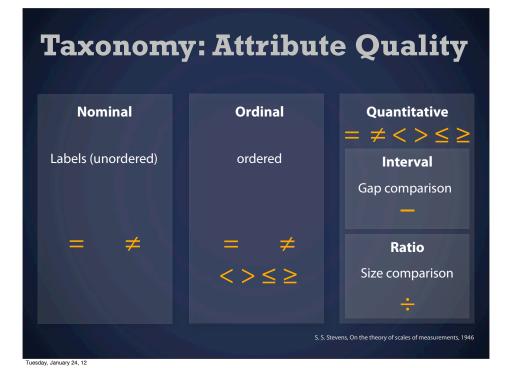


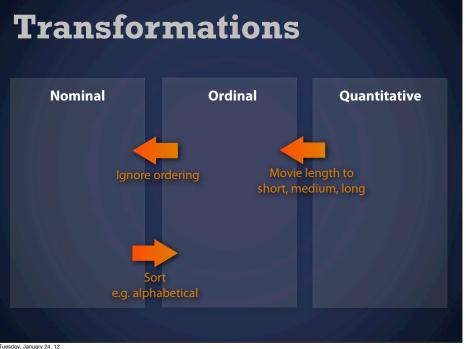


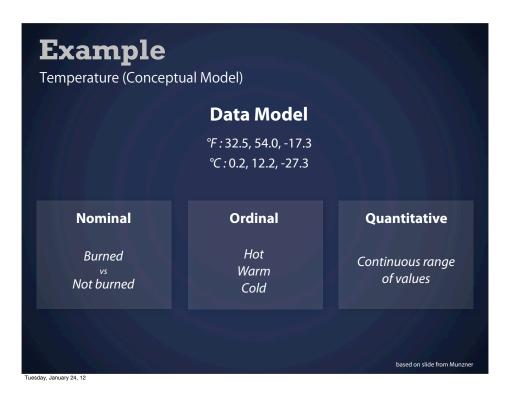






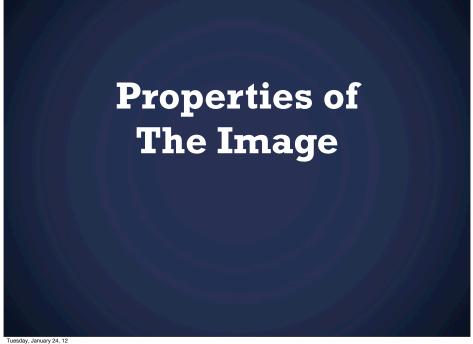


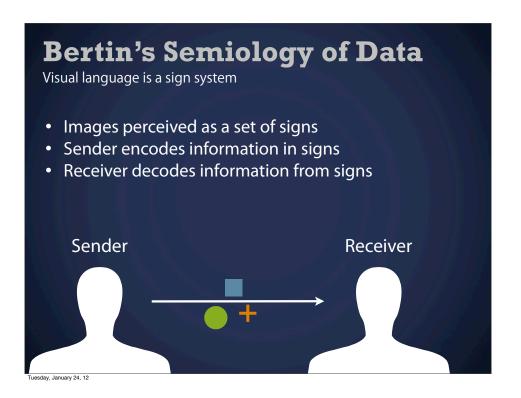


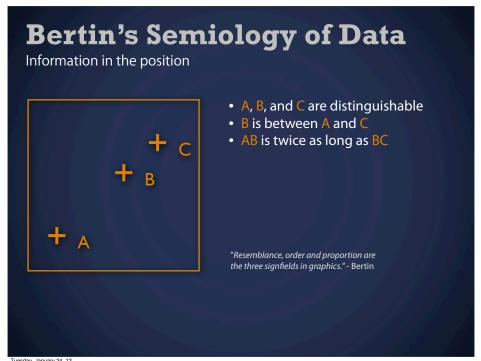


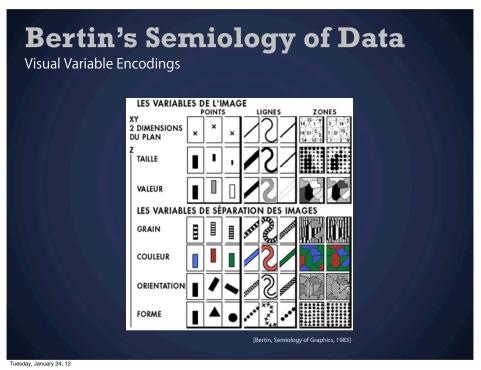
Example Class Survey: Your turn. Jan 13, 2012 12:11 School of Information 35489234 Michael Palin 05/2014 Jan 13, 2012 17:00 23456325 John Cleese Jan 13, 2012 18:40 School of Information 10324324 Terry Gilliam 05/2012 1 No Jan 14, 2012 11:08 Haas Business School 3546424 Terry Jones 05/2013 Jan 15, 2012 10:06 School of Information 56589321 Eric Idle School of Information 78962218 Carol Cleveland 05/2012 3 No Jan 15, 2012 10:17 Jan 17, 2012 17:04 Psychology 95185633 Graham Chapman 12/2015 5 Yes

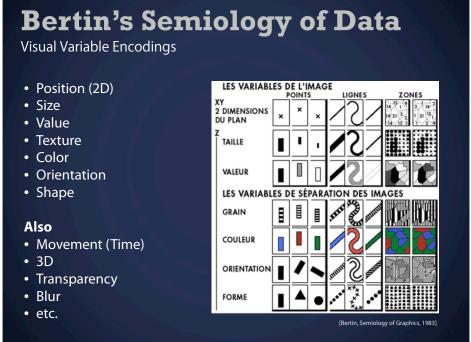
The Big Picture From Data to Image							
Data	Mapping	lmage					
Abstract type nominal, ordinal, etc. Physical type int, float, etc.	Visual Encoding Visual Metaphor	Visual channel Retinal Variables					

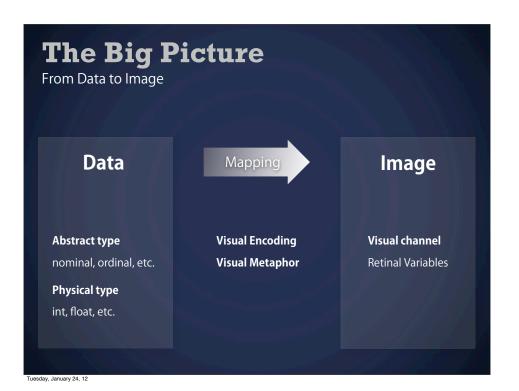








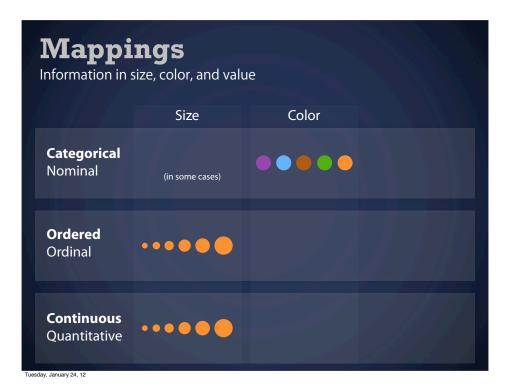














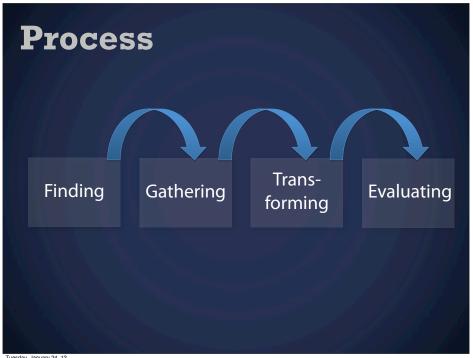
Levels of Organization

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Position	N	0	Q
Size	N	0	Q
Value	N	0	Q
Texture	N	0	
Color	N		
Orientation	N		
Shape	N		

- N = Nominal
- O = Ordinal
- Q = Quantitative



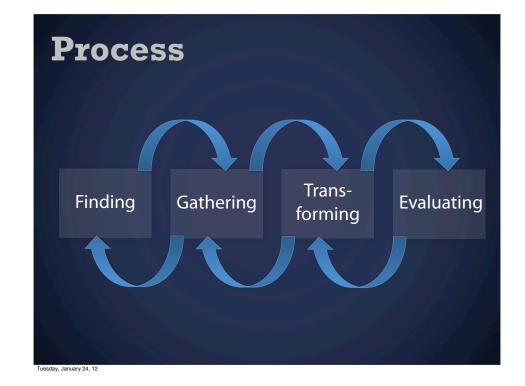


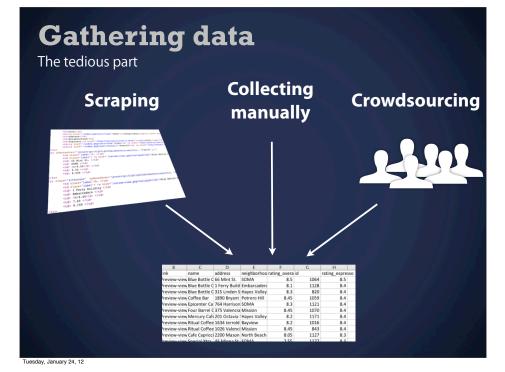


infochimps

Tuesday, January 24, 12

Socrata





Transforming and evaluating data • Missing data points • inconsistent formats Jan 24, 2012 2012/01/24 24/01/12 24th January 2012

Transforming and evaluating data Output Outp

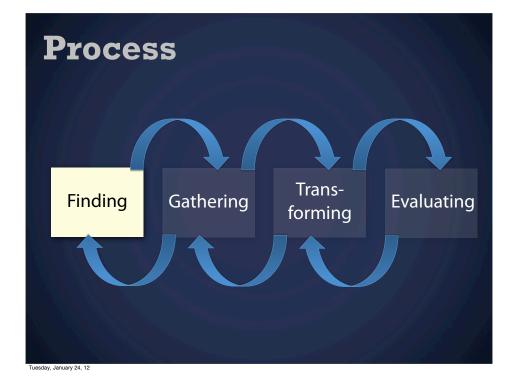






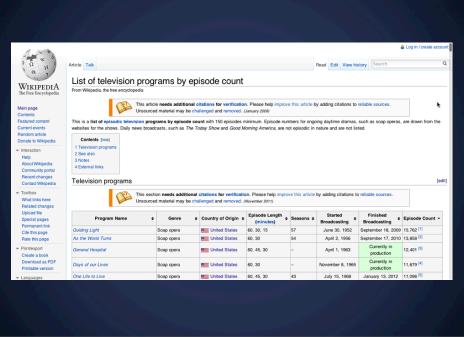




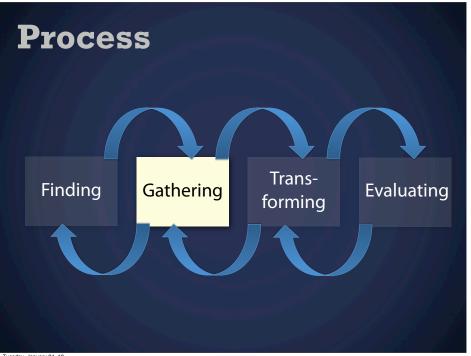




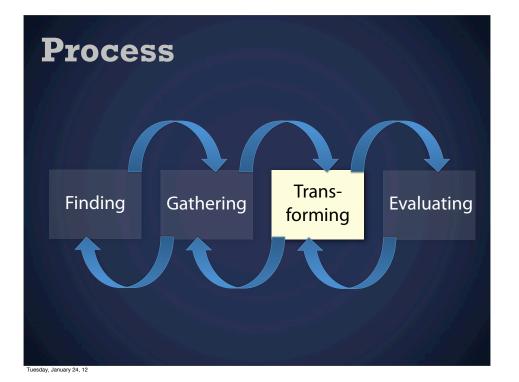
Tuesday, January 24, 1



Tuesday, January 24, 1

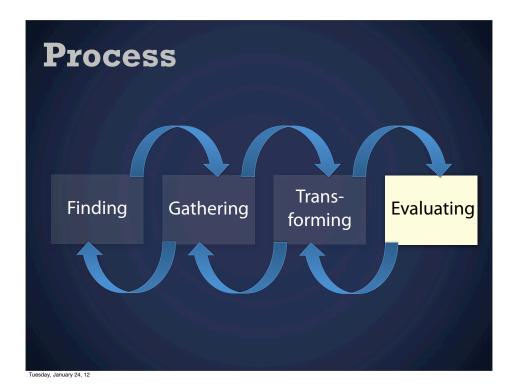












Announcement

Assignment 1

Task Create a static visualization from a provided dataset

Dataset Longest Running TV series **Deliverable** visualization; 1 page writeup **Due** Tuesday Jan 31, 5:00PM

- Find and visualize something interesting from the dataset
- Tell a story
- You can use any tool you like

Dataset and more information on the class blog