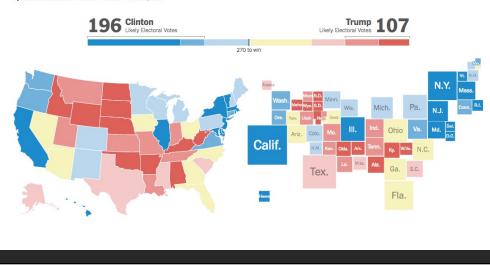
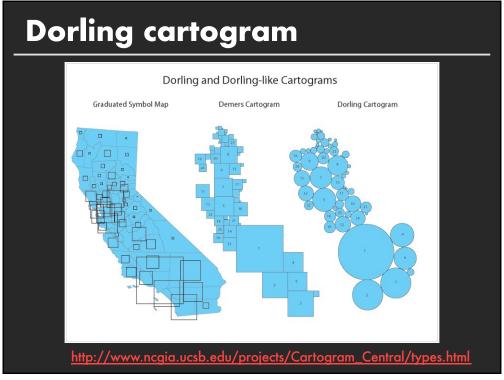
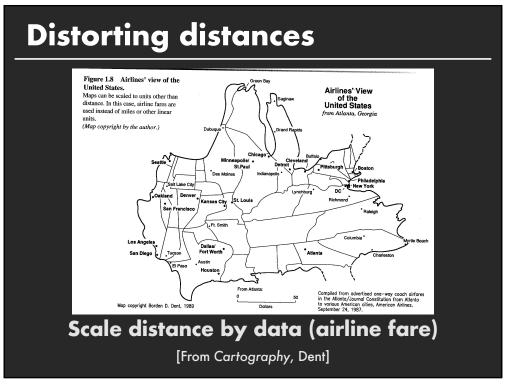


New York Times Election 2016 2016 Electoral Map Forecast

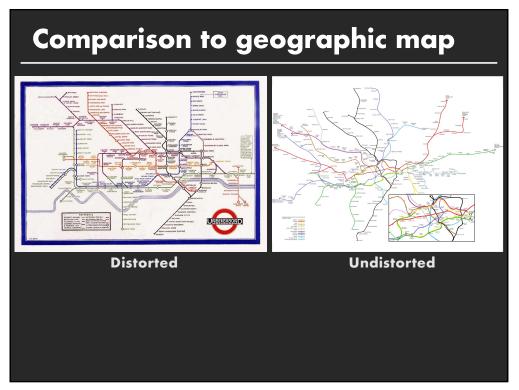
The Upshot's forecast for the presidential race, based on the latest national and state polls. By JOSH KATZ and ADAM PEARCE UPDATED November 2, 2016



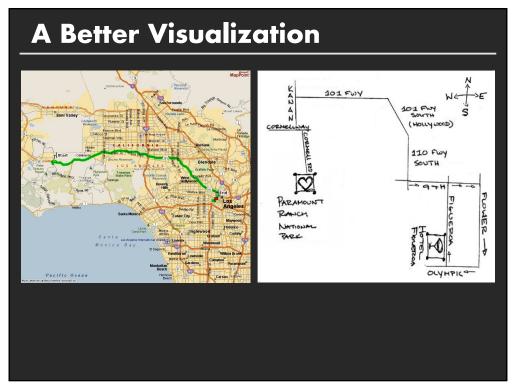


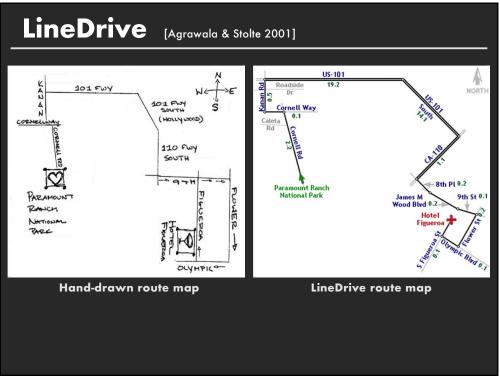


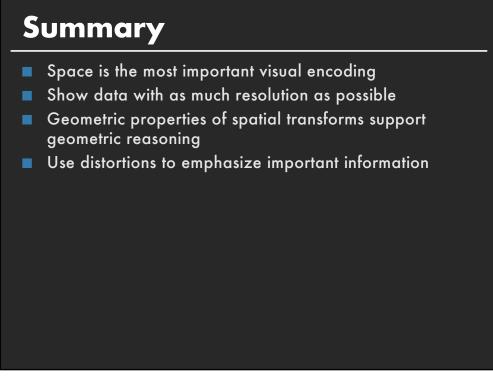


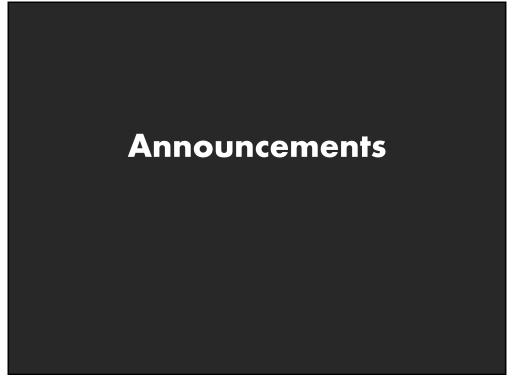




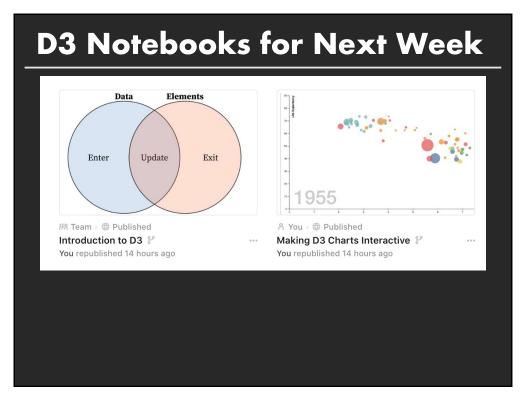




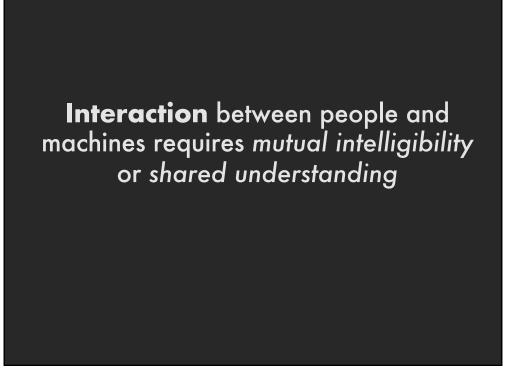


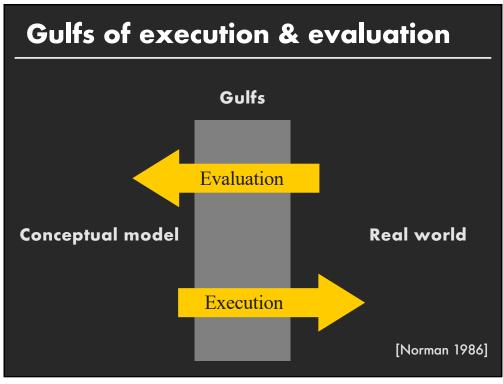


A2: Exploratory Data Analysis Use Tableau or Vega-Lite to formulate & answer questions **First steps** 400 350 Step 1: Pick domain & data 300 Step 2: Pose questions 문 250 · Step 3: Profile data ₹ 200 Iterate as needed 150 **Create visualizations** See different views of data 200 Refine questions Author a report Screenshots of most insightful views (8+) Include titles and captions for each view Due before class on Oct 11, 2021







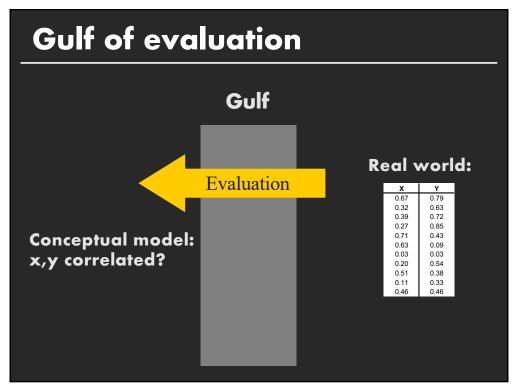


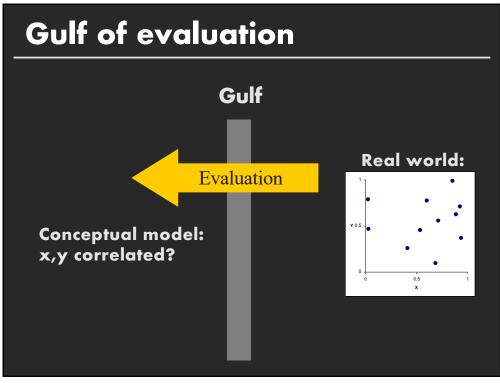
Gulf of Execution

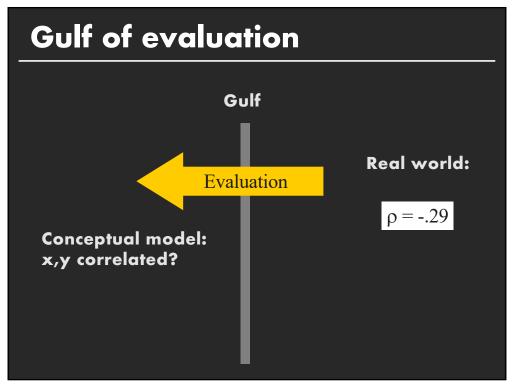
The difference between the user's intentions and the allowable actions.

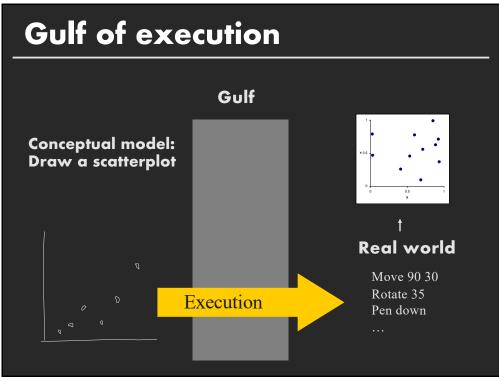
Gulf of Evaluation

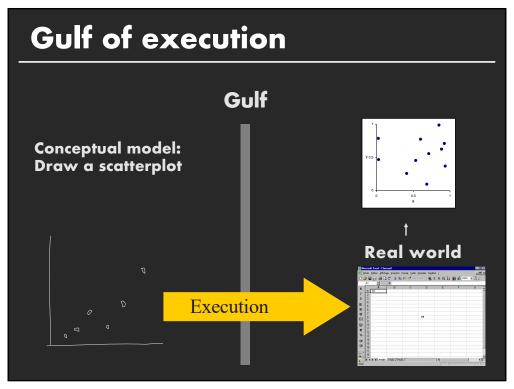
The amount of effort that the person must exert to interpret the state of the system and to determine how well the expectations and intentions have been met.











Gulf of Execution

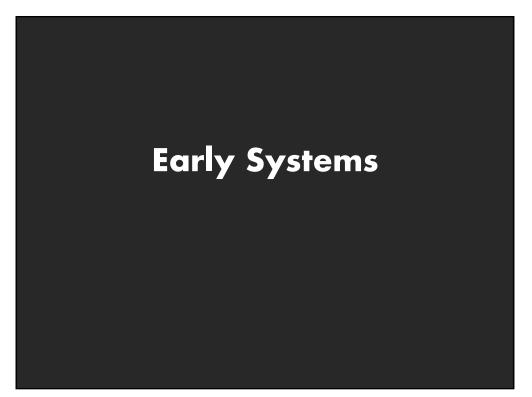
The difference between the user's intentions and the allowable actions.

Gulf of Evaluation

The amount of effort that the person must exert to interpret the state of the system and to determine how well the expectations and intentions have been met.

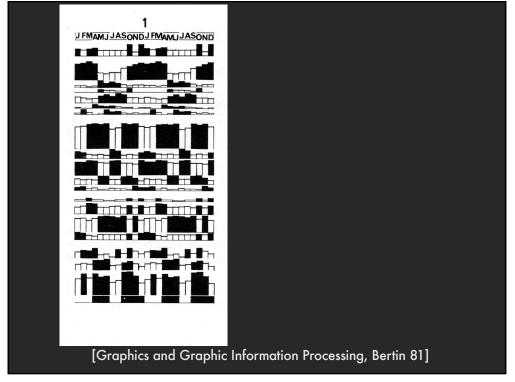
[Norman 1986]





			X	×	X			X	X	X	X	20	CONVENTIONS
67	82	70	83	74	77	56	62	90	92	78	55	19	% OCCUPANCY
	1.71	1. 65	1.91	1. 90	2.	1.54	1.60	1.73	1.82	1.66	1.44	18	LENGTH OF STAY
163	167	166	174	152	155	145	170	157	174	165	156	17	PRICE OF ROOMS
25	22	17	15	19	19	19	19	19	20	19	22	16	%
48	49	42	48	54	55	53	57	55	46	55	43	15	%
25	27	37	35	25	25	27	28	24	30	24	30	14	%
2	2	4	2	2	1	1	2	2	4	2	5	13	% CLIENTS UNDER 20 YEARS
10	12	6	9	4	5	7	6	6	5	15	10	12	% AIR CREWS
20	18	19	17	27	27	19	19	26	27	21	15	11	% AGENCY
70	70	75	74	69	68	74	75	68	68	64	75	10	% DIRECT RESERVATIONS
22	20	15	14	15	13	30	24	13	15	13	20	9	% TOURISTS
78	80	85	86	85	87	70	76	87	85	87	80	8	% BUSINESSMEN
3	10	6	0	3	13	8	9	5	2	5	2	7	% ASIA
1	0	0	8	6	4	6	4	2	1	0	1	6	%
20	15	14	15	23	27	22	30	27	19	19	17	5	%
0	C	0	0	8	6	6	4	2	12	0	0	4	% SOUTH AMERICA
7	6	3	6	23	14	19	14	9	6	8	8	3	% — "— U.S.A.
69	70	77	71	37	36	39	39	55	60	68	72	2	%
26	21	26	28	20	20	20	20	20	40	15	40	1	% CLIENTELE FEMALE
J	F	M	A	Μ	J	J	A	S	0	N	D		

[Graphics and Graphic Information Processing, Bertin 81]



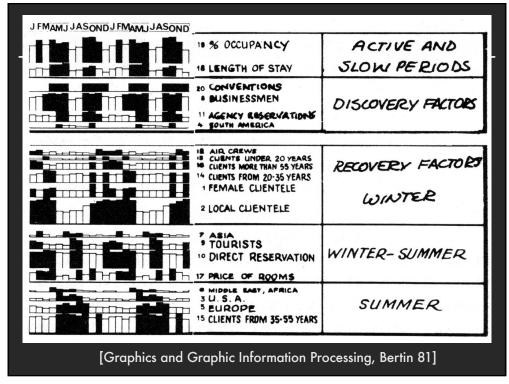
Group similar rows and columns

Choose a row with a particular visual aspect. Move to extremity of matrix

Move similar rows close, opposite rows to bottom. (Creates two opposing groups and a middle group)

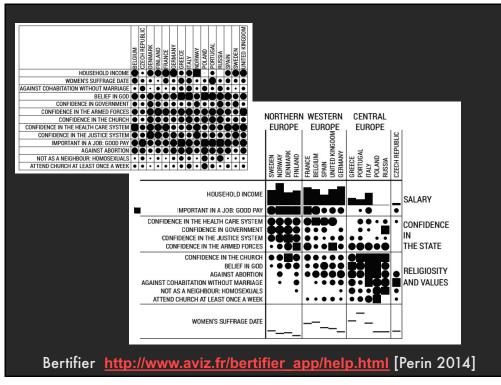
Repeat for columns (only in some cases)

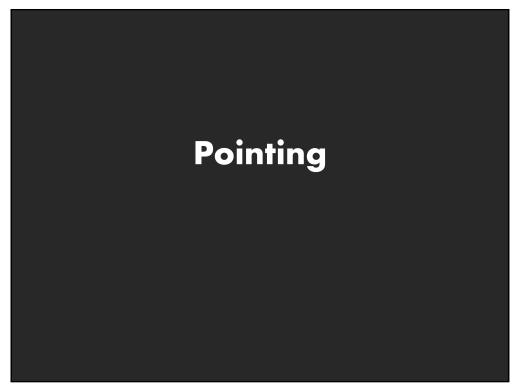
Iterate

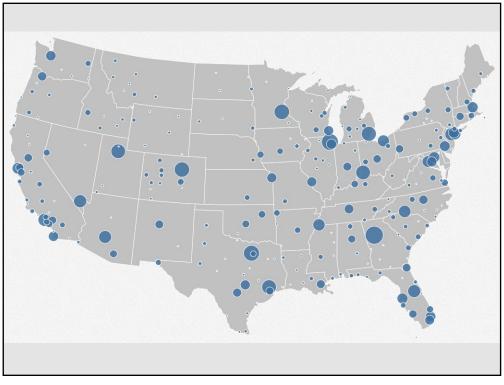


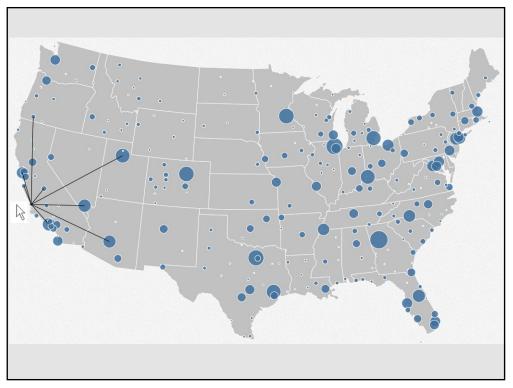


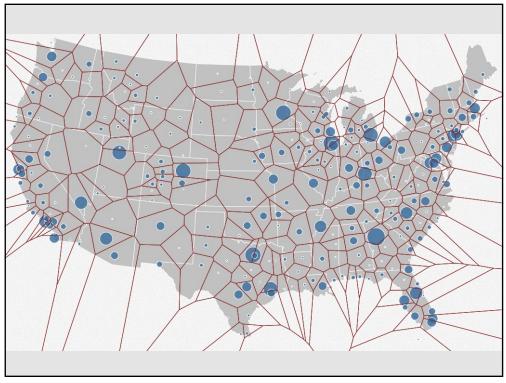


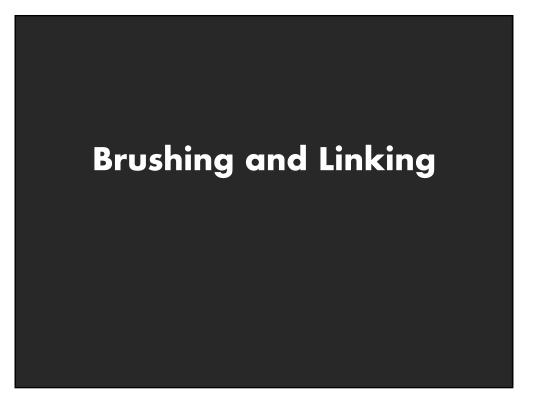


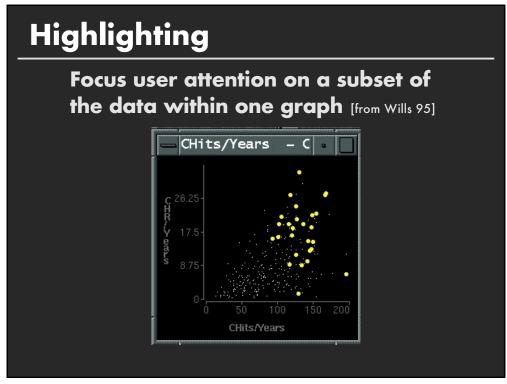












Brushing and Linking

Select ("*brush*") a subset of data See selected data in other views

The views must be *linked* by *tuple* (matching data points), or by *query* (matching range or values)

