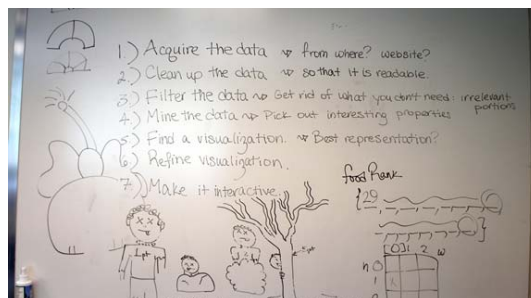## Data Visualization

- Graphical representation of information
- Chars
- Plots
- Maps
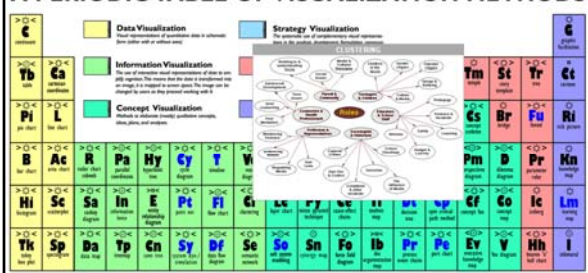- Time series

Data Visualization Process

- Acquire - Obtain the data from some source
- Parse - Give the data some structure, clean up
- Filter - Remove all but the data of interest
- Mine - Use the data to derive interesting properties
  - Statistical methods
  - Pattern recognition
  - Numerical analysis, etc

Data Visualization Process

- Represent - Chose a visual representation
- Refine – Improve to make it more visually engaging
- Interact - Make it interactive
  - manipulating the data
  - controlling visual features, etc.

http://www.visual-literacy.org/periodic_table/periodic_table.html

Jer Thorp. Artist/Educator - NYU

225 "random" numbers chosen and tweeted by 225 people

19	42	42	87	81	99	33	98	61	47	24	66
69	23	67	67	57	71	5	79	57	46	93	54
43	32	18	42	77	37	37	6	93	55	55	77
15	88	42	55	77	42	93	3	17	26	64	65
23	21	9	7	23	17	14	42	45	27	97	83
89	4	4	26	6	39	97	72	35	6	66	
19	2	72	81	37	47	66	17	12	52	74	
54	61	43	19	57	17	77	47	26	72	64	
69	99	64	88	67	1	36	2	60	27	73	
4	43	97	67	42	37	27	1	75	15	17	
13	59	32	78	40	15	64	77	11	1	17	
37	13	7	26	57	25	12	69	8	84	23	
66	42	14	33	17	97	25	57	1	81	97	
8	18	78	12	95	37	84	86	41	56	73	
78	60	21	39	28	17	83	69	12	74	37	
67	19	19	88	96	69	29	74	53	33	72	
32	81	72	72	73	39	52	97	77	77	41	
76	17	69	83	67	64	25	35	42	4	76	
13	36	2	37	52	47	43	25	66	7	6	
87	94	16	28	20	79	23	21	55	66	87	

http://blog.blprnt.com/blog/blprnt/your-random-numbers-getting-started-with-processing-and-data-visualization