

My First Data Visualization

Level 1

1. Ask children to choose something to count. You can also assign them something to count.
 - a. Examples:
 - i. How many children in class have siblings.
 - ii. How many windows are in the building
2. Ask them to record their findings by coloring the appropriate squares. This can be an in-class activity or something they take home and bring the next class.
3. Have students look at the different worksheets and ask them what they can learn from looking at them.

Level 2

1. Ask children to choose a topic gather data on and ask them to create five categories. You can also assign them something a topic and categories.
 - a. Examples:
 - i. How many siblings each of their classmates have? (0, 1, 2, 3, 4+)
 - ii. Track the weather for a week (Sunny, partially cloudy, cloudy, rain, snow)
 - iii. What decade were people born? (2010s, 2000s, 1990s, 1980s, 1970s or before)
 - iv. How many skittles of each color come in a bag? (Red, yellow, orange, green, purple)(Inspiration:
<https://public.tableau.com/app/profile/redraider2k/viz/WhatDoYouGetinaBagofSkittles/ExampleDashboard>)
2. Ask them to fill the table below with their categories and the units of measurement.
3. Ask them to record their findings by coloring the appropriate squares. This can be an in-class activity or something they take home and bring the next class.
4. Have students look at the different worksheets and ask them what they can learn from looking at them. If the topic was assigned, have students compare and tabulate all worksheets to draw conclusions.

Level 1

Name: _____

I am counting: _____

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Level 2

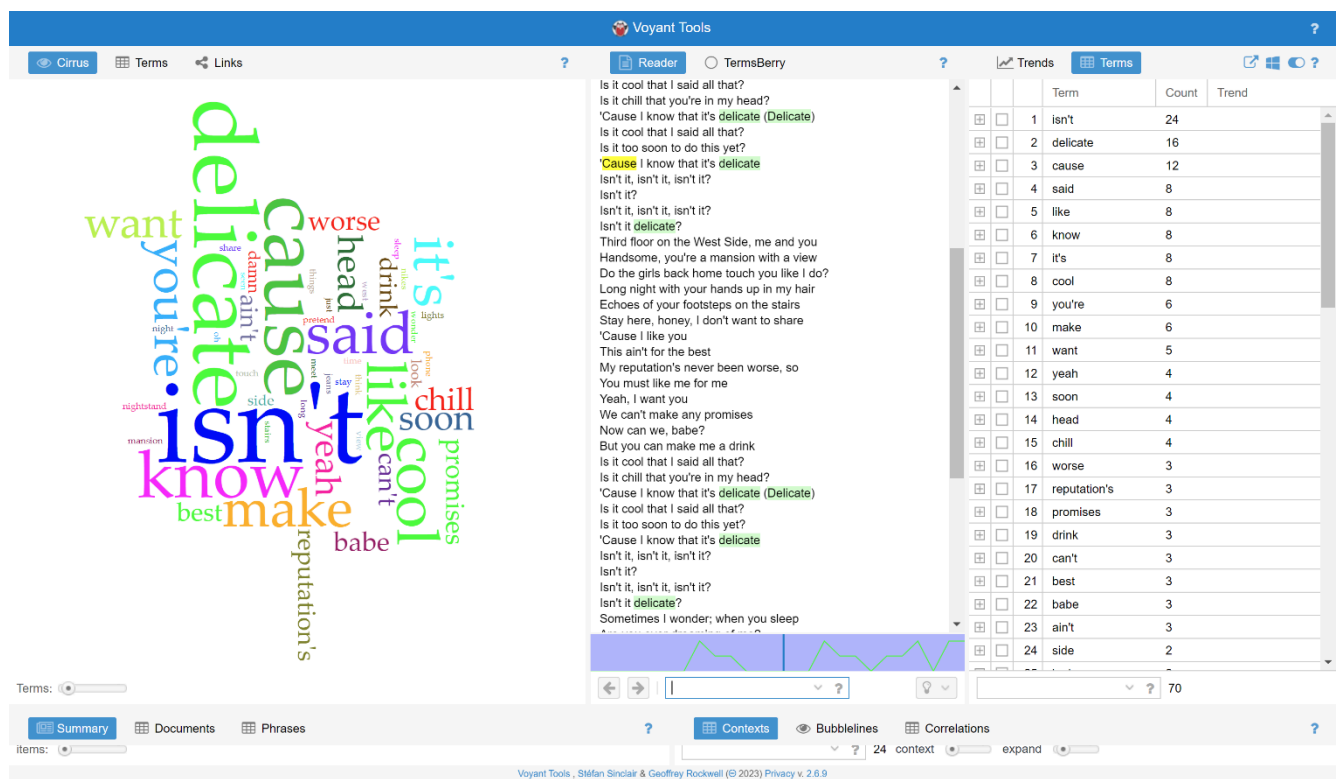
Name: _____

Topic: _____

[illegible]

Musical Data

1. Choose a song that mentions the title in the lyrics. (e.g. Taylor Swift's "Delicate").
2. Play it for students and ask them to count how many times the title is mentioned.
3. Enter the song lyrics on Voyant Tools and check the Terms tools to see if they were right. You can also search for the term in the middle pane to see the words highlighted. If the title has more than one word enter the terms in quotation marks. You may also need to shorten the title to adjust for small variations. For example, in Taylor Swift's "Look what you made me do", you may want to just search for "made me do".
4. Explain that what they are doing is called text analysis and what it is used for.
5. Show them the word cloud and ask if they find anything surprising.

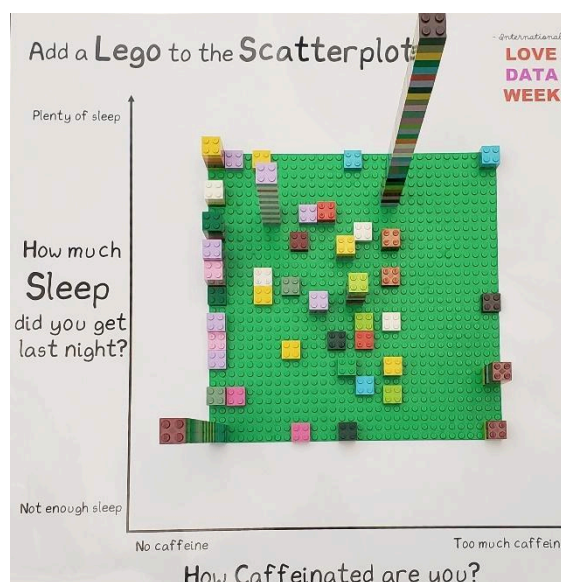
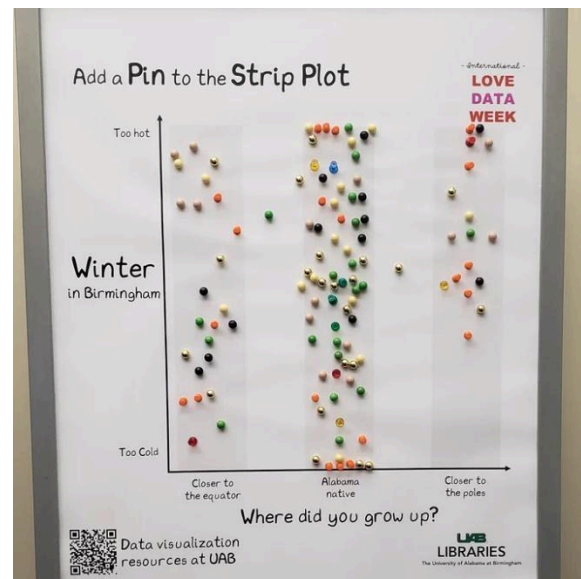
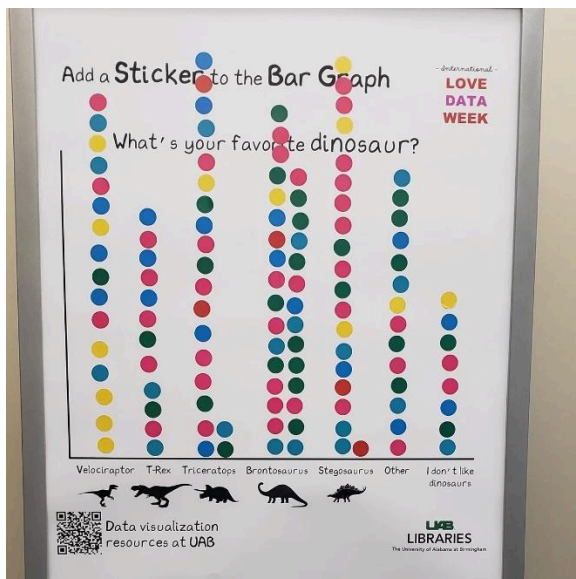


Collaborative Data Visualizations – Question of the day

Counting methods: Legos/marbles and jars/poster board and sticky dots/etc.

1. During the week or month of Love Data Week, set your counting method close to the entrance. Place a sign with a multiple-choice question for the day.
 - a. For older students who can understand a line chart, you may also create a Y/X axis question.
2. Ask students to add a counting piece to the jar/tower/column of their choice as they come in.
3. Take some time during class to summarize and discuss the results,

Examples courtesy of University of Alabama Birmingham Office of Scholarly Communications.



Other activity ideas

Tableau's Data Kids Activity Library: <https://www.tableau.com/academic/data-for-kids/activities>

Tableau's Data Kids Educator Kit (lesson plans, activity ideas, etc):

<https://www.tableau.com/data-kids-educator-kit>

Little Miss Data's At Home Data Activities for Young Kids (online games and resources, activities):

<https://www.littlemissdata.com/blog/graph-week>