

CGT 270 Data Visualization
Makeover Monday #4 (2021 Dataset)

Name: Matthew Gallagher

Date: 11/11/21

Lab section: Thursday

Show your work!!!

Acquire

Week: 26

Date: 6/27/21

Year: 2021

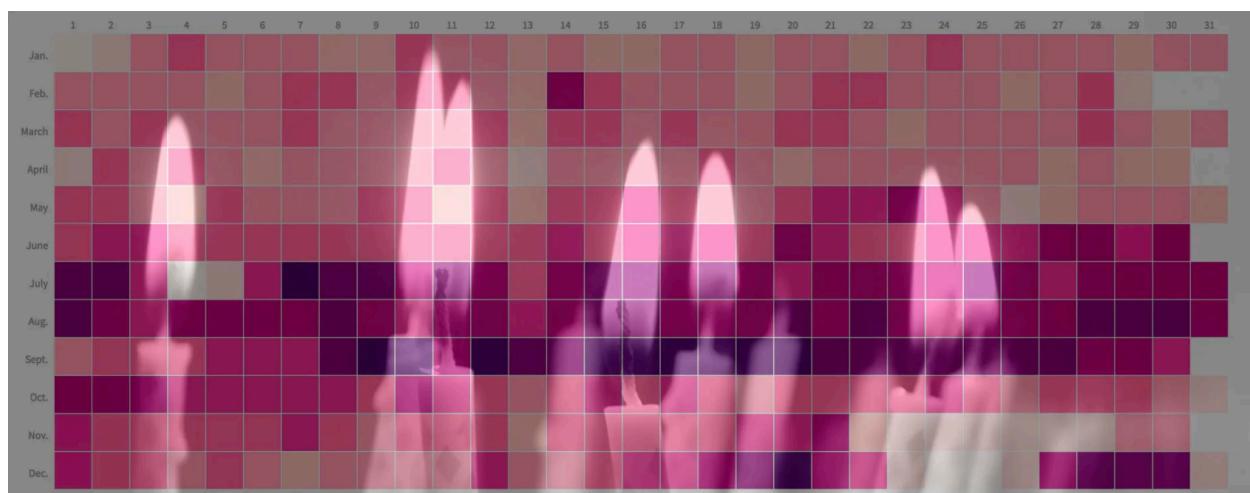
Data: [LINK](#)

Source Article/Visualization:

[How Common is Your Birthday?](#)

Data Source: U.S. National Center for Health Statistics (1994-2003); U.S. Social Security Administration (2004-2014) — via FiveThirtyEight
<https://www.makeovermonday.co.uk/data/data-sets-2018/>

Represent



Critique

Critique the visualization: what do you like about it, dislike about it, what do you plan to do differently?

I'm really in to this topic about birthdays. One of the reasons is it is very enjoyable to check your friends and families' birthdays on this chart. There are some major problem on the visualization however. One problem is the format. There is no legend for the colors or titles and axis. Another very problematic trait is the candles used because the visualization is about birthday. It is a neat idea, but it blocks the viewer from seeing the chart.

A heat map of every birthday to show what is the most popular days and months. The tree-map is condensed but still gives insight on what months are more popular than others. Also the 31 got cut off

Based on your knowledge of the Periodic Table of Visualization Methods (discussed in class this week), discuss which one of the 6 categories does the visualization you provided in the Represent stage falls in. Identify the method most closely related to the visualization in the Represent Stage and discuss the characteristics: overview, detail, detail AND overview, divergent thinking, convergent thinking. Refer to Week 10 Readings to assist with categorizing the visualization.

The visualization is a scatterplot, or Sc on the periodic table. The characteristics of the scatterplot is it overviews the data. It is also convergent thinking because everything on the graph is very literal and there is not much thought outside the box.

Mine

What months are the most popular for birthdays and why?

Filter

Supposed to be the 12 months with their total number of births in that month.

Stakeholders

- Who is your audience? What assumptions did you make? What visualization tool/software did you use? My audience is anyone who has a birthday. I used Tableau but struggled making it do what I wanted. This makeover Monday is so frustrating there is not enough time to effectively make a correction. Especially with the time it takes to do surveys and learn how to make complex graphs for the first time in Tableau. Very frustrating experience.

What to submit: This document in PDF format only (if you do not know how to do this, ask).

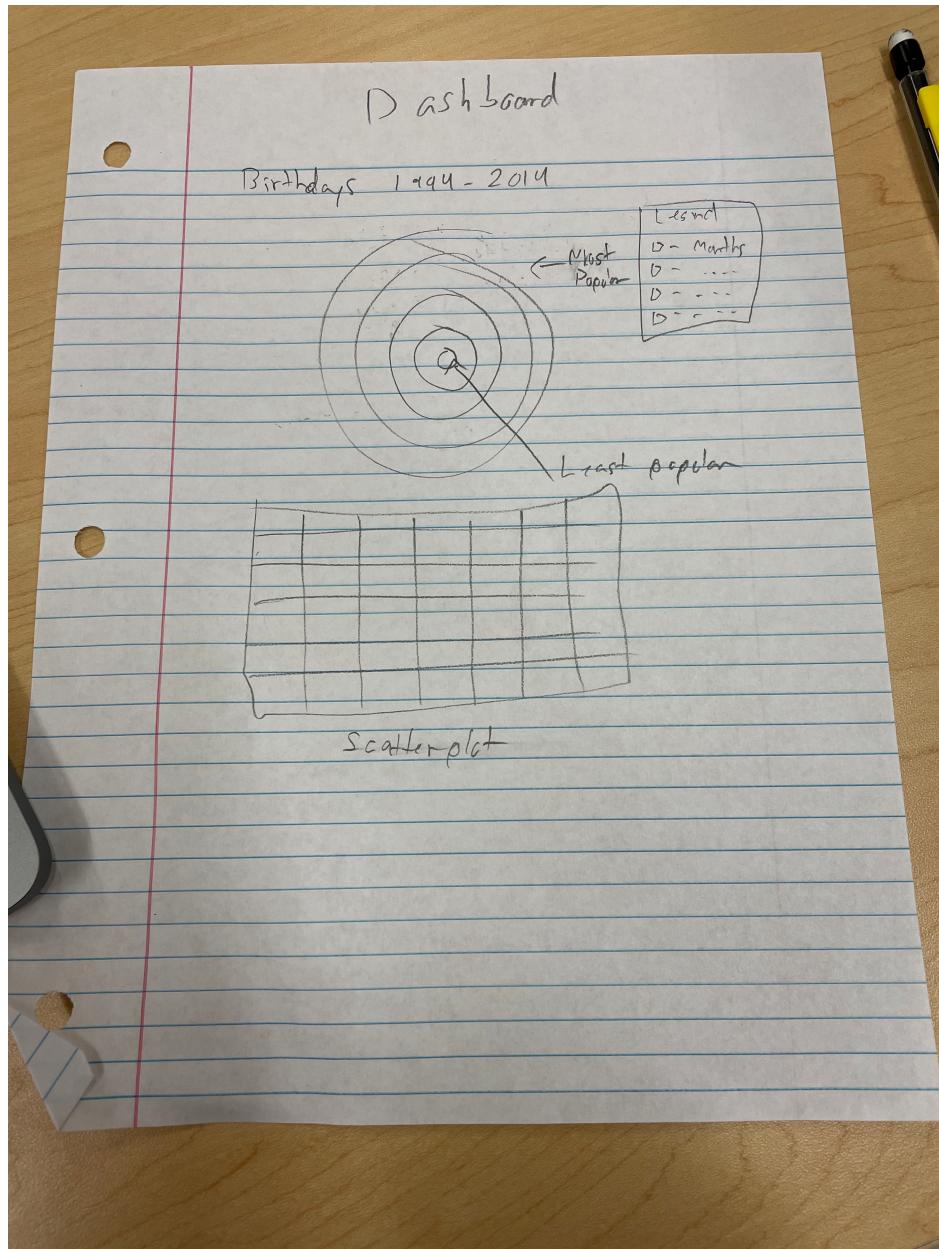
Choose the best layout for your makeover visualization: Portrait or Landscape, Remove the page of the layout that you DO NOT choose. No blank pages!

NEW Sketch your Makeover

In the space below, sketch out your ideas for refined visualization. You must use pen/pencil and paper to sketch out your idea, then take a photo of your sketch and include it in the space below.

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(Makeover – Landscape view)

Use an additional page if necessary. Remember, the purpose of visualization is “insight.” Take and include a screenshot of your visualization and include it below. Use Data Visualization Best Practices (see data visualization checklist). You MUST use more advanced chart types for your makeover. **Chart types that are not allowed: bar (single or stacked), pie, line charts, scatter plots, no tables.**

I couldn't get a makeover to work. I needed to filter out each month and find the total number for that month. My plan was to make a tree-map of the 12 months. This would clearly show what months are more popular than others. The problem is this task took too long for class so I don't have a finished product. I am going to continue working on the visualization until I like it. Unfortunately I've learned in this class that people get better grades for submitting a minimal effort graph that meets requirements on time than someone like me who wants to actually learn the data and find patterns. I also want my visualizations to look the best as possible. So sorry I want to make mine look good and not just meet the requirements. I also don't just pick the easiest one to makeover. I want to challenge myself and learn new things. If you are interested in seeing my finished product and give me credit. My email is gallag80@purdue.edu. I'm very disappointed to say the least.

Average Birthdays For Each Day of The Year(1994-2014)

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	7,792	10,929	11,129	10,300	11,002	11,164	11,860	11,775	10,930	11,720	11,350	11,251
2	9,307	10,949	10,802	11,004	11,113	11,345	11,828	11,580	11,000	11,572	11,081	11,182
3	10,813	10,843	11,074	10,899	10,903	11,256	11,304	11,332	11,119	11,674	11,130	11,142
4	11,019	10,905	10,989	11,219	10,717	11,221	8,796	11,569	11,216	11,490	11,129	10,981
5	10,953	10,685	10,979	10,900	11,073	11,164	10,404	11,610	11,431	11,272	11,191	11,132
6	10,911	10,794	10,921	10,639	10,949	11,240	11,487	11,586	11,293	11,335	11,081	10,958
7	10,925	11,149	11,087	10,859	10,945	11,160	12,108	11,589	11,398	11,324	11,308	10,741
8	10,610	11,063	10,976	10,890	10,955	11,025	11,944	11,951	11,992	11,309	11,180	10,893
9	10,624	10,893	10,765	10,830	11,040	11,083	11,769	11,721	12,301	11,137	10,927	10,849
10	11,023	11,015	10,940	10,826	11,071	11,222	11,738	11,491	12,143	11,556	11,039	10,951
11	10,975	11,015	10,931	11,059	10,744	11,160	11,794	11,608	11,503	11,268	11,141	10,883
12	10,934	10,898	11,003	10,953	11,016	11,196	11,565	11,749	12,224	11,014	11,077	11,440
13	10,622	10,604	10,654	10,389	10,697	11,041	11,181	11,468	11,801	10,768	10,742	10,855
14	10,976	11,636	11,119	10,812	11,070	11,288	11,680	11,692	11,882	11,149	11,240	10,952
15	10,546	11,188	11,011	10,883	11,157	11,078	11,754	11,921	12,087	11,261	11,229	11,191
16	10,623	10,948	10,773	10,909	11,283	11,265	11,768	11,788	12,072	11,115	11,022	11,352
17	10,901	10,854	11,137	10,897	11,122	11,253	11,718	11,548	12,148	11,296	11,125	11,481
18	10,883	10,940	10,954	11,004	10,899	11,339	11,772	11,681	12,055	11,149	11,173	11,675
19	10,691	10,673	10,914	10,891	10,999	11,176	11,545	11,637	12,229	10,850	11,255	11,935
20	10,825	10,886	11,003	10,714	11,193	11,502	11,428	11,771	12,107	11,065	11,442	12,009
21	10,824	11,008	11,181	10,817	11,254	11,298	11,664	11,643	11,813	11,057	11,567	11,680
22	10,673	11,111	10,967	10,877	11,288	11,130	11,686	11,825	11,920	11,156	10,664	11,388
23	10,865	10,927	10,739	10,864	11,525	11,244	11,699	11,655	11,974	11,046	9,883	10,338
24	11,049	10,904	10,921	10,845	11,367	11,328	11,607	11,452	11,945	11,276	10,015	8,069
25	10,951	10,974	10,974	10,996	10,827	11,406	11,768	11,576	11,866	11,183	9,954	6,574
26	10,843	10,727	10,888	10,882	10,401	11,374	11,581	11,620	11,993	10,928	10,044	9,543
27	10,823	10,858	10,895	10,664	10,693	11,590	11,410	11,737	11,861	11,032	9,718	11,665
28	10,835	11,053	11,045	10,803	10,797	11,557	11,614	11,855	11,554	11,102	10,096	11,855
29	10,567	10,462	10,873	10,735	10,782	11,351	11,593	11,924	11,572	11,012	10,764	11,956
30	10,752	0	10,714	10,731	10,901	11,547	11,599	11,800	11,489	10,815	10,855	11,889

Figure

Average Birthdays Each Month (1994-2014)

August	361,709	July	357,180	September	352,918	October	345,909	May	340,502	December	339,204	March	339,137	June	338,003	January	331,018	November	326,422	April	325,091	February	316,891
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Caption. <replace this text with your figure caption>.

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Resources

Data Visualization Checklist:

http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf

How to give constructive criticism:

<https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers

<https://www.makeovermonday.co.uk/gallery/>

Grading Rubric

Excellent (11-15 pts)	Good (6 -10 pts)	Fair (2-5 pts)	Needs Improvement (0 - 1 pt)
Meets ALL or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Meets MOST of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Consistently meets SOME of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort.
Sketch included: hand drawn [5 pts]	Sketch included, but was generated by computer [2 pts]	No sketch included. [0 pts]	
More advanced chart types used [5 pts]	More advanced chart types used, followed most best practices [3 pts]	Basic chart types used in the makeover [2 pts]	Little to no improvement in visual representation of the data [0 pts]

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