CGT 270 Data Visualization
Makeover Monday #2 (2018 Dataset)

Name: Quenton Hostetter **Date:** 3/28/2022 **Max points:** 25

Lab section: Monday 001

Show your work!!!

Acquire

Week: 40

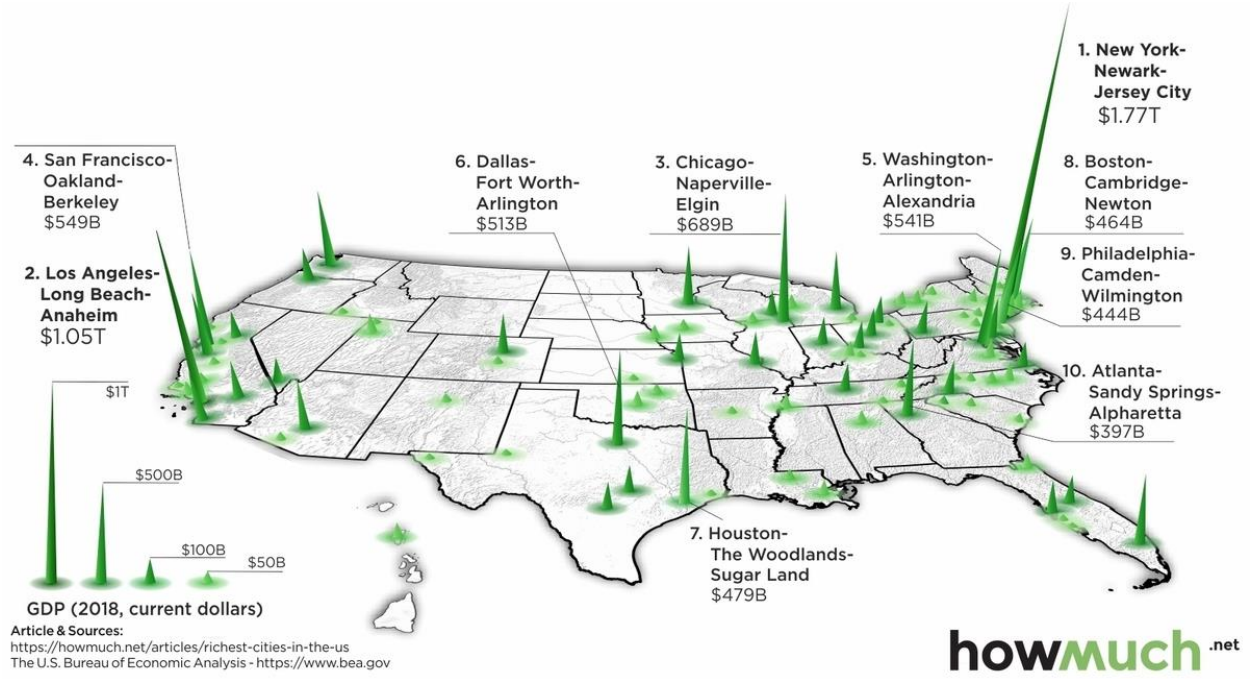
Date: Oct 5, 2022 Year: **2020** Data:

Source Article/Visualization:

The U.S. Counties With the Highest Economic Output

Data Source: BEA.gov

Represent



Critique

I really like the choice to use a map to visualize this data. Unfortunately, I disagree with the decision to represent the productive counties/cities with the spikes, as this forced the visual to be in a 3d format. Whilst there is appeal visually, it complicates the overall visual and makes it more difficult to glean information of it.

To improve the visual overall, I think we can stick with a region based map that instead displays the countries with circles that are larger with greater economic output. This would make the overall visual easier to interpret at a glance.

Mine

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What are the highest economic outputs of counties or cities for us. What state has the larges group of high economic output counties.

Filter

Rank in state	Alabama	Income	Alaska	Income	Arizon	Income	Arkans	Income	Califor	Income	Colora	Income	Conne	Income	Delawa
1	Jefferson	39,199,550	Anchorage M	20,006,260	Maricopa	##########	Pulaski	25,848,697	Los Angeles	##########	Denver	71,810,805	Fairfield	77,114,999	New Castle
2	Madison	23,543,852	North Slope	9,143,816	Pima	38,478,791	Benton	14,467,239	Santa Clara	##########	Arapahoe	43,489,732	Hartford	73,199,344	Sussex
3	Mobile	18,079,418	Fairbanks N	5,092,503	Pinal	8,752,073	Washington	10,414,772	Orange	##########	El Paso	33,110,622	New Haven	45,522,066	Kent
4	Montgomery	12,182,340	Kenai Penins	2,661,120	Yuma	7,422,021	Sebastian	5,993,166	San Diego	##########	Jefferson	29,075,319	New Londor	15,556,716	
5	Shelby	10,500,006	Matanuska-S	2,534,009	Yavapai	6,617,293	Craighead	4,256,903	San Francis	##########	Boulder	26,619,597	Middlesex	8,113,106	
6	Tuscaloosa	10,098,832	Juneau City	2,183,825	Coconino	6,321,341	Faulkner	3,423,095	San Mateo	##########	Adams	25,451,180	Litchfield	7,185,935	
7	Baldwin	6,985,901	Ketchikan G	745,136	Mohave	5,113,573	Garland	2,957,264	Alameda	##########	Weld	20,961,477	Tolland	4,875,457	
8	Lee	5,570,011	Kodiak Islan	680,484	Cochise	4,501,616	Jefferson	2,680,639	San Bernard	82,202,264	Larimer	18,624,980	Windham	4,363,941	
9	Morgan	5,092,131	Bethel Censi	647,483	Navajo	2,537,793	Mississippi	2,619,912	Sacramento	81,577,179	Douglas	17,347,206			
10	Houston	4,788,927	Southeast Fa	622,826	Apache	2,157,467	Pope	2,595,596	Riverside	78,285,711	Broomfield	6,895,273			
11	Calhoun	3,982,561	Northwest A	620,696	Santa Cruz	1,734,246	Union	2,381,739	Contra Costa	76,705,181	Mesa	5,849,815			
12	Limestone	3,482,707	Nome Censi	395,401	Gila	1,684,553	Saline	2,216,370	Kern	48,674,498	Pueblo	5,552,533			
13	Marshall	3,200,499	Sitka City ar	385,262	Greenlee	1,499,870	White	2,097,404	Ventura	46,597,738	Garfield	4,218,575			
14	Talladega	2,756,664	Aleutians We	360,360	Graham	982,532	Crittenden	1,598,537	Fresno	41,216,318	Eagle	3,446,182			
15	Cullman	2,567,437	Prince of Wa	260,584	La Paz	688,842	Crawford	1,528,616	San Joaquin	28,417,585	La Plata	3,133,046			
16	Etowah	2,563,314	Yukon-Koyu	256,635			Independenc	1,487,088	Marin	26,875,951	Summit	2,272,803			
17	Dale	2,427,204	Dillingham C	215,253			Greene	1,314,094	Santa Barba	26,623,985	Pitkin	1,846,417			
18	Colbert	2,367,932	Denali Borou	203,501			Baxter	1,239,729	Sonoma	26,611,361	Routt	1,728,212			
19	Lauderdale	2,298,418	Aleutians Ea	190,988			Lonoke	1,182,122	Monterey	25,387,255	Montezuma	1,698,561			
20	St. Clair	1,824,570	Petersburg B	184,819			Miller	1,160,106	Solano	24,020,822	Montrose	1,467,479			
21	DeKalb	1,777,822	Kusilvak Ce	141,436			Boone	1,158,133	Stanislaus	21,439,045	Morgan	1,444,845			
22	Elmore	1,709,154	Bristol Bay B	107,600			Arkansas	988,706	Placer	20,860,227	Fremont	1,273,467			
23	Walker	1,577,350	Wrangell City	93,843			Hot Spring	856,444	Tulare	17,662,200	Logan	993,645			
24	Autauga	1,520,973	Hoonah-Angl	90,774			Hempstead	842,144	San Luis Obi	15,536,252	Moffat	988,747			

I had to leave out some columns here as 50 states would be to big to show in the screenshot

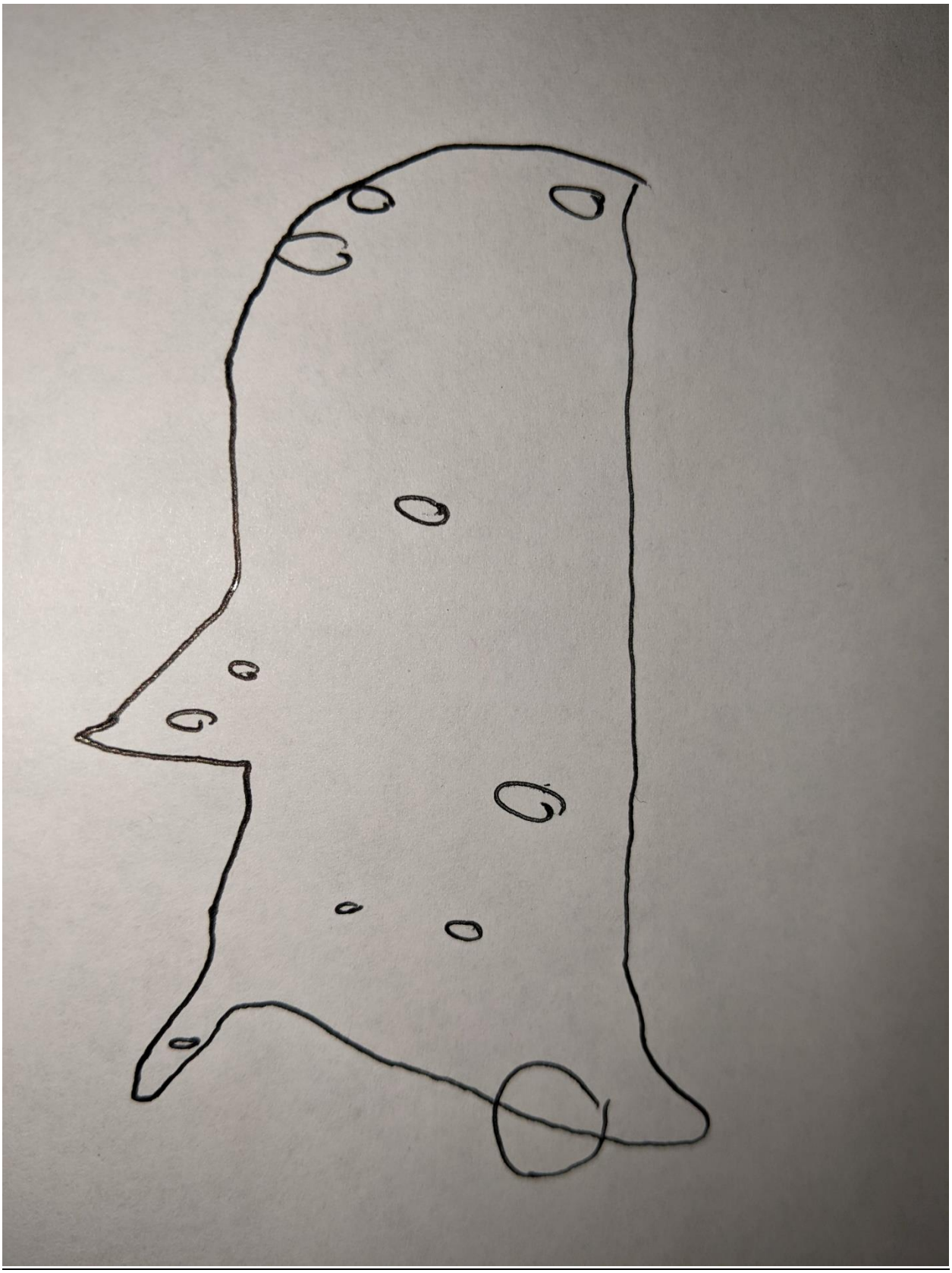
Stakeholders

- The audience is those who want to see what Counties/cities have the highest economic output.
- I assume that the data was collected using reputable methods that don't skew the data in favor of certain counties
- That every county in the US is accounted for

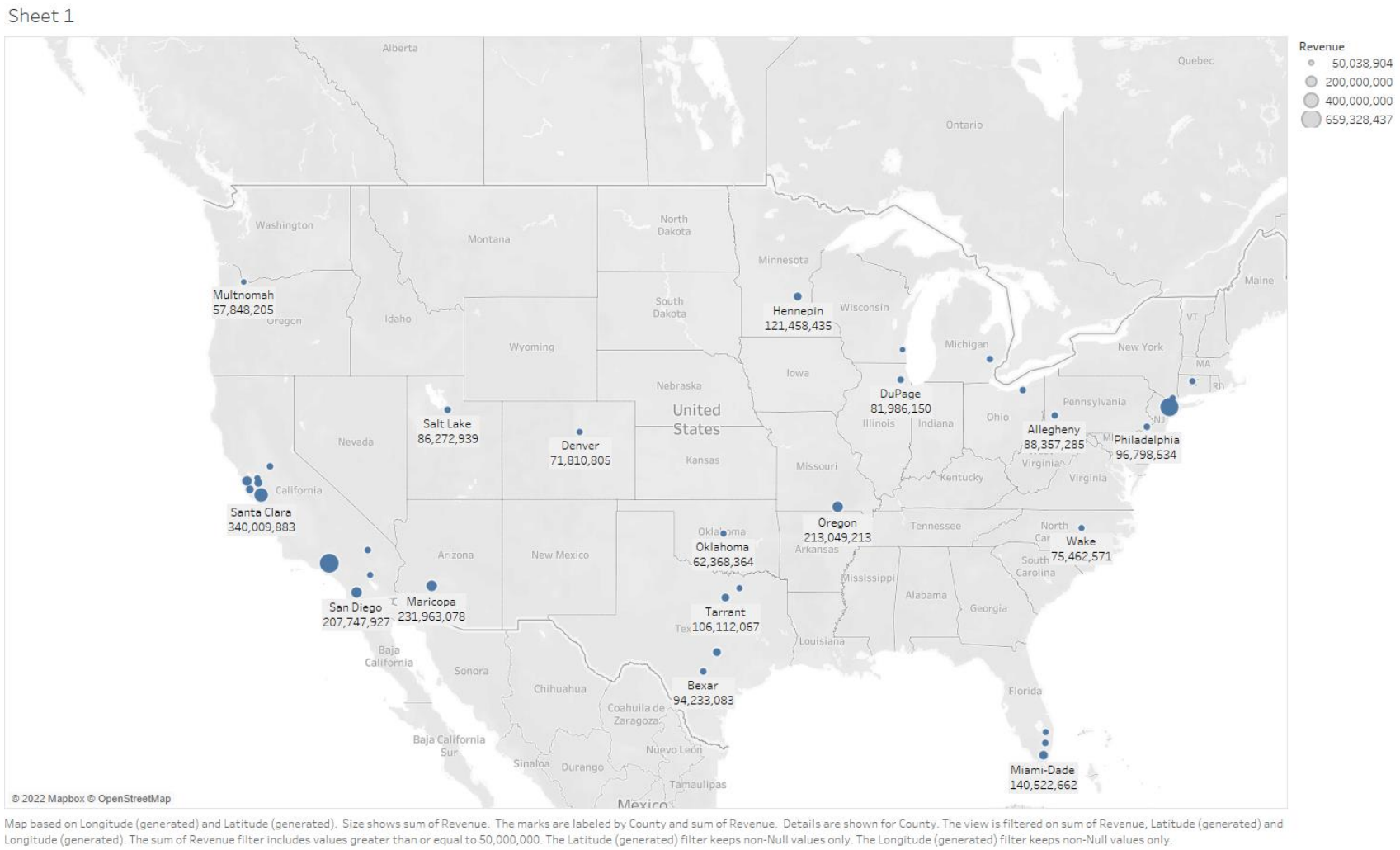
What to submit: This document in PDF format only (if you do not know how to do this, see Lab 0 Exercise 1). Save this document as: LastnameFirstInitial_CGT270S22_MakeoverMonday#2.pdf

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



<u>Refine</u> (Makeover – Landscape view)



Map based on Longitude (generated) and Latitude (generated). Size shows sum of Revenue. The marks are labeled by County and sum of Revenue. Details are shown for County. The view is filtered on sum of Revenue, Latitude (generated) and Longitude (generated). The sum of Revenue filter includes values greater than or equal to 50,000,000. The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

Figure Caption. This visual is a little easier to read. It shows NYC and LA as the primary frontrunners of generating income in the US

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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	**Good**	**Fair**	**Needs Improvement**
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. [15 pts]	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. [10 – 14 pts]	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. [5 – 9 pts]	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort. [0 – 4 pts]
Sketch included: hand drawn, data vis best practices evident. [5 pts]	Sketch included: hand drawn, lacking data vis best practices. [3 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 chat types used in the makeover [2 pts]	Little to no improvement in visual representation of the data [0 pts]