CGT 270 Data Visualization
Makeover Monday #3 (2020 Dataset)

Name: Joy Gao **Date:** 11/02/2021

Lab section: Tuesday

Show your work!!!

Acquire

Week: 40

Date: 10/5 Year: **2020** Data: The US Counties with the Highest Economic Output

Source Article/Visualization:

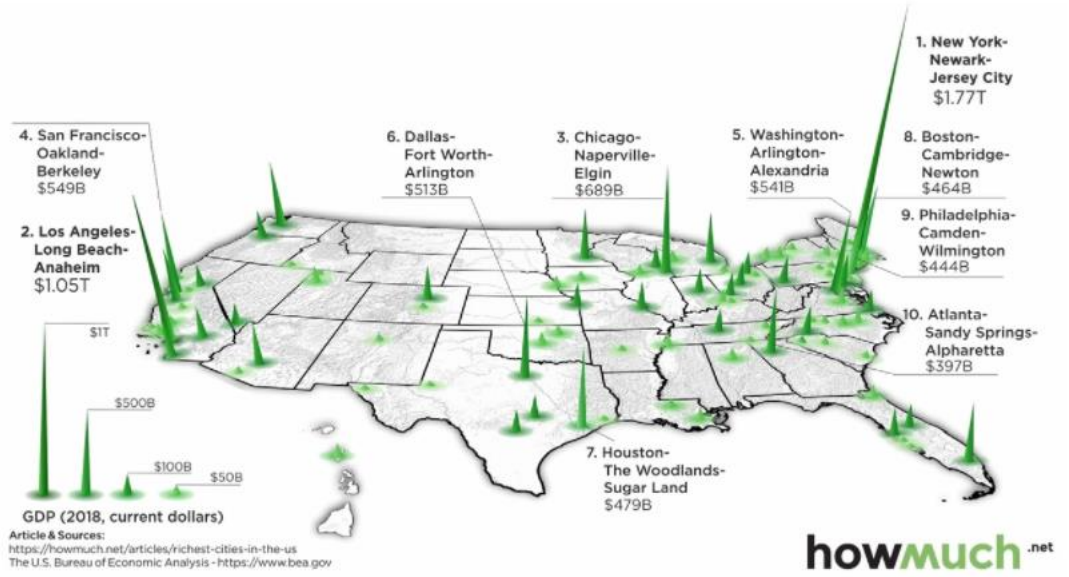
The U.S. Counties with the Highest Economic Output

https://www.makeovermonday.co.uk/data/data-sets-2018/

Represent

SUMMARY

Original Visualization



Critique

I like that the visualization labels some of the cities and the amount of economic output. It makes it clearer to tell what the specific details are. However, I do not like how the graph is 3D because it is hard to tell the difference between the amounts of economic output. I would choose an entirely different visualization to represent this data.

The method most closely related to the visualization is information visualization because the data is represented by an image (map) to amplify the user's understanding. The visualization demonstrates

overview by showing the entire map of the US including the GDP spikes where the counties are. It also demonstrates detail by including specific labels of the state, county, and economic output. The visualization demonstrates both detail and overview by including the entire map with specific labels off to the side. This is not divergent thinking because it is not a creative way of displaying the data even though it is 3D. It is convergent thinking because the visualization is trying to simplify the understanding of the data.

Mine

Which state produces the highest or least average economic output?

Filter

State/GDP

	A	B
1	State	GDP (Chair
2	Alabama	9.55E+08
3	Alabama	3.93E+09
4	Alabama	8.13E+08
5	Alabama	2.93E+08
6	Alabama	8.1E+08
7	Alabama	2.4E+08
8	Alabama	4.49E+08
9	Alabama	3.44E+09
10	Alabama	8.47E+08
11	Alabama	3.92E+08
12	Alabama	6.25E+08
13	Alabama	6.29E+08
14	Alabama	6.75E+08
15	Alabama	3.2E+08
16	Alabama	2.71E+08
17	Alabama	1.01E+09
18	Alabama	1.9E+09
19	Alabama	2.99E+08
20	Alabama	1.59E+08
21	Alabama	9.62E+08
22	Alabama	2.67E+08
23	Alabama	2.01E+09
24	Alabama	1.94E+09
25	Alabama	1.28E+09
26	Alabama	1.66E+09

Stakeholders

- Who is your audience? What assumptions did you make? What visualization tool/software did you use?

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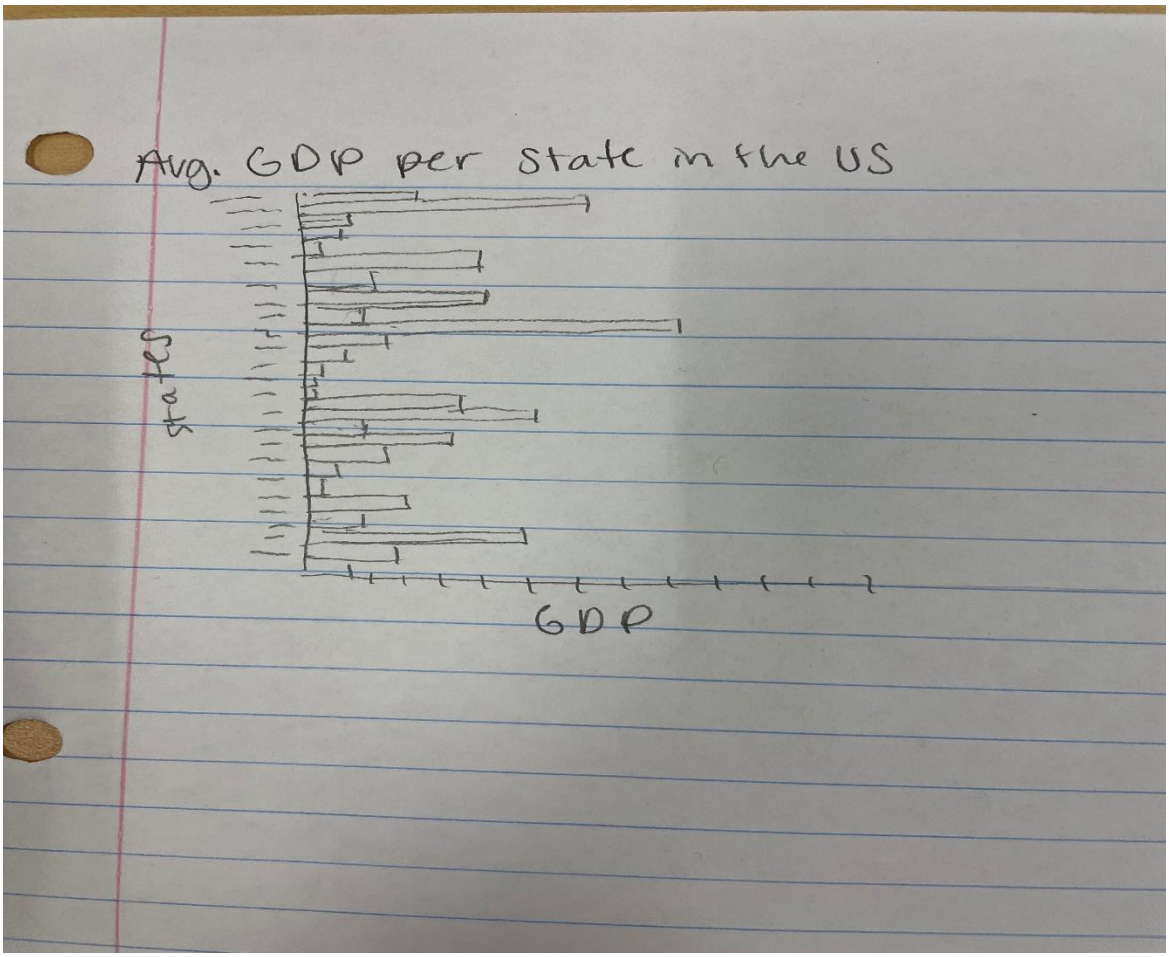
My audience is people who are interested in the US's economic output. I assumed that GDP was in the billions and in US dollars. I used Tableau to create my visualization.

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.



<u>Refine</u> (Makeover – Portrait View)

In the space below, show the computer-generated version of your sketch using the visualization tool of your choice. DO NOT draw what you sketched. The visualization should be created with the visualization tool (Tableau, Excel, Power BI, etc., of your choosing). 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).

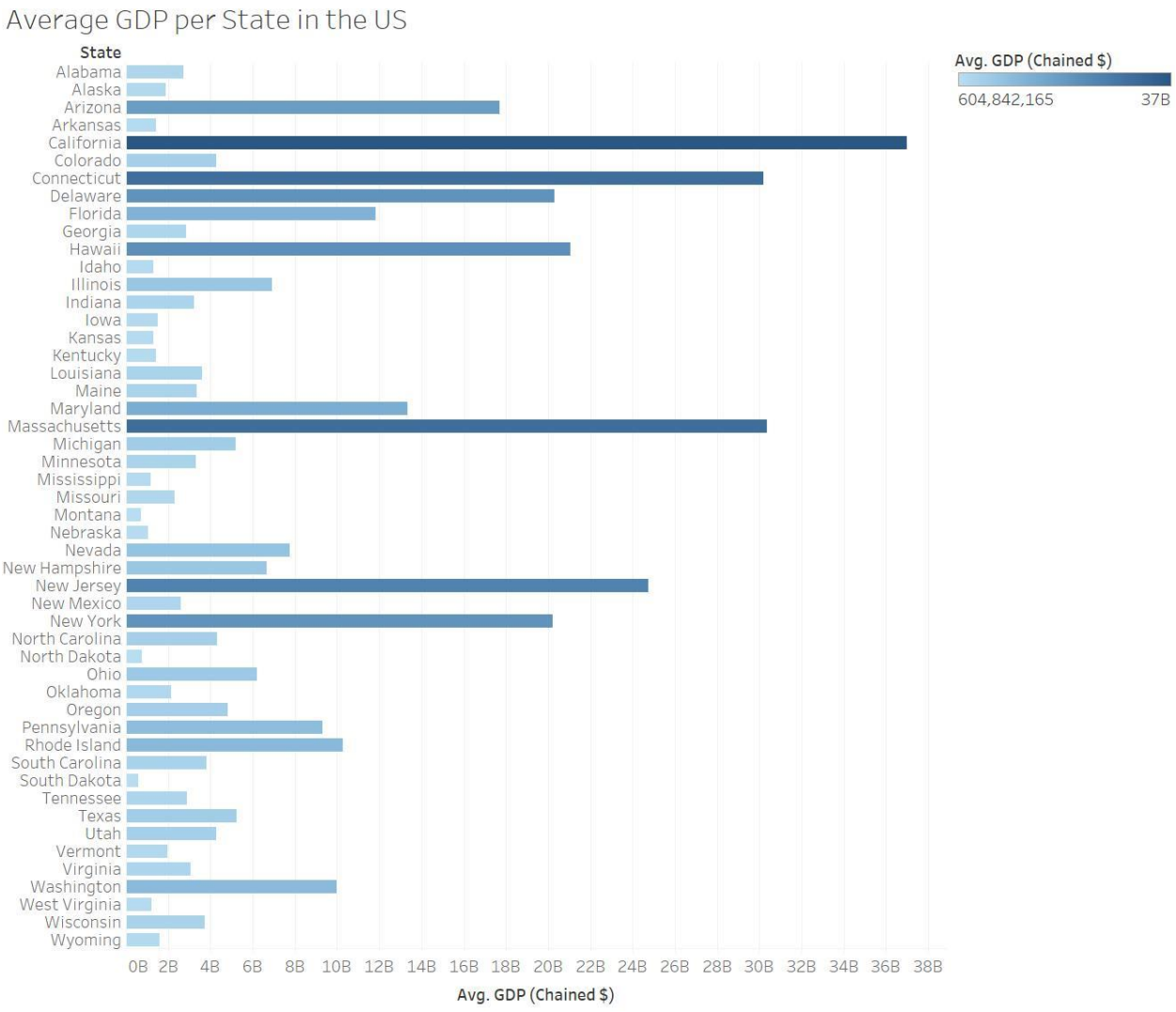


Figure Caption. Average GDP per state in the US. GDP is color coded by amount as shown in the legend.

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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]	
Makeover Monday Assessment Completed [5 pts]	Makeover Monday Assessment not completed [0 pts]		