Name: Zhenghao Fang   **Date:** 11/11/2021

Lab section: CGT 270-009

Show your work!!!

Acquire

Week: 24

Date: 13.06.2021   Year: **2021**   Data: LINK
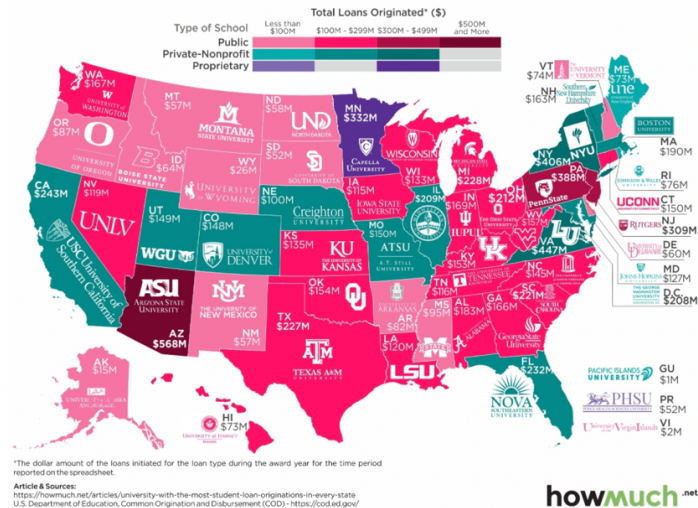
Source Article/Visualization:

What Schools Create the Most Student Loans in the U.S.?

Data Source: Common Origination and Disbursement (COD) System via howmuch.net

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

Represent

Critique

I like this visualization about using the different color to show the school type. The darker color represents more student loan origination. Using the icon to show each university's name is also easy for people to recognize. However, the whole graph looks a little bit of mess. It is hard for people to catch the main information this visualization wants to show, "the Most Student Loan Origination". Overall, it is a good visualization, but still need to improve. I will also use map and use color to represent school type, but I will use different shape to show the different loan type.

In the representation stage, I think information visualization is the most closely related to the visualization. I will make a map which is interactive. The users can keep only or exclude what they what too see or not. Most visualization methods are good in providing an overview. The users can zoom into a specific value they want to know. Visualization methods can help the user to articulate implicit knowledge and to stimulate new thinking.

Mine

What question(s) are you attempting to answer?

What is the value of disbursement of different school type and loan type?

Filter

Show (display, list, make it visible) the filtered data.

School Type

- [ ] (All)
- [x] ~~Foreign-For-Profit~~
- [x] ~~Foreign-Private~~
- [x] ~~Foreign-Public~~
- [ ] Private-Nonprofit
- [ ] Proprietary
- [ ] Public

I filter the $ of disbursement which is greater than 44,275,081

I filter the school type which keep only Private-Nonprofit, Proprietary, Public.
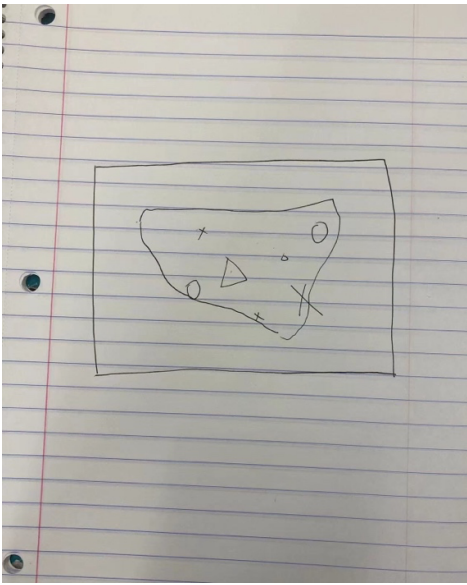
Stakeholders

- Who is your audience? What assumptions did you make? What visualization tool/software did you use?
- The senior high school students who want to apply student loan and choose the university
- I assume the proprietary is the private school which is non-governmental and have profit.
  I assume the public school is the governmental and have profit.
- Tableau

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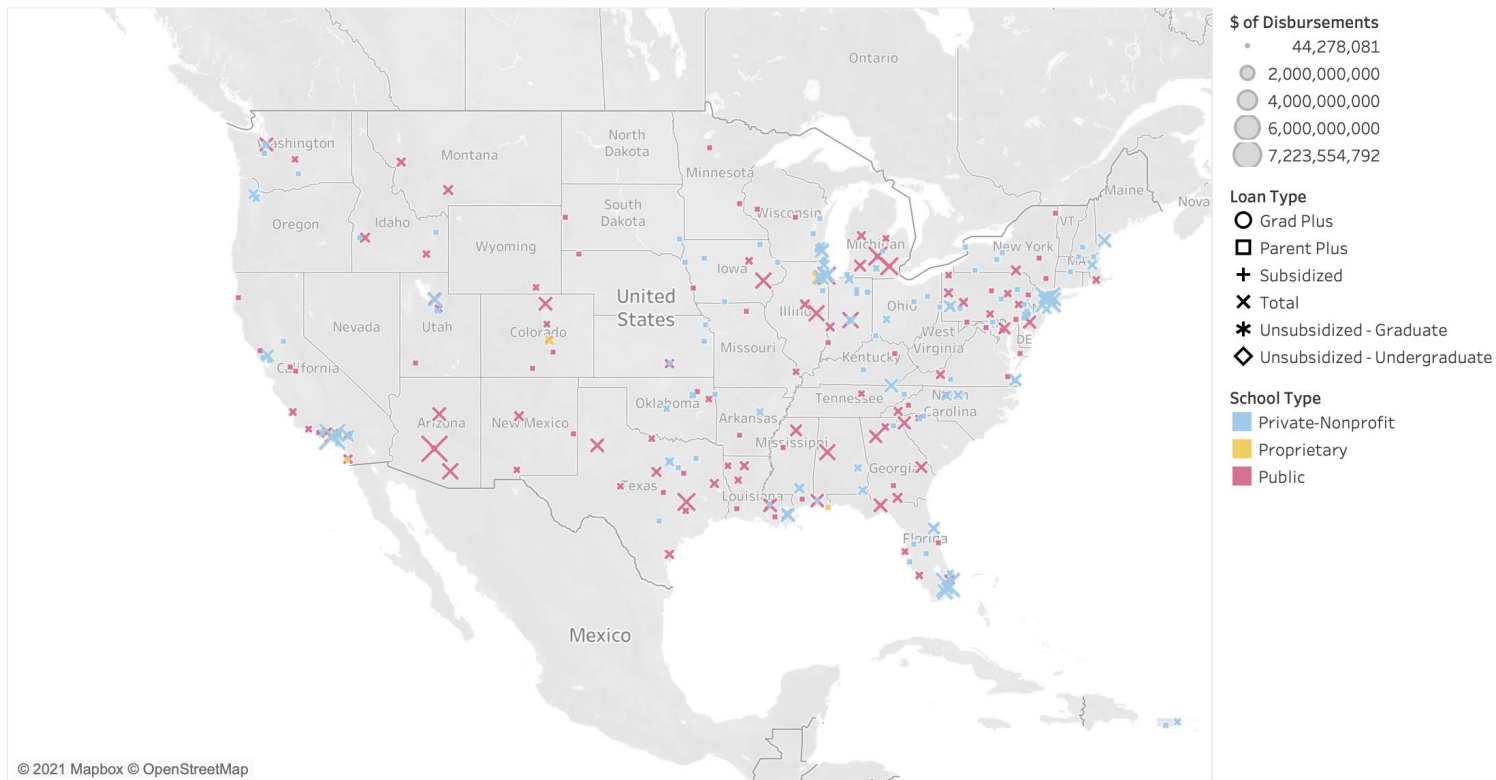
CGT 270 Data Visualization
Makeover Monday #4 (2021 Dataset)

Refine (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). <mark>You MUST use more advanced chart types for your makeover.</mark> **Chart types that are not allowed: bar (single or stacked), pie, line charts, scatter plots, no tables.**

The Value of Disbursements in Each City with Different School and Loan Type

Map based on Longitude (generated) and Latitude (generated). Color shows details about School Type. Size shows sum of $ of Disbursements. Shape shows details about Loan Type. Details are shown for City and School. The view is filtered on School Type, which keeps Private-Nonprofit, Proprietary and Public.

Figure Caption. <. A map. The color shows the School Type. The Size shows the value of Disbursement. The bigger one represents the larger value. The shape shows the loan type.>.

Fall 2021 – Makeover Monday #4

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 chat types used in the makeover [2 pts]	Little to no improvement in visual representation of the data [0 pts]