

CGT 270 Data Visualization  
Makeover Monday #1 (2016 Dataset)

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Date: 3/21/2022

Max points: 25

Lab section: Thursday 9:30

Show your work!!!

Acquire

Week: 11

Date: May 2

Year: 2016

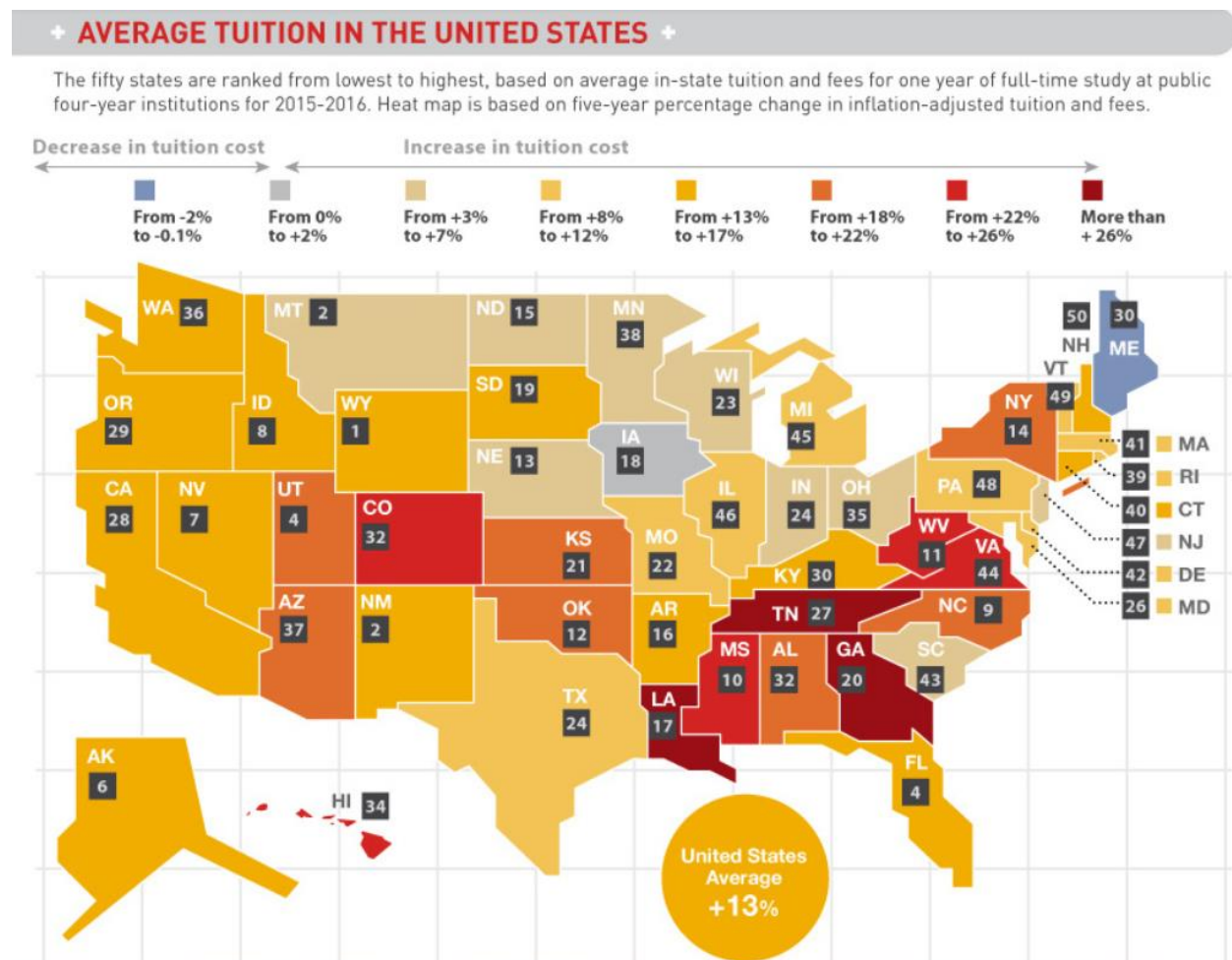
Data: Average Tuition in the US

Source Article/Visualization:

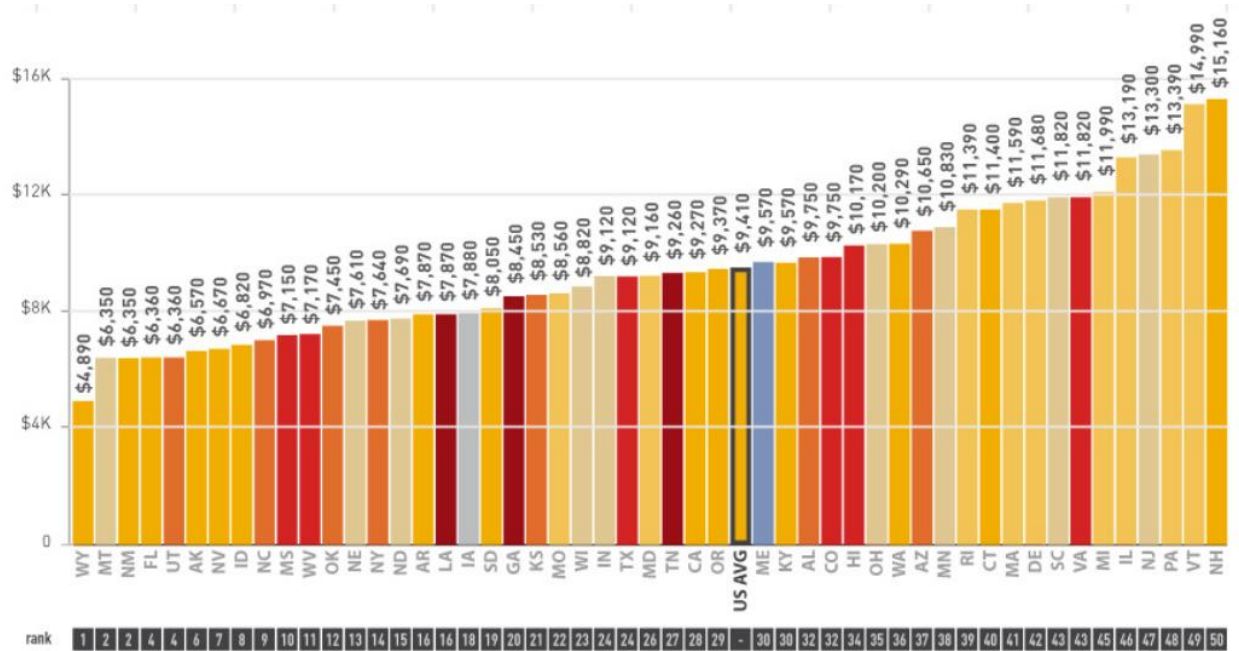
<https://onlinembapage.com/average-tuition-and-educational-attainment-in-the-united-states/>

<https://www.makeovermonday.co.uk/data/data-sets-2016/>

Represent



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## Critique

A few things, the percentages in the map are unclear on what they represent since the range of time is not given. Also, the rankings of the data are not necessary in order to show which states have the largest increase and decrease. The bottom of the visualization is a little confusing since it tries to do too much.

Informational Visualization, and is a data map and presents information based on location

## Mine

What question(s) are you attempting to answer? The cost of tuition in different states.

## Filter

| Rank | State          | Cost of Tuition in-state for one year (\$) |
|------|----------------|--|
| 1    | Wyoming        | 4890                                       |
| 2    | Montana        | 6350                                       |
| 3    | New Mexico     | 6350                                       |
| 4    | Florida        | 6360                                       |
| 5    | Utah           | 6360                                       |
| 6    | Alaska         | 6570                                       |
| 7    | Nevada         | 6670                                       |
| 8    | Idaho          | 6820                                       |
| 9    | North Carolina | 6970                                       |
| 10   | Mississippi    | 7150                                       |
| 11   | West Virginia  | 7170                                       |
| 12   | Oklahoma       | 7450                                       |
| 13   | Nebraska       | 7610                                       |
| 14   | New York       | 7640                                       |

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|    |                |       |
|----|----------------|-------|
| 15 | North Dakota   | 7690  |
| 16 | Arkansas       | 7870  |
| 17 | Louisiana      | 7870  |
| 18 | Iowa           | 7880  |
| 19 | South Dakota   | 8050  |
| 20 | Georgia        | 8450  |
| 21 | Kansas         | 8530  |
| 22 | Missouri       | 8560  |
| 23 | Wisconsin      | 8820  |
| 24 | Indiana        | 9120  |
| 25 | Texas          | 9120  |
| 26 | Maryland       | 9160  |
| 27 | Tennessee      | 9260  |
| 28 | California     | 9270  |
| 29 | Oregon         | 9370  |
| 30 | Maine          | 9570  |
| 31 | Kentucky       | 9570  |
| 32 | Alabama        | 9750  |
| 33 | Colorado       | 9750  |
| 34 | Hawaii         | 10170 |
| 35 | Ohio           | 10200 |
| 36 | Washington     | 10290 |
| 37 | Arizona        | 10650 |
| 38 | Minnesota      | 10830 |
| 39 | Rhode Island   | 11390 |
| 40 | Connecticut    | 11400 |
| 41 | Massachusetts  | 11590 |
| 42 | Delaware       | 11680 |
| 43 | South Carolina | 11820 |
| 44 | Virginia       | 11820 |
| 45 | Michigan       | 11990 |
| 46 | Illinois       | 13190 |
| 47 | New Jersey     | 13300 |
| 48 | Pennsylvania   | 13390 |
| 49 | Vermont        | 14990 |
|    | New            |       |
| 50 | Hampshire      | 15160 |

**Stakeholders**

- Who is your audience? What assumptions did you make? What visualization tool/software did you use? Audience is for students and parents looking at where to live for college, assumptions made are that all colleges are included with state tuition, and I used Tableau

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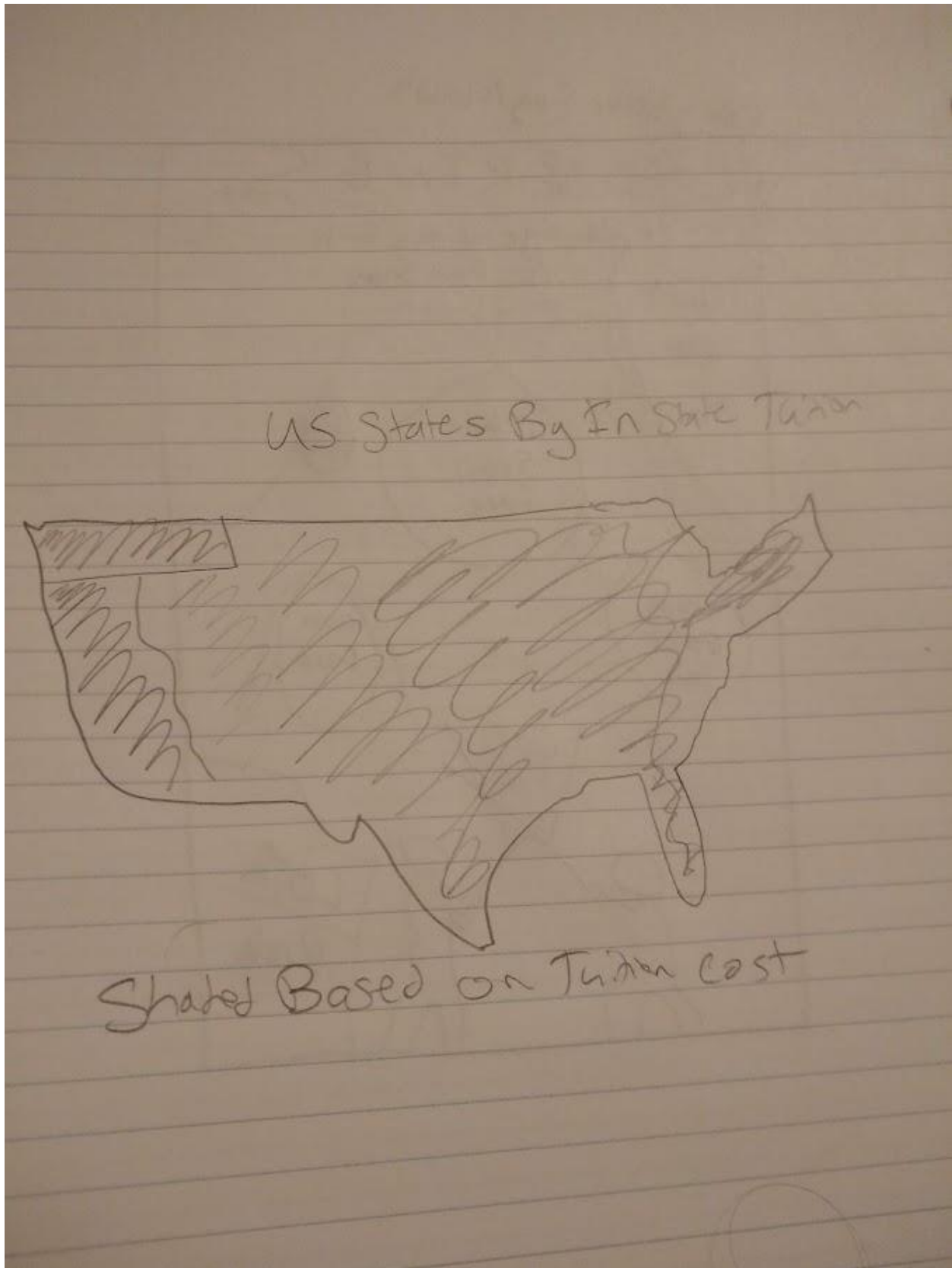
**What to submit:** This document in PDF format only (if you do not know how to do this, see Lab 0 Exercise 1). Save this document as: **LastnameFirstInitial\_CGT270S22\_MakeoverMonday#1.pdf**

**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**

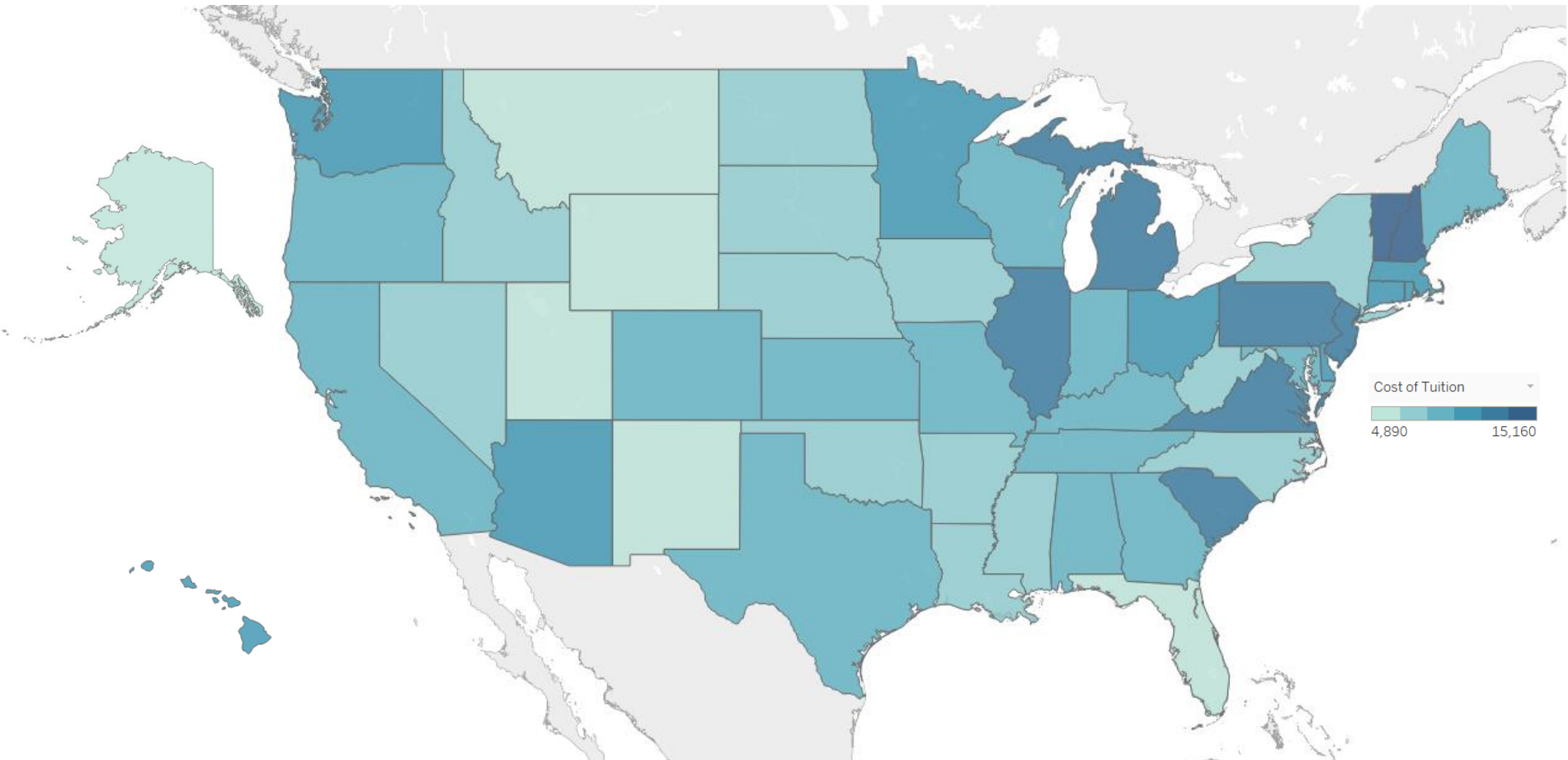
In the space below, sketch out your ideas for refined visualization. You must use pen/pencil and paper to sketch out your idea, then take a photo of your sketch and include it in the space below.

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Refine (Makeover – Landscape view)

## Cost of In State Tuition



A map of the United States filled by cost of tuition from 2015-2016

Spring 2022 – Makeover Monday #1

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### Resources

Data Visualization Checklist:

[http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist\\_May2016.pdf](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 <b>ALL</b> 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.<br>[15 pts] | Meets <b>MOST</b> 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.<br>[10 – 14 pts] | Consistently meets <b>SOME</b> 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.<br>[5 – 9 pts] | Little to no evidence of the understanding of the data visualization process.<br><br>Lackluster makeover or no makeover.<br><br>Little effort.<br><br>[0 – 4 pts] |
| Sketch included: hand drawn, data vis best practices evident.<br>[5 pts]  | Sketch included: hand drawn, lacking data vis best practices.<br>[3 pts]  | Sketch included, but was generated by computer<br>[2 pts]  | No sketch included.<br><br>[0 pts]  |
| More advanced chart types used<br>[5 pts]   | More advanced chart types used, followed most best practices<br>[3 pts]   | Basic chart types used in the makeover<br>[2 pts]  | Little to no improvement in visual representation of the data [0 pts]   |