CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

Name: Kailan Barnes **Date:** 10/19/2021

Lab section: 007 - Tuesday

Show your work!!!

Acquire

Week: 28

Date: Jul 9 Year: **2018** Data: Volcano Eruptions

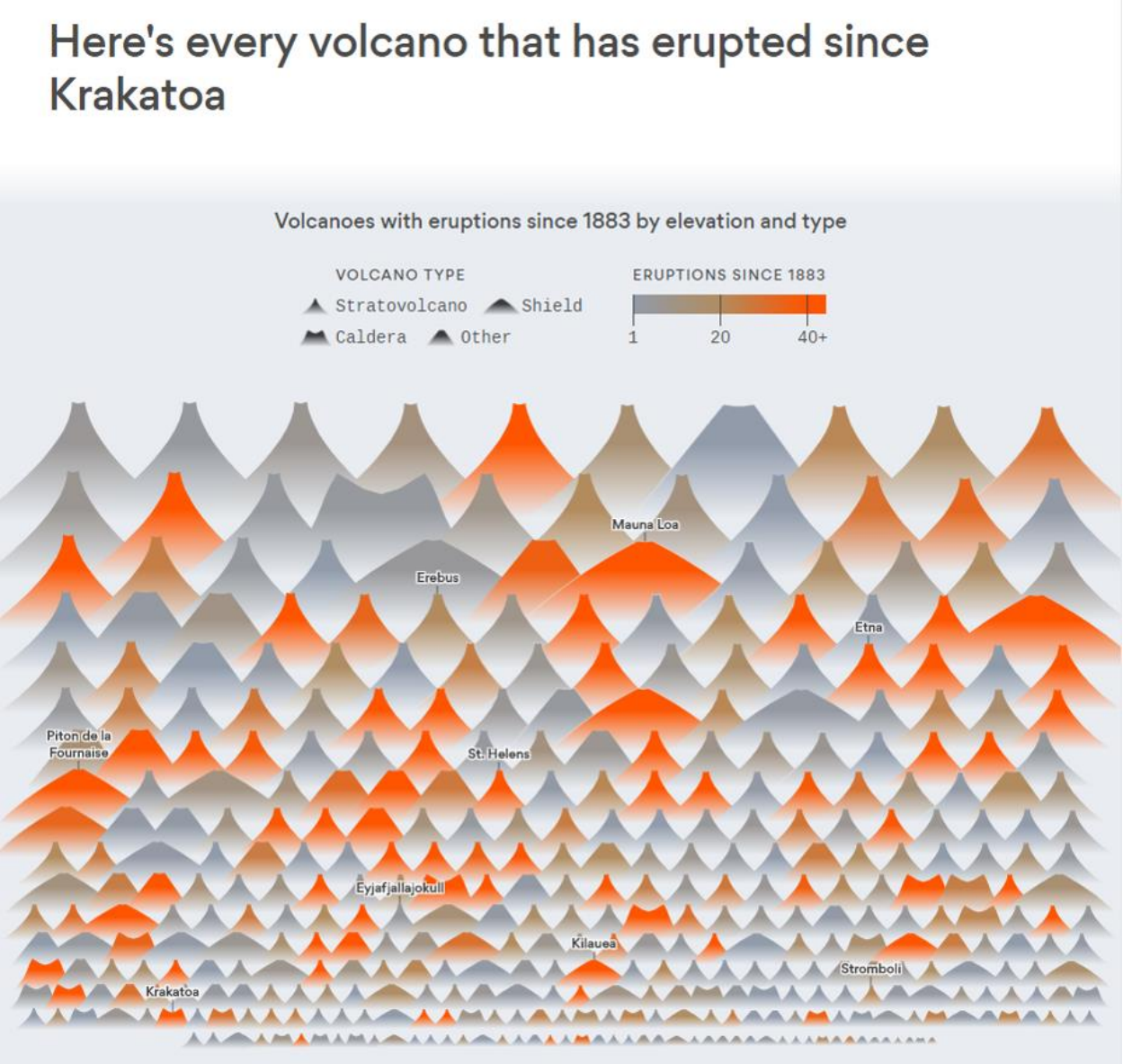
Source Article/Visualization:

The Global Volcanism Program database currently contains 1,357 volcanoes with eruptions during the Holocene period (approximately the last 10,000 years). Primary names are sorted below in alphabetical order.

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

CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

Represent



Critique

It is hard to compare individual volcanoes that are not directly next to each other, as well as being unable to accurately measure the elevation of these volcanos despite the title saying so.

Critique the visualization: what do you like about it, dislike about it, what do you plan to do differently? Remove this text and highlighting before submitting your work.

Mine

How do the heights of volcanoes compare to the last time they have erupted?

Filter

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

CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

Volcano Name	Last Known Eruption	Elevation (m)
Abu	-6850	641
Acatenango	1972	3976
Acigol-Nevsehir	-2080	1683
Adams	950	3742
Adams Seamount	-50	-39
Adatarayama	1996	1728
Agrigan	1917	965
Agua de Pau	1564	947
Aguilera	-1250	2546
Agung	2018	2997
Ahyi	2014	-75
Aira	2018	1117
Akademia Nauk	1996	1180
Akan	2008	1499
Akita-Komagatake	1971	1637
Akita-Yakeyama	1997	1366
Akutan	1992	1303
Alaid	2016	2285

I removed the columns that contained extraneous information to my problem, such as location and common rock types, as well as volcanoes with dates of eruption that were unknown. I also transformed the Last Known Eruption column so that BCE values were negative to work with Tableau.

Stakeholders

- Who is your audience?
    - People who want to learn more about volcanoes, geologists
- What assumptions did you make?
    - Since the question I am trying to answer is a comparison between the eruption date and height of volcanoes, I filtered out all data that was extra to that. I also assumed that all the information given is truthful and does not have any errors. People who look at my visualization are not trying to find out information on a specific volcano.
- What visualization tool/software did you use?
    - Tableau

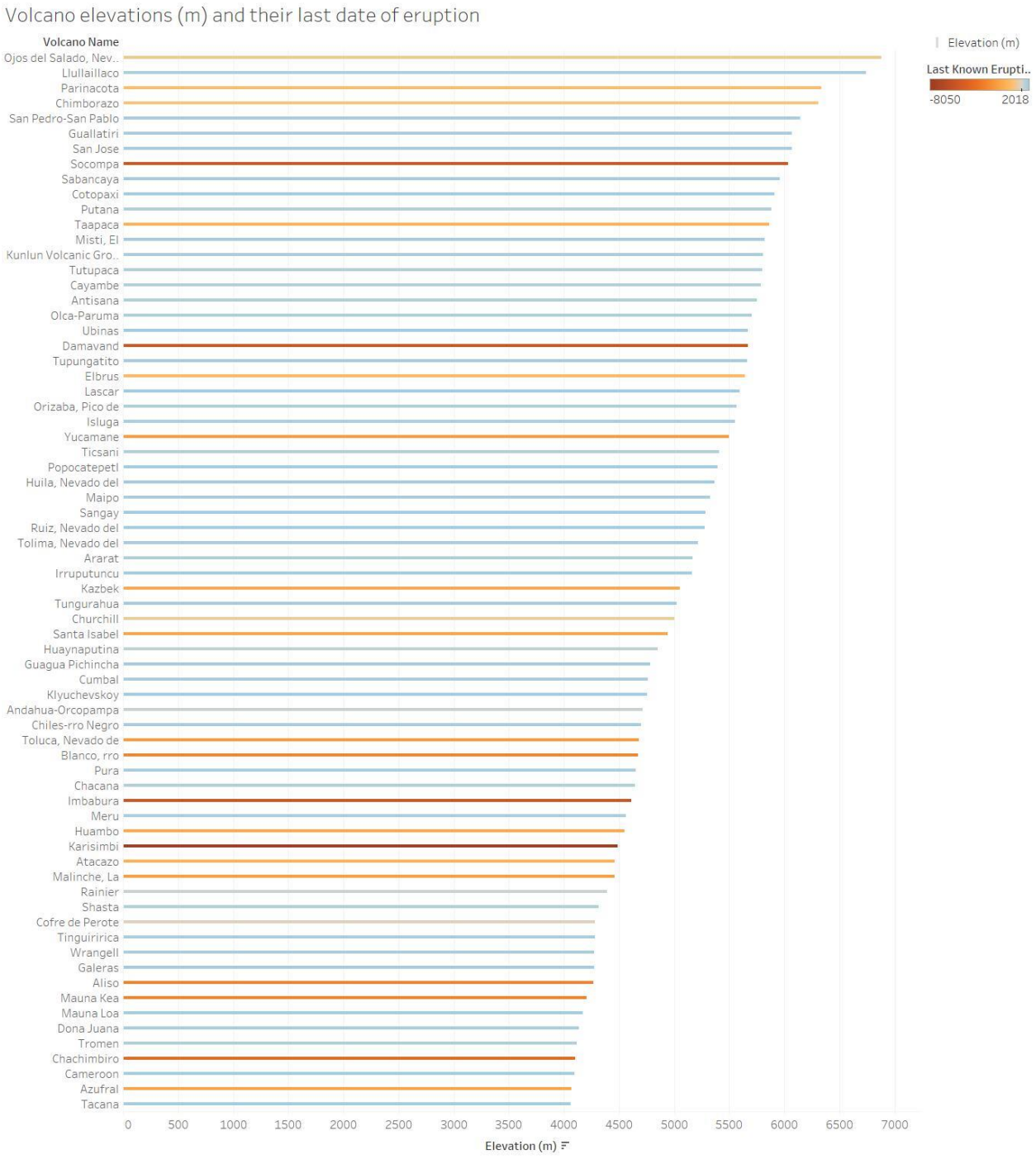
What to submit: This document in PDF format only (if you do not know how to do this, ask).

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!

CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

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



Elevation (m) for each Volcano Name. Color shows details about Last Known Eruption. Size shows details about Elevation (m). The view is filtered on Volcano Name and sum of Elevation (m). The Volcano Name filter keeps multiple members. The sum of Elevation (m) filter ranges from 4,000 to 6,879.

This is a bar chart shows the dates of eruption for volcanoes, with negative values representing BCE, and their heights, in meters, with the volcanoes included being over 4 kilometers in elevation.

CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

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 (21-25 pts)	**Good (10-20 pts)**	**Fair (5 – 9 pts)**	**Needs Improvement (0 – 4 pts)**
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.