**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/>

**Represent**A picture containing text, orange, screenshot

Description automatically generated

**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.

|  |  |  |
| --- | --- | --- |
| **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!

**Refine (Makeover – Portrait View)**

Chart

Description automatically generated with low confidence

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.

**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. |