UDACITY

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Telling Stories with Data

REVIEW

HISTORY

Meets Specifications

Dear Emmanuel,

Congrats on passing this big project from the very first attempt! 🎉 This is something we don't see often, so you should be really proud of yourself😁 I enjoyed reviewing your thorough, well-thought submission. Mastering Tableau in particular and data visualization in general can be tricky, but rewarding for sure - I can tell that it already provided you with a powerful analytical tool for solving complex business problems and you do know how to use it for good.

All the best luck with your further journey, stay Udacious and have a great day! 🌞

🖍 P.S. Feel free to apply newly acquired data visualization knowledge to other services for creating interactive dashboards other than those covered by this ND, like Google Data Studio or ActiveGraph!

Visualization is Explanatory

✓

The visualization centers on a specific, clear finding in the data.

✅ Perfect - you obviously started with interesting YouTube-related null hypotheses and ended with **clearly presented, unbiased findings**, just like expected.

Tip:

✏️ To improve visual hierarchy even further, consider adding Summary tiles to your next dashboard.

✓

The selected finding is clearly communicated. Design choices foster communication between the reader and the visualization.

Visualization does not add additional colors, shapes, or other design elements in an unnecessary way. Rather, each additional element should add to the insight being made.

✅ All the visualizations have expected **color legends** and **descriptive, readable titles**.

✅ You also managed to maximize actionable insights by minimizing dashboard objects and adding annotations to them. Data visualization is 50% art and 50% science indeed! 😃

Tip:

✏️ Since you've used **bar charts** as one of the main types of visualizations for communicating your insights, here's something you might find interesting - a very nice guide to perfecting your bar charts.

Design

✓

The written summary should include a brief description of the visualization and state at least one finding.

A reader's summary of the graphic would closely match the written summary in the writeup, and a reader is able to identify at least one main point or relationship that the graphic attempts to convey.

To reiterate your report should include at least 3 sets of

- Link(s) to your dashboards or story
- Summary: brief description of the visualization and the main story or findings conveyed (please include an insight you are able to make from the visualization)
- Design: explain any design choices you made including changes to the visualization after collecting feedback
- Resources: list of Web sites, books, forums, blog posts, GitHub repositories etc that you referred to or used in this submission (Add N/A if you did not use such resources).

✅ Insights
✅ Links and screenshots
✅ Summary
✅ Design
✅ Resources

✓

The visualization includes interaction or animation. The inclusion of filters and additional variables shown in tool tip as appropriate within the visualization interaction are present.

At minimum you are required to include a filter in one visualization and you are required to include a tool tip in at least one visualization. You should strive to include these anywhere where they would benefit your visualization.

Great, I was able to reach each insight within a couple of clicks!

✅ Your **tooltips, filters, interactions** are simple but they really add to the information the viewer gets from the visualization.

✓

Color choices must accurately reflect the data and be chosen with accessibility in mind. For example, values that span from negative to positive numbers should be encoded with a diverging palette. Also, the color palettes should work for colorblindness.

✅ As requested, you used a color palette that is **minimalistic** and works for people with **colorblindness**.

Tip:

🖍It's great that you understand the importance of color in data visualization already. Here's a couple of color resources - might be useful for your next project:

- Introduction to color theory with tons of great examples.
- Colors for data visualization guide
- Very handy palette generator!
- 5 tips for designing colorblind-friendly visualizations

✓

Line plots for sequences, bar charts for categorical variables, etc.

✅ Your choice was perfectly effective!

Tip:

🖍 Even after you've chosen the right type of chart, it's a good practice to always doublecheck whether you are including **too many variables**. In general, I recommend you reduce to 5-10 or fewer categories across any visualization to communicate an answer to the question you are posing even better since it becomes unreadable and hard to hold all of that data in your mind.

🖍 For more charts and graphs ideas, check this data visualization catalog with all the most and not-so-popular types of them explained.

Completeness

The three visualizations are included. These visualizations may be a single worksheet, but at least one must be a dashboard involving more than one worksheet. A dashboard counts as a single visualization. All visualizations must be clearly connected to a finding, and foster the interaction pieces (filters, colors, etc.) that allow for the finding to be found easily by a user.

One Dashboard is required. A Dashboard is an option in Tableau that allows you to combine multiple charts into one page. This counts as 1 visualization.

Two other unique visualizations are also required, These can be two single worksheets, two more dashboards, two more stories, or any combination of worksheet, dashboard, or story.

✅ Enough visualizations and their combinations were provided.

The visuals need to be saved to Tableau Public and the links to those visuals must be provided in the report along with the finding for each visual.

If you are unable to save to Tableau Public please include screenshots in your pdf report of each visualization. If you choose to use screenshots you should include at least one screenshot of your filters being used (a before and after picture of the visualization).

✅ I was able to reach your visuals saved to *Tableau Public* easily.

The insight(s) should be accurate and easily available from the filters and interactivity available in the visual.

✅ All the visuals are an **accurate representation** of the insight you are stating.

Each visual must be appropriate for the particular data type. However, you cannot submit three bar charts, or three line charts. You should have a minimum of at least three different types of visuals across all of your turned in items.

3 Different types of charts required, here are some types you can choose

- Bar Chart
- Line Chart
- Scatter Chart
- Histogram

- Bubble Chart
- Map
- Area Chart
- Pie Chart

  etc

✅ Among the types of visualizations in this submission are **line charts, area plots, box plots, bubble charts, cartograms, bar charts, and circle plots**. A variety of charts really helped to present your insights in an attractive way to make them readable at first glance!

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