Activity: Visualize Your Dataset

So now you have your team problem, and you have gathered the necessary associated data that you need. It's time to put that data in compelling visuals for your team.

This an individual activity which you must do alone. You will share the visuals that you create with your team in the next activity.

Instructions

Using your data set from the previous activity, Finding a Relevant Dataset for Your GCGO Problem, (https://intranet.alxswe.com/projects/100999"target="blank") it is time to create a visual of your data.

We recommend that you work in the same Google Sheet as the dataset activity so you have all your information in one place. This will also make it easier for you to share your data, visualizations and analysis with your team.

1. **Review your dataset (the data that you tracked and cleaned), and ask yourself questions relevant to your problem.** For example:
    - What are the trends or patterns in the data?
    - Are there any significant changes or fluctuations over time?
    - Are there any notable differences between categories or variables?
    - What are the highest or lowest values recorded?
    - Are there any correlations or relationships between variables?
2. **Based on the key questions and the nature of your data, choose appropriate visualization types that effectively convey your insights.** You can use:
    - Line charts to show trends or changes over time.
    - Bar charts to compare values between categories or variables.
    - Pie charts to display proportions or percentages.

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3. **Create 3 compelling visualizations of your data.**
    - Select the data range relevant to the specific visualization.
    - Choose the appropriate chart or graph type that best represents the data.
    - Customize the visual elements such as colours, labels, and titles for clarity. Make it engaging and compelling to the eye.
    - Add axes labels, legends, and annotations to make your visual message clear. Lines with no label mean nothing, so think about the use and add clarity so they understand what they are looking at.
    - Adjust the scales or ranges to clearly display the data insights. Your scale and data ranges should be as close to your data as possible. *For example, if your data shows that 1 - 200 trees are cut down every year in Addis, and the acceptable number is 20 per year, your scale should ideally be between 10 - 220. Using a scale of 1 - 1000 in this case would weaken your visualizations.*
    - Fine-tune your visualization to make it easy to understand and visually appealing. You can change font type, colours and layout. Keep it professional :-)
4. **Interpret and Analyze:** Analyze the visualizations you have created and draw insights from them. Look at the key questions you asked earlier in point 1 and look for patterns, trends, or notable observations in the data. What do you see? Your insights must clearly explain the meaning behind each visualization, highlighting the key findings or trends that are relevant to your GCGO problem. Include your analysis in your Google Sheet.
5. **Share the link to your Google Sheet with your data set, visualizations and insights with your team online.** Make sure you set the link to “anyone can view” so that your team can open the spreadsheet.

That is it for now. We salute your hard work! Well done!

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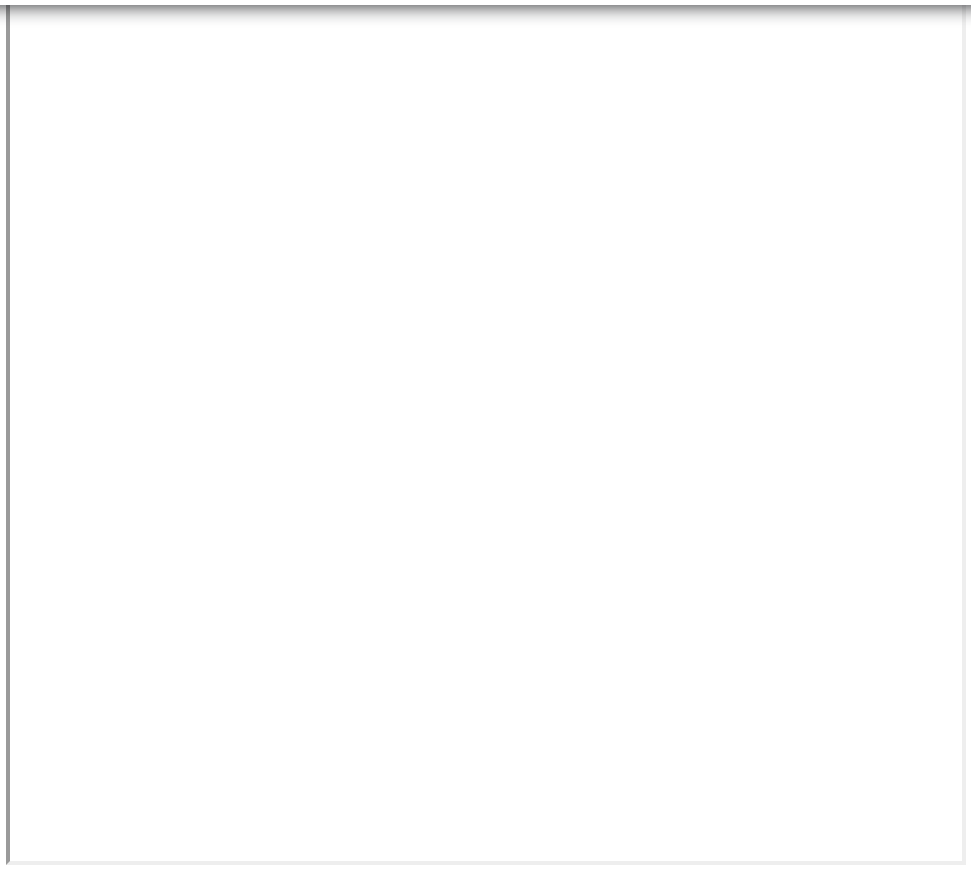

Please confirm that you have shared your Google Sheet with your data, visualizations and insights with your team on the Portal.

« Back (/concepts/104345?project_id=101000)

Next » (/concepts/104538?project_id=101000)