



Review of Victoria's Final Project

49/100

Hi Victoria,

I see you put effort into exploring the Gapminder data on HIV ART coverage and HIV deaths. Good work.

However, there is still quite some work to do to make the dashboard complete.

At your final grade, you will be below the course pass mark, so try to make the needed changes and resubmit your work.

We accept submissions up to 3 months after the end of the course.

Data Selection and Manipulation

- Good choice of indicators: ART coverage and HIV deaths are relevant and allow for interesting analysis.
- You correctly melted the datasets to long format, which is usually needed for plotting with Plotly Express.
- Merging the two datasets using `pd.merge` was done correctly.
- You demonstrated a good range of pandas functions like `read_csv`, `melt`, `astype`, `merge`, `query`, `isin`, `groupby`, and `nlargest`.

Data Selection and Manipulation Grade: 23/25

Dashboard Structure

- The main issue here is that the submission is a regular qmd script rather than a dashboard.

Dashboard Structure Grade: 0/15

Visualization Elements

- You created several plots (around 11), including box plots, bar charts, line plots, pie charts, scatter plots, violin plots, and a map. This shows a good variety of visualization types.
- The assignment required at least 12 *display elements*, which include things like value boxes, tables, and text boxes explaining insights, in addition to plots. Your script focuses mainly on plots.
- Most plots have clear titles and labels, which is good.
- However, dashboards also need surrounding text to explain *what* insights we should get from the visuals. This narrative context is missing.
- Some plot choices could be improved:
 - A pie chart like `fig_pie` isn't the best way to compare ART coverage between countries; a bar chart often makes comparisons easier.
 - The violin plot `fig_violin` uses data filtered for only one year (2010) and a few countries. Violin plots are usually more informative when showing distributions over more data points or categories.

Visualization Elements Grade: 14/30



Code Quality

- Your code is generally readable and follows a logical sequence for data loading, cleaning, processing, and plotting.
- Adding comments to explain different sections or complex steps would improve readability further.
- Using `fillna(0)` should be done cautiously. Make sure it aligns with the actual meaning of the data.

Code Quality Grade: 8/10

Deployment and Structure

- The assignment required deploying the dashboard to GitHub Pages and providing a link. It appears the dashboard wasn't deployed or the link wasn't available.

Deployment and Structure Grade: 0/10

Originality, Creativity, and Insight

- You explored the relationship between ART coverage and HIV deaths, which is a meaningful analysis.
- Focusing on specific countries like Namibia adds a nice touch of detailed exploration.
- More text would be good to explain the plots and the insights.

Originality, Creativity, and Insight Grade: 4/10

Overall, Victoria, you've shown good skills in data manipulation and visualization using pandas and Plotly. The main area for improvement is shifting from a pure analysis script to building and structuring the interactive dashboard as required by the project specifications, including deployment and adding narrative text. Keep practicing with Quarto dashboards; they are a great way to present your findings!