**Visualization Canvas**

*“The greatest value of a picture is when it forces us to notice what we never expected to see.*

**John Tukey**

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| **Story**  *What’s the problem?*  *What question do you want to answer?*  *Why did you choose it?*  *What is the context?* | Today one of the most discussed topics in Armenia and around the world is vaccination against Covid-19. The main problems are what vaccines are in use, how things are going in different countries, what vaccination programs are applied, and where they are more advanced. |
| **Audience**  *Who is going to use the viz?* | The visualizations will be interesting for everyone interested in Covid-19 vaccinations and programs of vaccination applied in different countries until now. |
| **Data**  *What type of data do you have?*  *Where is it stored?*  *Is it static or changing?* | The data is static, from Kaggle, it is stored in two CSV files - one is about vaccination programs applied by different countries and second-country vaccinations by manufacturer, type of vaccination. Also I think to use data about coronavirus cases to compare and find patterns between confirmed cases (deaths) and vaccination programs. |
| **Tools**  *What tool(s) are you going to use?*  *Why did you choose it?* | I'm going to use pandas, numpy, matplotlib, seaborn and plotly for data frame manipulation and visualizations. |
| **Charts**  *What types of charts are chosen?*  *Why are they the best to answer the question posed?c*  *Any real alternatives?* | I'm going to use bar charts for comparison, line charts to visualize and compare vaccination trends, a world map to assess vaccination progress by now, and so on. |