

IPD: FINAL PROJECT

Giorgi Niniashvili

1) What topic did you choose for your dashboard?

I chose world financial crises as my topic for the dashboard. I was doing student conference on 2007-2008 crisis and wanted to implement my dashboard for it but I just didn't have the time but I still really liked the idea as it is relevant today both on personal level and worldwide (with COVID-19 crisis few years ago and now war in Ukraine, which can cause damages with supply chains).

2) Purpose and goal of your dashboard: What do you want to achieve with your dashboard?

The purpose of the dashboard is to investigate the damages caused by global "problems" and how it affects regions. With the relevancy I think it's important to see how "local problems" (like housing crisis in USA back in late 2000s and now in Ukraine) affects entire world and the information awareness is one step towards better mitigating damages when these things inevitably occur.

3) What data do you use?

I use GDP, GDP Growth, Inflation, Unemployment, Exports, Imports of certain regions to observe global damages. The data is from worldbank, so I just use the same script we used in class to fetch it and since it's tidy enough for the baseline I leave it as is

4) What analysis do you do with the data? (Frequency analysis, distribution analysis, correlation, timeline). What is the purpose of the analysis?

For the baseline I just wanted to show the growth/drop of all the economic factors for regions as it would indicate how the crises slowed down the economic growth and notice if any certain regions were hit harder than others. But I also thought it would be interesting to give the user information about the regions affected the most during these crises, using drops in the values: what was the value of given data year before crisis and once crisis happened. I calculated this "drops" to indicate the total damages by the hardships

5) How do you visualize? What type of chart? What variables?

For the baseline, I just used line graph with dates and values as variables and grouping the lines by the indicated regions, pretty simple but effective for user to notice the problematic years.

6) What interactive input element(s) do you use?

I offered the user to check the regions of the world they wanted to get the data of, giving them 9 options and they can pick and choose what they want to see. On the less interactive side we have 6 tabs containing the different data, so the user can move from one tab to another without "losing" the previous data and compare different datas of same regions. On the lesser interactive side, I also added info boxes to let user know regions which incurred the biggest damages by the specific indicator, during which crisis (2007-2008 or COVID-19) and give the exact number or percentage of the drop.