For final project, I plan to create a visualization that highlights the global nursing shortage and its impact on healthcare systems around the world. The nursing shortage has been declared a "global health emergency” and has been exacerbated by the COVID-19 pandemic. The data sources I will be using include the ICN's Recover to Rebuild report, which provides recommendations for investing in the nursing workforce, and data on nursing and midwifery personnel density from the World Bank and United Nations.

The parameters of the data sets include geography (global), time frame (various years), and data points such as the number of nurses and midwives per 1,000 people and nursing and midwifery personnel density per 1,000 population. The data shows that many countries around the world are experiencing a shortage of nurses and midwives, which can lead to inadequate healthcare services, increased workload and burnout for existing nurses, and ultimately, negative health outcomes for patients.

This visualization is important because it highlights a critical issue in global healthcare and can inform policy decisions and investments in the nursing workforce. The visualization will be created using ggplot, plotly and will include interactive elements to allow users to explore the data and understand the impact of the nursing shortage on healthcare systems around the world.

My final project aims to raise awareness of the nursing shortage and its impact on healthcare systems globally, and to provide insights and recommendations for addressing this critical issue.

Link to Articles and Data Sources:

1. Nursing shortage branded a “global health emergency” - <https://www.nursingtimes.net/news/global-nursing/nurse-shortage-branded-a-global-health-emergency-23-03-2023/>
2. Recover to Rebuild: Investing in the Nursing Workforce for Health System Effectiveness - <https://www.icn.ch/system/files/2023-03/ICN_Recover-to-Rebuild_report_EN.pdf>
3. Nurses and midwives (per 1,000 people) - <https://data.worldbank.org/indicator/SH.MED.NUMW.P3>
4. Nursing and midwifery personnel density (per 1000 population) - <http://data.un.org/Data.aspx?q=nursing+personnel&d=WHO&f=MEASURE_CODE:HRH_33>