**Notes for Meeting**

**Time:** 2021.03.18 7:00-8:00 PM

**Participants:**

Min Lin: blue Brisilda Ndreka: yellow Chrstine: red

**Main Topics:**

**1.Some discussion on the NA and footnotes:**

1.If AreaActuallyReporting !=0, estimate =NA replace Violent Crime/ Property Crime by actual ones

2. Population =None, delete directly

3. Contains subtotal, no details, still keep these ones

4. AreaActuallyReporting=1 but Actual=NA

**Two useful links for R for Data Science:**

https://r4ds.had.co.nz/index.html

https://jrnold.github.io/r4ds-exercise-solutions/index.html

**2.Overall level of crime Violent+ property crime for all years to see a trend**

For all the states, for each year, time series trend for two Categories

**Pyriamid chart for all categories of crime: overall analysis in introduction part as a whole picture**

Primary key: Area, Year, State <when merging all the years’ data together>

Seven layers for crimes

Frequency summary plot: pyramid/ bar/ pie plot

**3. Indicating areas with potential risk using map**

More details about the map plots to find: from Brisilda

**4.Heatmap of Murder cases in Metropolitian areas in 2004, radar plot, scatterplot relationship between population and crime counts**

Make the data move in scatterplot: Check Hans Rosling <https://www.youtube.com/watch?v=hVimVzgtD6w&t=293s>

Heatmap and radar plot: fixed year analysis

**5.Spaghetti plot:**

Checking for years variation, anything strange(dramaticly decreasing or increasing) about the data, maybe due to definition changing/ policy changing: eg. rape\_revised definition changed, influenced Assault counts as well.

**To do next and assign the text:**

**High Priority:**

1. Play with Spaghetti plot function and give feedback;
2. Pyramid—national level, introduction part
3. Check NA and merge data
4. Heatmap(at state level, fixed year) Radar(at selected state level, fixed year)

**Medium Priority:**

1. Bubble: make it move(not fixing year)
2. overleaf