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Education

2017 – 2023

Statistics

Kushtia Government College, Kushtia

Skills

- Statistical Inference

- Estimation of population parameter from sample observations
- Confidence interval for sample estimates
- Test significance of any statistic with Chi-square, t-test, F-test or p-value

- Regression Analysis

- Fit linear or non-linear regression model for multiple explanatory variable
- Test significance of the fitted model
- Test significance of the regression coefficient
- Detect presence of Heteroscedasticity, Multicollinearity and Autocorrelation with appropriate test and use proper remedy to minimize their effect on the model

- Data Visualization

- Create almost any plot in `ggplot2` library. More of them latter at the end of this document.

- Web Scrapping

- Extract data from any public website. Example of some scrapped website with extracted data is given on the table below,

Website	Extracted Data
IDMb top movies (link)	click to open the data
BD Yellow Pages (link)	click to open the data
Plumbers in Toronto, Canada (link)	click to open the data

- Regular Expression

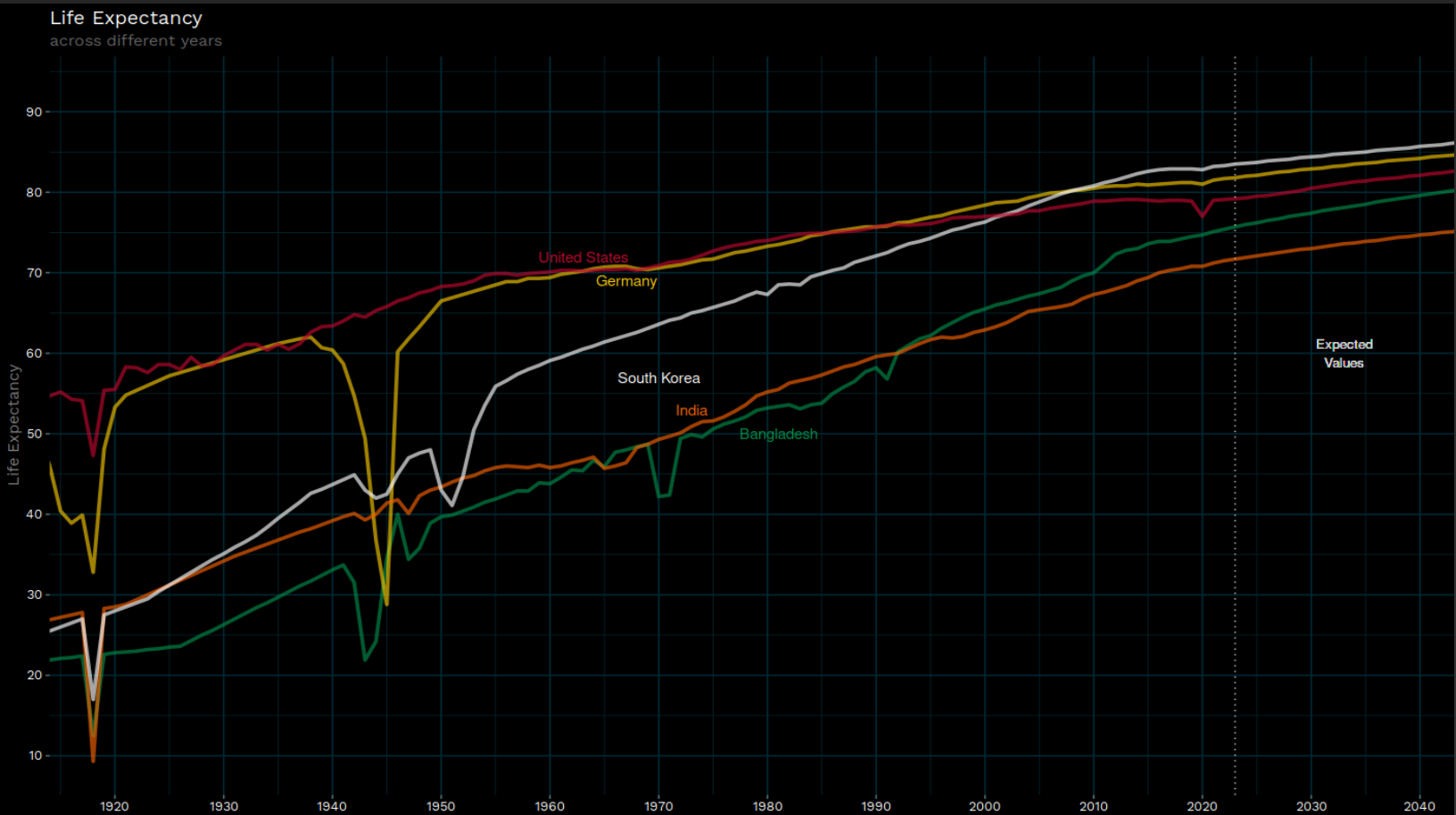
- Clean any messy text with regular expression. Example of a cleaning is given below

Before	Redmi Note 10 Pro (Dark Night, 6GB RAM, 128GB Storage) -120hz Super AMOLED Display 64MP with 5mp Super Tele- Macro
	Samsung Galaxy M12 (Blue,4GB RAM, 64GB Storage) 6000 mAh with 8nm Processor True 48 MP Quad Camera 90Hz Refresh Rate
	Samsung Galaxy M12 (Black,4GB RAM, 64GB Storage) 6000 mAh with 8nm Processor True 48 MP Quad Camera 90Hz Refresh Rate
	Redmi Note 10 (Aqua Green, 4GB RAM, 64GB Storage)
	Redmi Note 10 (Aqua Green, 4GB RAM, 64GB Storage)

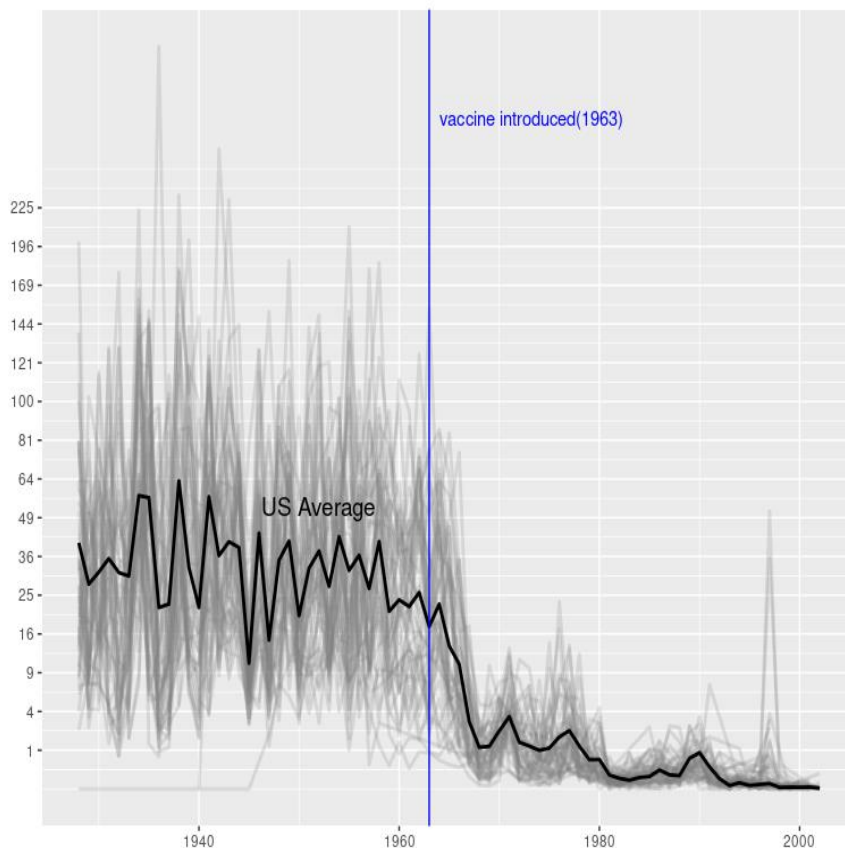
After	Model	Color	RAM	ROM
	Redmi Note 10 Pro	Dark Night	6	128
	Samsung Galaxy M12	Blue	4	64
	Samsung Galaxy M12	Black	4	64
	Redmi Note 10	Aqua Green	4	64
	Redmi Note 10	Shadow Black	4	64

Some Data Visualization examples

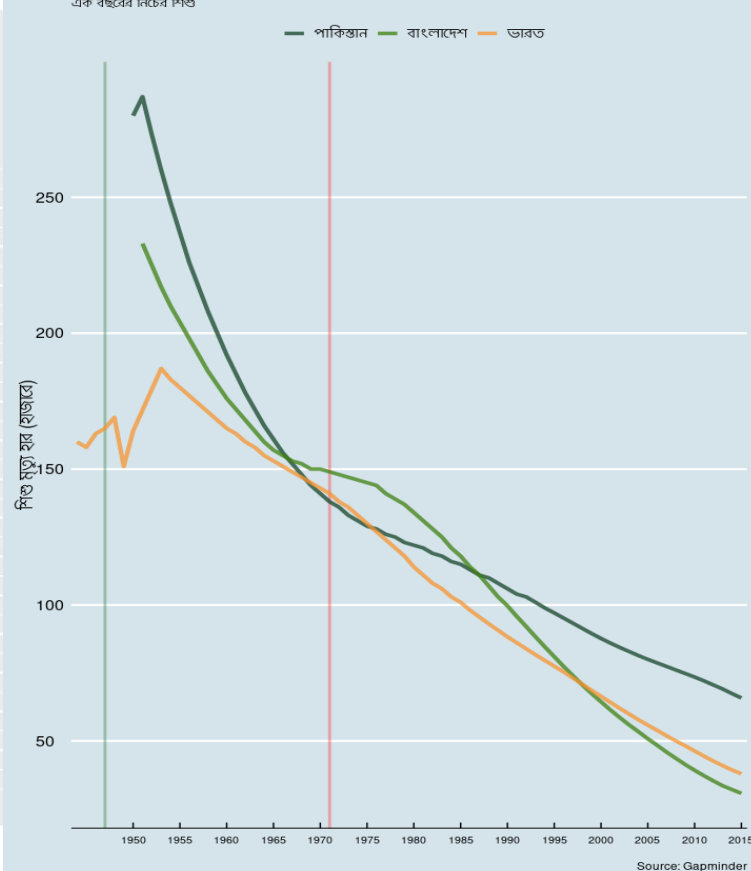
Line Plot



Measles Cases per 10,000 by state

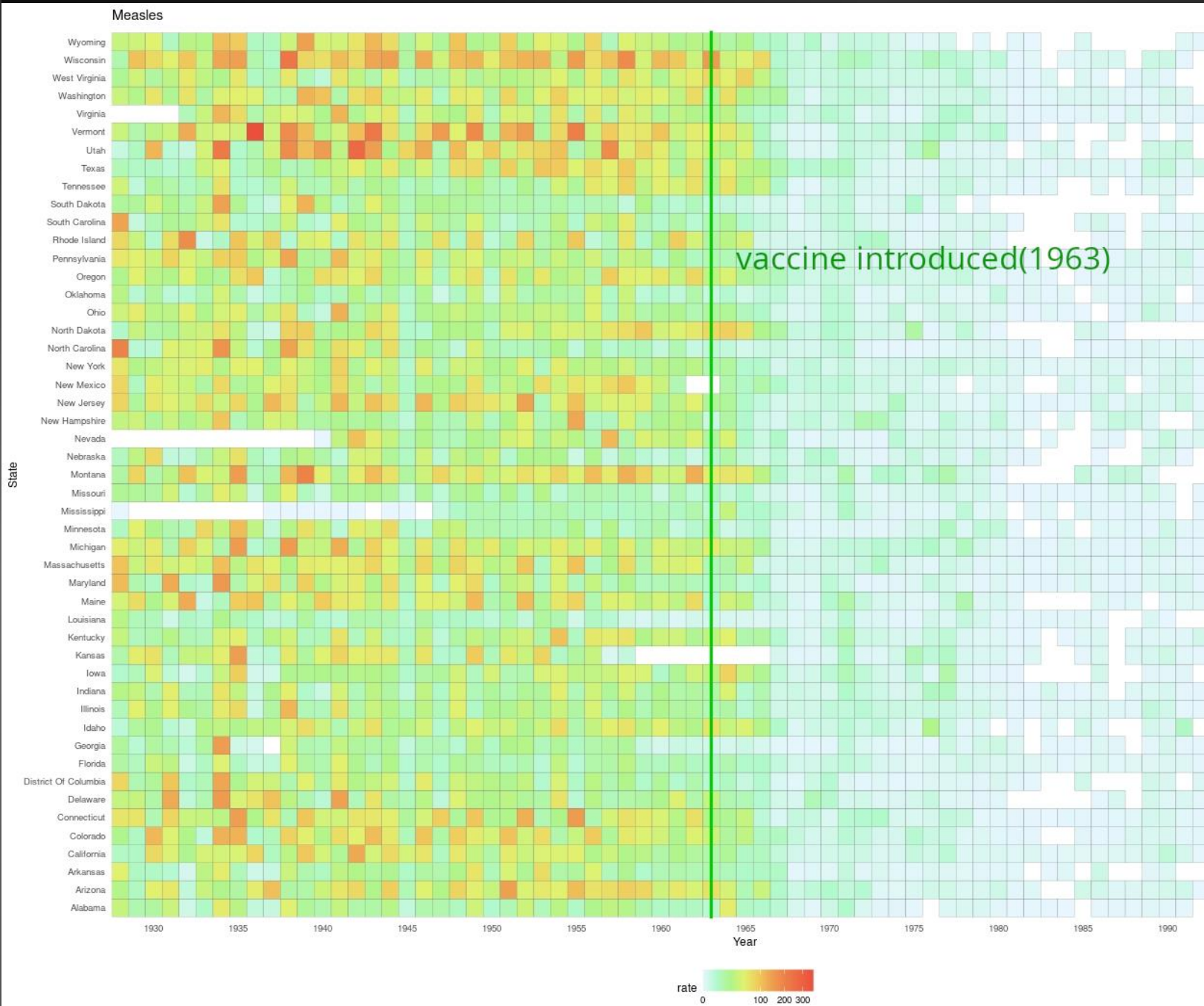


বাংলাদেশ, ভারত ও পাকিস্তানের শিশু মৃত্যু হার
এক বছরের নিচের শিশু



■ Tile Plot

Measles Cases per 10,000 by state



■ Density Plot

