

Outline

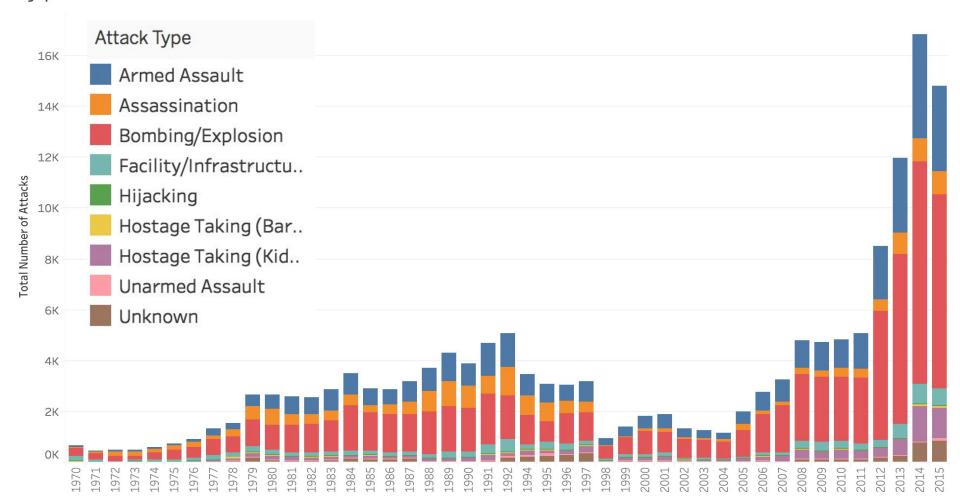
Exploring the Data

Bayesian Test

Imputing 1993
Bombings

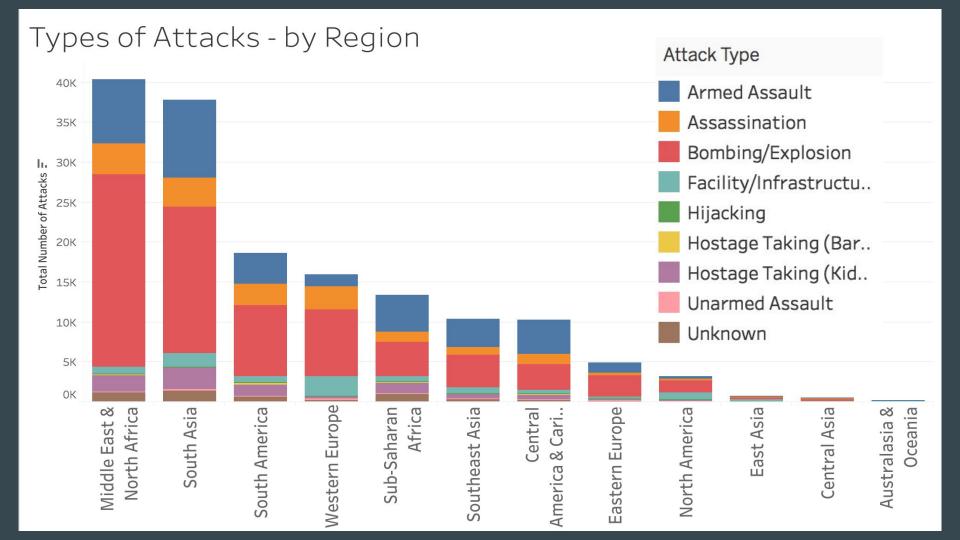
Data Exploration

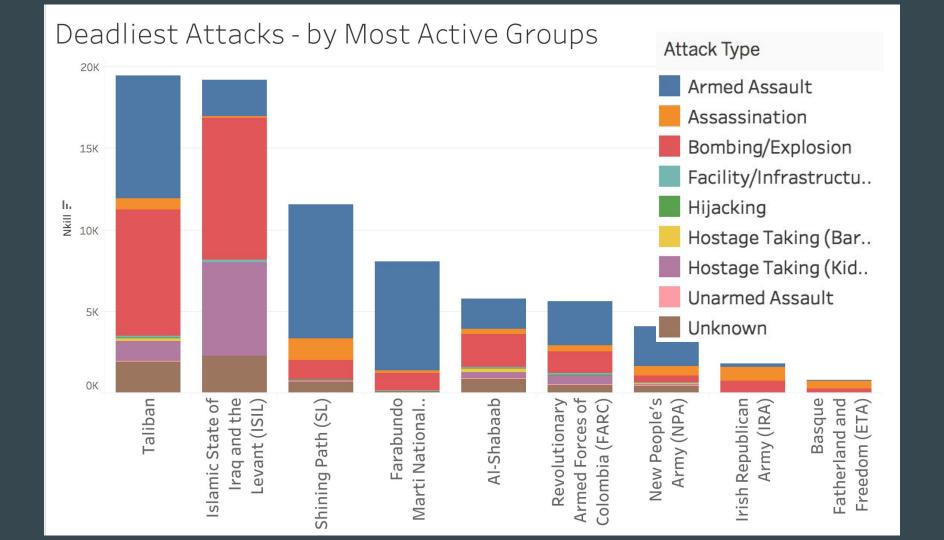
Types of Attacks



Total Attacks and Attacks Reported:

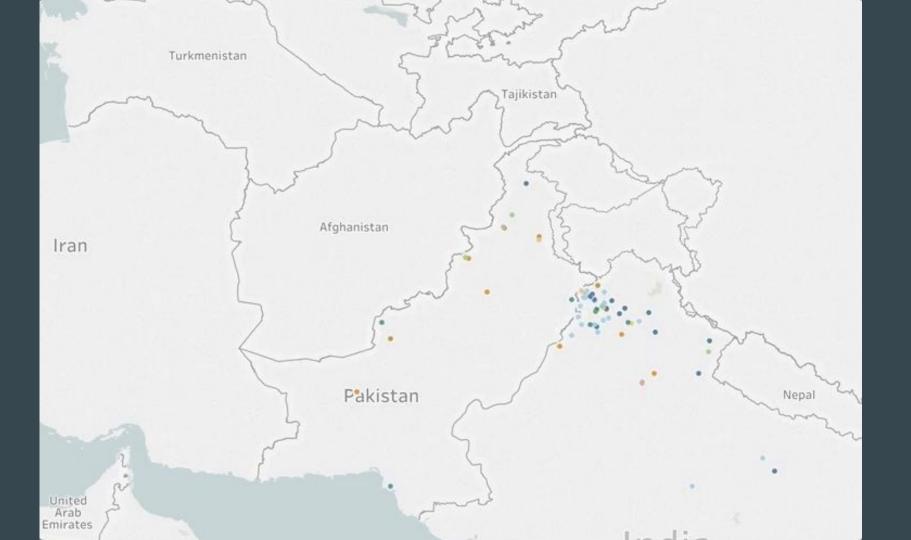
Does the trend reflect reality?

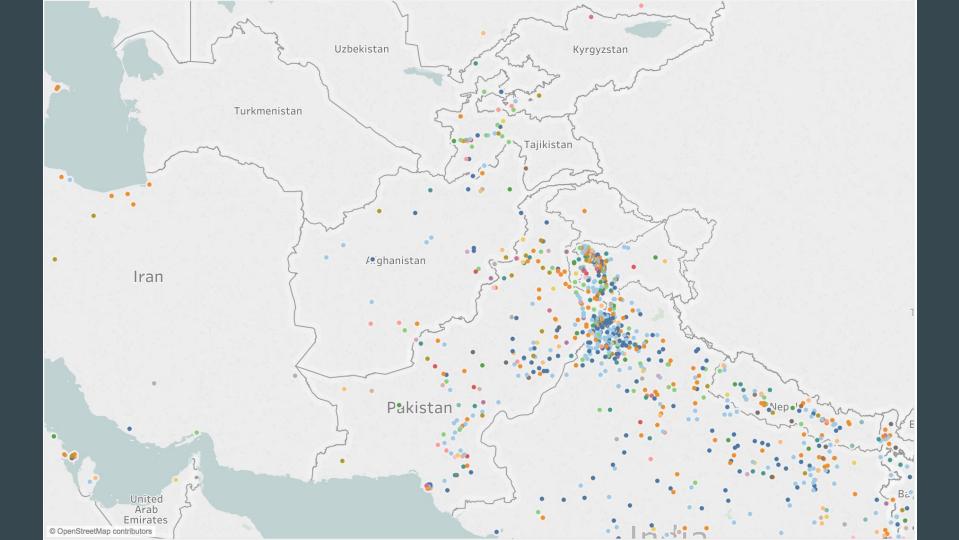


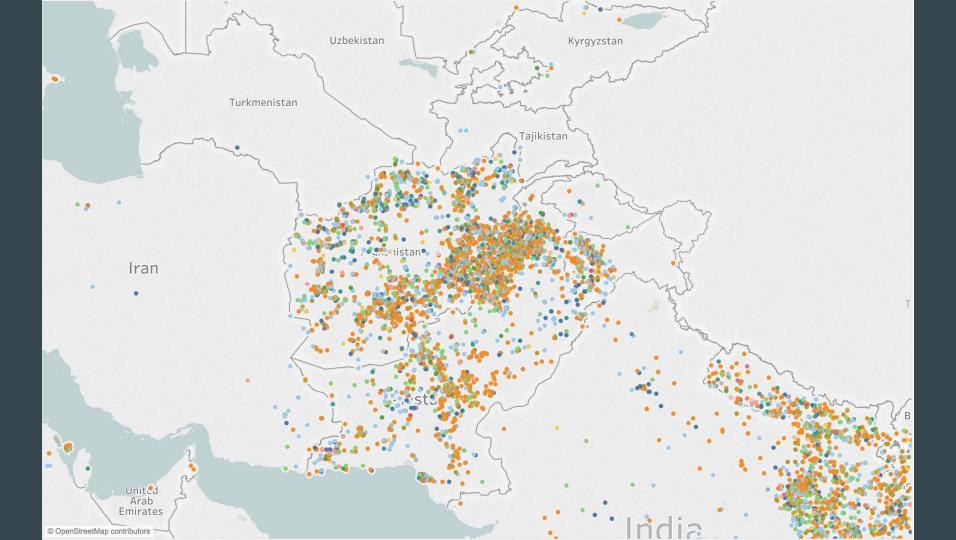


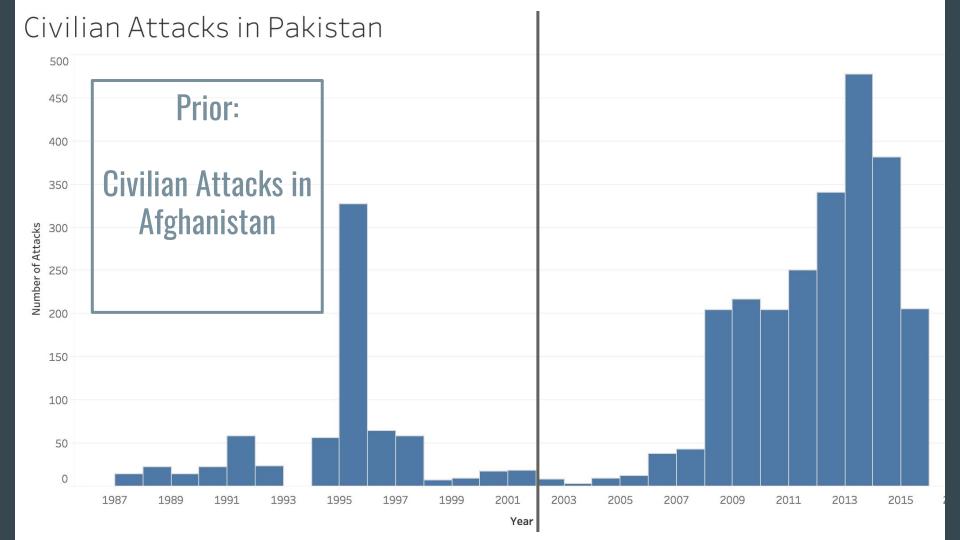
Bayesian Population Test

Is the distribution of attacks on civilians in Pakistan different between 1987-2001 and 2002-2015?

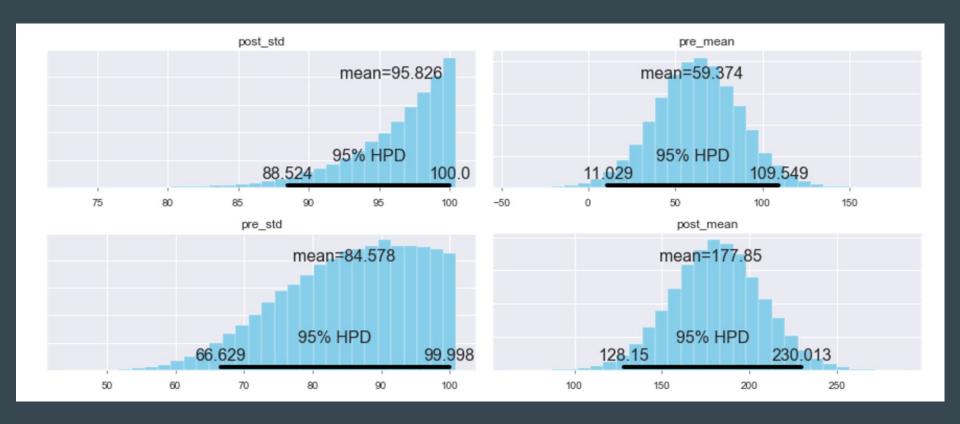




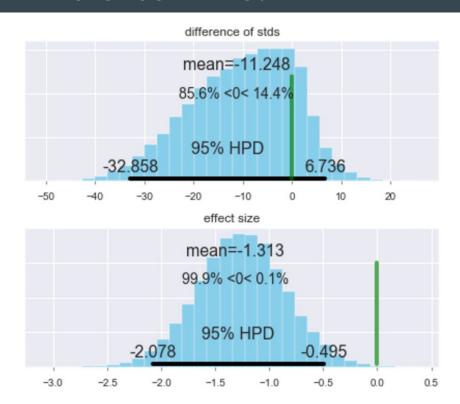


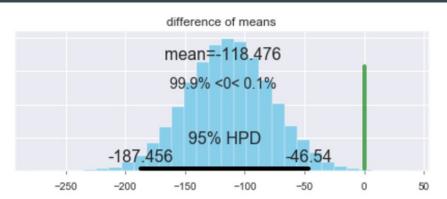


Posterior Distribution of Standard Deviations and Means



Difference in Mean





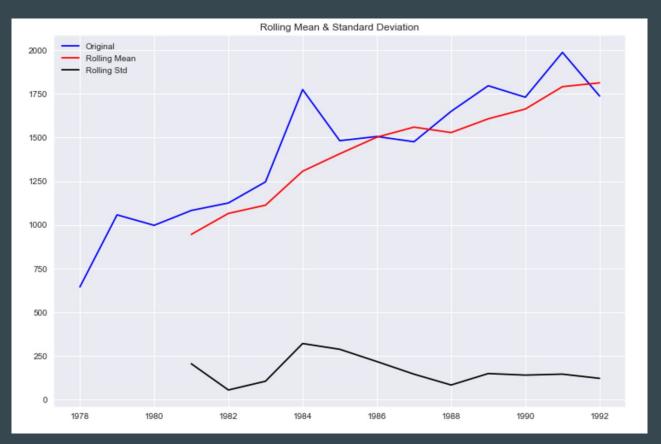
Conclusion

The overlap of means does not fall within the credible interval.

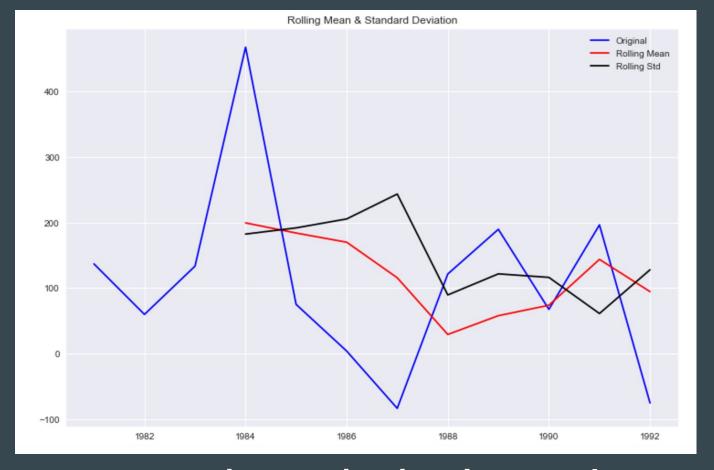
We can conclude the samples are from two different populations.

Imputing 1993 Data

Would an ARIMA Model be Possible?

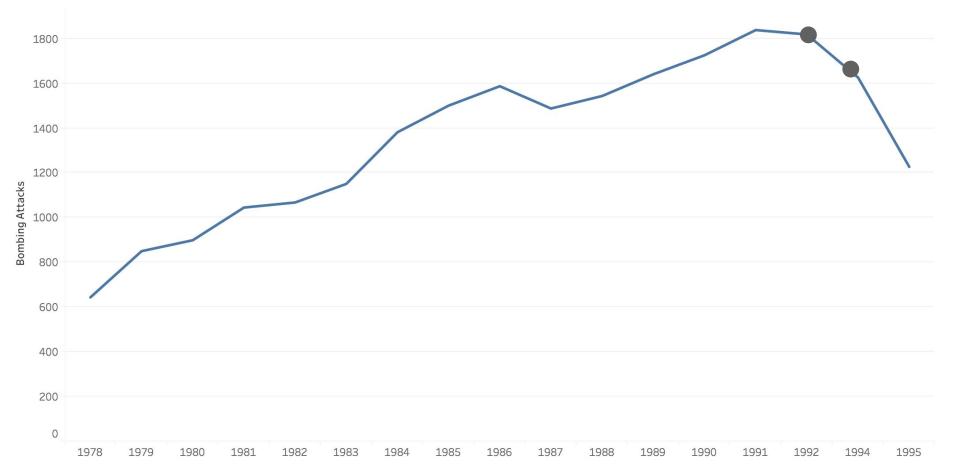


Yes....



...but maybe there's a simpler way...

Bombings Per Year - Moving Average 1978-1995



Average the Rolling Mean at a Window of 2 (not central)

Questions