

Understanding Terrorism and Exploring its Impacts

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Data Science 1

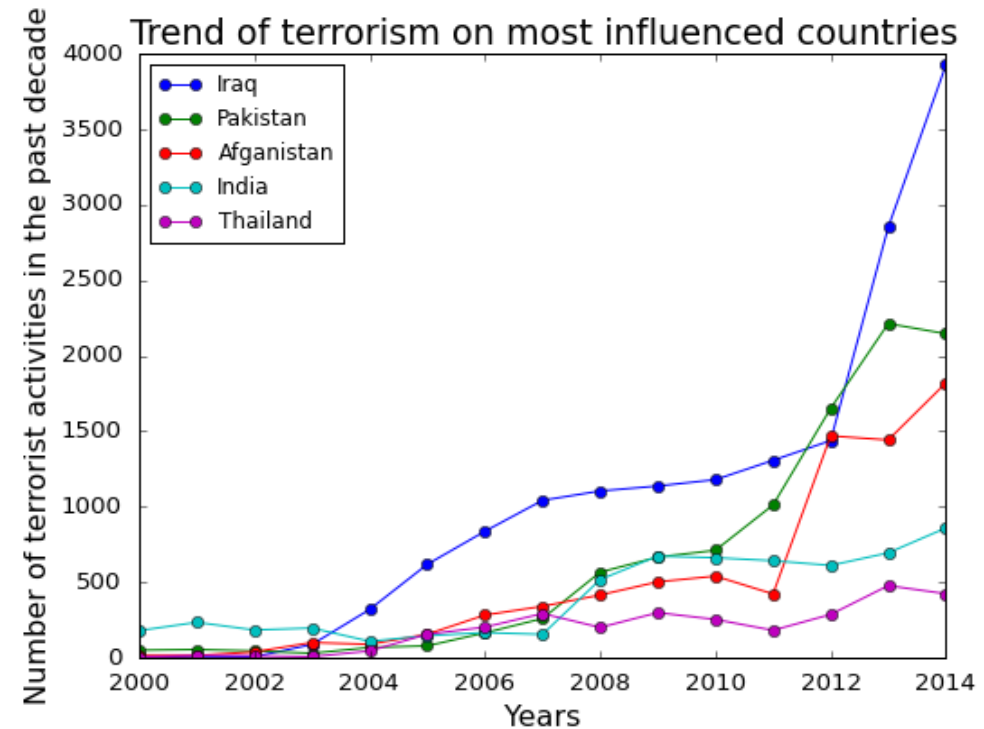
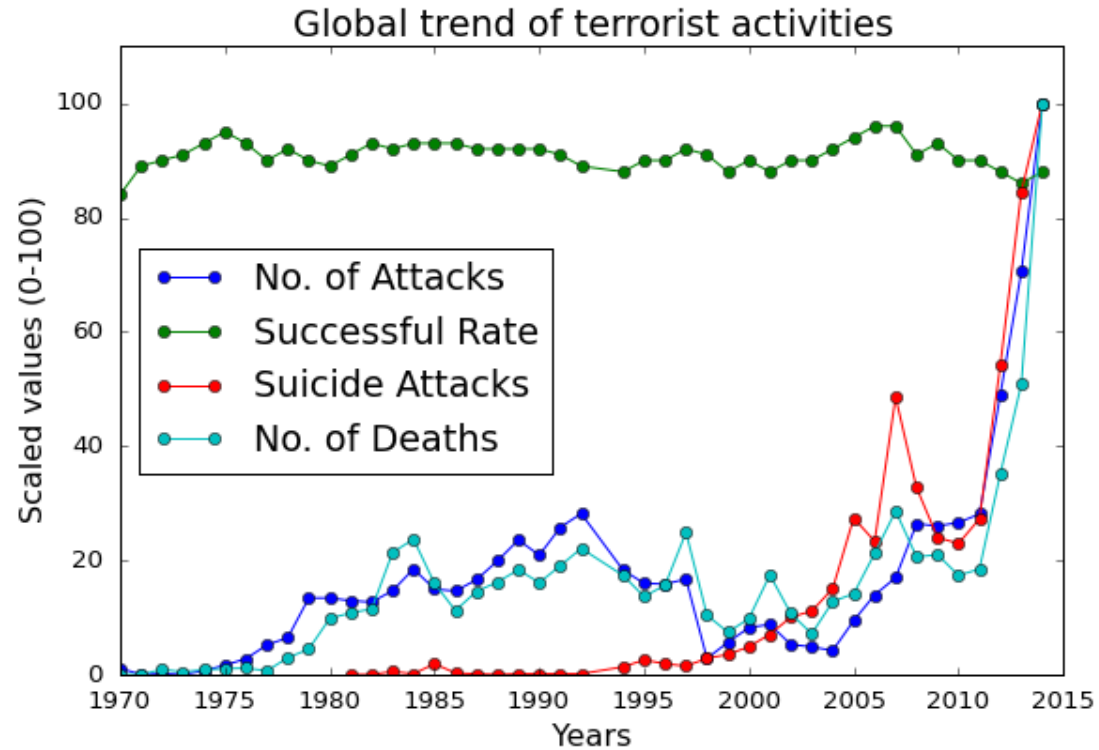
Motivation

- Terrorism is all over the news and social media ...
- Understanding terrorism: Analyzing Trends, Pinpointing Locations, Understanding Weapons used
- Who are the primary targets? What's their success rates?
- Which terrorist groups are most dominant and how spread are their influences?
- How safe is the US? Are there particular states where attacks are more?
- Does terrorism influence other sectors like economy and health?

Datasets and Problems

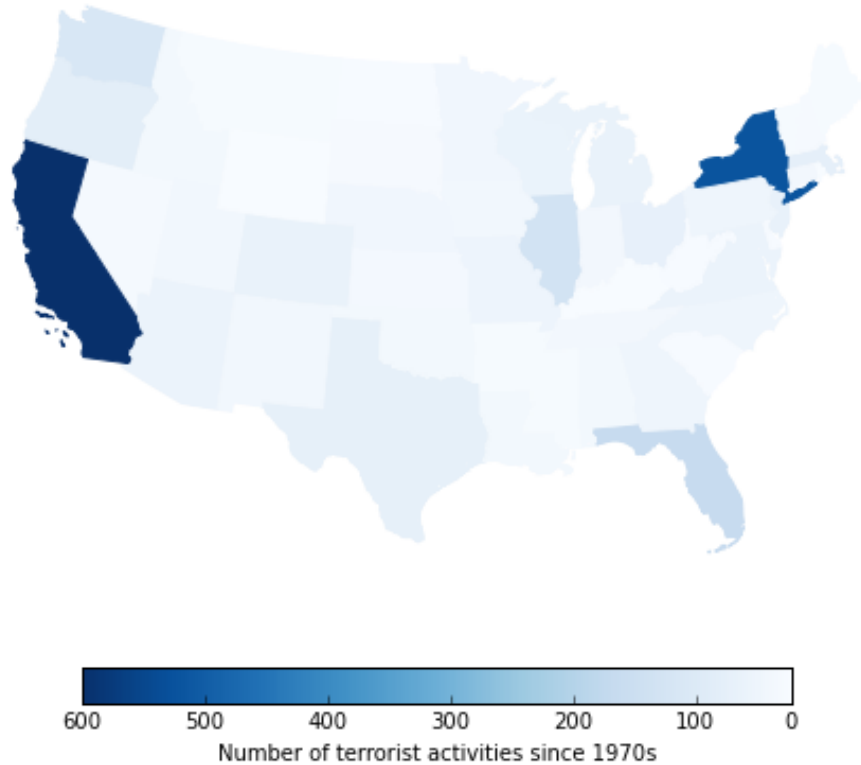
- Global Terrorism Database (GTD) and World Bank.
- Format not friendly, incorrect values, same data being represented in multiple ways - GTD
- A lot more fields missing than present – World Bank Data

Trend of Terrorism and Top 5 affected countries (since 2000)

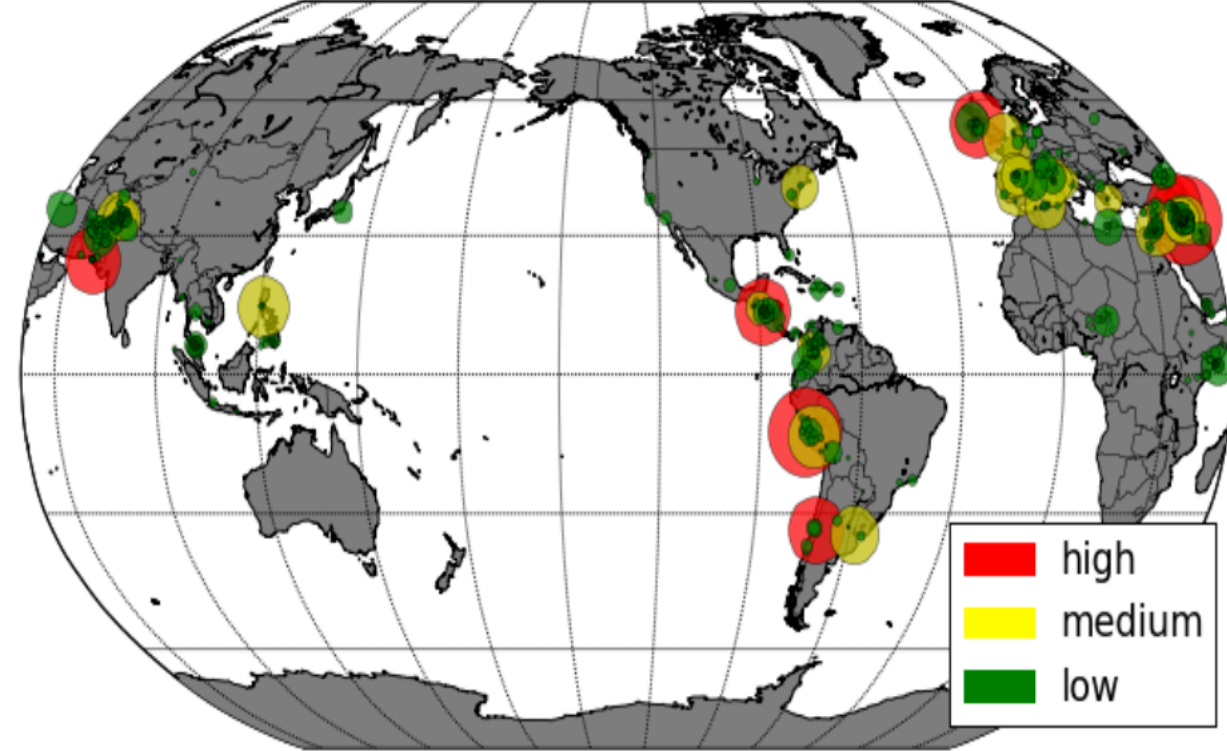


Terrorism in the US and throughout the world

USA State by Terrorist activities involved



Plot of terrorist activities throughout the world



Top 5:

Category	First	Second	Third	Fourth	Fifth
Region	Middle East	Central America	South Asia	Western Europe	Sub-Sahara Africa
Countries	Iraq	Pakistan	Afghanistan	India	Thailand
US States being attacked	California	New York	Florida	Illinois	Washington
Countries (chain attacks)	Iraq	Peru	Pakistan	India	Colombia
Violent Years	2014	2013	2012	1987	1991
Primary Targets	Private Citizens	Military	Police	Government	Business
Suicide Bombing Countries	Iraq	Afghanistan	Pakistan	Syria	Israel
Suicide Bombing Years	2014	2013	2012	2007	2008
Most Dangerous Group	Shining Path	Taliban	FMLN	IRA	FARC
Most Used Weapons	Automatic	Projectile	Handgun	Vehicle	Other Explosives
Number of Deaths	2014	2013	2012	2007	2008

Conclusions

- Since the past 5 years:
 - Number of terrorist attacks has increased by 3 folds
 - Multiple incident attacks has increased by 6 folds
 - Suicide attacks has gone up by 4 folds
 - Number of active terrorist groups has doubled
 - Number of deaths increased by 4 folds
 - Property damage increased by 3 folds
 - Percentage of successful attacks has decreased by 6%
- Countries with higher terrorist index typically have a lower GDP Improvement

