Project: Sailor Moon

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Global Violence Visualizer

"I am Sailor Moon, champion of justice! On behalf of the moon, I will right wrongs and triumph over evil, and that means you!" - Sailor Moon

Planned Tools:

R

gdeltr2 # retrieve GDELT data

ggplot2 # basic graphing

shiny # interactive plotting

geosphere # spatial method

threejs # 3-d interactive earth visulization

rworldmap # earth map creation

leaflet # a Javascript library for interactive maps within R

ggmap # reverse geocode longitude / latitude

plotly # more automated interaction

Planned Techniques:

1.

Bar Chart of Top News Types in a country with time series and region interaction. By giving a month and a year, the bar chart will show the top 10 news types. This bar char can also response for a given state (US only), country, or continent.

2.

Bar Chart of Top Media Resource in a country with time series and region interaction. By giving a month and a year, the bar chart will show the top 10 media resources. This bar char can also response for a given state (US only), country, or continent.

3.

Time Series Line Plot showing news/crime types occurance over time. By giving a particular state (US only), country, or continent the scatter plot will show the news/crime types occurance over time. This time series line plot can also response for a given crime type.

4.

A Spinnable and Zoomable World Map with time series and region interaction. On the map, we show the occurance of a particular news/crime type via points. The size of points depends on the occurance. Hovering a particular country the world map can also show more detailed news summary.

Planned Interaction:

1. Time Series

2. Hover Region

3. Zoom in Map

4. Spin World Map

Planned Interface:

![planned ui](https://github.com/donnydongchen/sailor_moon/planned_interface.png)