

Data Visualisation Final Project Documentation

War

Team 24

Dimitar Yolovski s2354373

Luca Andrei s2842025

Denis Lisovskij s2811847

Emilia Pavel s2711710

Martin Adelbert s2869586

Valeriu Culinca s2552302

Topics of Visualisation

1. WW1 - *Luca Andrei*

- <https://de.statista.com/statistik/daten/studie/1113732/umfrage/flugzeugproduktion-im-ersten-weltkrieg/>
- <https://de.statista.com/statistik/daten/studie/1143322/umfrage/veraenderung-des-realbruttoinlandsprodukts-waehrend-des-ersten-weltkriegs/>
- <https://de.statista.com/statistik/daten/studie/1143375/umfrage/anteil-der-staatsausgaben-am-bruttoinlandsprodukt-vor-im-ersten-weltkrieg/>
- <https://www.statista.com/statistics/1208625/first-world-war-fatalities-per-country/>
- <https://de.statista.com/statistik/daten/studie/416496/umfrage/kosten-des-ersten-weltkriegs-nach-staaten/>

2. WW2 - *Denis Lisovskij*

- <http://www.statista.com/statistics/1342462/wwii-share-male-mobilization-by-country/>
- <http://www.statista.com/statistics/1261435/post-wwii-gender-ratios-in-select-allied-countries-age/>
- <http://www.statista.com/statistics/1342260/wwii-mobilization-by-country/>

3. Vietnam War - *Dimitar Yolovski*

- <https://www.statista.com/statistics/1334328/vietnam-war-us-public-opinion-mistake/>
- <https://www.statista.com/statistics/1333974/annual-us-protests-against-vietnam-war/>
- <https://www.statista.com/statistics/1336944/vietnam-war-military-personnel-deployed-battle-deaths/>
- <https://www.statista.com/statistics/1334878/vietnam-war-key-inflation-budget-deficit/>
- <https://www.statista.com/statistics/1333806/us-military-expenditure-vietnam-war/>

4. Iraq War - *Valeriu Culinca*

- <https://www.statista.com/statistics/269731/civilian-deaths-per-day-by-suicide-bombings-in-iraq-war/>
- <https://www.statista.com/statistics/269729/documented-civilian-deaths-in-iraq-war-since-2003/>

- <https://www.statista.com/statistics/271526/us-war-costs-in-iraq-and-afghanistan/>
- <https://www.statista.com/statistics/263798/american-soldiers-killed-in-iraq/>

5. Modern Global Military Spendings - *Martin Adelbert*

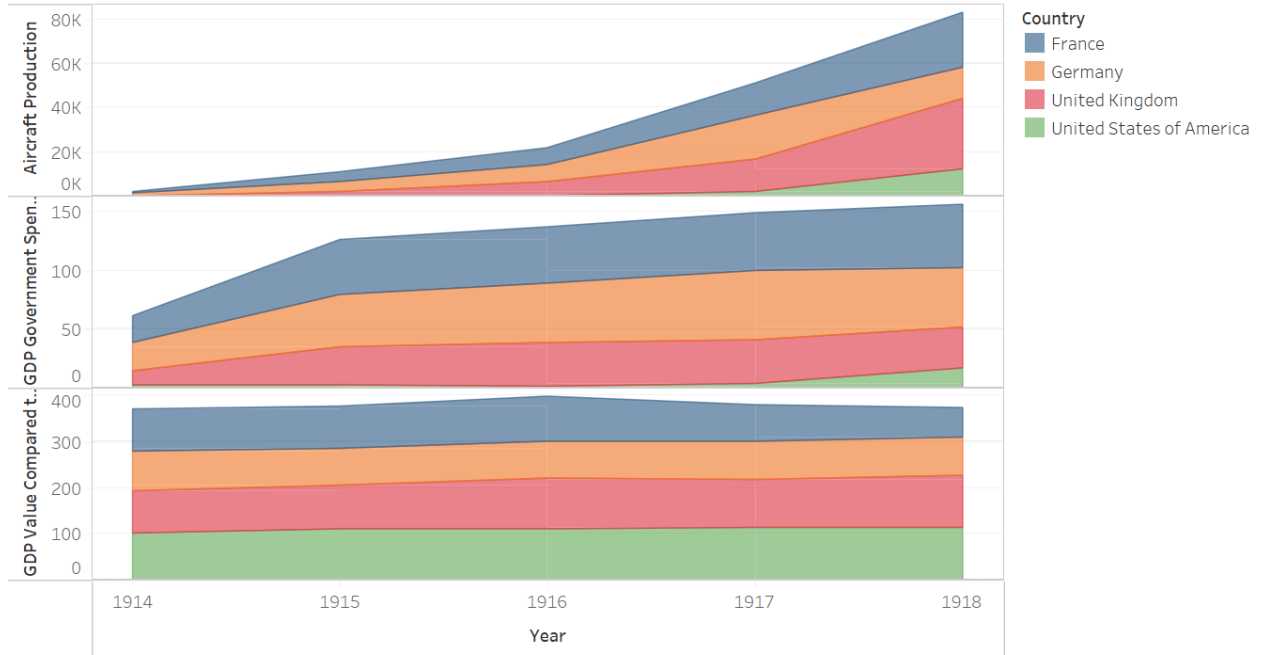
- <https://milex.sipri.org/sipri>

6. Ukraine-Russia War Equipment - *Emilia Pavel*

- <https://www.statista.com/statistics/1303344/ukraine-infrastructure-war-damage/>
- <https://www.kaggle.com/datasets/piterfm/2022-ukraine-russian-war>
- https://www.kaggle.com/datasets/piterfm/2022-ukraine-russia-war-equipment-losses-oryx?resource=download&select=losses_ukraine.csv

1. WW1

Aircraft production, GDP% allocation to government expenditures and GDP% change in WW1, major powers

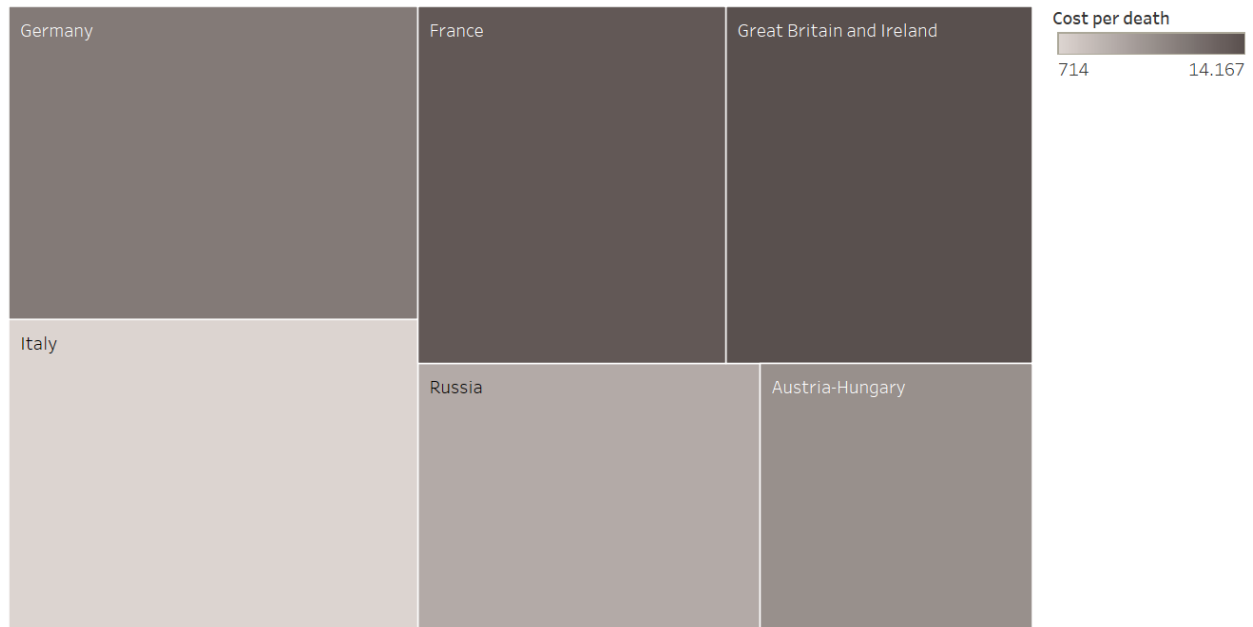


Lost productivity costs per civilian death in WW1, main powers



^This is the visualization used in the presentation, but unfortunately it is not the correct version. Here, the cost per death calculated field is used for representing both the size of the boxes and their color.

Lost productivity costs per civilian death in WW1, main powers

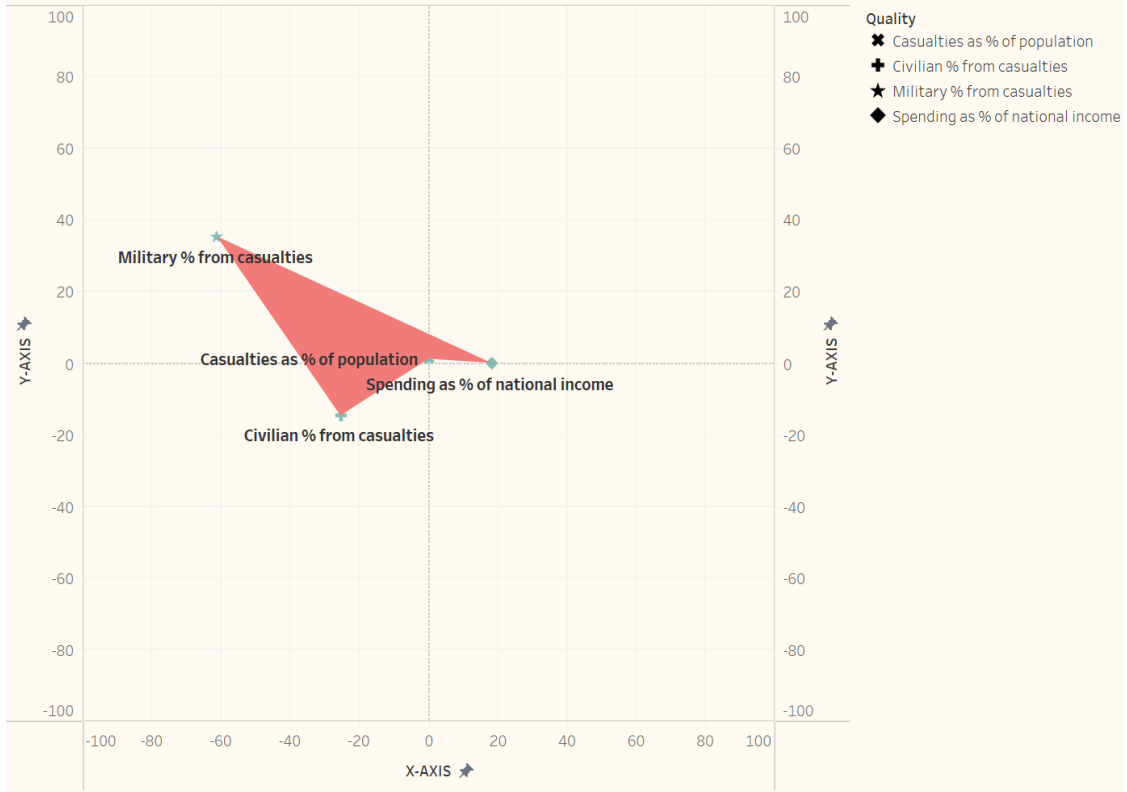


In the correct version of the visualization, the colors represent a custom calculated field of cost per death: "Productivity Lost in \$ / Civilian Deaths". Darker colors mean bigger cost per civilian death, while lighter ones show less cost per civilian death. This might be due to differences in technological levels and industrial efficiency of various countries, where in more advanced countries each civilian can produce more value than in less developed countries. The sizes of the boxes represent the total number of civilian casualties in WW1 for each respective country.

2. WW2

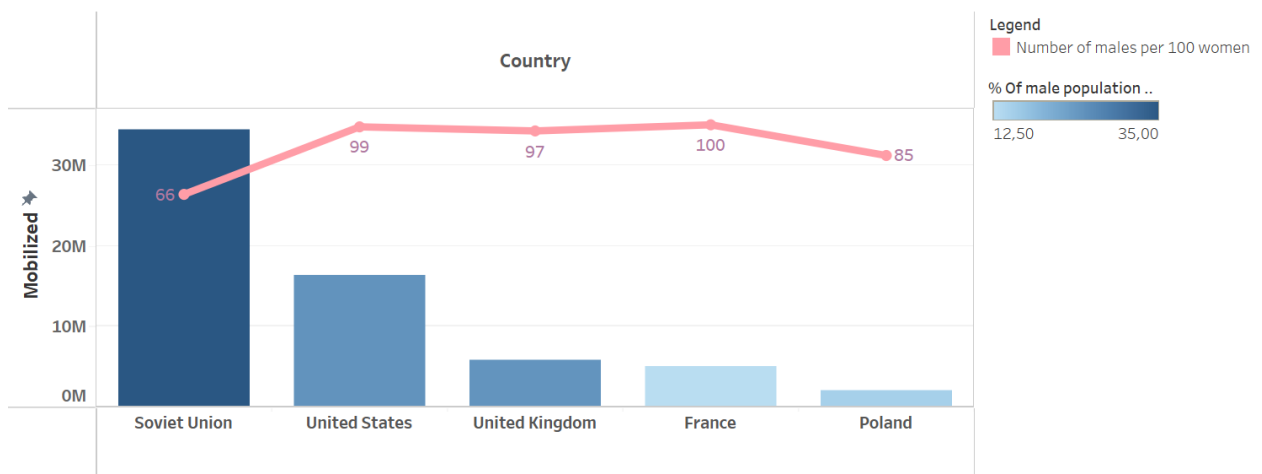
Superpowers during WW2 radar chart.

Negative values should be treated as positive, all values represent percentage.



Interaction - Selection of the year and country.

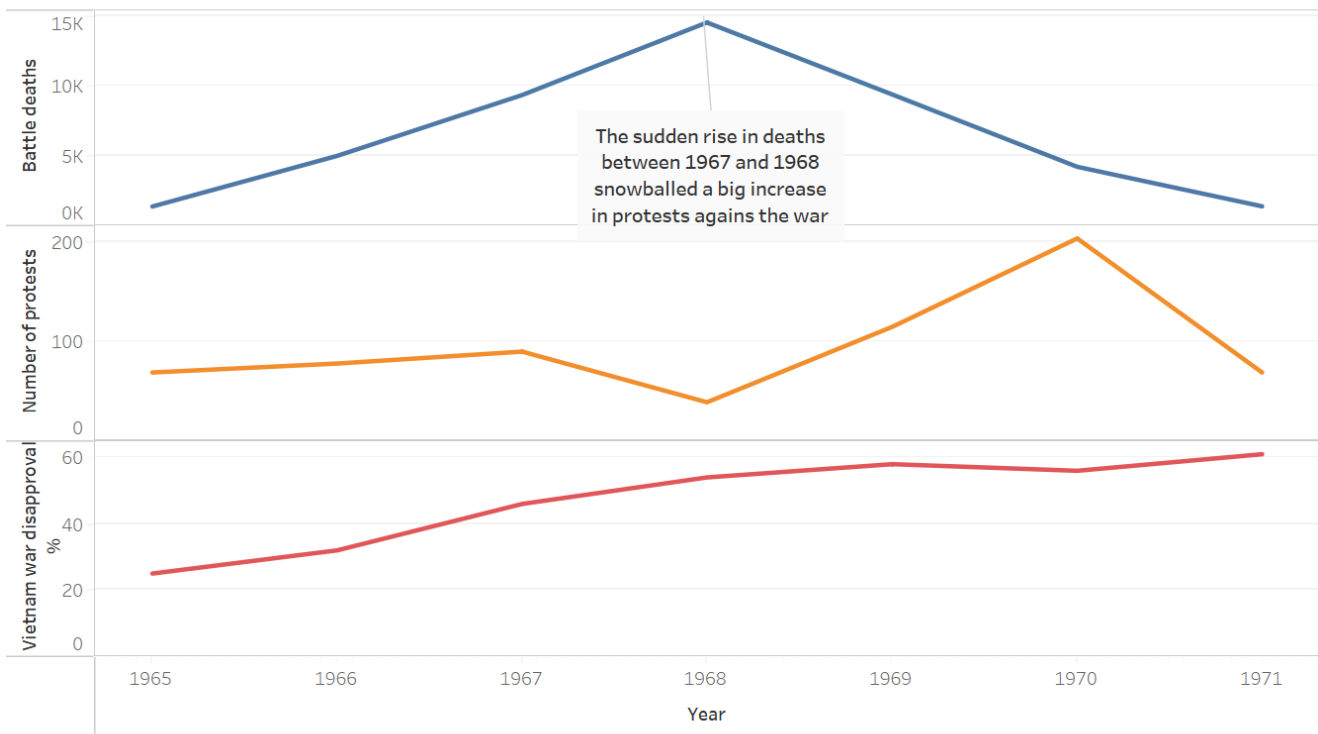
Number of mobilized personnel during WWII, as proportion of total male population and proportion of men to 100 women in post WWII period (1950).



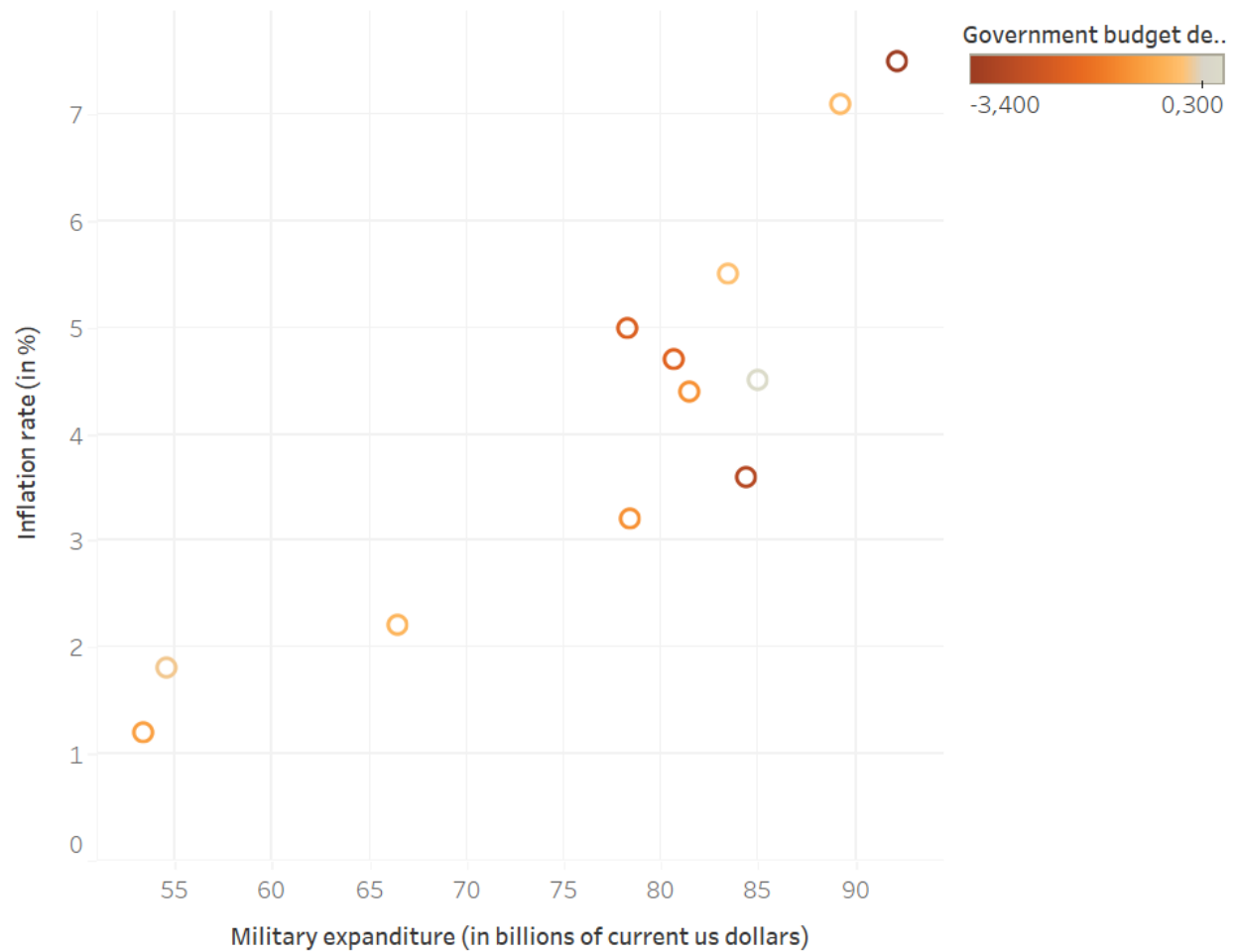
*^The pink line represents the amount of men per 100 women, population wise.
Interaction: Selection of age group.*

3. Vietnam War

Vietnam war deaths' effect on US population's perception



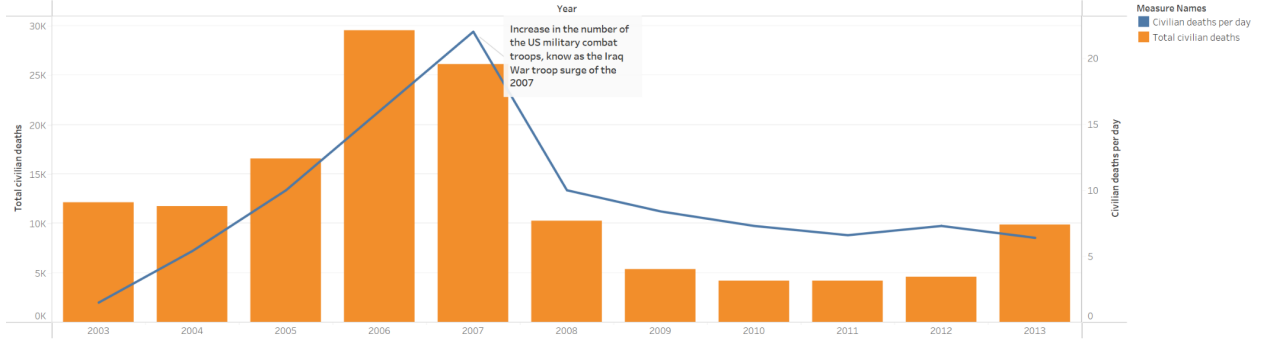
Military expenditure's effect on US inflation rate and government budget deficit during the Vietnam war (1964-1975)



Interaction: Selection of year and inflation rate.

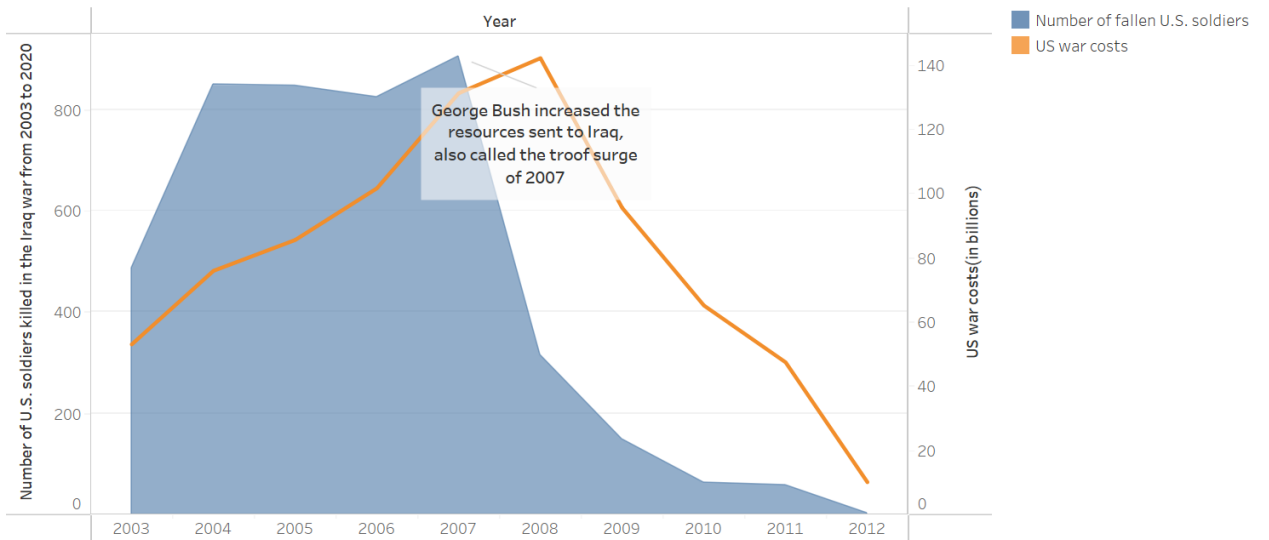
4. Iraq War

Documented civilian deaths in the Iraq War from 2003 to 2013



The blue line represents the amount of civilian deaths per day for the corresponding year.

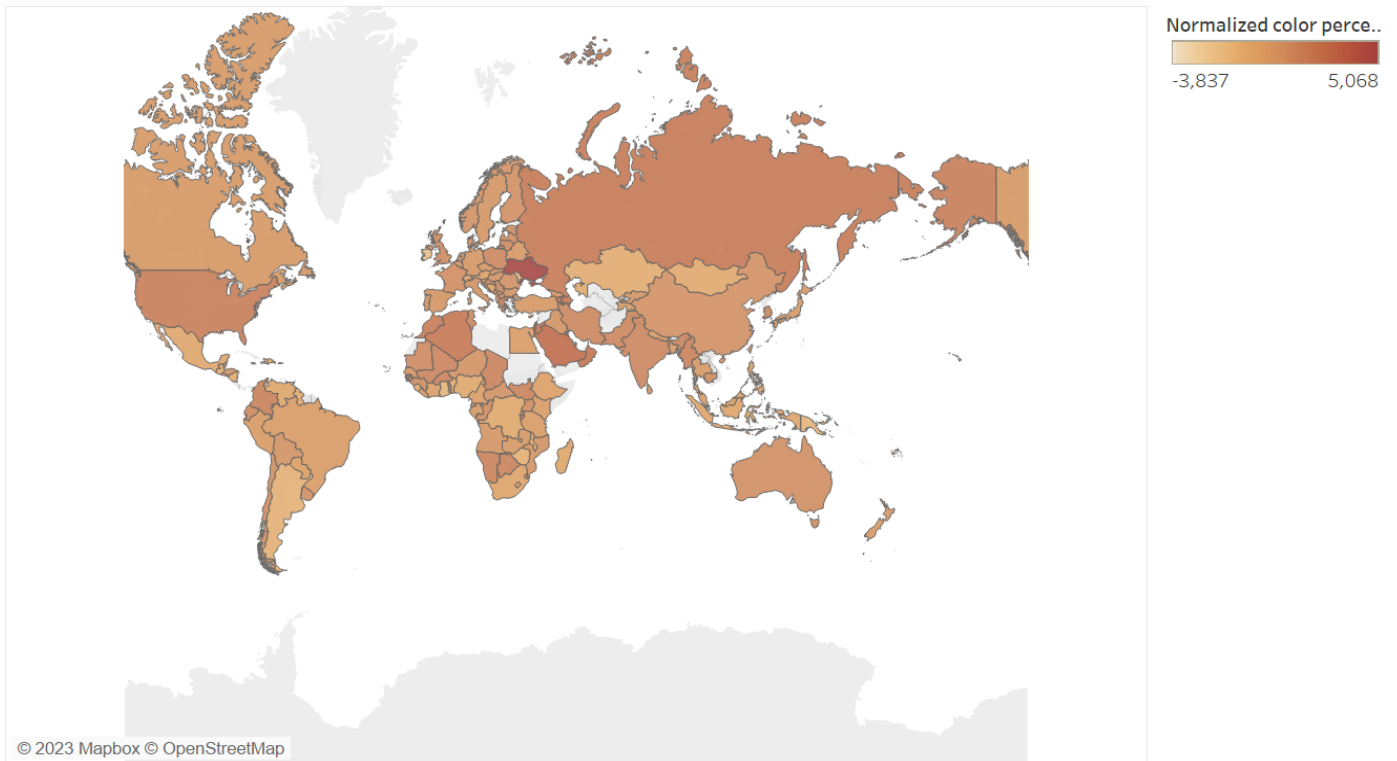
Fallen US soldiers and the US war costs in the Iraq War between 2003 and 2012



The orange line displays the US costs of the Iraq War in billions of dollars.

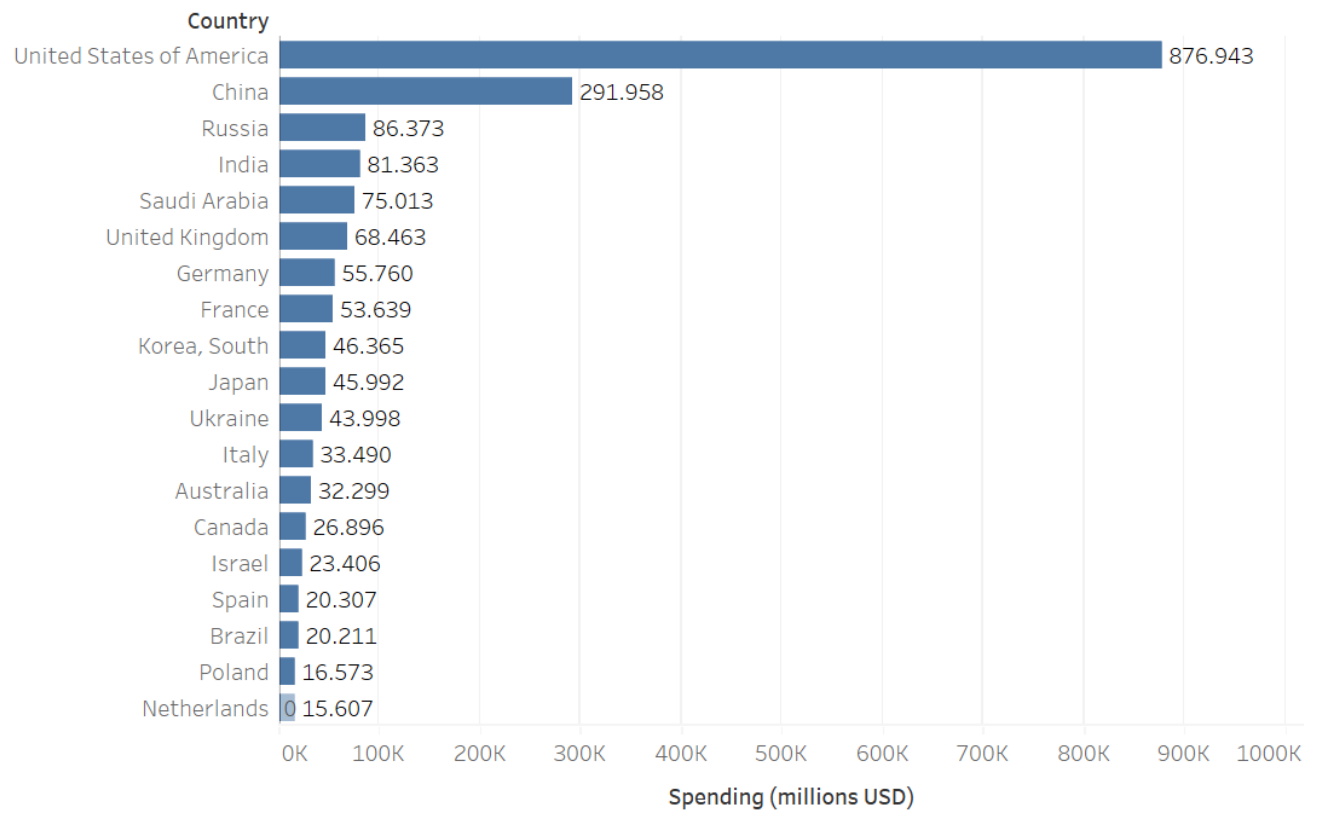
5. Modern Global Military Spendings

Military Expenditure percentage of GDP per country in 2022



The colors of the map were made by taking \log_2 of the Military Expenditure, to map the big range of values from the dataset to a smaller one, for clearer distinction between areas.

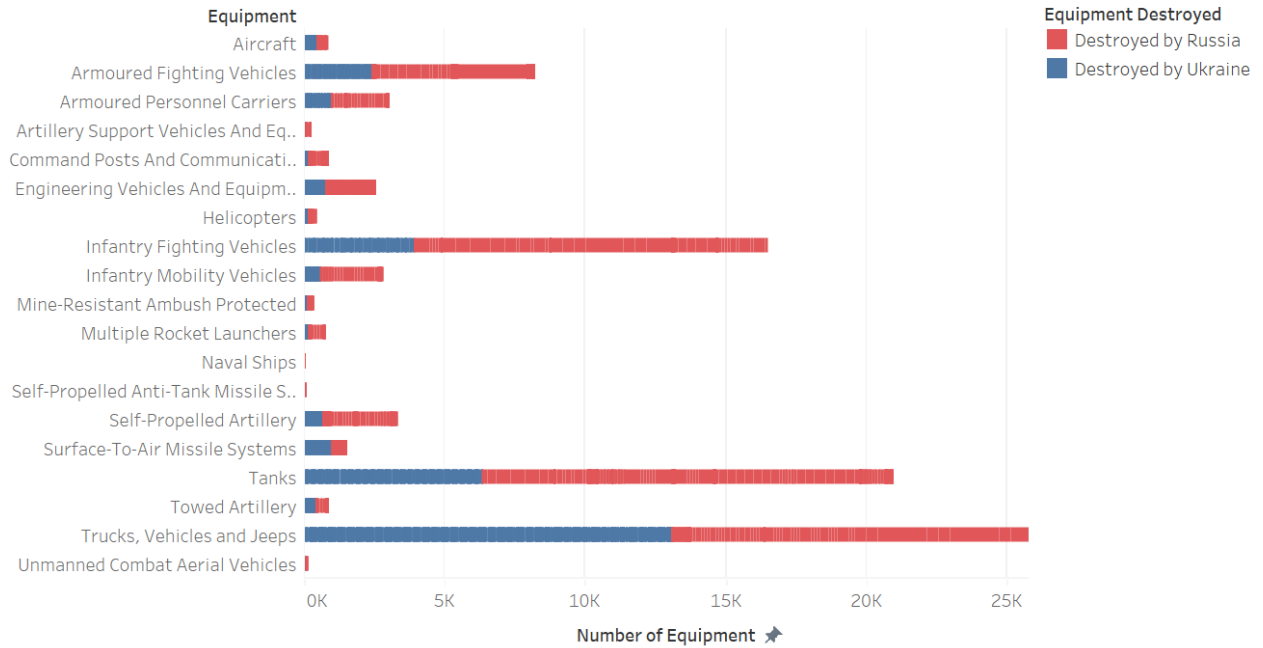
Military Spending in current USD (millions) per country



Interaction: Selection of country.

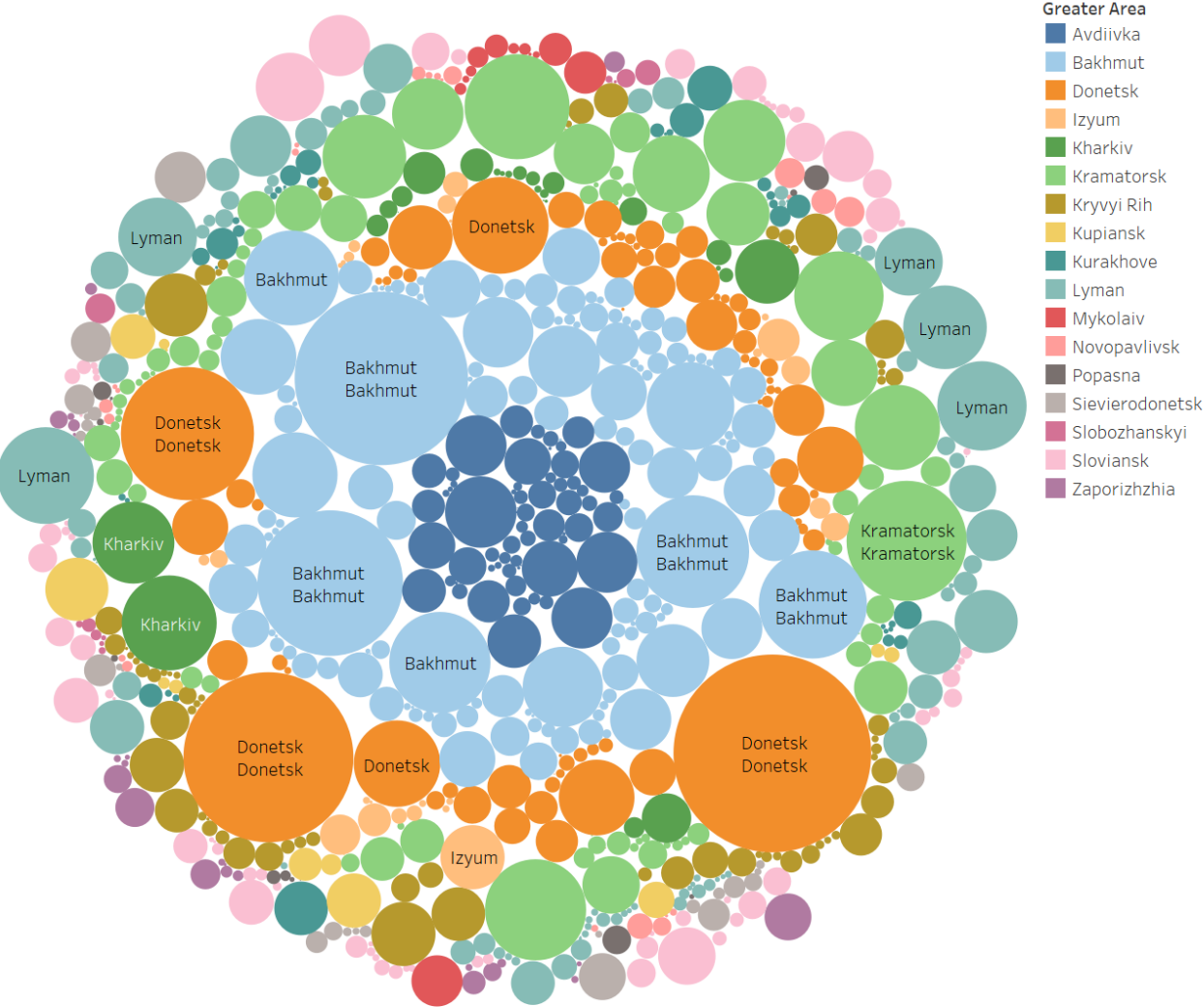
6. Ukraine-Russia War Equipment

Number of equipment destroyed by Ukraine and respectively Russia since the start of the war by type and model of vehicle



Hovering over the bars shows the type and model of vehicle or military equipment destroyed by Ukraine/Russia.

Equipment lost by the Russian military in the main zones of conflict of Ukraine sorted by the most used types of artillery and vehicles



The bubbles marked by colors represent the greater areas of Ukraine where the Russian army lost various military equipment. The size represents the directions on which the equipment was lost(in between greater areas) and the type of equipment lost(Drones, APC, Helicopters, Etc.).