

## **CS7DS4 / CSU44065 Data Visualization 2019-20 Assignment 1.2**

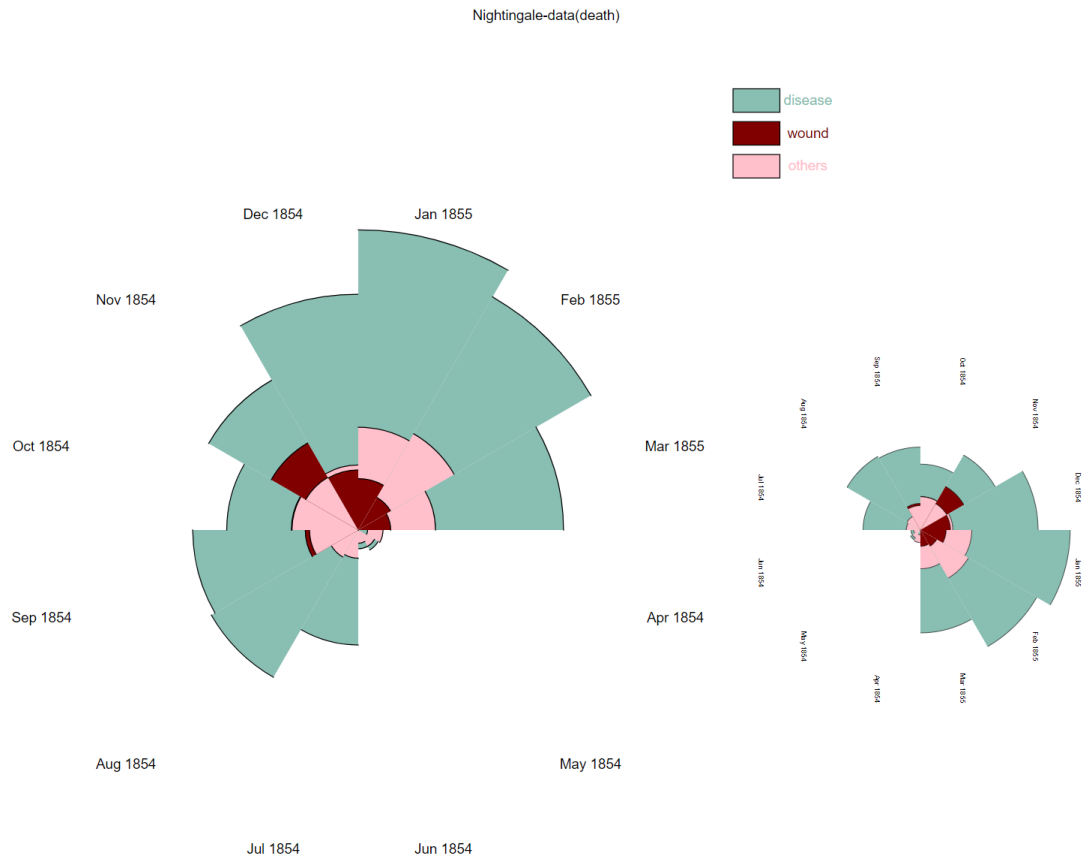
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Declaration: "I have read and I understand the plagiarism provisions in the General Regulations of the University Calendar for the current year, found at <http://www.tcd.ie/calendar>.

I have also completed the Online Tutorial on avoiding plagiarism 'Ready Steady Write', located at <http://tcd-ie.libguides.com/plagiarism/ready-steady-write>."

## Nightingale-data



Based on processing, using libraries including `processing.svg.*`, `java.util.*`, `java.util.List`, `java.util.Map`.

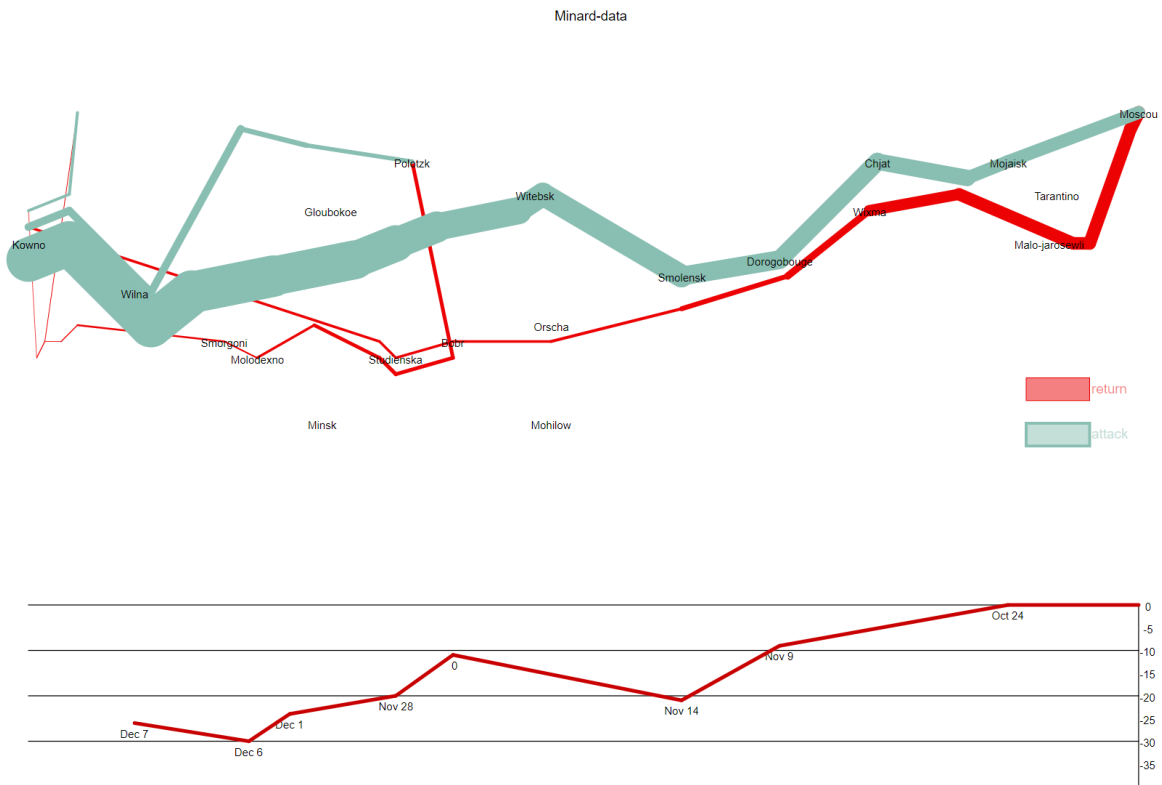
Based on the data, I select the columns, Month, Zymotic, diseases Wounds & injuries, all other causes, which are deaths reasons. Then drawing these values to make data visualization. Here are details:

The function I use to draw is `arc`, and this needs me to first rank my input data and then draw them.

So I rank the 3 different data in every month and then draw them one by one.

The right graph is done by doing transformation (translate, rotate and scale) from the left one.

## Minard-data



Based on processing, using libraries processing.svg.\*.

Based on the data, I find there are many values about position, so I first decide the longitude and latitude in the screen (1400x1000), then draw route including returning and attacking routes and the line width is decided by the population in the left point. After that, I draw the cities on the graph and draw the temperature at last. They all share the same longitude and latitude system.