

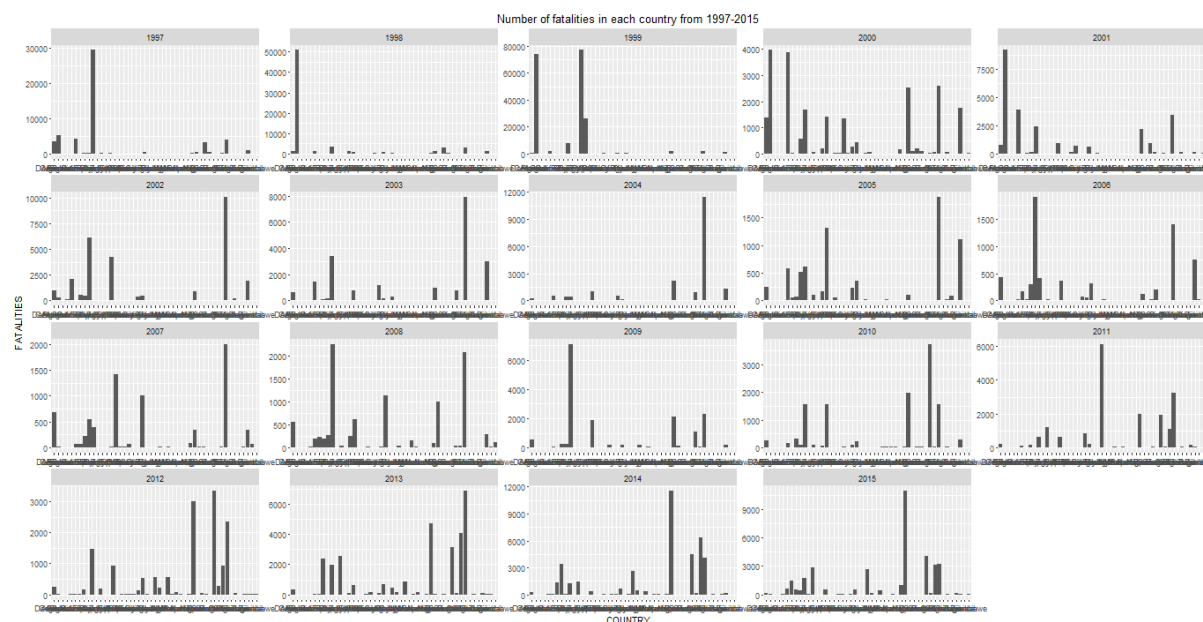
Lab 8: Data visualization with R

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Qn 1

Number of fatalities in each country from 1997 -2015

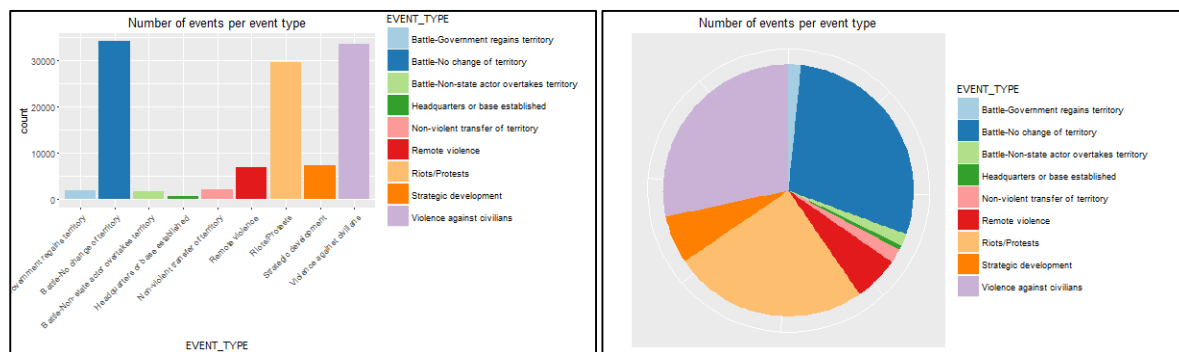


In this second plot, the obvious difference from the first plot is its x-axis labels. The names of the countries are too many and long and caused it to overlap in this facet. Even if I tried to rotate the x-axis labels, it takes up too much space and makes the plot smaller. The first plot looks more organized and the bar charts are easier to look at as compared to the second plot where there are occasional long and thin bars. The second plot aims to compare between countries across the years

which made some countries always stand out which explains the long and thin bars. Also, there are too many countries to compare and this makes analysis difficult.

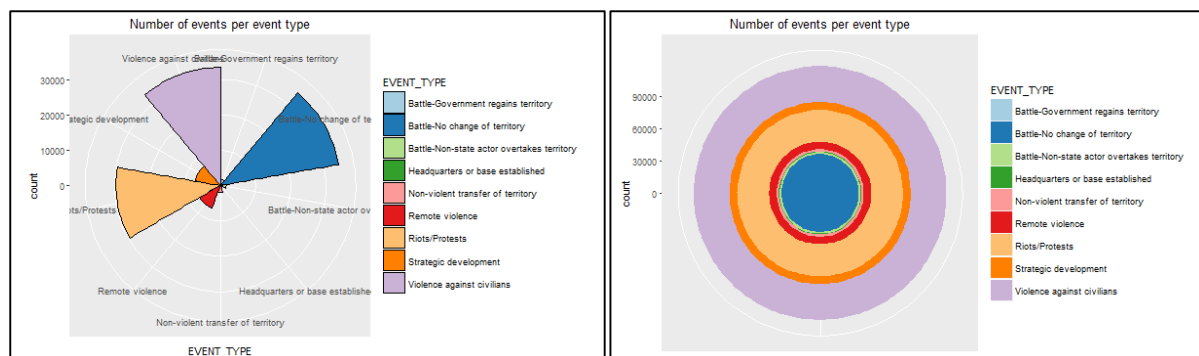
On a side note, I created the titles both in and out of R to compare which looks better. I think for the second plot, there are too many plots in it and the title will take up some space so it will be better to create the title outside R.

Qn 2



bar chart

pie chart



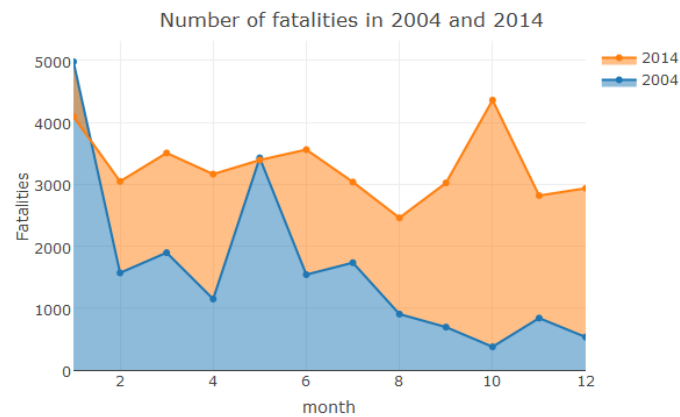
coxcomb chart

bullseye chart

With the exception of the bar chart, the other 3 charts have a circular shape in general. The bar graph is the most obvious to identify quickly the rough difference between the different event types. The coxcomb is good at making the huge cones really big as compared to those smaller cones. The design of the bullseye is really bad in identifying any trends or anomalies. It is also skewed because the dark blue portion is in the shape of a circle while the rest isn't. So, it is very difficult to judge the difference based on this chart. Another similarity among the round charts is that values are difficult to be placed on the smaller portions whereas the bar graph is clearer in showing the proportional difference.

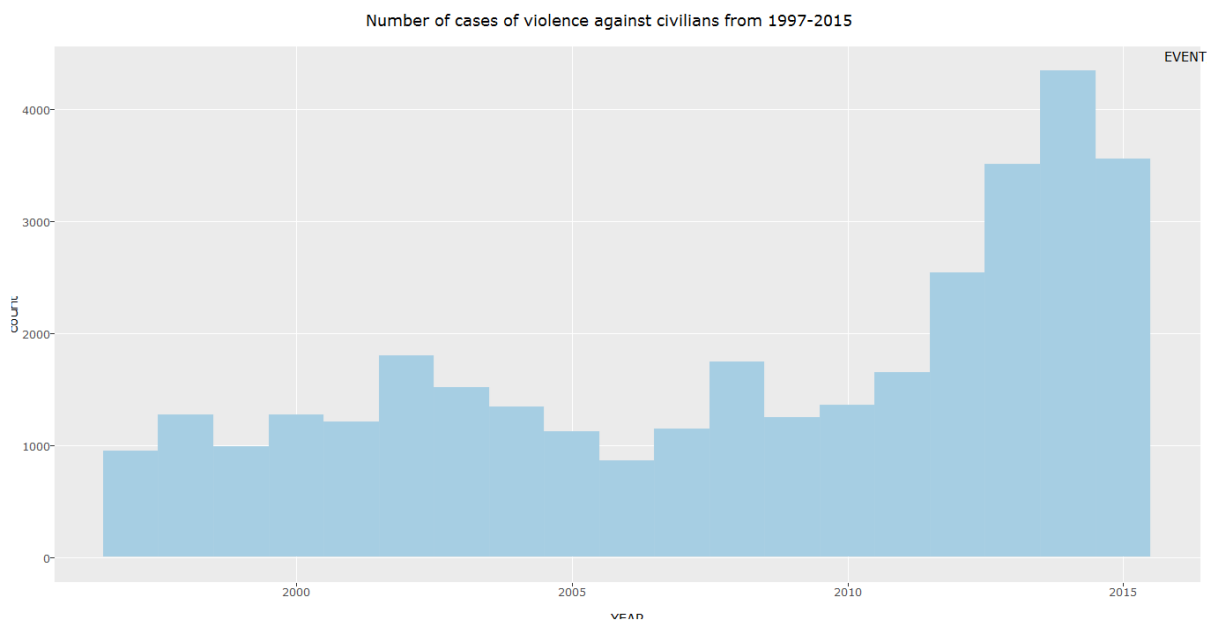
Qn 3

link: <http://rpubs.com/jong/166098>



I feel that this filled area plot is better represented than the bar graphs or line graphs as it gives the reader the impression that the number of fatalities has indeed grown by a lot since 2004 till 2014 by the difference in area covered.

link: <http://rpubs.com/jong/166136>



Bar graph is best represented to see the general or big picture. It can be seen as steps where the higher the step, it means the greater is the increase which gives the reader a gauge of how much effort = more deaths have occurred.