

Accidents in the U.K.

The analysis looks at data collected through UK database of injury in motor-vehicle accidents. The main interest of the analysis is to aid policy-making process for policing. Unlike a previous analysis of the same data that looked at number of accidents by hour in a day, this looks a trend of number of accidents by minute in an hour. The data was manipulated to be able to extract time information from Time variable.

Figure 1. visualizes the number of accidents per minute in an hour. Unlike the previous analysis where the number of accidents by season varied which could lead to a sensible conclusion. The histogram shown below provides no insight at a possible explanation of why such pattern occurs besides the “heaping” of data. Heaping is a measurement error when data is coarsely collected. This means that while reporting time of the accidents, people round up to the nearest fifth thus introducing heaping.

While it is important to look at bigger trends in phenomena such as number of accidents by season or hour in a day, it is apparent that on a smaller scale, the data appears to be ordinal.

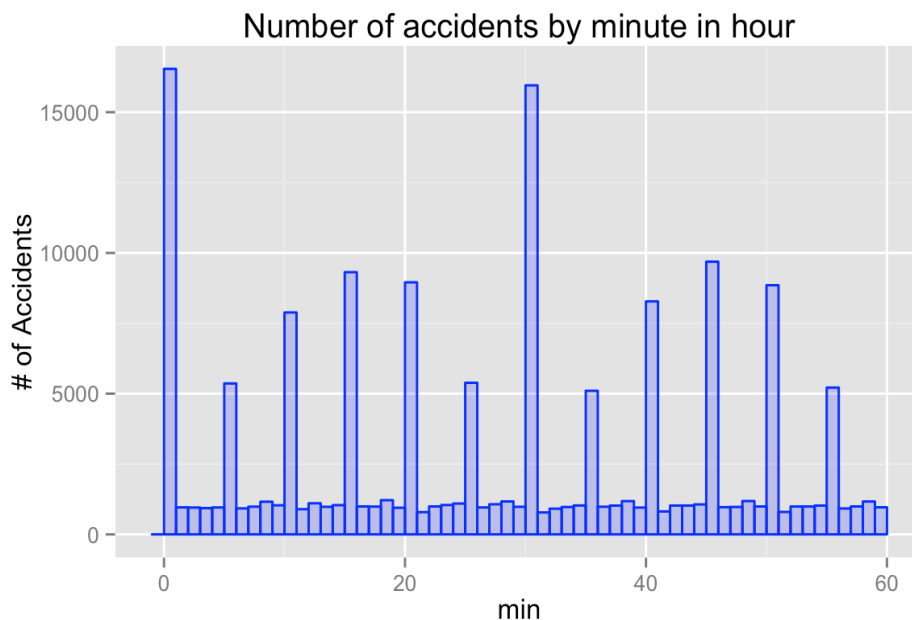


Figure 1. Amount of accidents by minute by hour