



Figure 1: Kewl

What-why-how

The visualization attempts to give an overview of the three matches played between FCM and Viborg this season from FCM's point of view. The visualization presents various information regarding where touch-related data has taken place and also keeps track of the rate which different types of errors has occurred in percent.

The purpose is to allow the user to explore how a top-tier team such as FCM, deducted by the fact that they won the league in 2014/2015 and at the moment of writing is number three, can play against a new-coming underdog team from first division and in some cases win, play tie and lose. The hypothesizes is that their play-style will change when being behind, partly because they are not playing well in the first place, but also due to the pressure of losing to a on paper worse team.

To strengthen the hypothesis the visualization gives two different views where information

can be deducted to find differences. The first one is a map which display where curtain events have taken place. The type of event is determined by the user in the selection-menu in the panel to the right. Six options are available and can be categorized into three overall themes which are: Aerial duals, shots and passings where for each the user can also select whether he wants to inspect the "successful" ones or the those that went wrong. By mapping the events, the user can look for clusters in the data and may find patterns to where curtain events happen. To aid in finding such clusters, two more options are available in the panel. The first one allows the user to select which matches should be inspected as the dots on the map may at time be so overwhelming that nothing can be concluded at all. Each match is represented by its own color with high variety in hue and brightness so they are easier to differentiate and also the background is very neutral to avoid interference with the inspected elements. The background also have the lines of a real football field to give a better feel of where on the field the events have happened. The last option in the panel allows the user to select an opacity of the dots. As all the coordinates have been altered in such a way that it looks like FCM is always playing on the left side of the field, many dots may at times overlap and thus making them slightly more transparent enables the user to spot overlaps. The altering of the coordinates, serves the purpose of creating a more intuitive view to spot cluster and thus the opacity serves an important part in the exploration. The second view is a line-chart which illustrates the relation between two variables as a percent on the y-axis and the time which has passed in seconds on the x-axis. The relation which is shown depends on the selection in the panel, so it may be how many percent of the passes failed, shots were missed or aerial duels lost. The number lines will also toggle to the selection of matches in the panel. However, the opacity can not be change here as it is not necessary to read the information successfully and would merely be a distraction. Lastly at the very bottom is a slider which determines which point in the three matches the user desires to inspect. The slider also contains ranges so snapshots of the match can be inspected in detail.

The user is presented with two chart types, the map shows where curtain actions have played out on the map

Code