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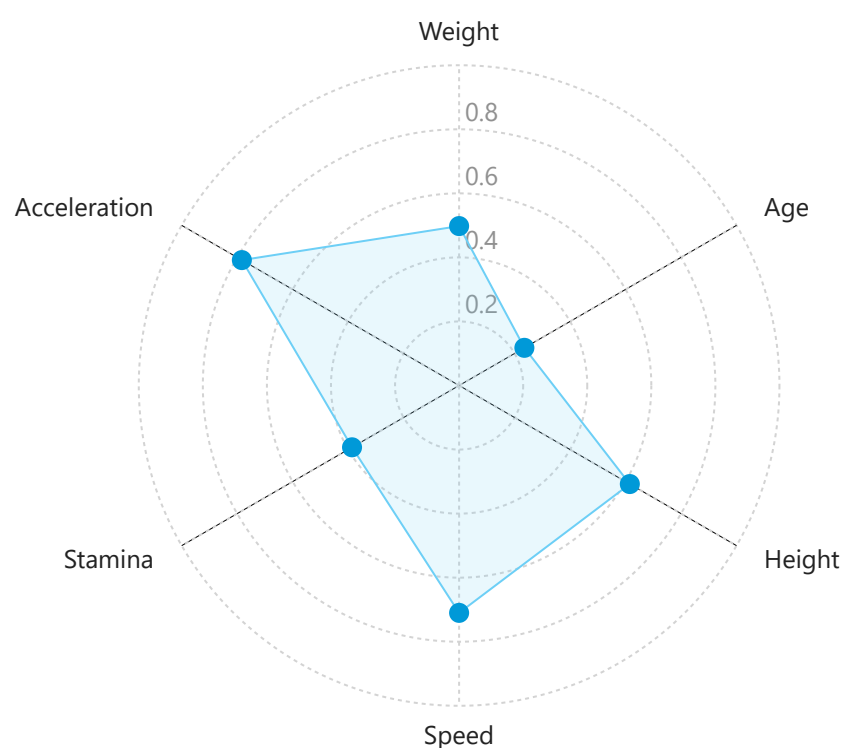
Data Visualization (CSCI 627/490)
Project *2022-11-09*

1. Prototype of Visualization:

```
data_normalized = ▶ Array(983) [Object, Object, Object, Object, Object, Object, Object, O]
```



645: Tarell Basham (OLB)



```
sampleData = ▶ Array(6) [Object, Object, Object, Object, Object, Object]

RadarChart = class

wrap = f(text, width)

palette = ▶ Object {text: "#222", grid: "#d3d3d3", gridAccent: "#C8DA2B", dot: "#0099D8",

opacify = f(c, a)

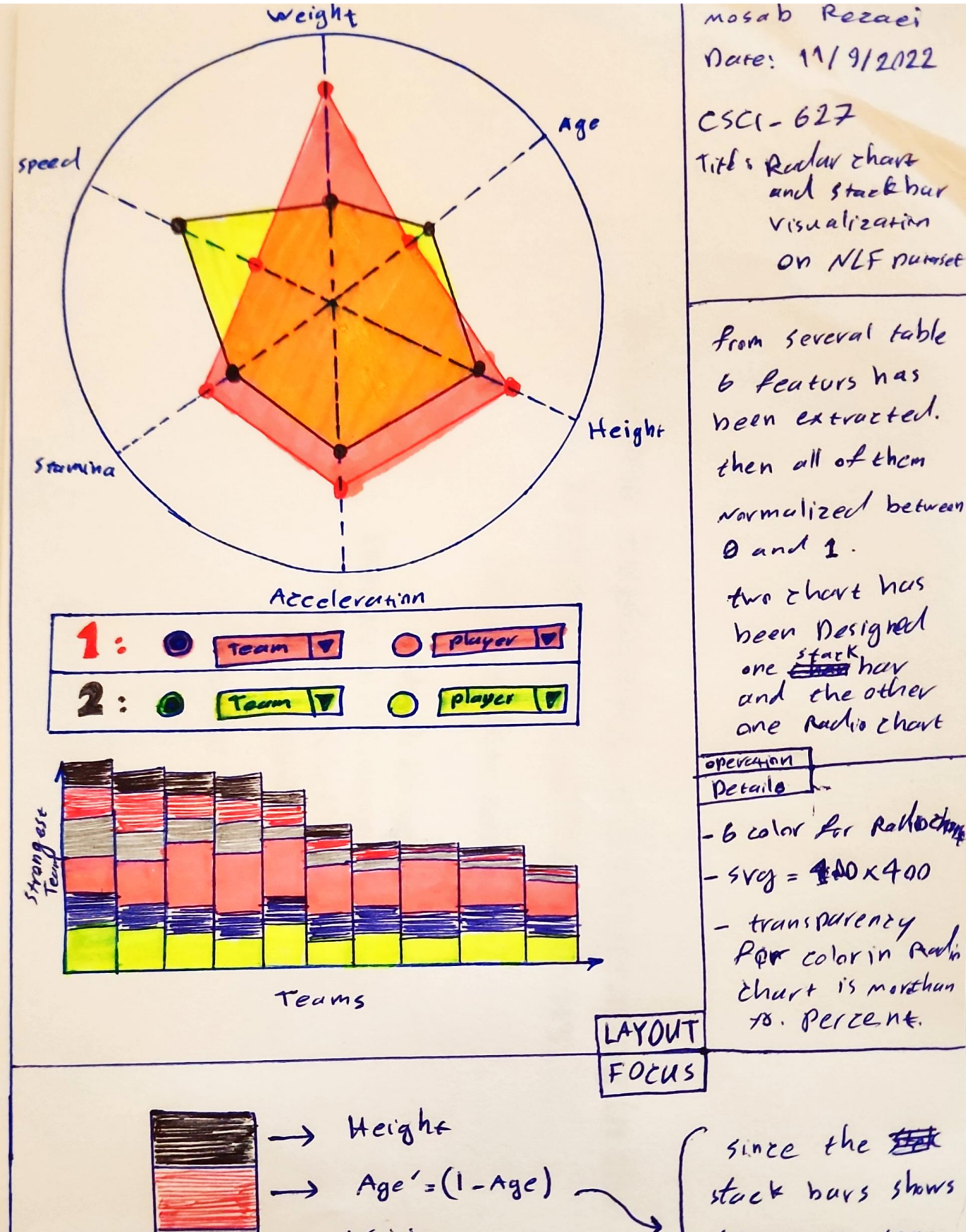
chroma = f()

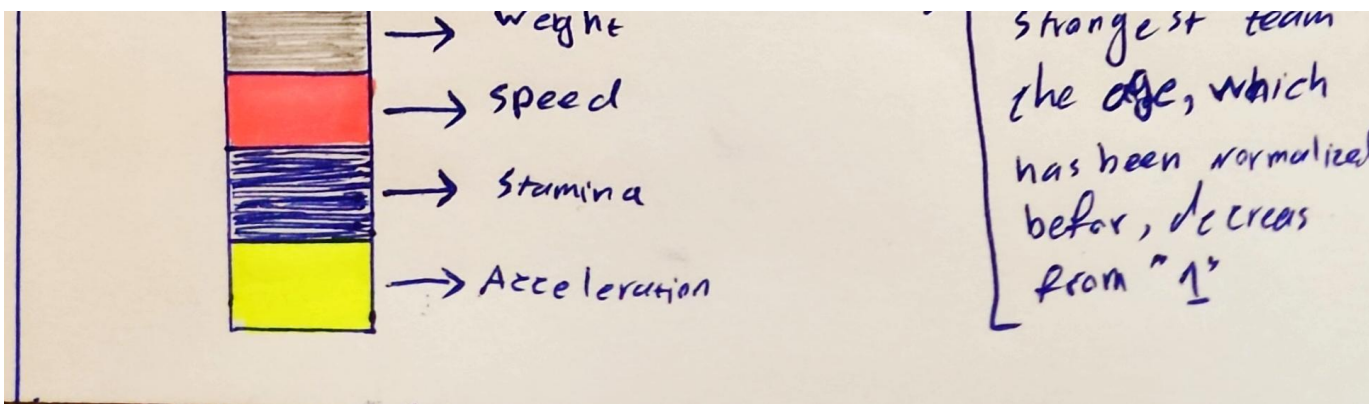
Min_Max = f(column)

undefined
```

2. First Sketch:

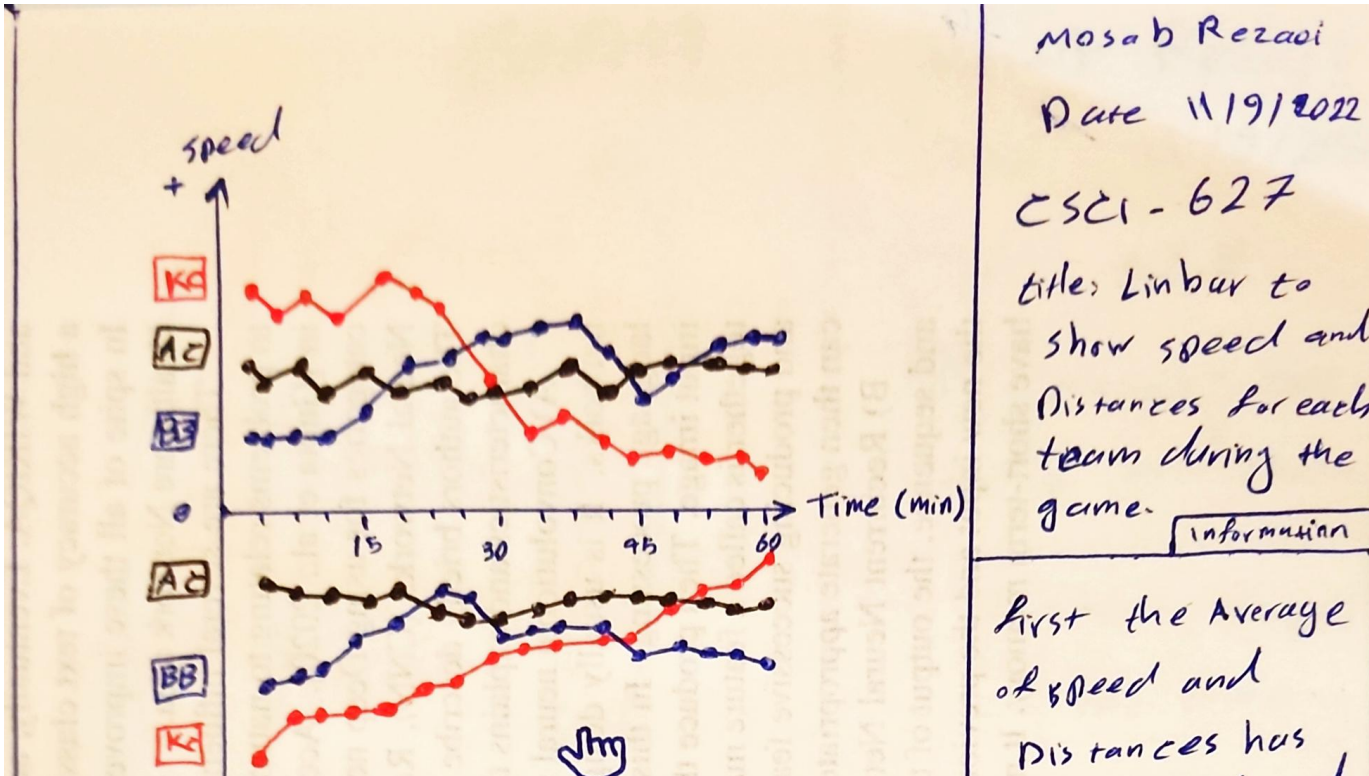
In the below chart, team coaches can figure out what is the main differences between their players with the other players on other teams. For example, a coach, by watching both charts notice that his team suffering from a lack of fast runner players. then again, by using the chart, he or she selects a player with a speed higher than his team. also, the chart offers the coach to have a glance at the other abilities of the player. It should be mentioned that the stacked bar shows the power of each team based on the extracted features. But in contrary to the other features, the lower "age" is better than, the higher one. it is why, after normalization, age must be decreased from one.



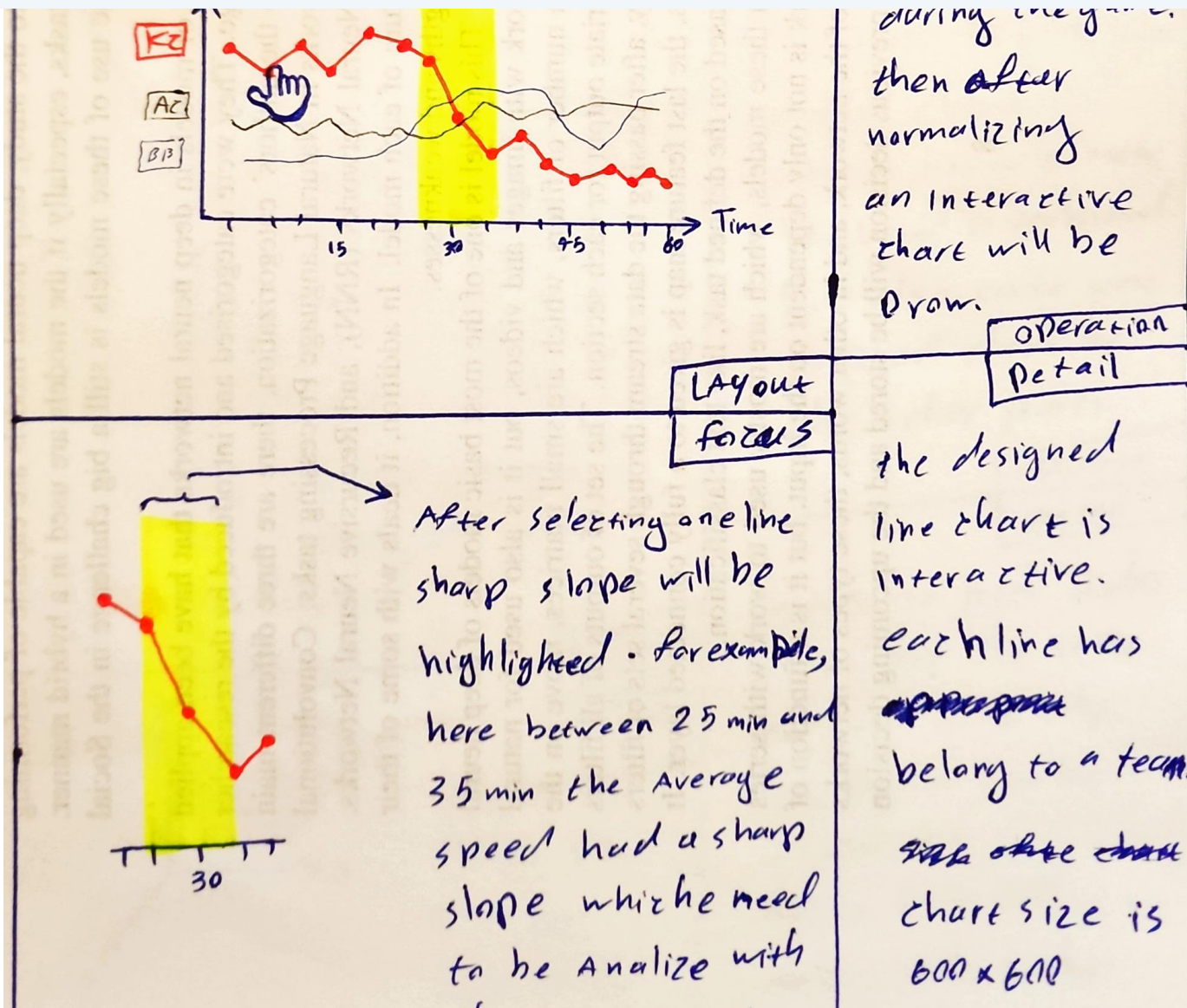


3. Second Sketch:

The below chart demonstrates the pattern behind the speed and acceleration of the player during the game. In other words, the line charts try to show the performance of the player during the game. the lines are interactive to help analyzers to have a precise view of the lines. By using this chart coaches can quickly understand when and how much their player lose their energy or change their strategy.



{ } _11_1004_31OfficeLens2 = FileAttachment("2022_11_10 04_31 Office Lens (2).jpg").image()



4. Bad Sketch:

Finally, the goal of this chart was to merge both previous visualization to save space and transfer all the information just with one chart. maybe the shape of the 3d chart looks nice, but unfortunately, it is hard to understand and extract the information from it. On the other hand, some parts of the chart will be hidden by the other parts.

