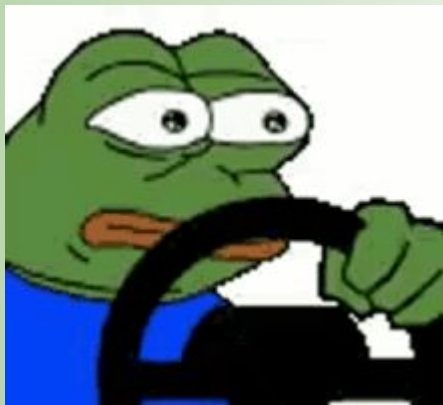


The logo is a circular emblem with a dark green border. Inside the border, the words "FODSPORTS" are written in a semi-circle at the top and "FOOTWEAR" at the bottom, both in white capital letters. The center of the logo features a stylized white triangle with vertical lines, and a smaller white triangle inside it. At the base of the inner triangle is a white soccer ball. Below the soccer ball, the letters "FF" are visible. At the bottom of the circle, the year "1896" is written in white.

Reaction Times in Football

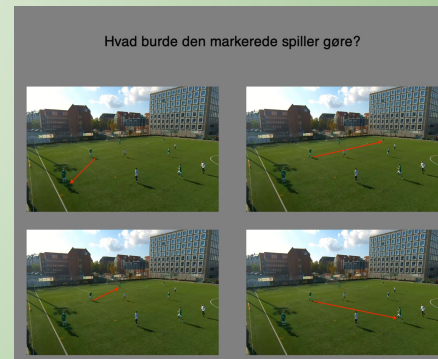
A comparison across teams & experience

WHERE DID OUR DATA COME FROM?



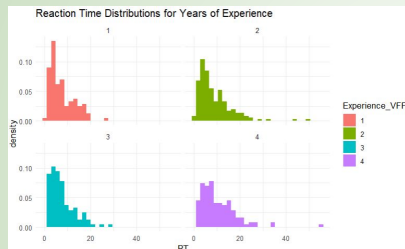
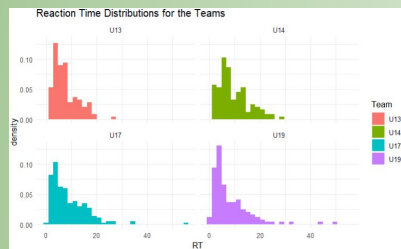
The Test

- Motivation for the product
- Video-based (data validity)
- Tactical Understanding
- Why reaction times?

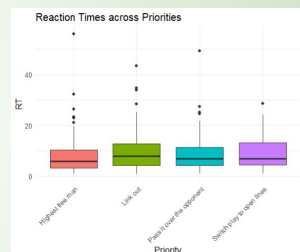


Data Exploration

Reaction Times are non-normal



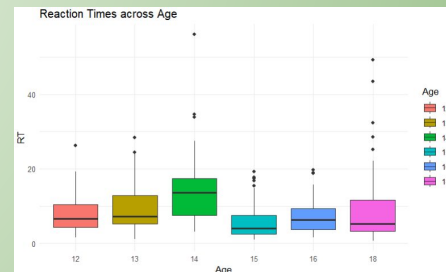
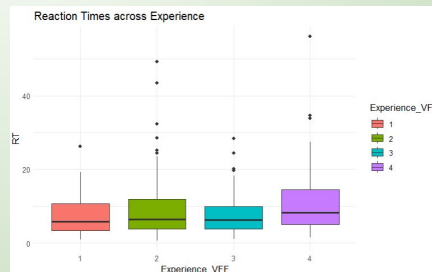
Plots?



Shapiro-Wilk Test

Team	p_value	W_statistic
<chr>	<dbl>	<dbl>
U13	5.719611e-08	0.8959505
U14	1.068369e-06	0.9189718
U17	3.767719e-14	0.8196355
U19	4.161867e-13	0.7627031

Experience_VFF	p_value	W_statistic
<int>	<dbl>	<dbl>
1	5.073888e-08	0.8949357
2	4.608860e-14	0.8217078
3	8.056067e-09	0.8785825
4	6.406926e-11	0.8282184



Methods

Non-parametric test

Kruskal-wallis rank sum test

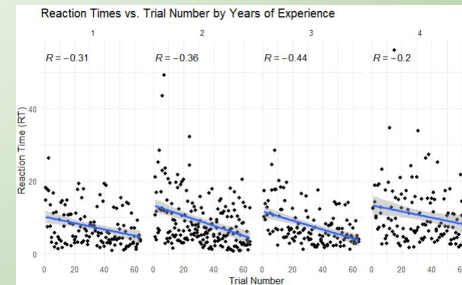
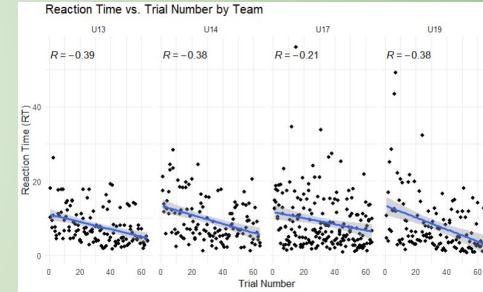
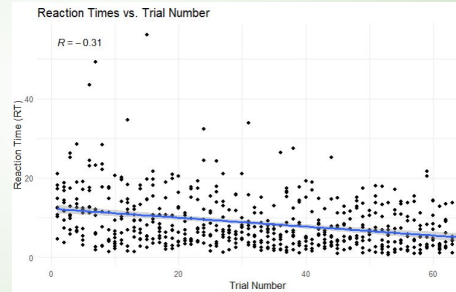
data: RT by Team
Kruskal-wallis chi-squared = 10.484, df = 3, p-value = 0.01487

Kruskal-wallis rank sum test

data: RT by Experience_VFF
Kruskal-wallis chi-squared = 17.262, df = 3, p-value = 0.0006244



Correlation



Results

Wilcoxon rank sum test

data: combined_data\$RT and combined_data\$Team

	U13	U14	U17
U14	0.186	-	-
U17	1.000	0.753	-
U19	0.794	0.012	0.450

P value adjustment method: bonferroni

data: combined_data\$RT and combined_data\$Experience_VFF

	1	2	3
2	0.9162	-	-
3	1.0000	1.0000	-
4	0.0009	0.0481	0.0036

P value adjustment method: bonferroni