



HOW TO WIN AT ULTIMATE FRISBEE



What are we doing
wrong...?

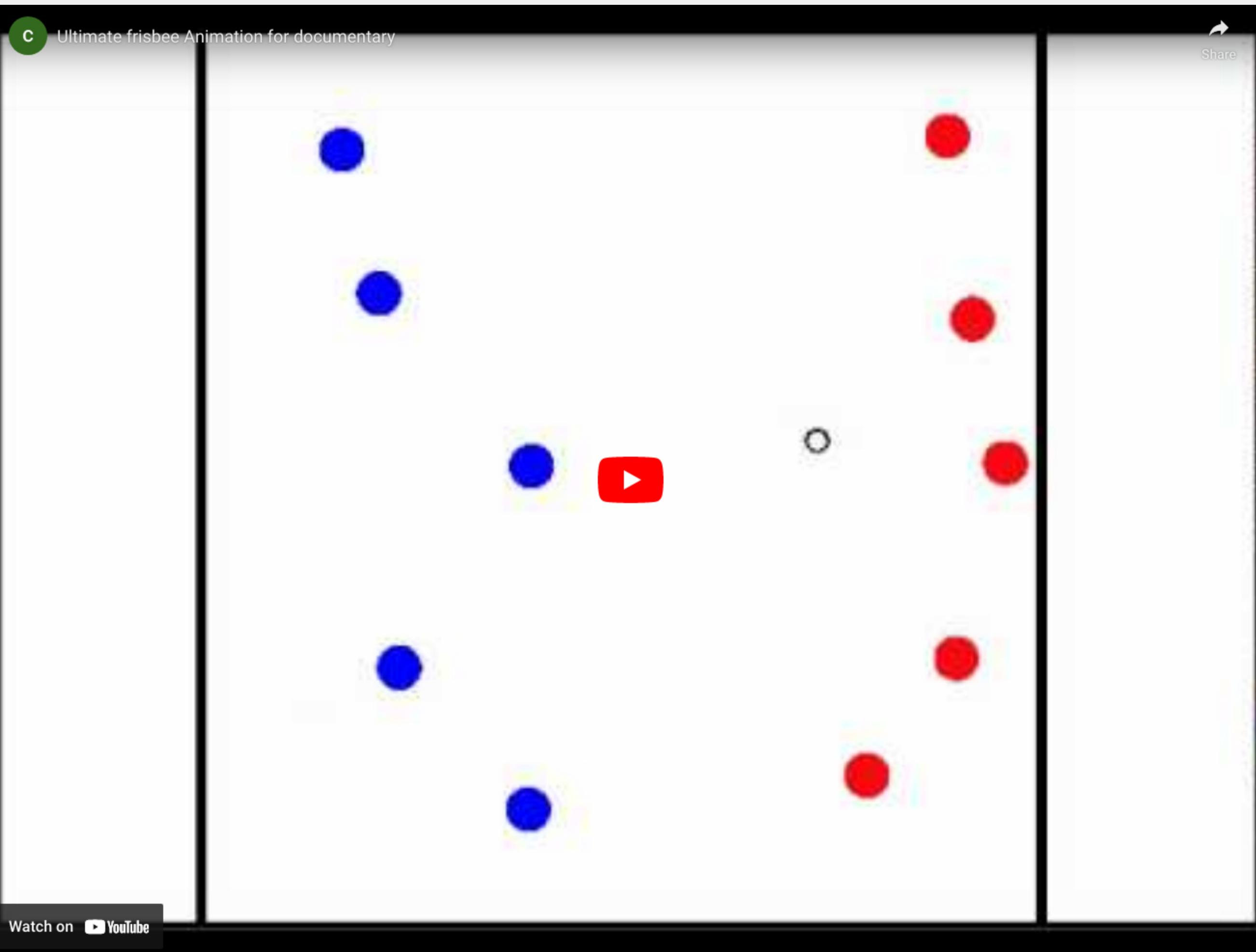


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Ultimate frisbee Animation for documentary



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WORKFLOW



American Ultimate Disc League 2015-2019

- 900 games
- 25 teams
- 500 000 data points

- regex
- thefuzz
- pivots & groupbys
- feature engineering

- K-means clustering,
- plotting
- Logistic regression

- Streamlit app

BREAKING DOWN PERFORMANCE

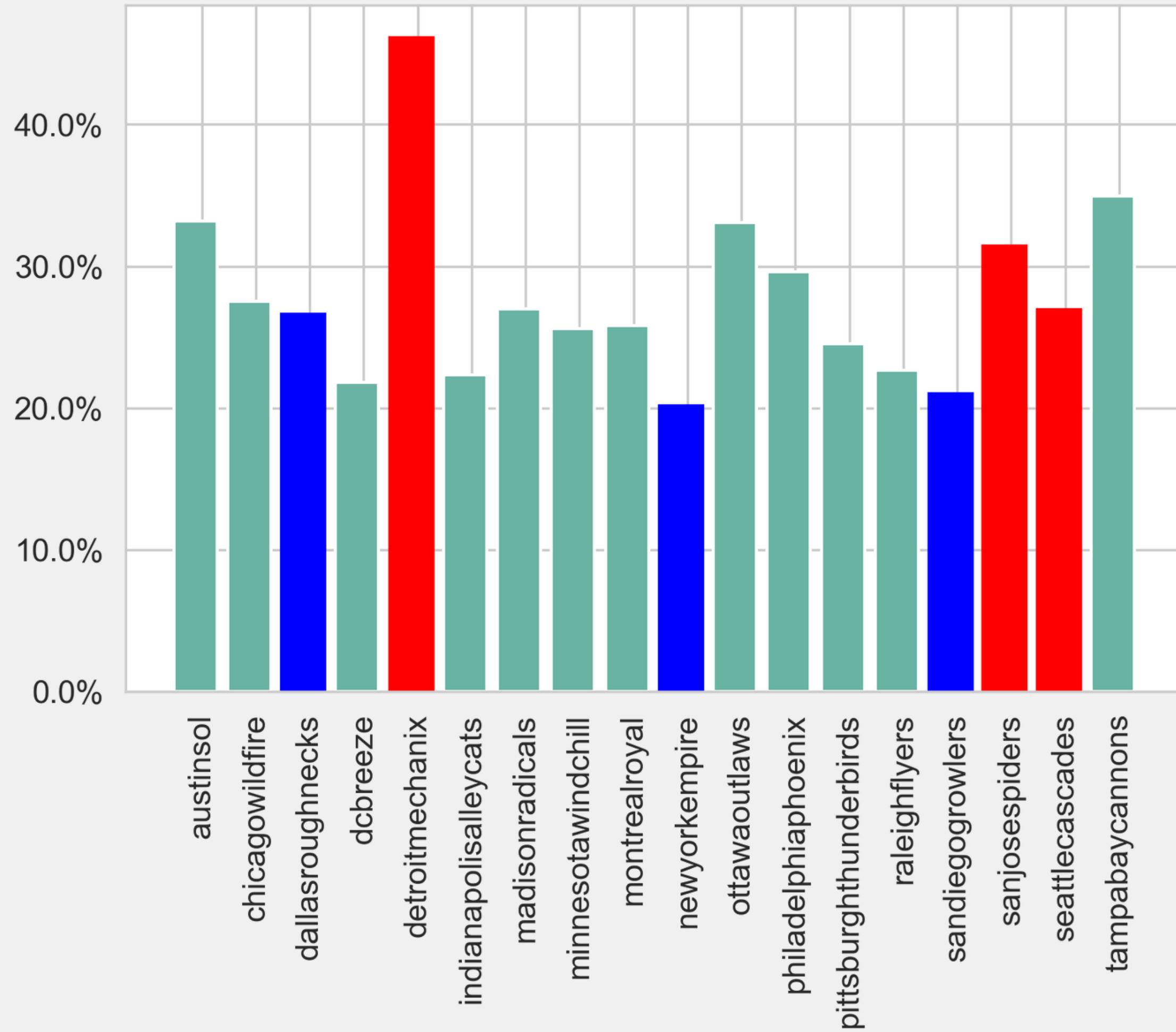
CORE SKILLS



DON'T LOSE THE DISK!

- Blue: Top 3 teams
- Red: Bottom 3 teams

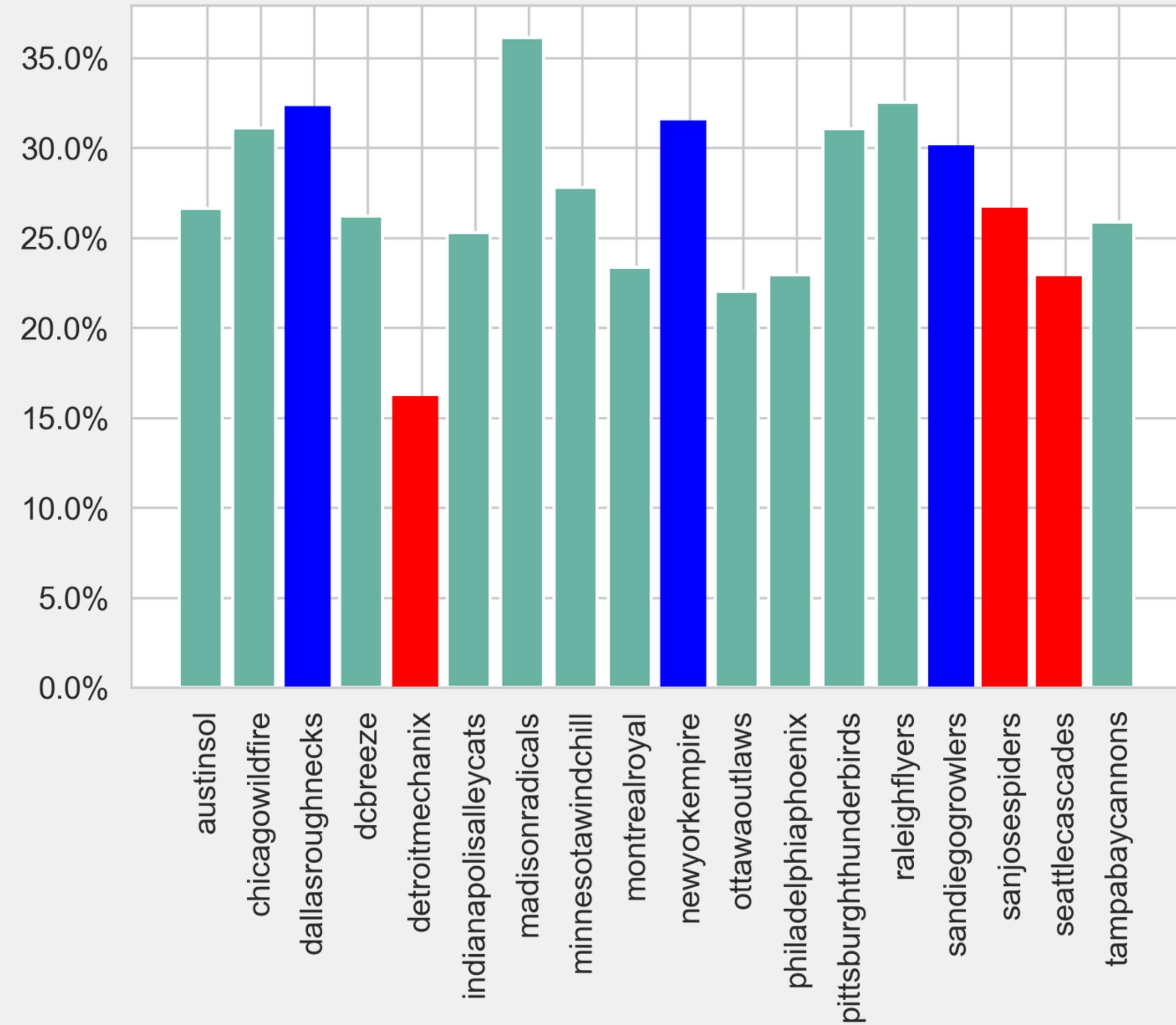
Opponent breaks the team's offensive-line posession, % of total points



GAIN POSSESSION OF THE DISK!

- Blue: Top 3 teams
- Red: Bottom 3 teams

Team breaks the opponent's offensive-line posession, % of total D-points



TACTICS





Watch on YouTube



Hucks From 2017 AUDL Championship Weekend



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AUDL
CHAMPIONSHIP
WEEKEND VI
2017

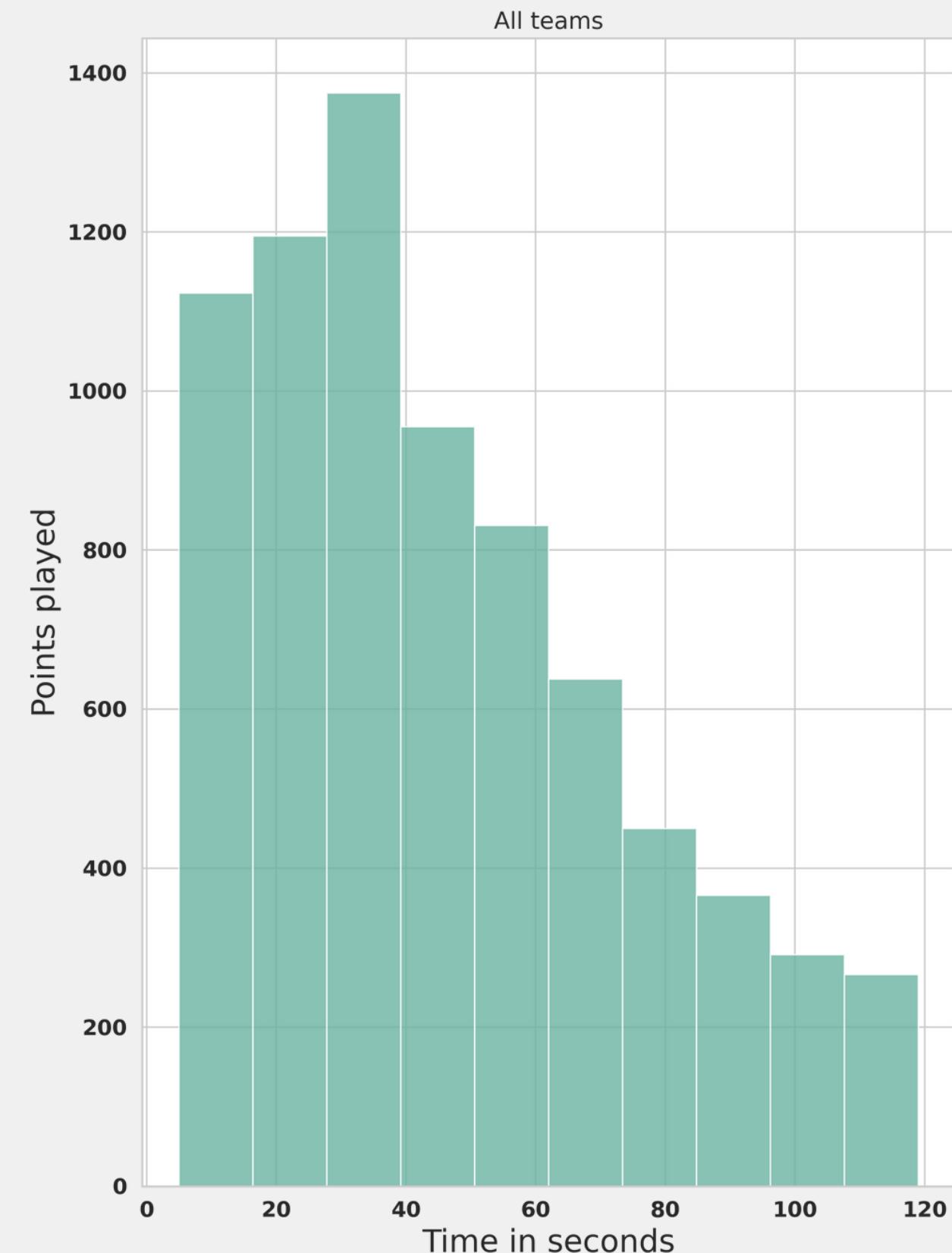
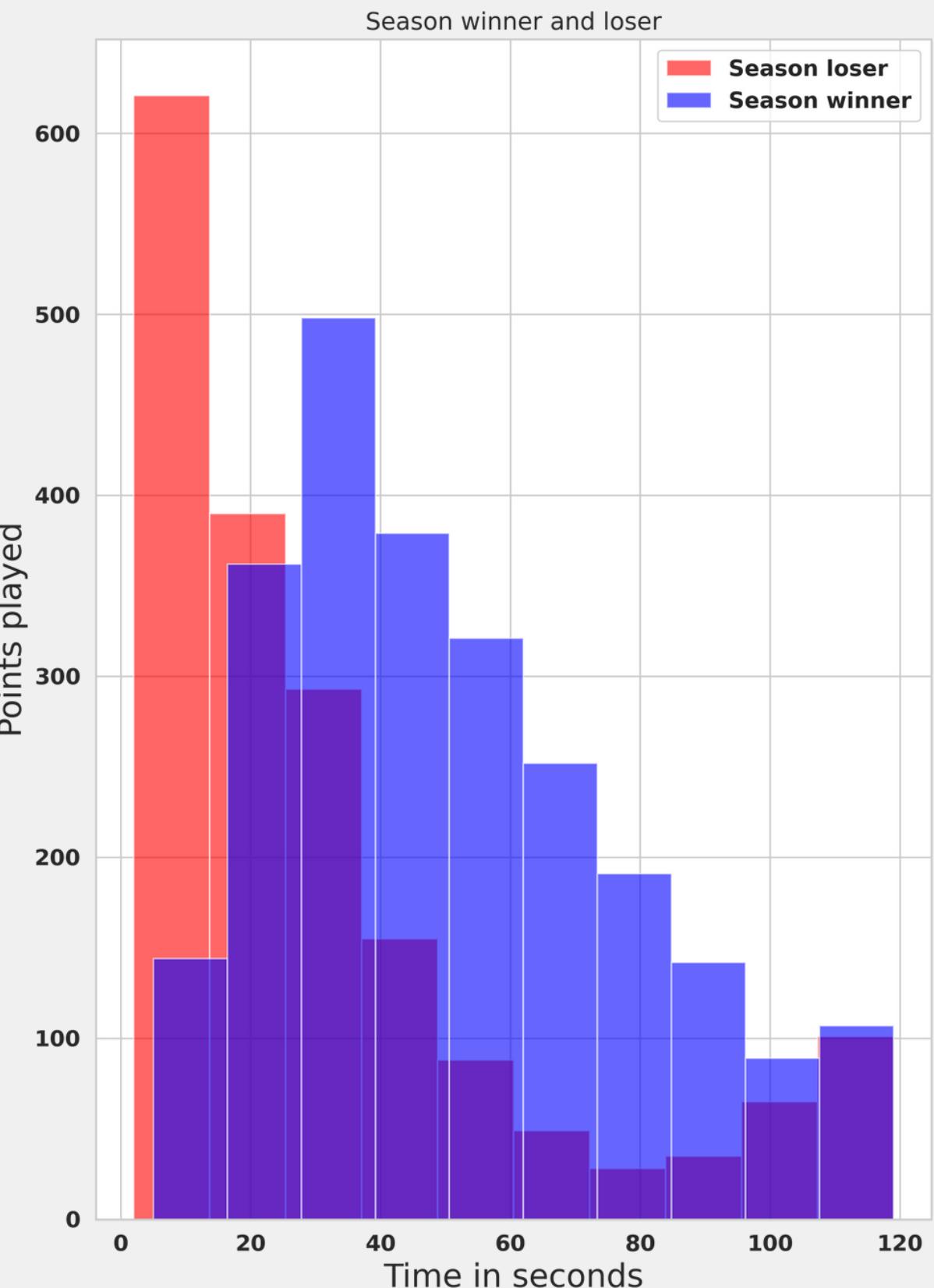
Watch on YouTube

ÉMILIE SIMARD

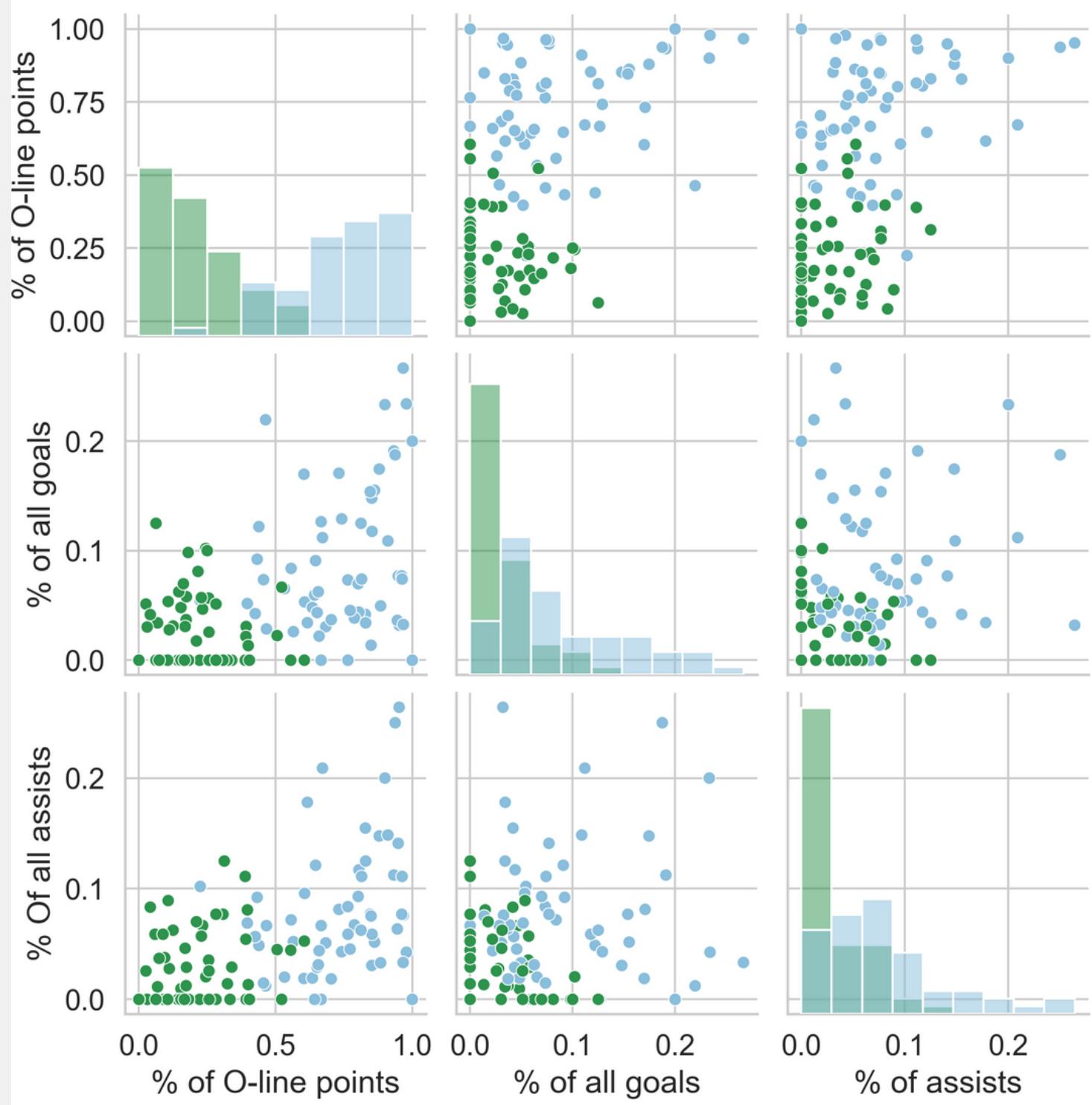
BE PATIENT!

- Blue: Top 3 teams
- Red: Bottom 3 teams
- Skilled teams better able to steadily progress upfield?

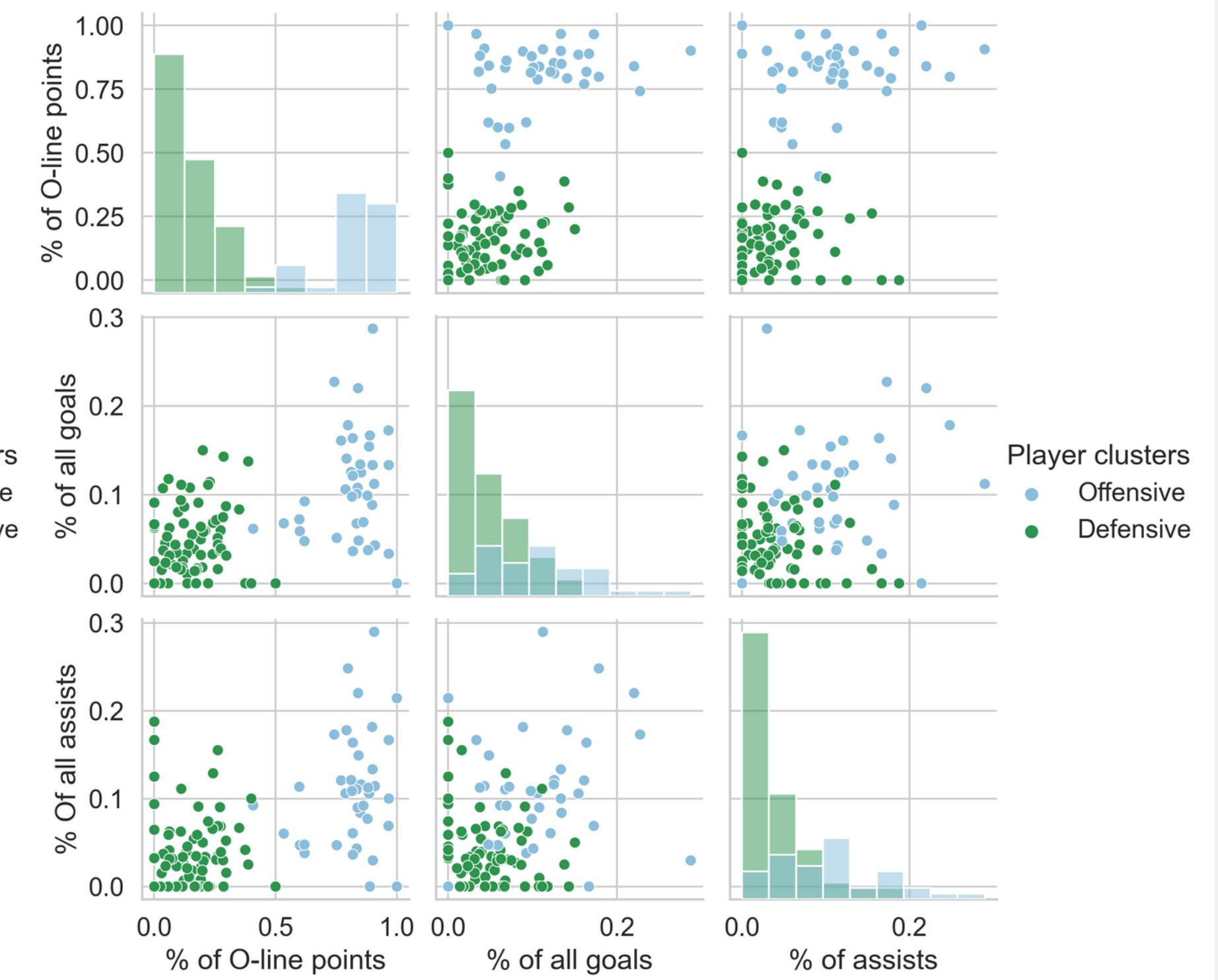
Time elapsed per point



PLAYERS OF BOTTOM 3



PLAYERS OF TOP 3



Player clusters

- Offensive (Blue)
- Defensive (Green)



FEATURES THAT PREDICT WINNING

LOGISTIC REGRESSION

- Number of bad throws
- Average number of drops per game
- Standard deviation of drops

RANDOM FOREST CLASSIFIER

- Number of bad throws
- % of successful passes from all throws
- Number of successful D's (= intercepting the disk)



**WHAT ABOUT MY
TEAM?!**

TAKE-AWAYS

CATCH EVERY DISK!

Focus on maintaining disk possession and aim for high percentage of completed passes

SPECIALIZATION

Defensive and offensive players

ATTRACT TALENT

Importance of outlier players for final score

