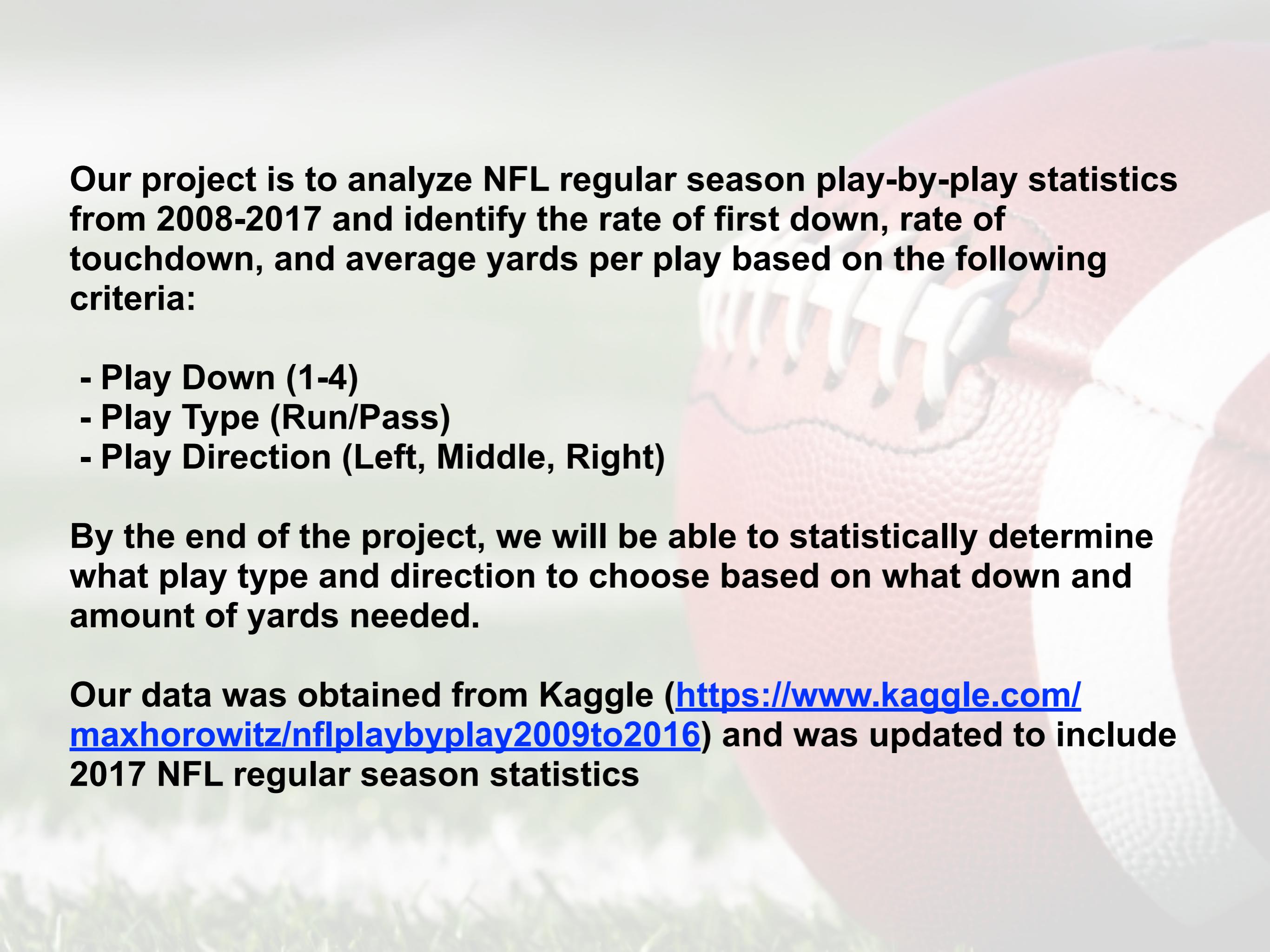


NFL Statistics

Team KRoNick

- Kristopher Bognot
- Robert Jacobi
- Nick Delgado





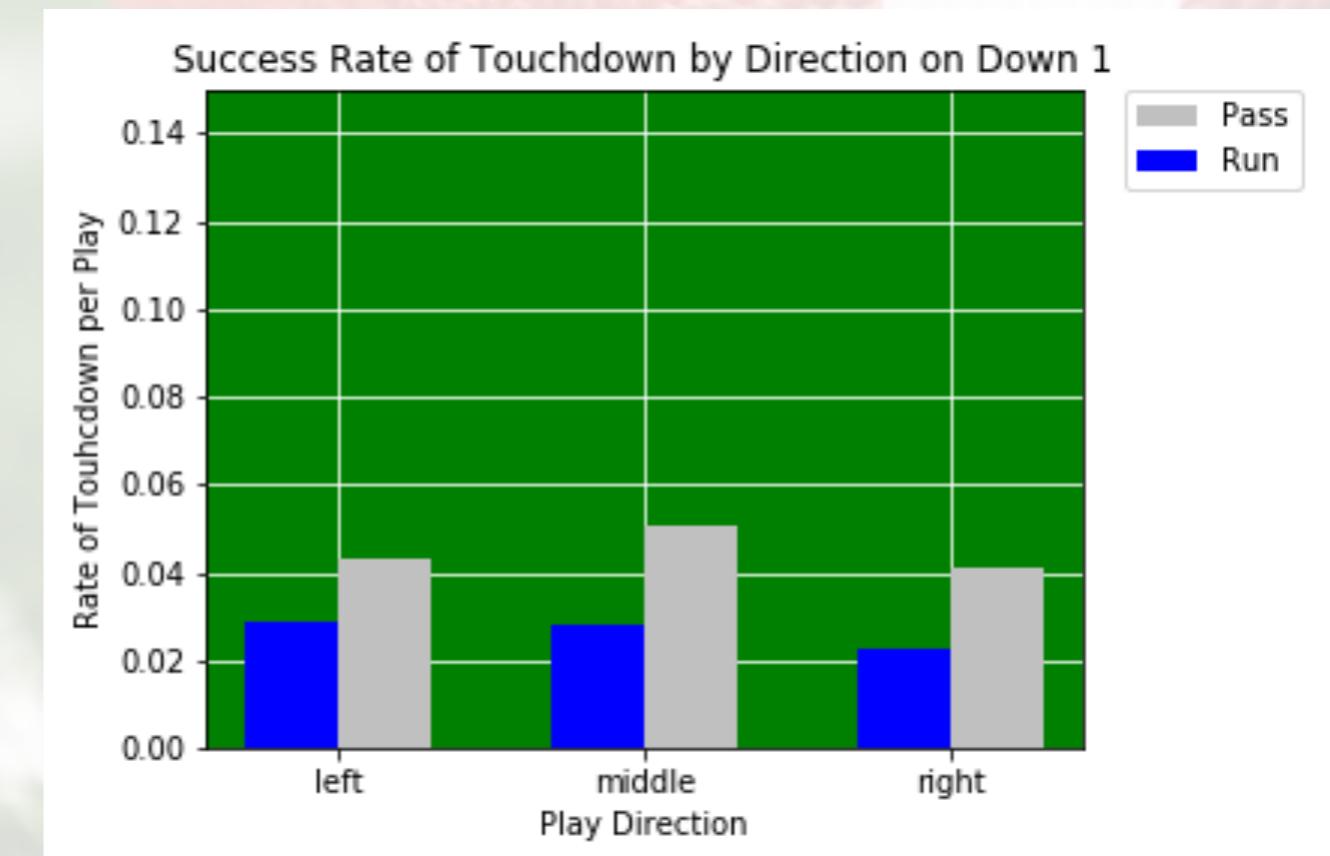
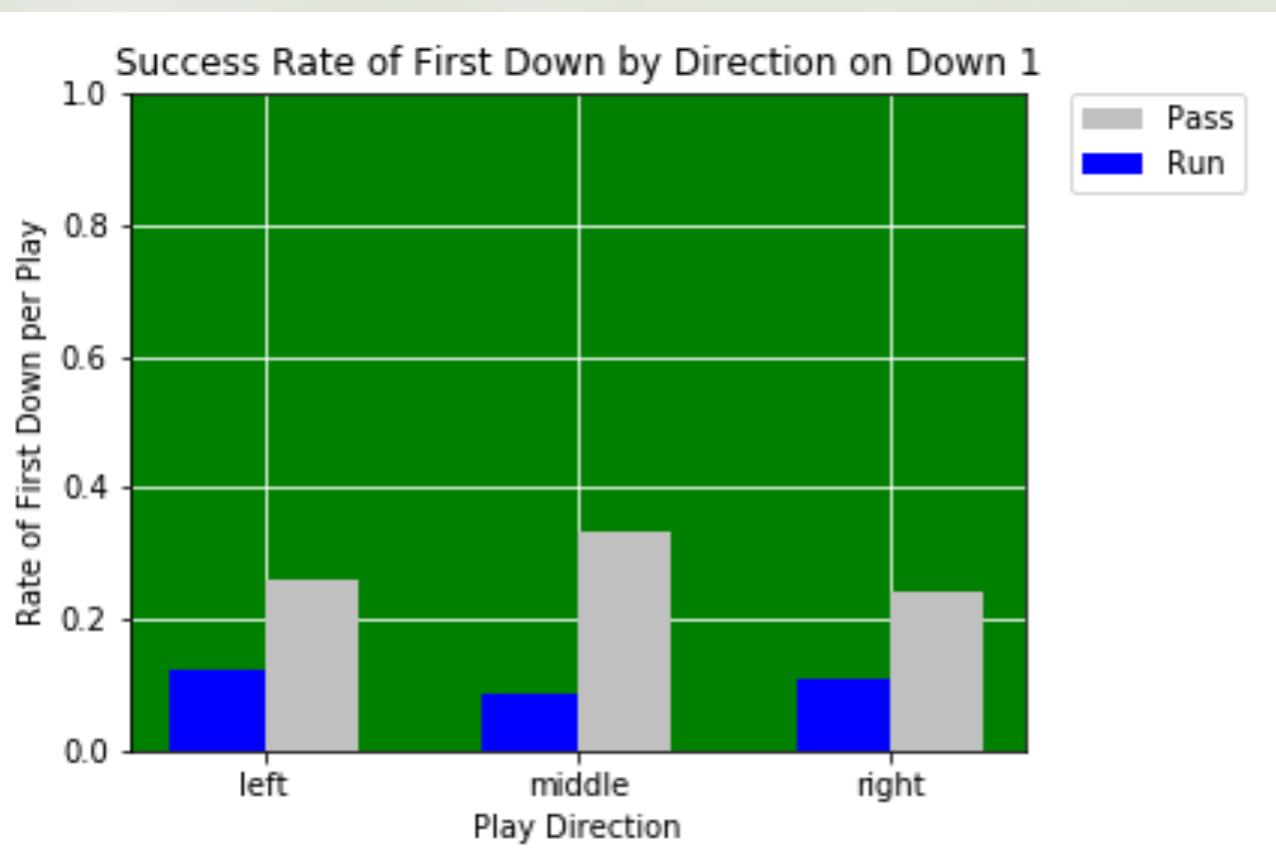
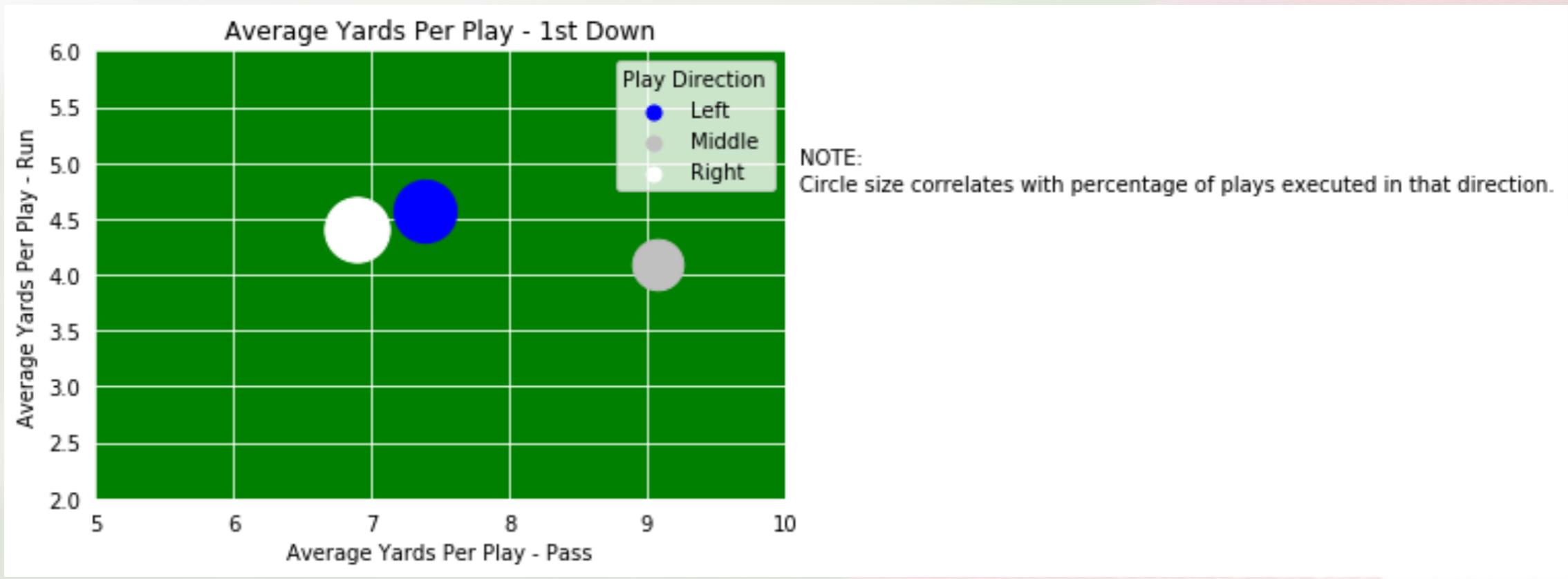
Our project is to analyze NFL regular season play-by-play statistics from 2008-2017 and identify the rate of first down, rate of touchdown, and average yards per play based on the following criteria:

- Play Down (1-4)
- Play Type (Run/Pass)
- Play Direction (Left, Middle, Right)

By the end of the project, we will be able to statistically determine what play type and direction to choose based on what down and amount of yards needed.

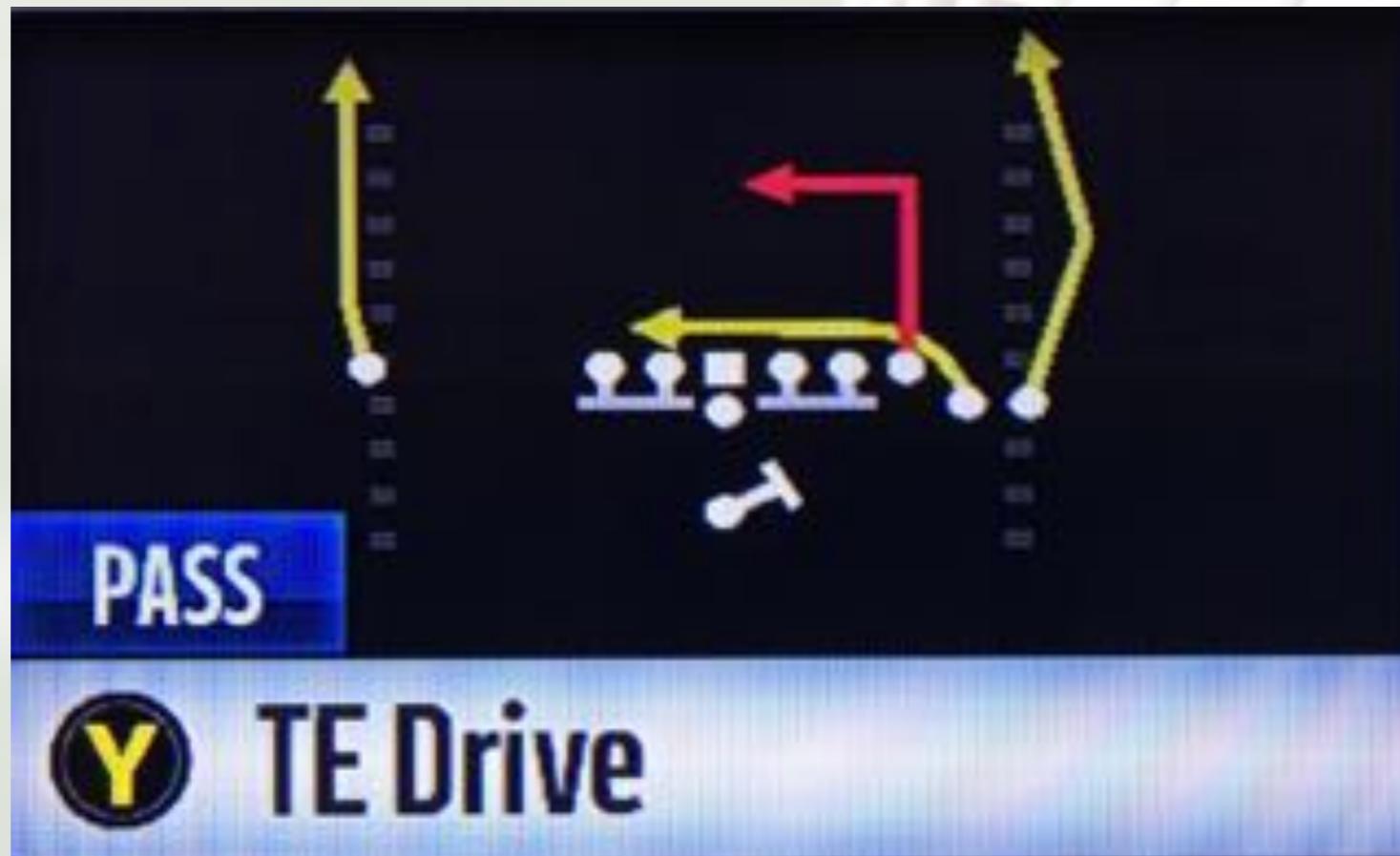
Our data was obtained from Kaggle (<https://www.kaggle.com/maxhorowitz/nflplaybyplay2009to2016>) and was updated to include 2017 NFL regular season statistics

NFL Statistics - 1st Down



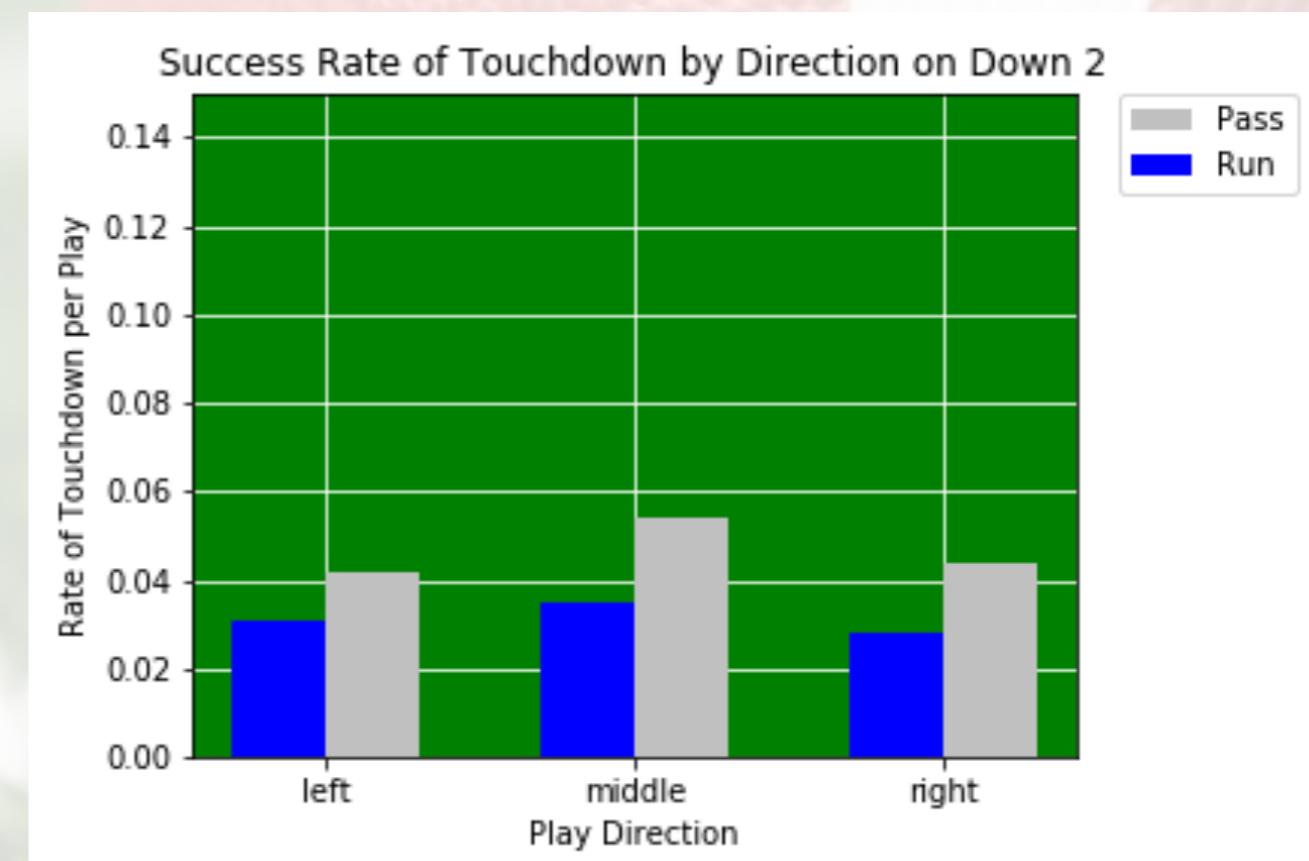
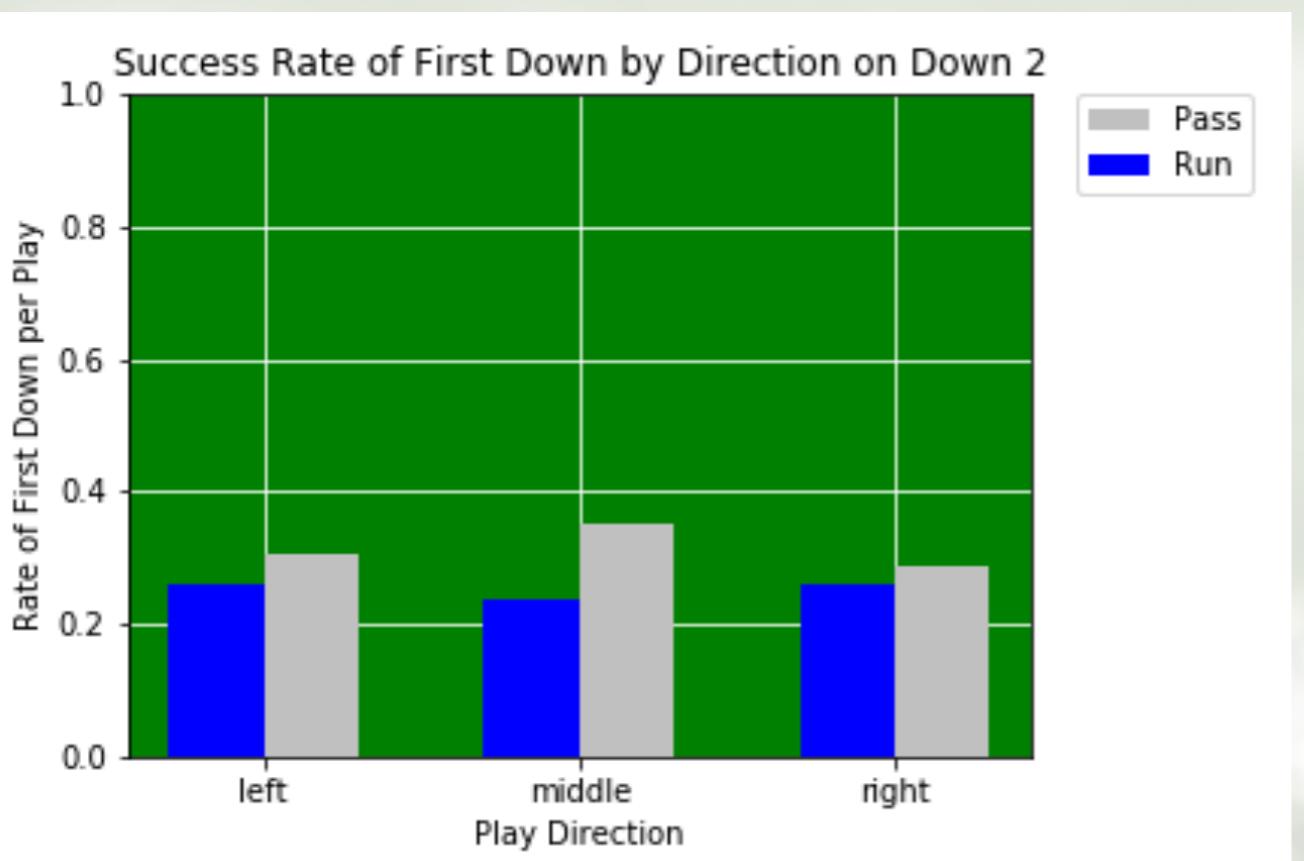
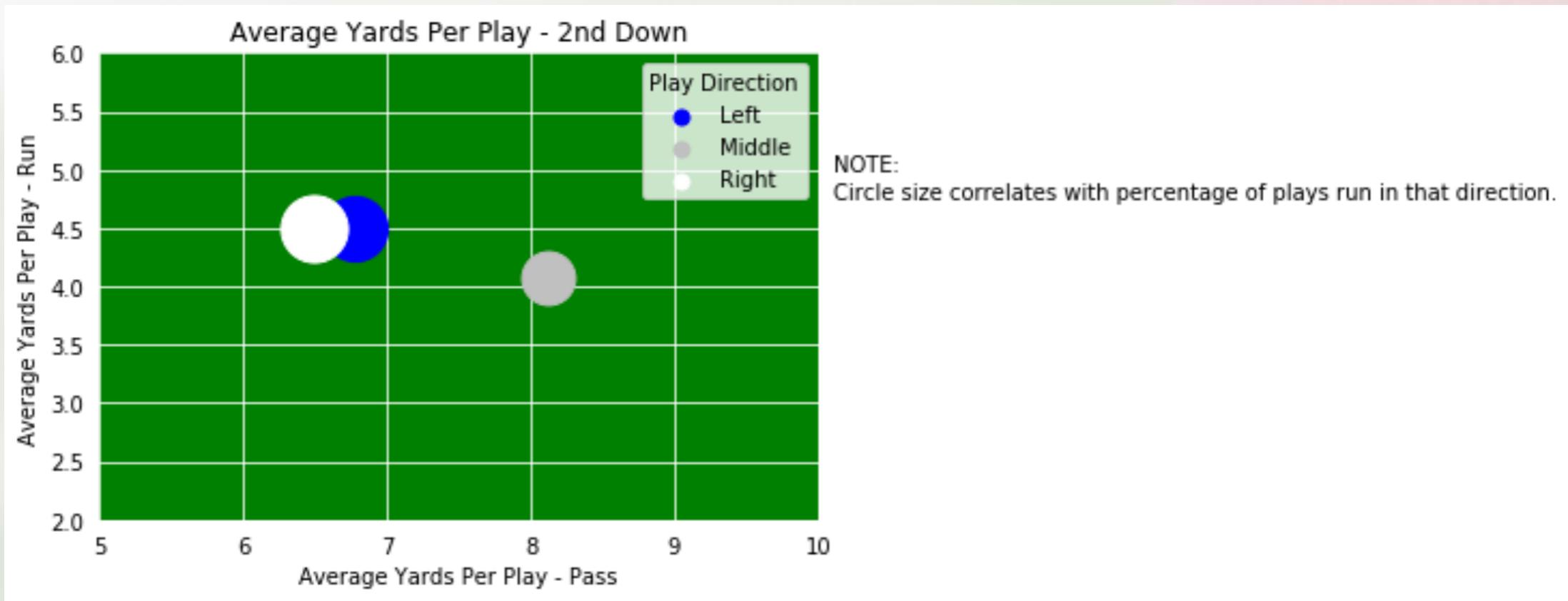
Conclusions

Which play type was statistically the most successful?



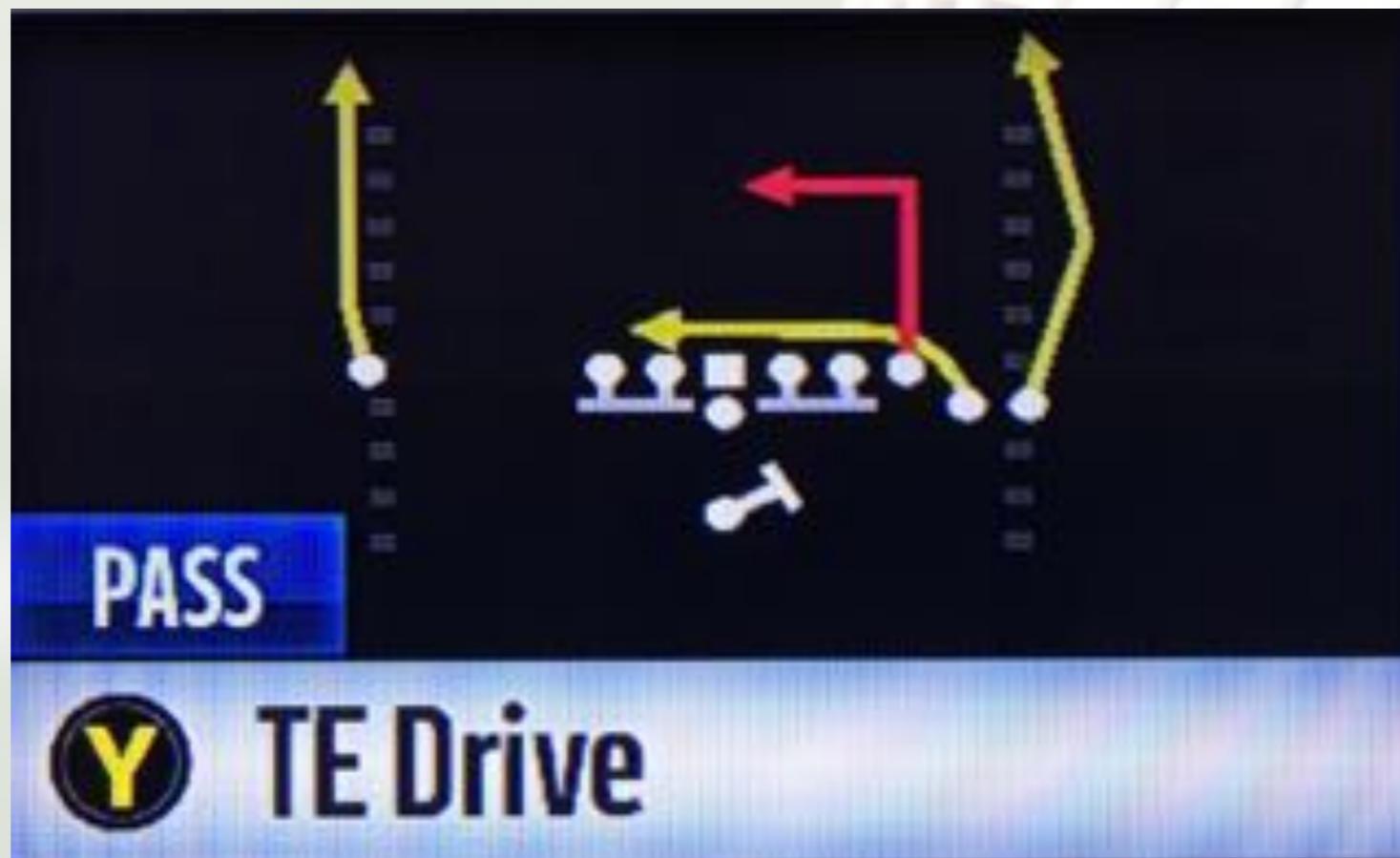
Pass up the Middle!

NFL Statistics - 2nd Down



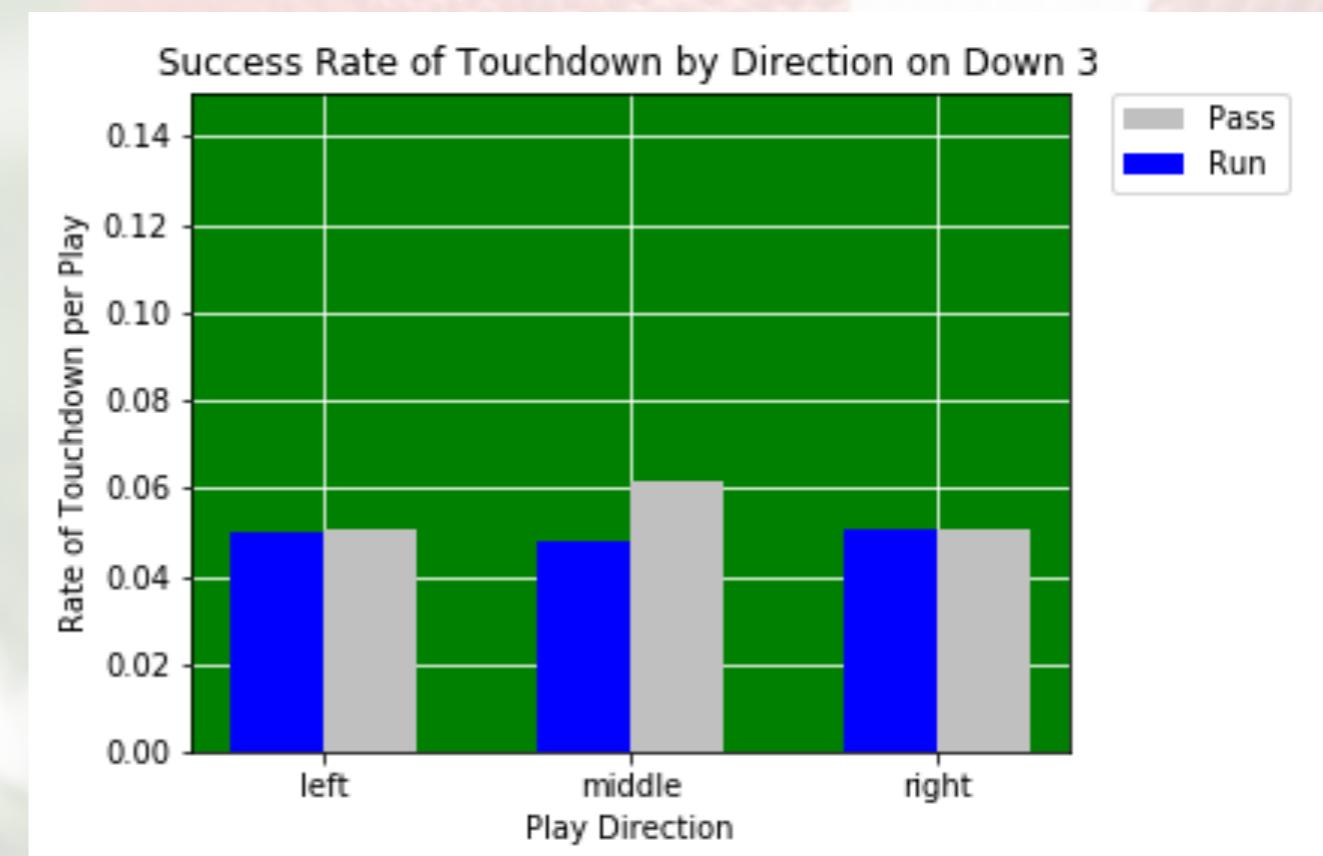
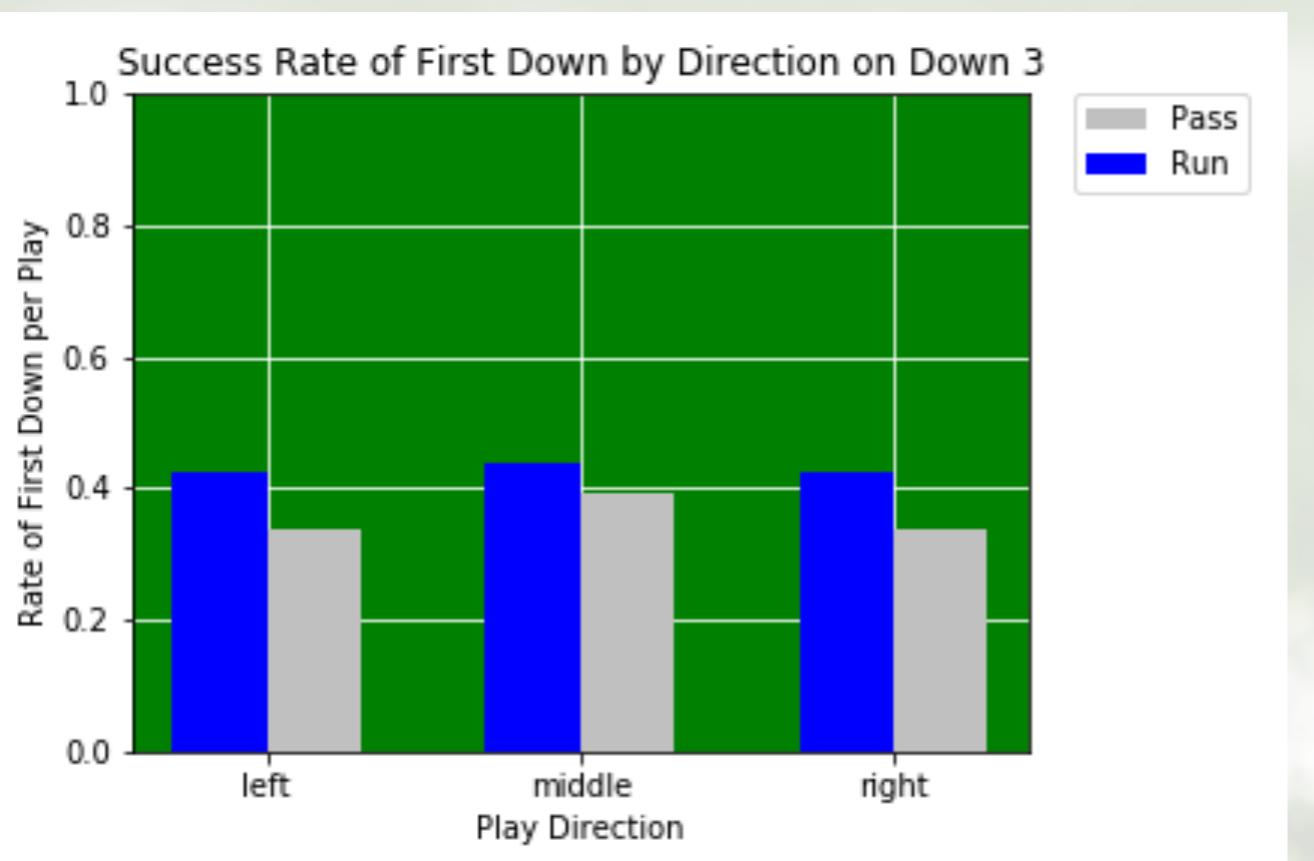
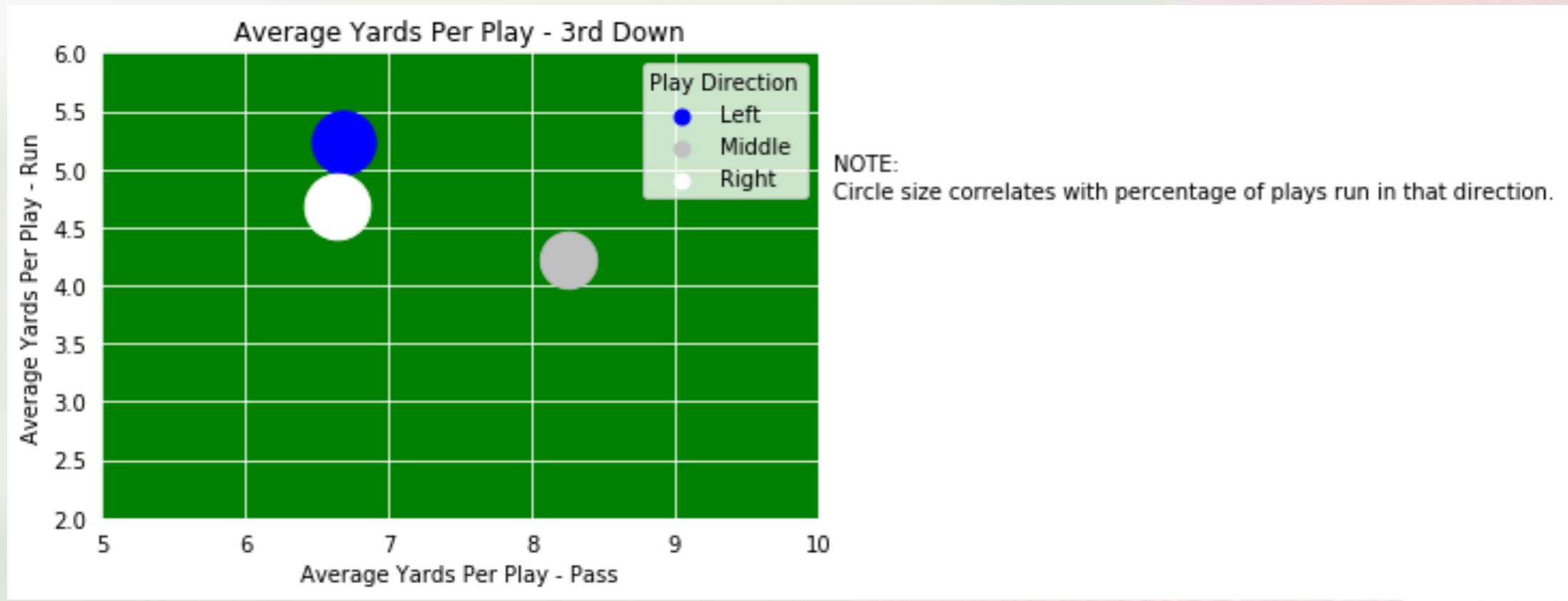
Conclusions

Which play type was statistically the most successful?



Pass up the Middle!

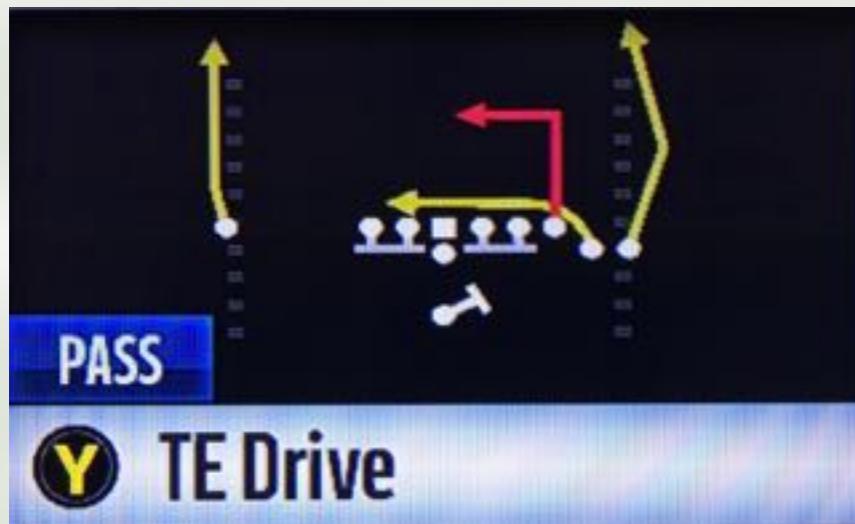
NFL Statistics - 3rd Down



Conclusions

Which play type was statistically the most successful?

For the most Yards and
Highest TD Rate



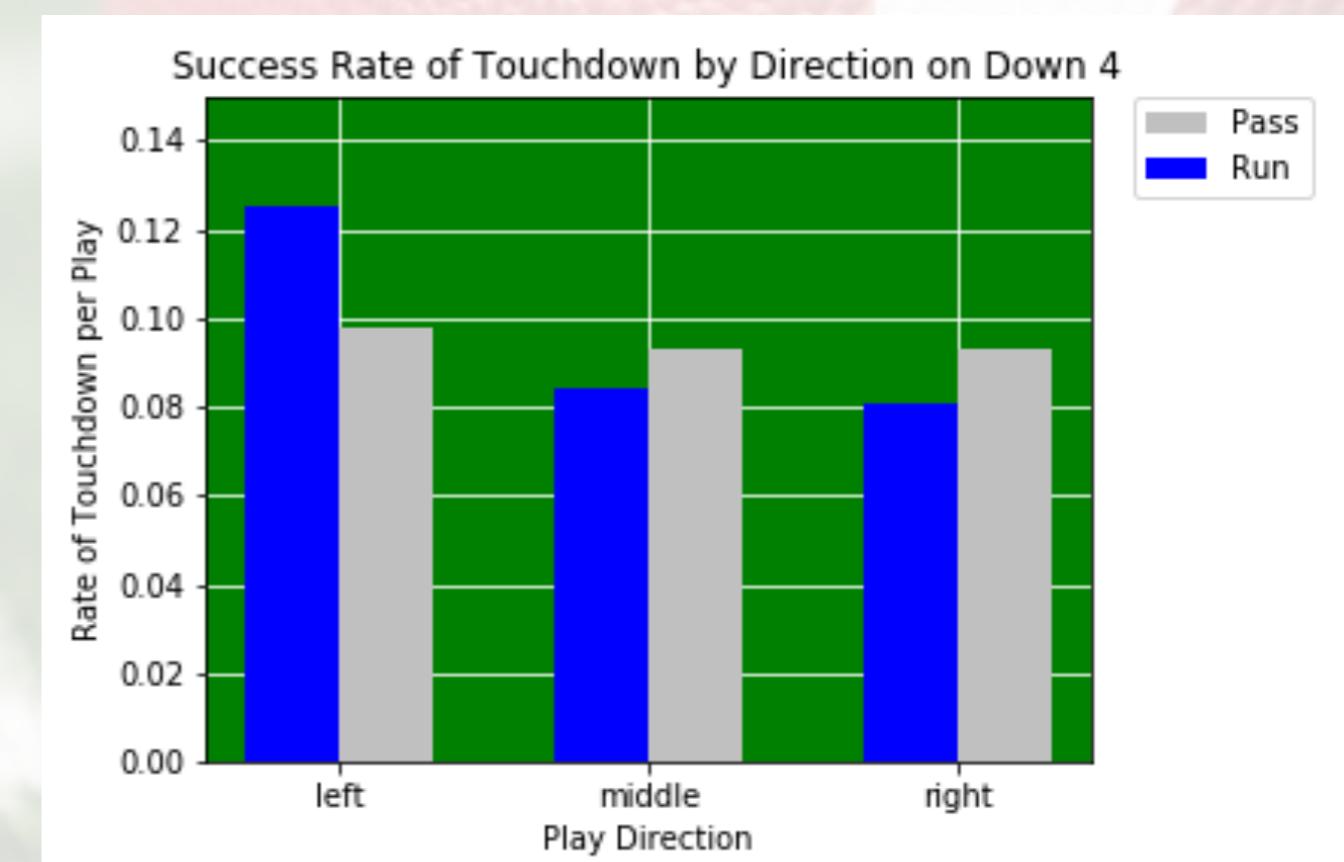
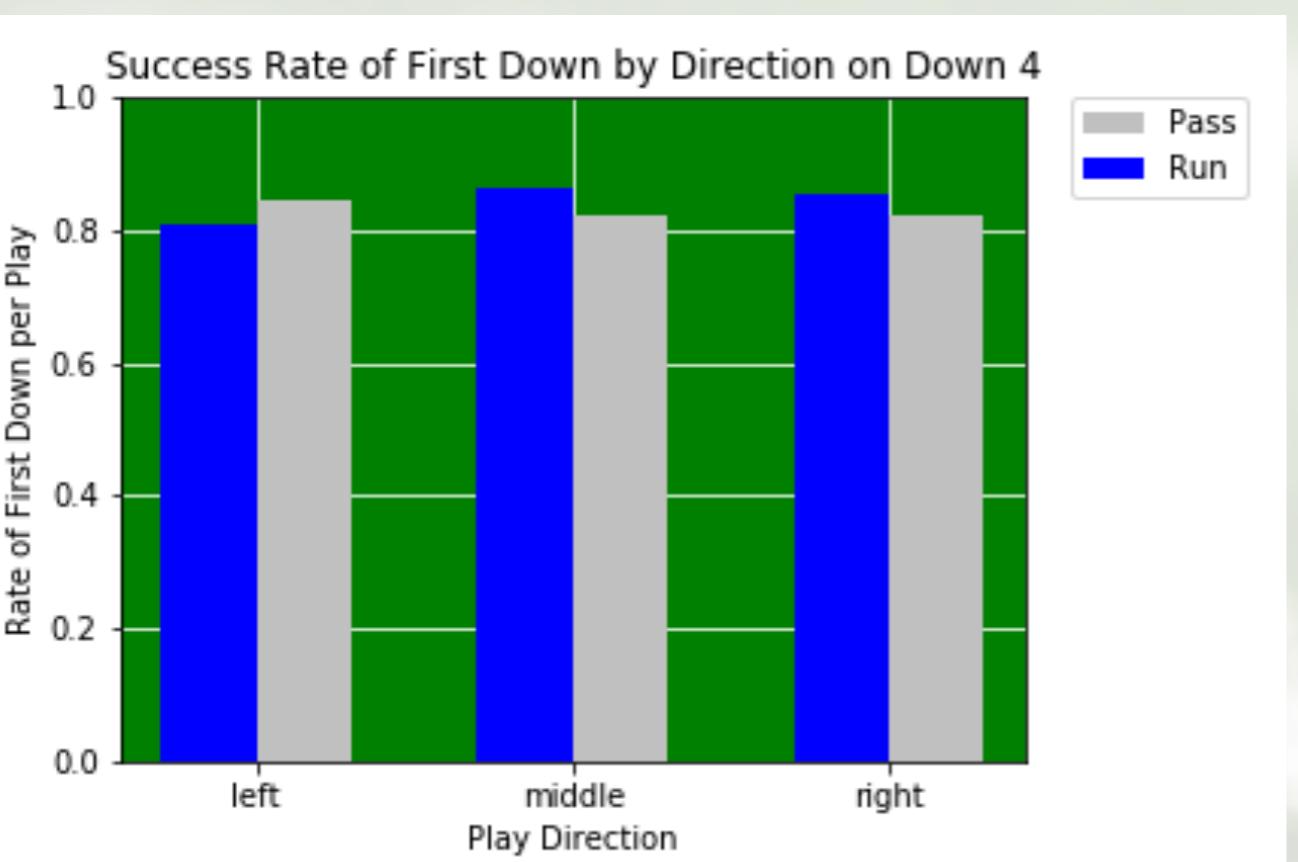
For the Highest 1st Down Rate



Pass up the Middle!

Run up the Middle!

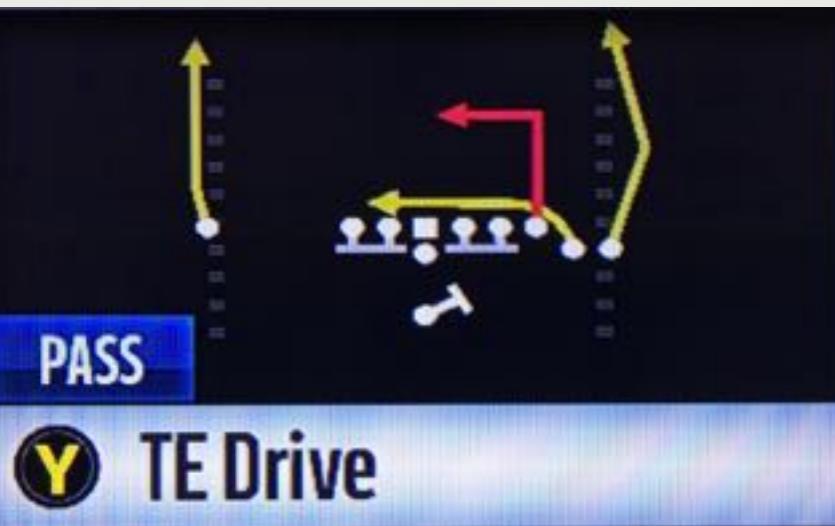
NFL Statistics - 4th Down



Conclusions

Which play type was statistically the most successful?

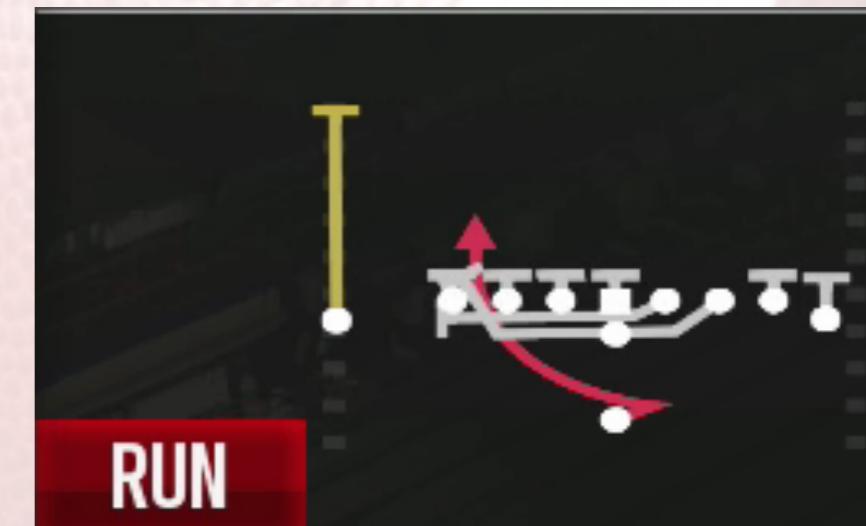
Most Yards



Highest 1st Down Rate



Highest TD Rate



Pass up the Middle!

Run up the Middle!

Run to the Left!

Conclusions



Conclusions



Conclusions

