NFL Vegas Model

* nflscrapeR
* Data Gathering
  + Vegas betting lines
    - Over/under
    - +/- point spread
* Data Frames
  + NFLVegasHistory
  + NFLVegasPredict
* Calcs
  + Historical
    - Total Fantasy Point per Player per Game
      * Use DraftKings Scoring Rules
    - Total Fantasy Point / Team / Game
      * Aggregate Function in R by Team
      * Aggregate Fantasy Points by Team and Game
      * Aggregate Fantasy Points by Team and Position
      * Aggregate Fanstasy Points by Team and Player
    - Correlation between Over/Under and Point Spread to Fantasy Points
      * Total Fantasy Points Per Team Per Game
      * Predicted Vegas Score
        + Favorite

(Over Under Total / 2) + Spread

* + - * + Underdog

(Over Under Total / 2) – Spread

* + - * Correlation Factor
        + Total Team Fantasy Point / Predicted Vegas Score (Fav or Underdog)
      * Pct Total Team Fantasy Points by Player
        + Total Fantasy Points Player / Total Fantasy Point Team

16 games history?

* + - * Pct Total Team Fanstasy Points by Position
        + Total Fantasy Points Player / Total Fantasy Point Team

16 games history?

* + - * Mean by Player
        + 16 games history?
      * Confidence Interval by Player
        + 16 games history?
      * Risk by Player
  + Weekly Prediction Model
    - Predicted Vegas Score
      * Favorite
      * Underdog
    - Predicted Fantasy Points Team
      * Predicted Team Score \* Correlation Factor
    - Predicted Fantasy Points Player
      * Predicted Fantasy Points Team \* Pct Total Team Fantasy Point by Player
    - Predicted Fantasy Point Position
      * Predicted Fantasy Points Team \* Pct Total Team Fantasy Points by Position