Make sure the mention the addition of a lot of the data since I emailed Sterling with the original datasets.

Theories to test-

1. There is a no correlation between draft picks and any single category of the combine since players are drafted more on their previous performance on the basketball court as opposed to a single variable of their athletic ability of body structure.
2. The NBA changed the rulebook prior to 2004-2005 to open up the court and increasing scoring. By doing so, they would not allow players to be as physical with each other without fouling them. According to the [league rules](https://www.nba.com/analysis/rules_history.html), new rules were introduced to curtail hand-checking, clarify blocking fouls and call defensive three seconds to open up the game.

~~Create a R script that does the following:~~

~~Create a calculated field that has the avg weight, grouped by draft year. Find the average before the 2004-2005 rule change and find the average after the 2004-2005 rule change regarding hand-checking.~~

~~This has been created – AvgWeights\_ruleChange.R~~

TASK: Create a data folder and throw the raw csv’s in there. Update code to make sure I can still read them correctly.

Description of the files:

**Data Files:**

-The following datasets (“2012\_nba\_draft\_combine.csv”, “2013\_nba\_draft\_combine.csv”, “2014\_nba\_draft\_combine.csv”, “2015\_nba\_draft\_combine.csv”, “2016\_nba\_draft\_combine.csv” were found on [data.world](https://data.world/achou/nba-draft-combine-measurements). These were the original inspiration for my project.

-As I dug deeper, I found raw NBA [combine data](https://stats.nba.com/draft/combine/) on the NBA’s official stats website. I manually scraped this data and created a csv file, “2001to2011\_2017\_2018\_nba\_draft\_combine.csv”

**Data Manipulation/Transformation:**

-The csv files mentioned above were read into the R Script, “nba\_combine\_analysis.R”, where they were merged together after some data manipulation to ensure that the columns were similar for a smooth data merge. The end product to be analyzed in Tableau was the csv file, “nba\_combine\_data\_merged.csv”

**Calculated Column(s)**:

-In order to test my theory of the average weight of NBA players being drafted going down after the previously mentioned rule change, I created an R script, AvgWeights\_ruleChange.R, where I grouped the years of the combines into either pre rule change or post rule change. I then calculated the average weight for each group.

-In order to test my theory of no correlation between any one NBA combine variable and where a player will get drafted, I created a correlation matrix, corMatrix.R, in which the theory was proven to be true. This matrix will be referred again below in the Tableau Workbook description.

**Tableau Visualizations:**

-There are three dashboards I’ve created to visualize my findings. The first dashboard, ‘A Weaker and Lighter League’**,** combines a bar chart with a line chart to show the trends in strength and weight of NBA players.

-The second dashboard, ‘Does the Combine Matter?’ visualizes the strongest correlation between when a player gets drafted and the aforementioned correlation, speed.

-The third dashboard, ‘Historical Performances’ gives a visual representation of all the best performances for each category to show whether or not the greatest historical performance will lead to a being a top pick in the draft.