



## Exploring Fortnite

April 27, 2022

The dataset used for this challenge is titled 'fortnite.csv'.

### What topic does the dataset cover?

This dataset contains information on 80 games of completed games of fortnite.

### Variables

- Placed: Place in match
- Eliminations: Number of eliminations in match
- Assists: Number of assists in match
- Revives: Number of revives in match
- Accuracy: Accuracy of player (percent)
- Hits: Number of hits
- Head\_Shots: Number of head shots
- Distance\_Traveled: Distance travelled in match (meters)
- Materials\_Gathered: Number of materials gathered
- Damage\_Taken: Amount of damage taken
- Damage\_to\_Structures: Amount of damage done to structures

### Assignment

Complete each of the following questions using R Studio and submit your answers as a detailed report.

1. Visualize and describe the distribution for each of the following variables:
  - (a) Placement of players
  - (b) Eliminations
  - (c) Accuracy
2. Compare the distributions for eliminations and placement between Dr. Vince and Mr. Merrick.
3. Is there a relationship between the number of eliminations, and placement of player? Support your answer using a scatterplot.
4. Is there a relationship between the distance travelled, and placement of player? Support your answer using a scatterplot.

5. Suppose you were to predict the placement of a player ( $y$ ) using the number of eliminations the player has ( $x$ ). What placement would you predict for each player given they have exactly 4 eliminations.
- (a) Dr. Vince
  - (b) Mr. Merrick
6. Using all variables, and whatever analysis you choose, which player is superior?