

# **FINAL PROJECT**

## **LIGHTNING TALKS**

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# 1. THE EFFICACY OF THE BIG MAC INDEX

- To test the correlation between the price of Big Macs and the Consumer Price Index.
  - Changes in McDonald's earnings
  - Economic climate (World / Local)
  - Are there alternatives to Big Macs in the present context?
- Data: Past 10 years Big Mac Index, Consumer Price Index
- $H_0$  : The Big Mac index can be used to predict the purchasing power of consumers
- $H_1$  : The Big Mac index no longer serves as an accurate indicator of consumer purchasing power



## 2. COLOURS DETERMINE FIGHT RESULTS

- To the test the correlation between the colour of a fighter's corner on the fight result
  - Fighter Profiles
  - Fight Statistics
  - Red or Blue corner
- Data: UFC fight data on Kaggle, 2013 onwards
- $H_0$  : The colour of a fighter's corner is not related to the result of a UFC fight
- $H_1$  : The colour of a fighter's corner has some relation to the result of a UFC fight

### 3. MO' MONEY MO' PROBLEMS?

- To the test the correlation between life expectancy and income
  - Impact of Gender
- Data: <https://healthinequality.org/data/>, US 2001-2014
- $H_0$  : No correlation between income and life expectancy
- $H_1$  : Higher income results in a higher life expectancy among men and women