


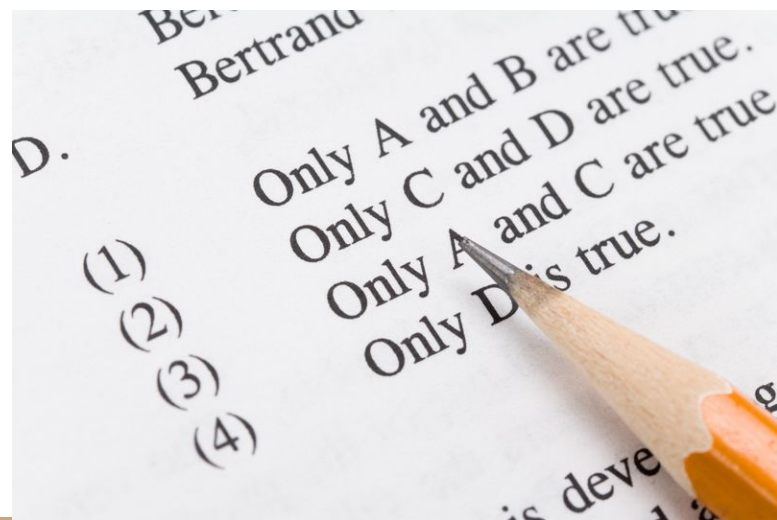
# A Data Analysis on SAT/ACT Test Participation

Joshua Sung  
Data Scientist, General Assembly



# Guiding Question

How can we increase participation rates for the ACT and SAT college entrance exams?



# Procedure/Methodology

- Understanding the data
  - Where do I focus my attention?
  - Knowing what each aspect of the says
- Cleaning the data
  - Calculations? Missing values?
- Visualizing the data

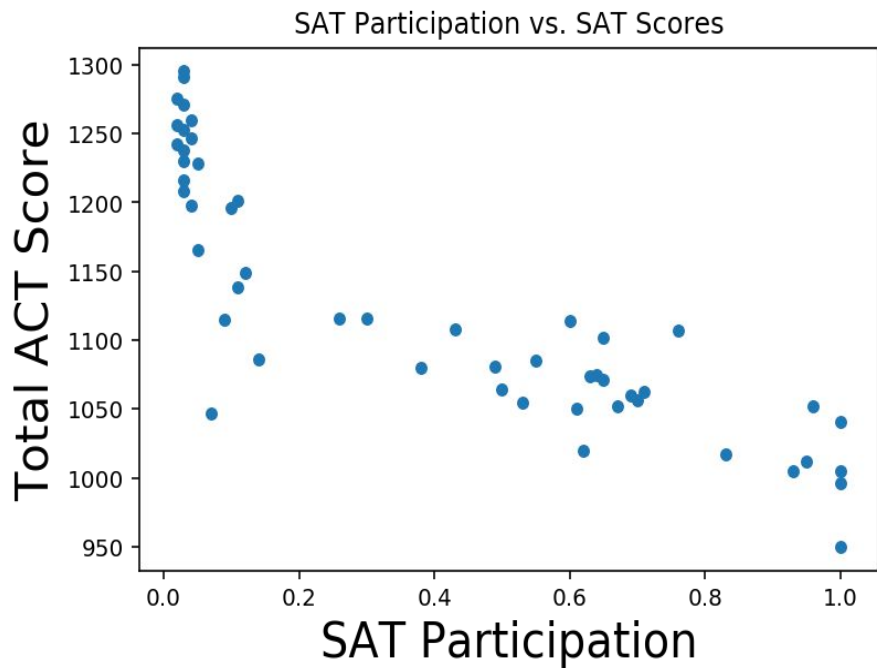
# Findings



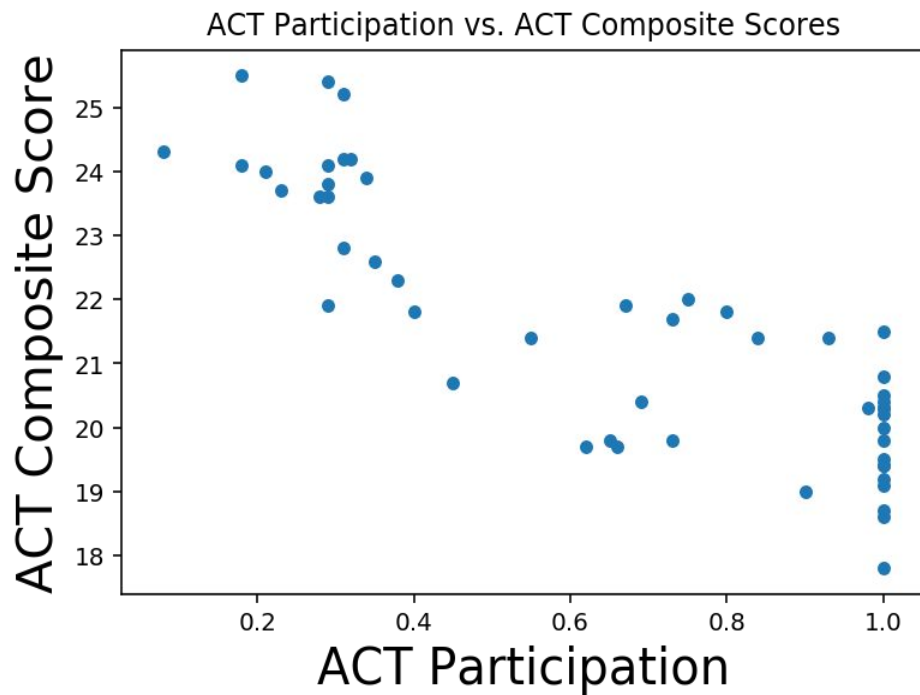
Source: Apple iTunes

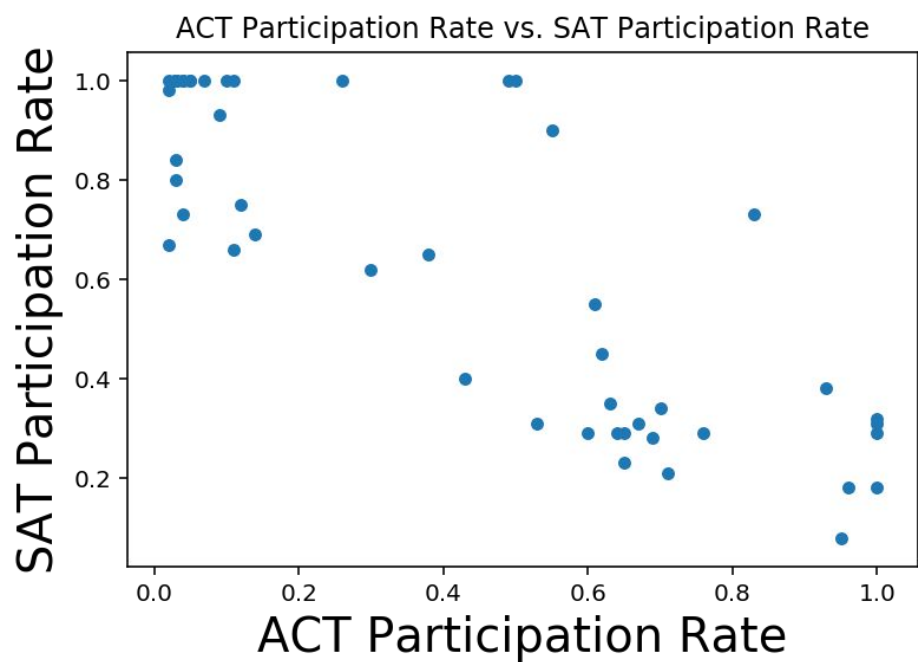
- As participation increases, average and total test scores decrease
- ACT participation > SAT participation

# SAT examination

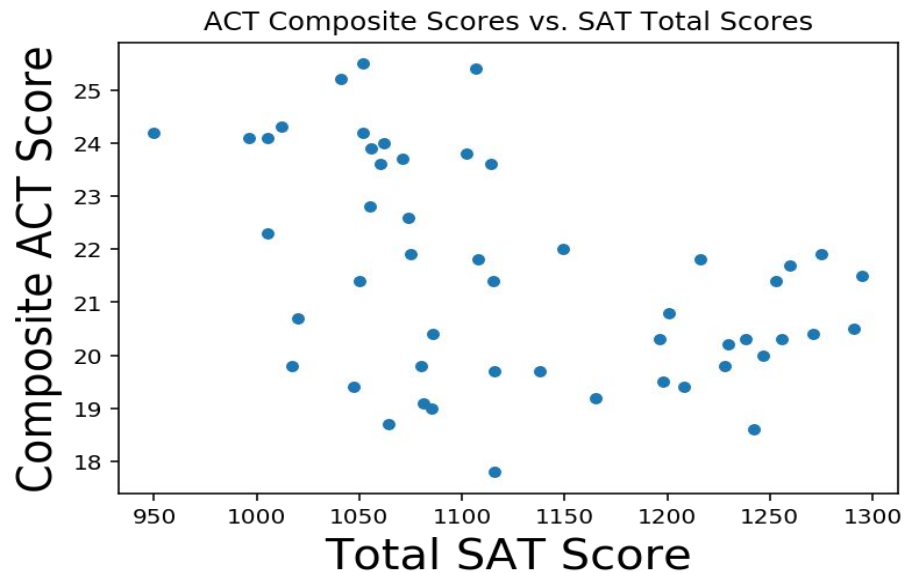


# ACT examination



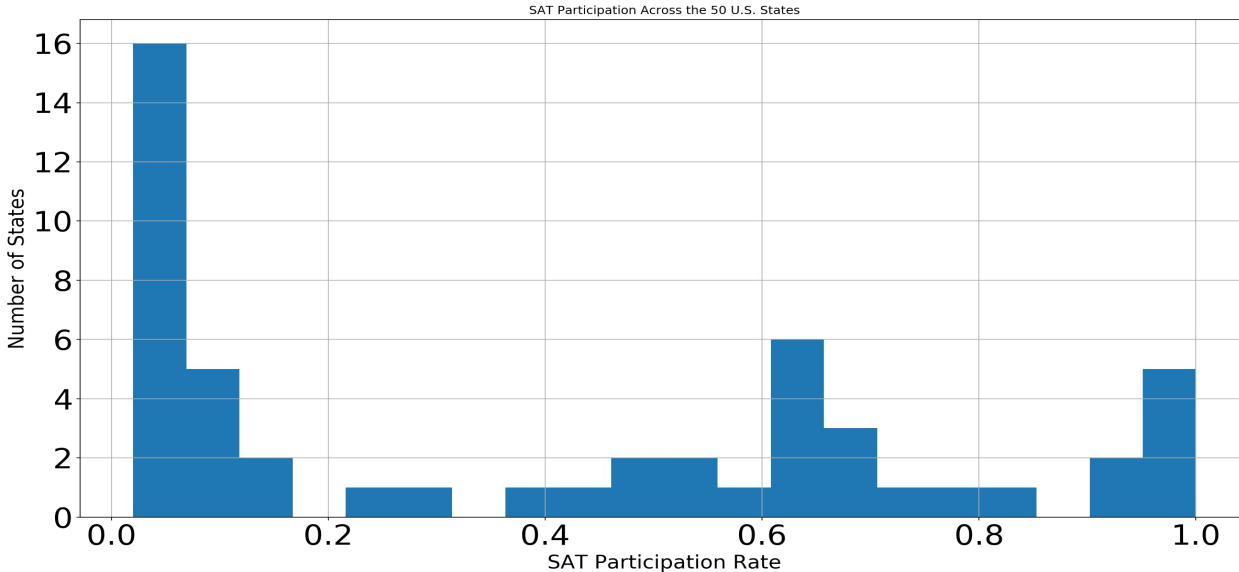


## ACT Participation vs. SAT Participation Rate



## Composite ACT score vs. Total SAT score

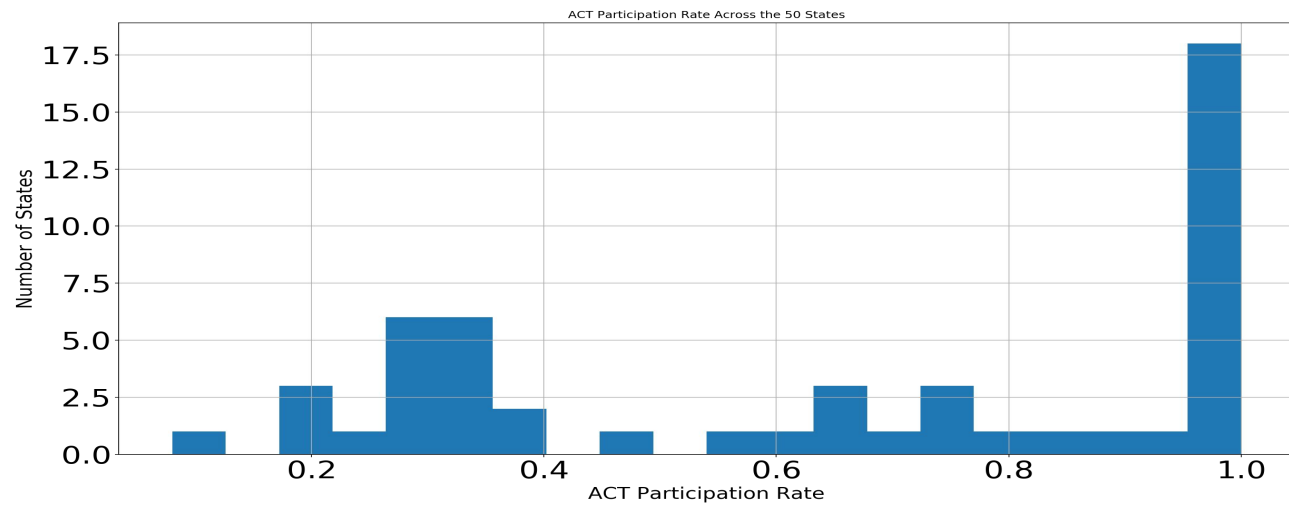




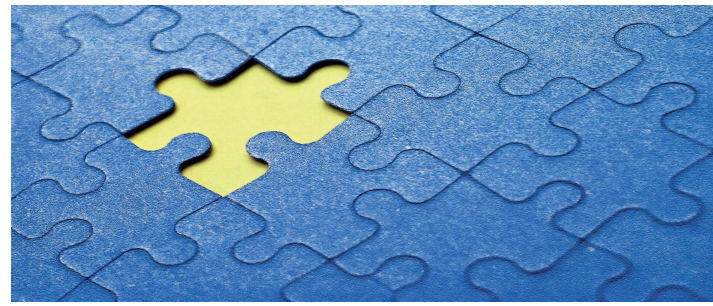
**SAT  
Participation  
Rate**



**ACT  
Participation  
Rate**



# Recommendations



Source: Google

- Putting an emphasis on high school education and test preparation, college preparation
  - Depends on education budget (state, local)
- Further data collection
  - Need average scores for both test scores
  - Connecticut scores weighed as much as Texas scores
  - Convert scores to percentages as the SAT/ACT tests are scored differently
  - Collect more (or include) granular data (i.e. school districts, major regions)



# Questions?

