



Analysis of SAT / ACT From 2016-2019

by : Robert Sarno

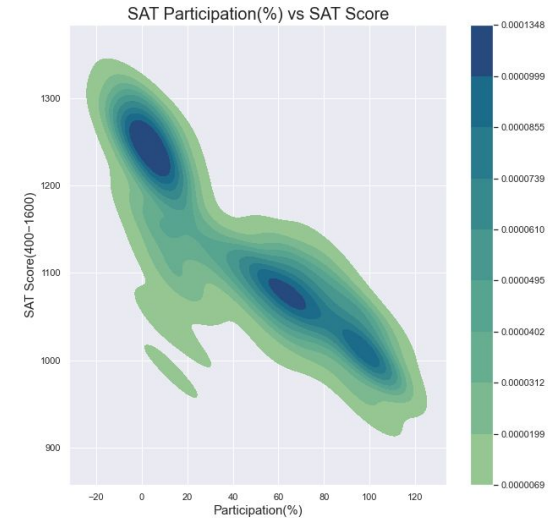
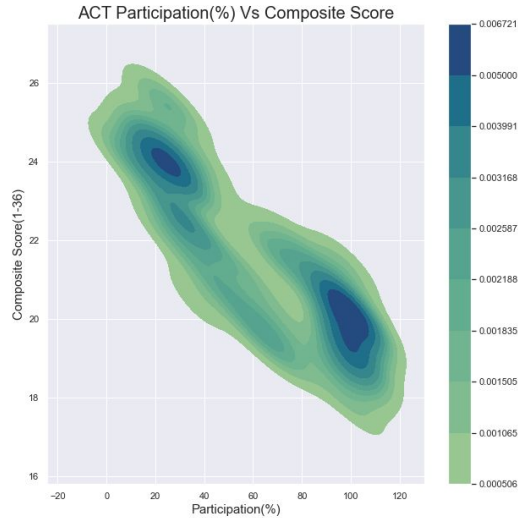
Objective:



- Since College Board has changed the format of the SAT/ACT. The participation and average scores by state have changed from 2016 - 2019.
- My analysis aims to explore and explain this change year by year.
- What states need more SAT/ACT preparation assistance from College Board based on this new format?

SAT/ACT Participation vs Scores

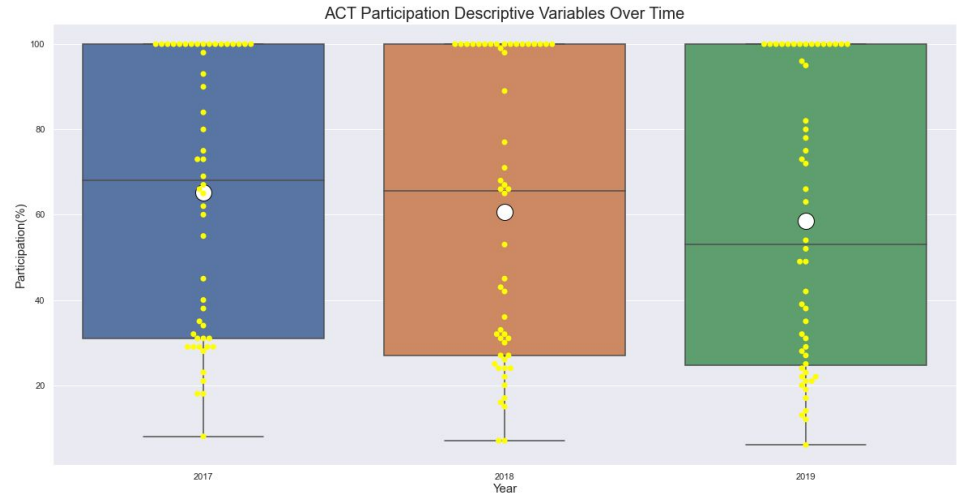
- The dark blue areas being high consistency of States.
- As participation increases Scores decrease.
- This is because more students taking the test means a larger range of possible people to fail the test.



Analysis ACT Participation(%):

Participation Percentage yearly Average.

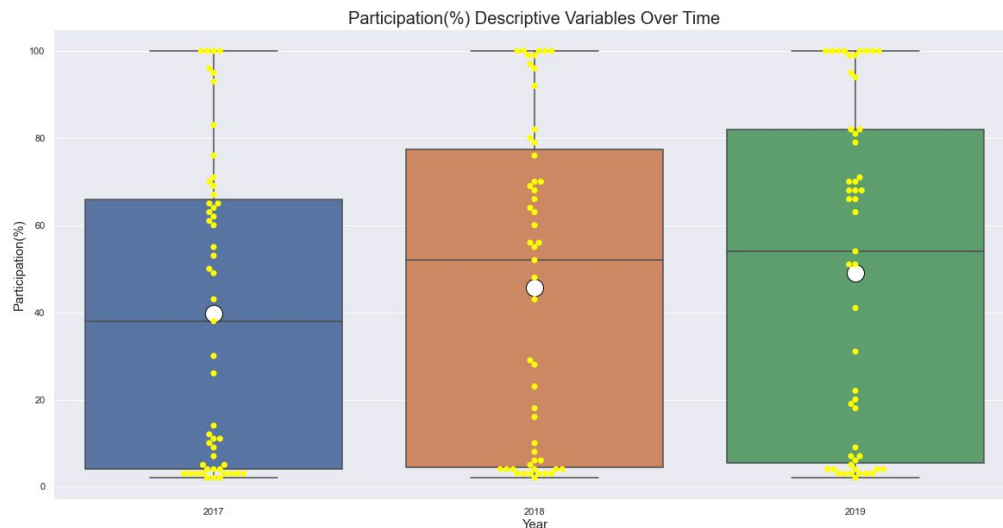
- 2017's ACT Participation is 57%
- 2018's ACT Participation is 56%
- 2019's ACT Participation is 54%



Analysis SAT Participation(%):

Participation Percentage Means

- 2017's SAT Participation is 42%
- 2018's SAT Participation is 46%
- 2019's SAT Participation is 48%



SAT/ACT Information:



SAT Structure:

- Reading
- Writing & Language
- Math

SAT Length:

- 3 hours

SAT Cost:

- \$52 USD

ACT Structure:

- English
- Math
- Reading
- Science Reasoning
- Essay (Optional)

ACT Length:

- 2 hours, 55 minutes (without essay)
- 3 hours, 40 minutes (with essay)

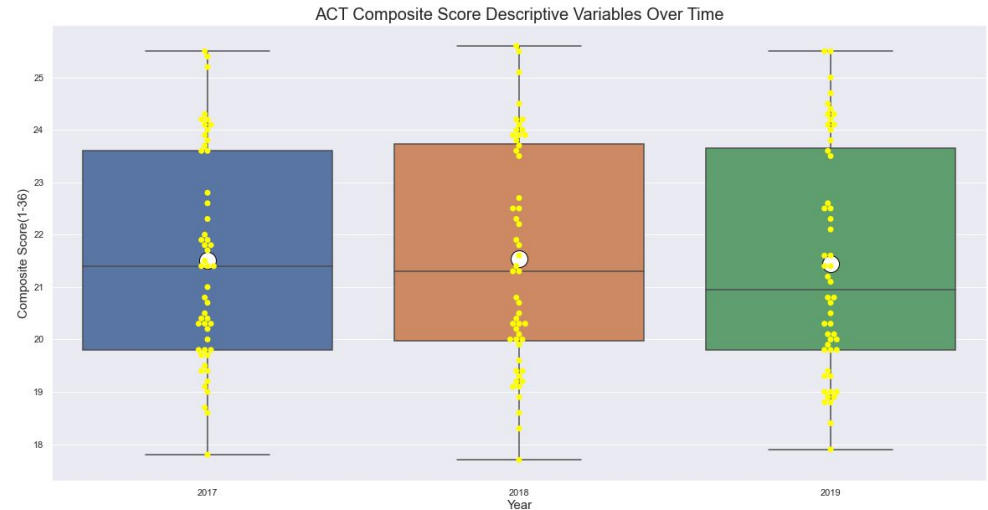
ACT COST:

- \$55 USD (without essay)

Analysis ACT Composite Score:

Composite Score Average

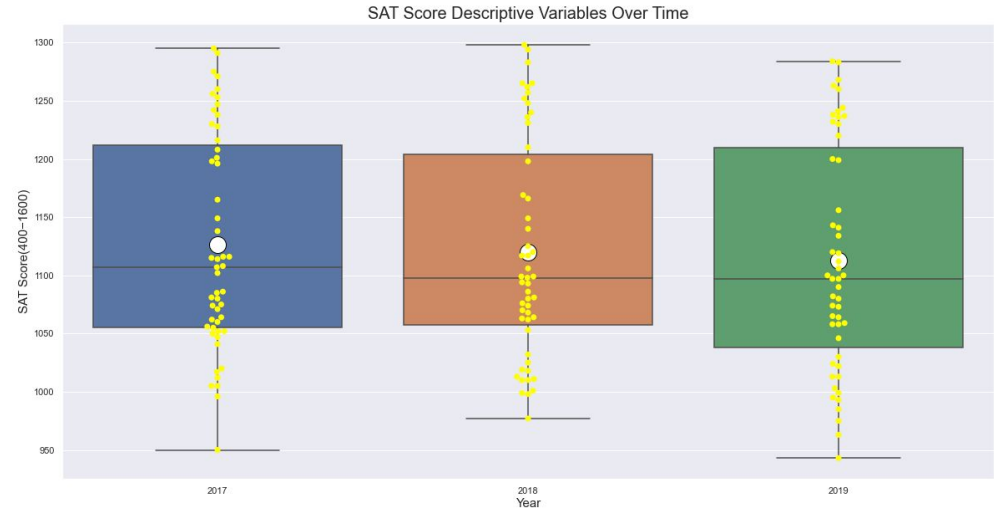
- 2017's ACT Average Composite score is 23
- 2018's ACT Average Composite score is 23
- 2019's ACT Average Composite score is 23



Analysis SAT Total Score:

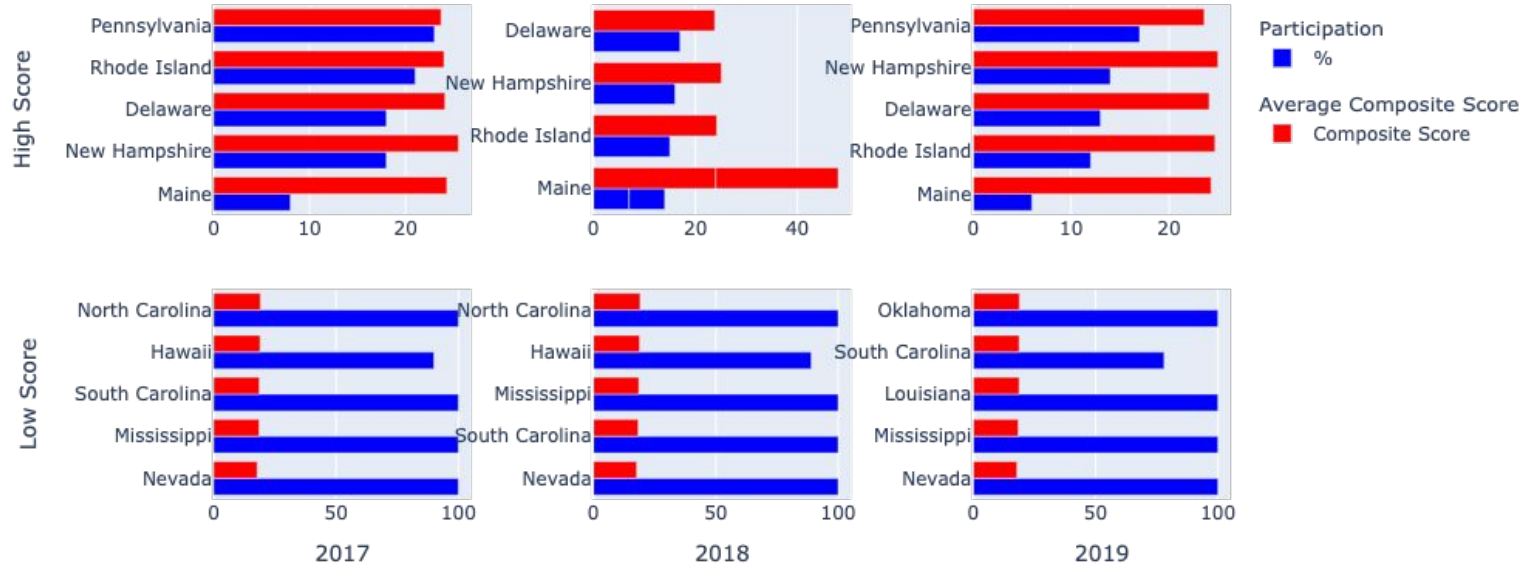
Total Score Average

- 2017's SAT Average
Total score is 861
- 2018's SAT Average
Total score is 862
- 2019's SAT Average
Total score is 854



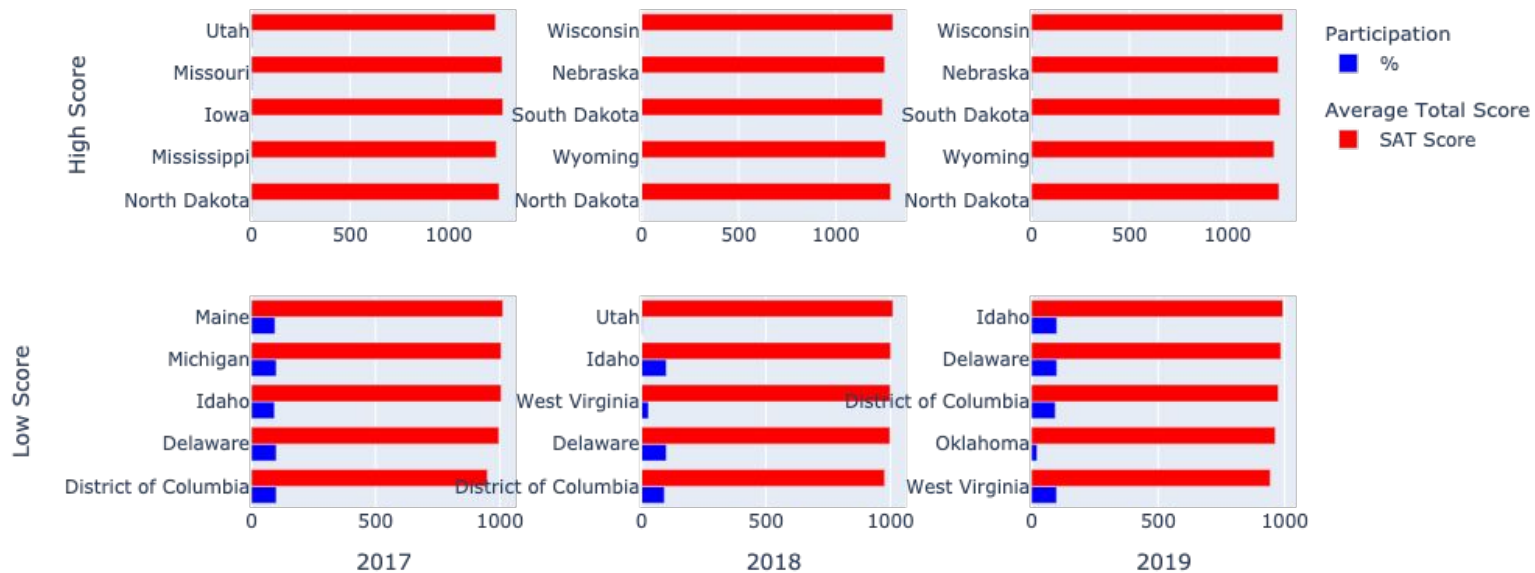
ACT Lowest Participation/Composite scores by State

Top 5 ACT Low and High Composite Scores/Participation(%)



SAT Lowest Participation/Total scores by State

Top 5 SAT Low and High Composite Scores/Participation(%)



Conclusion



- These States need help with ACT Prep Courses
 - Mississippi Score:19, participations:100%
 - Nevada Score:18, participations:100%
 - South Carolina Score:19, participations:93%
- These States need help with SAT Prep Courses
 - Delaware Score:993, participation:100%
 - District of Columbia Score:967, participation:95%
 - Idaho Score:1000, participation:98%
- I suggest Spending more time and Advertisement, and SAT/ACT prep courses in these states.

Suggestions:

- I suggest that the ACT should be re-formatted otherwise it will continue to follow a downtrend in participation meaning less money spendened on taking it.