

# SAT/ACT test analysis

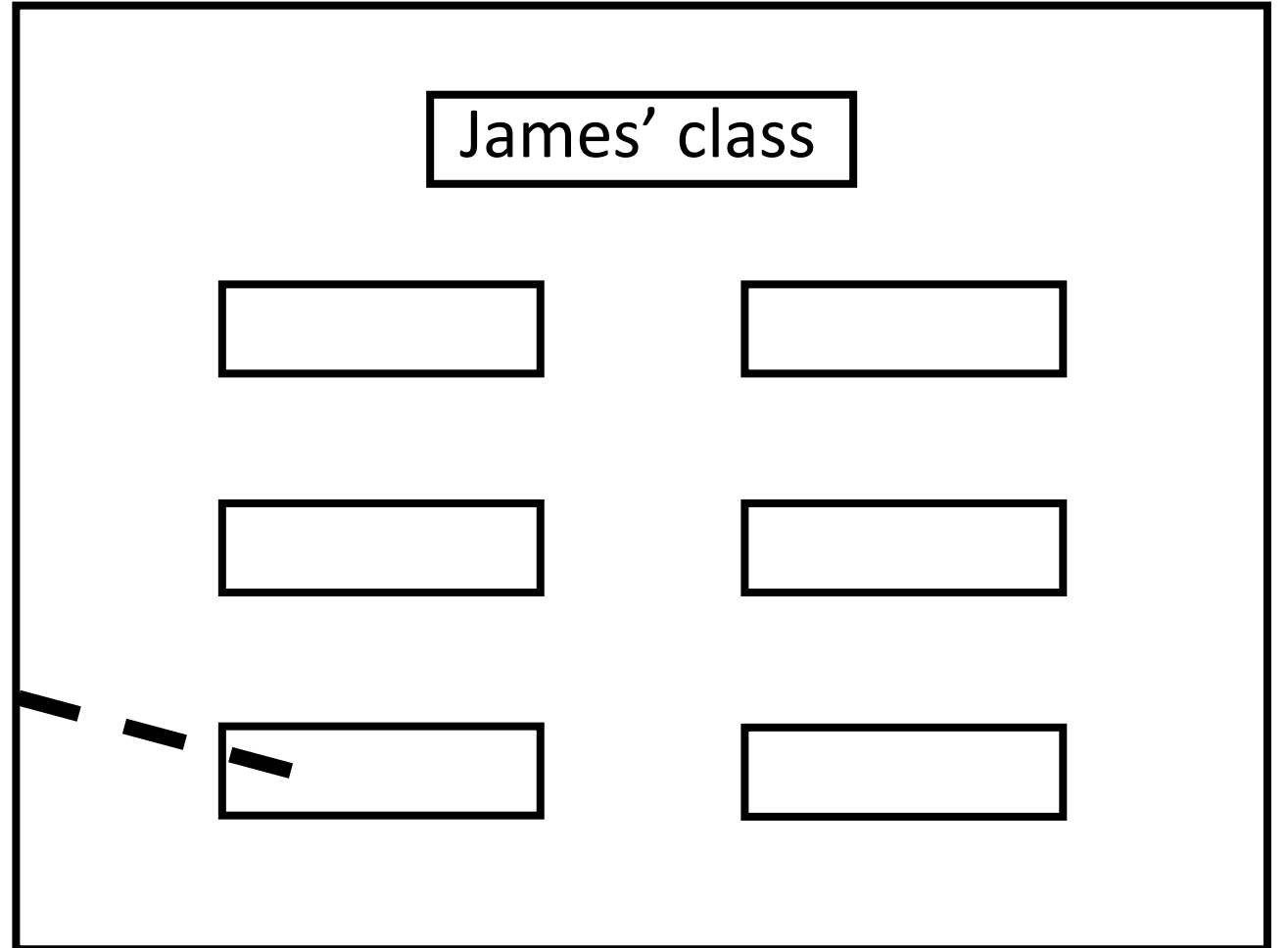
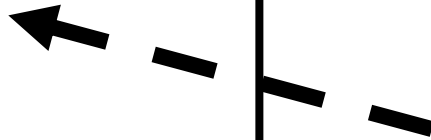
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By Thanapong (billy)

# This is me (Introduction)



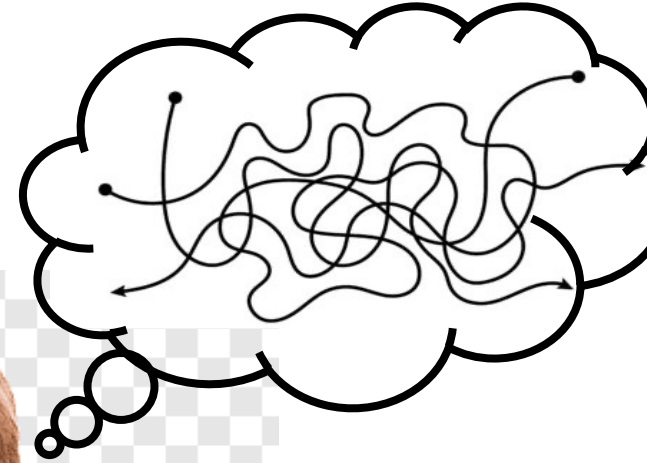
Thanapong Likhitparinya  
(Billy)



# Problem Statement

- Which test should the student take?

The kid in high school  
be like:



Test ???

## Objective

- To help to student decide  
which test they should take.



# Outline

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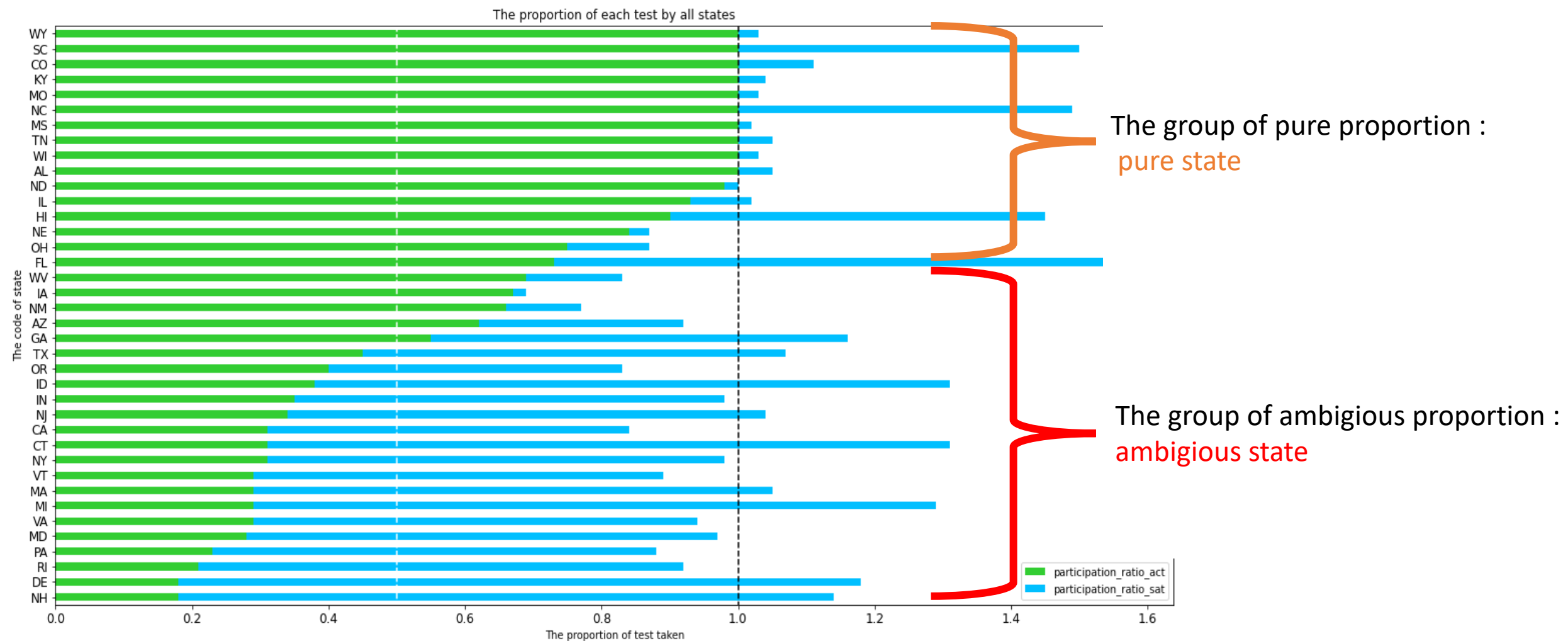
- Data acquisition
- EDA & Visualization
  - **Assumption** : student could only take the test on that state and the college on that state will be a representative of the state ranking
- Conclusion

# DATA

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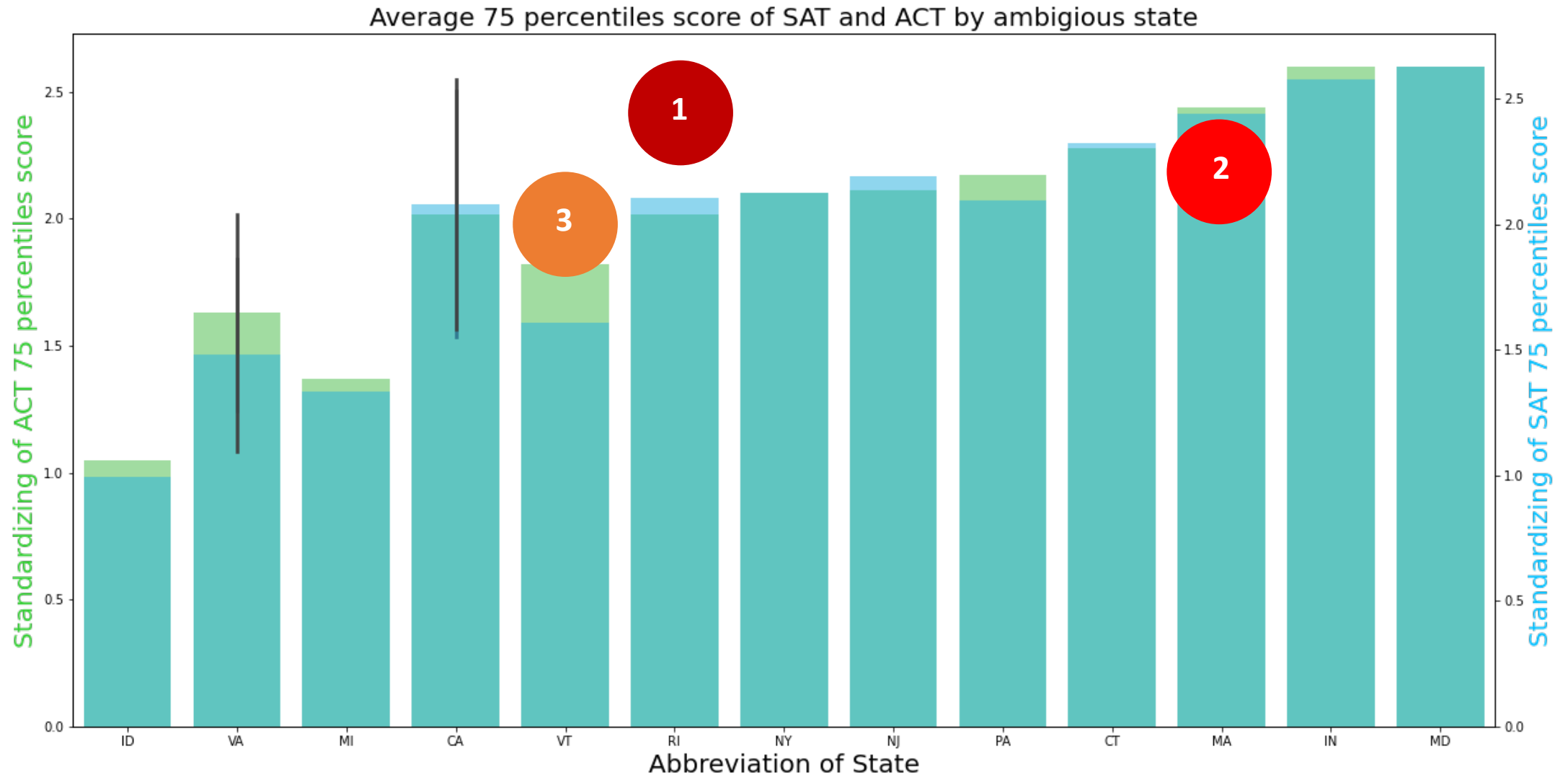
- 2017 ACT Scores by State
- 2017 SAT Scores by State
- Ranges of Accepted ACT & SAT Student Scores by Colleges
- State abbreviation
- College ranking

# Start : Proportion of participation of both test in each state



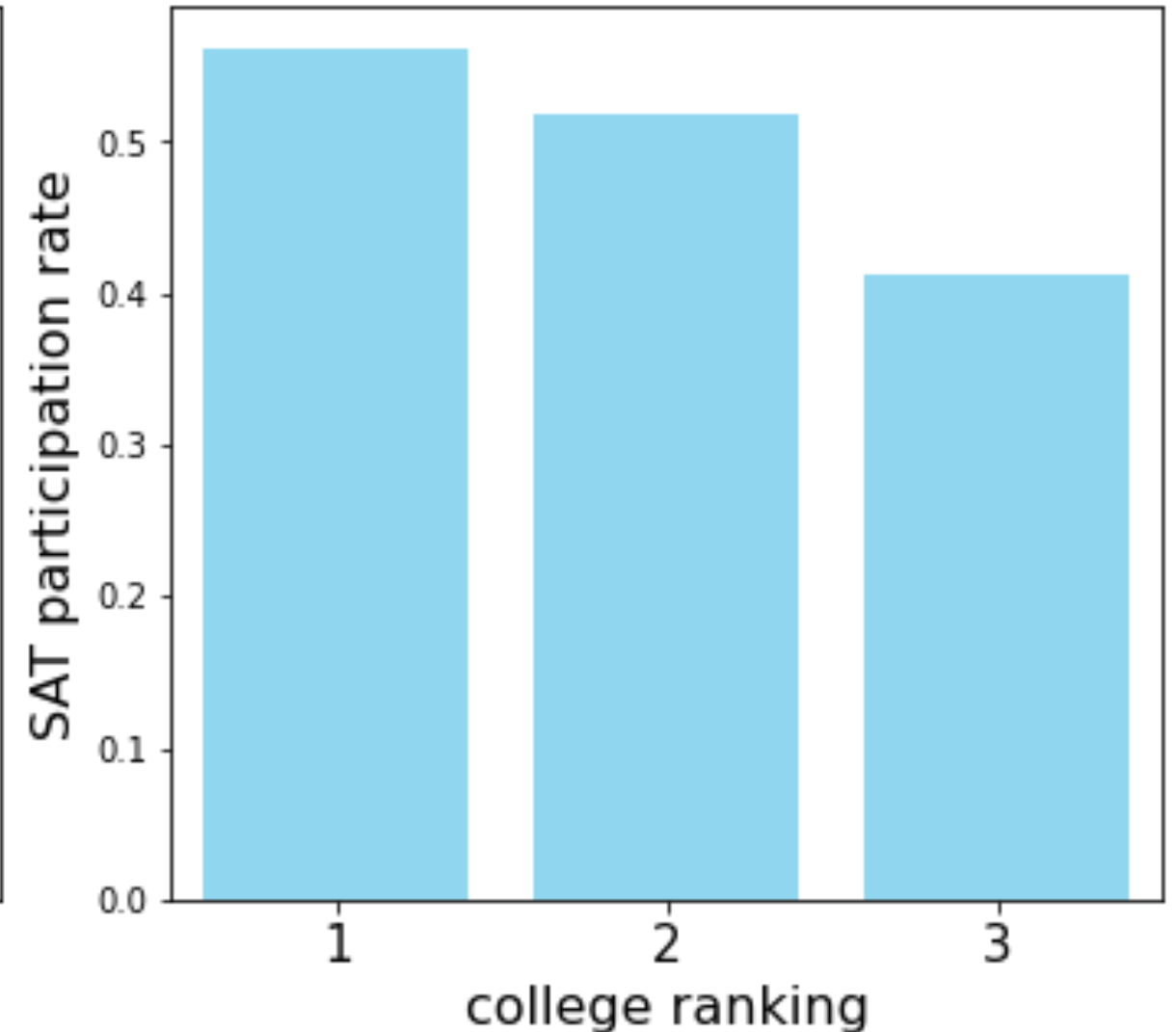
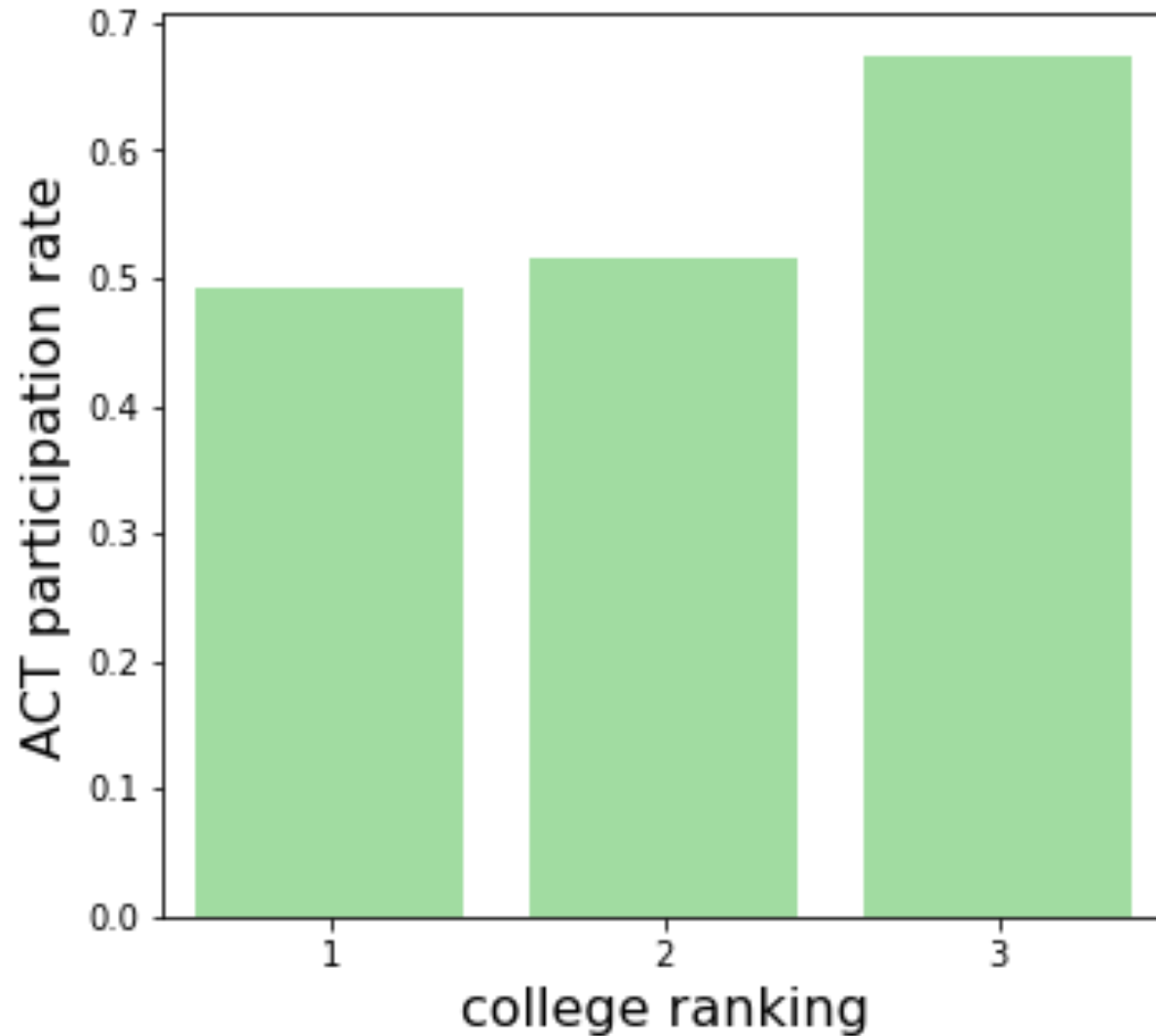
# Perspective on **College** Criteria

- 3 cases 1. SAT > ACT : High rank college 2. SAT = ACT : Middle rank college 3. SAT < ACT : Low rank college



# Persective on **Test taker** by college ranking

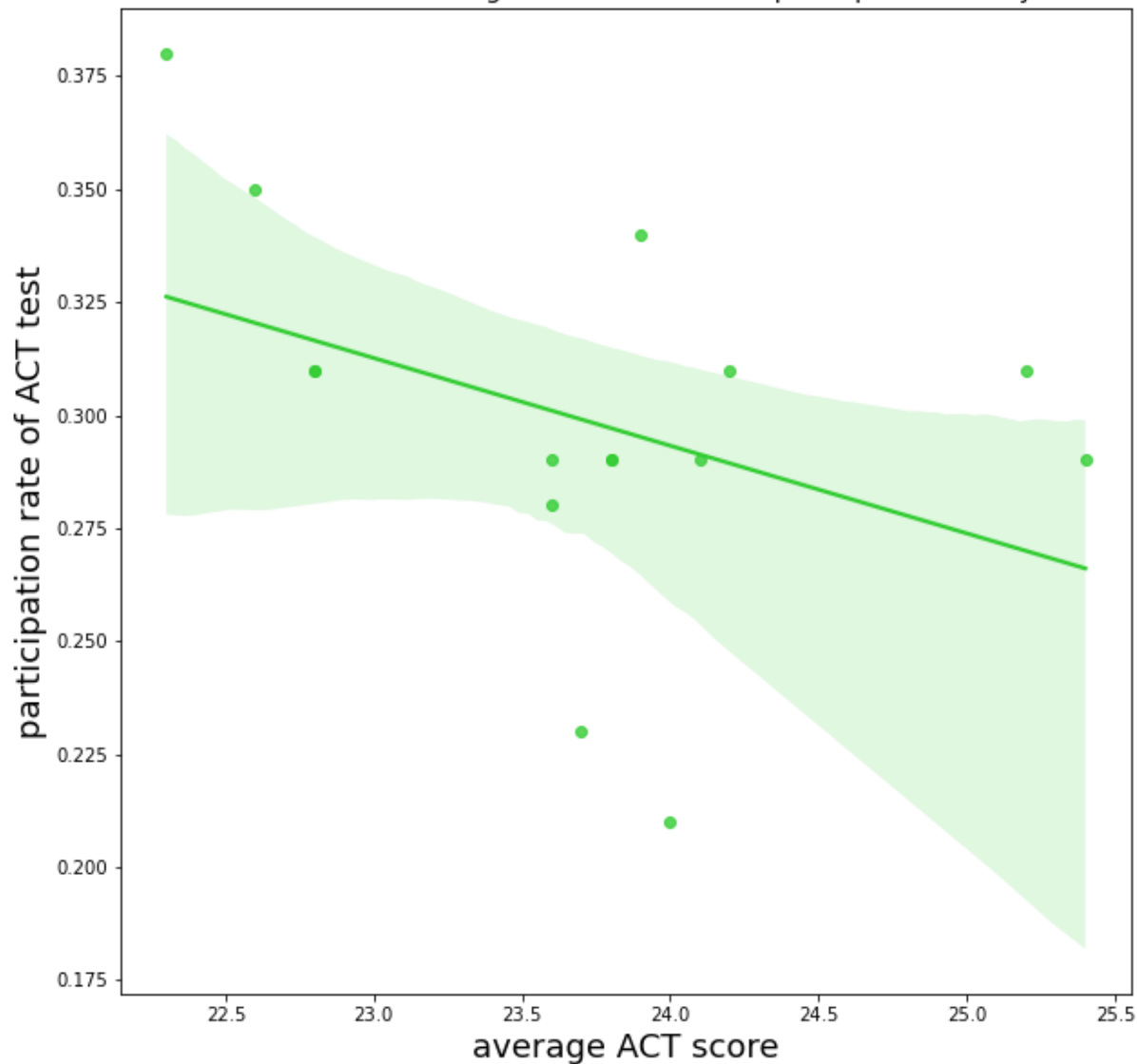
The participation rate of ACT/SAT test in each college ranking



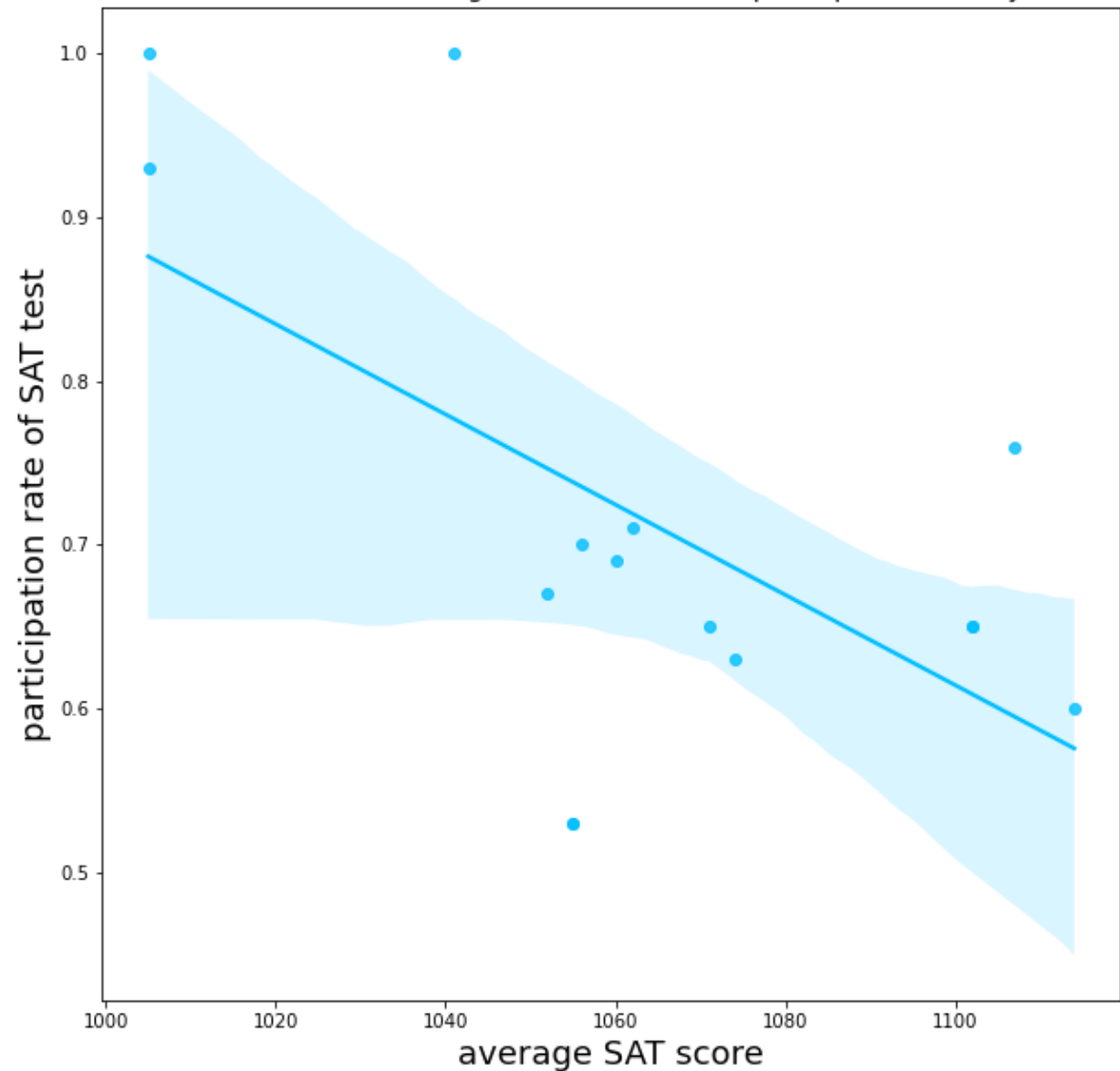


# The relation of average score and participate proportion in each test

The correlation between average ACT score and ACT participation rate by all states



The correlation between average SAT score and SAT participation rate by all states



# Conclusion

- 1 If you are on the state with **high ranking** college, suggest that should take an **SAT** test.
- 2 If you are on the state with **middle ranking** college, you could **either test**.
- 3 If you are on the state with **low ranking** college, suggest that should take an **ACT** test.

**Thank you for listening!**