

# **DSI project 1**

## **: Standardized Test Analysis**

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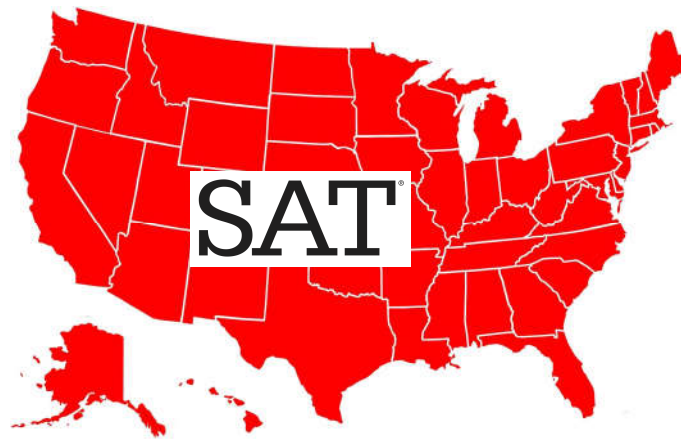
Mr. Monthon Chueakhamlue

## Problem statement

"Which **Top 3 States**

make a **significant improvement in SAT Participation Rate**

during 2017-2019?"



SAT and ACT is standardized test for high school juniors

**Data source:**

SAT 2017-2019

from <https://blog.collegevine.com>



ACT 2017-2019

from <https://blog.prepscholar.com>



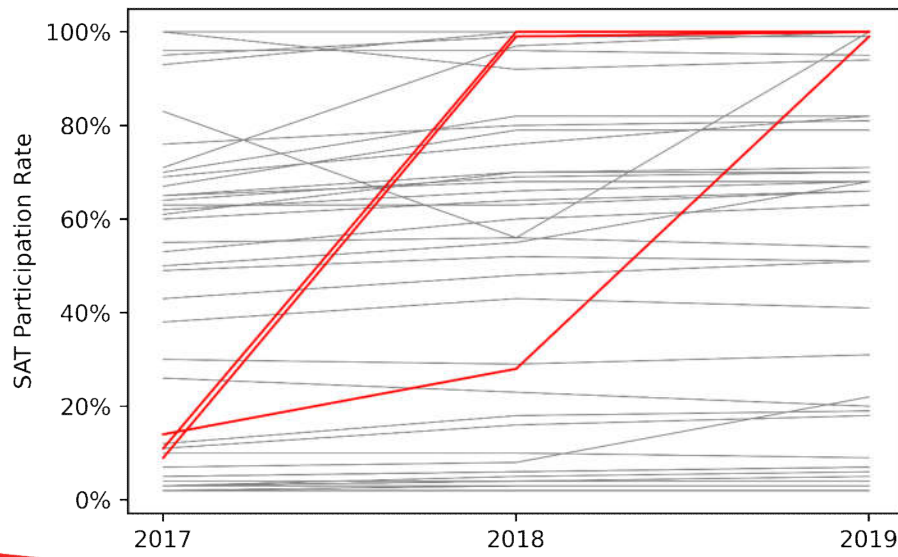
State	Participation_Rate_SAT_2017	Participation_Rate_SAT_2018	Participation_Rate_SAT_2019
Alabama	0.05	0.06	0.07
Alaska	0.38	0.43	0.41
Arizona	0.30	0.29	0.31
Arkansas	0.03	0.05	0.06
California	0.53	0.60	0.63

State	Participation_Rate_ACT_2017	Participation_Rate_ACT_2018	Participation_Rate_ACT_2019
Alabama	1.00	1.00	1.00
Alaska	0.65	0.33	0.38
Arizona	0.62	0.66	0.73
Arkansas	1.00	1.00	1.00
California	0.31	0.27	0.23

**Tool :**



## Trend of SAT participation rate by state, year

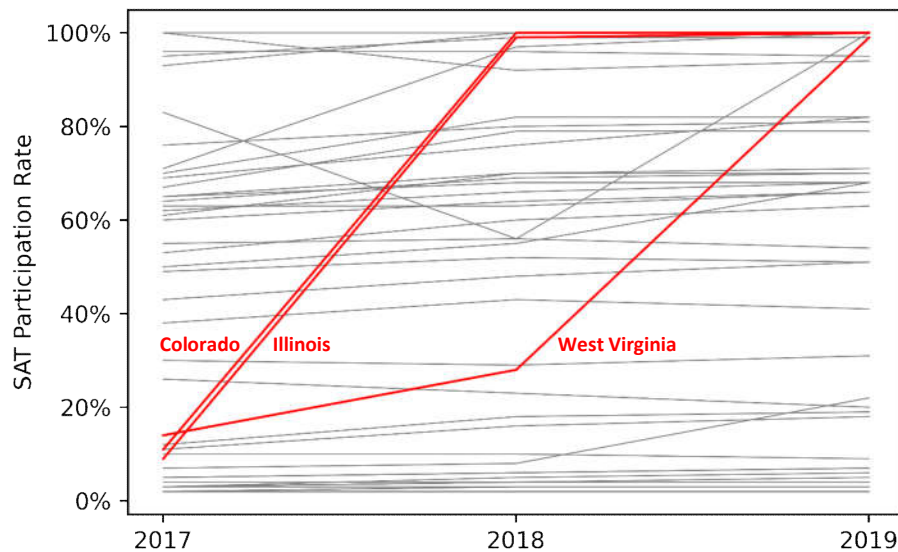


## Trend of SAT participation rate by state, year



# Colorado, Illinois, West Virginia

have significantly improvement **SAT participation rate** from **~10%** to **100%**

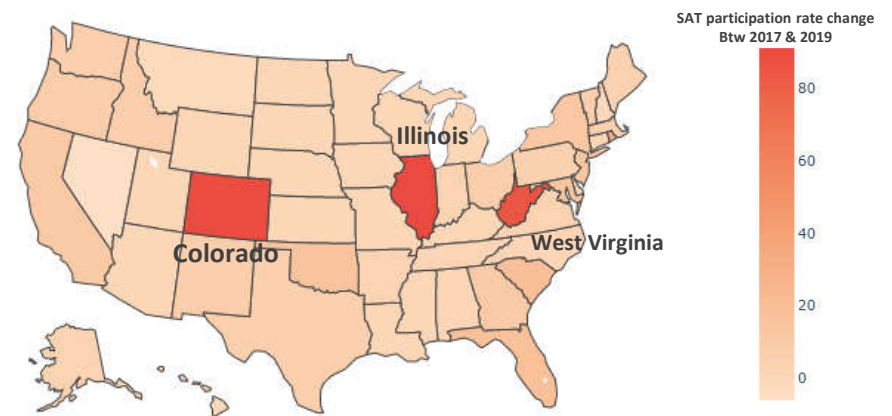
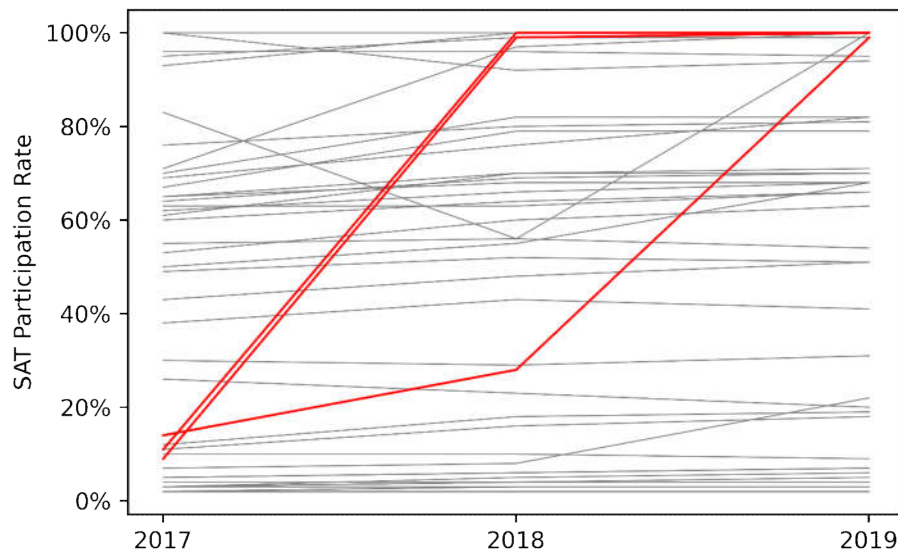


## Trend of SAT participation rate by state, year

true  
together

# Colorado, Illinois, West Virginia

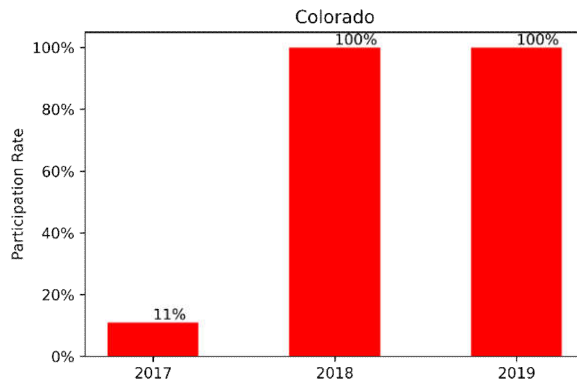
have significantly improvement SAT participation rate from ~10% to 100%



# What's change?

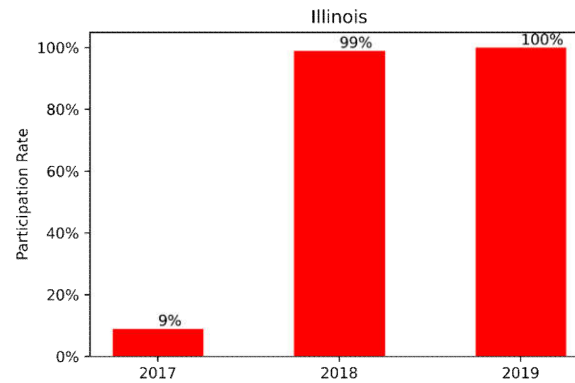
**true**  
together

## Colorado



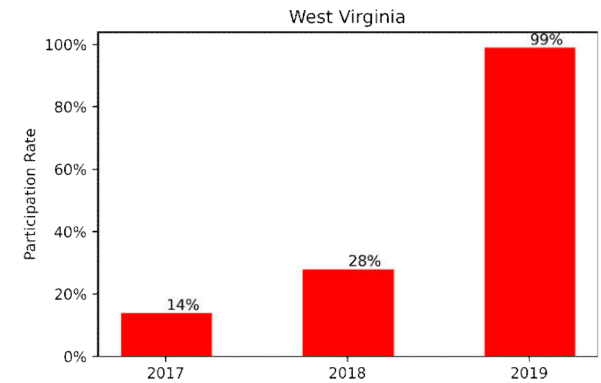
Ref: <https://www.testive.com/colorado-sat-change-2017/>

## Illinois



Ref: <https://www.chicagotribune.com/news/ct-illinois-chooses-sat-met-20160211-story.html>

## West Virginia

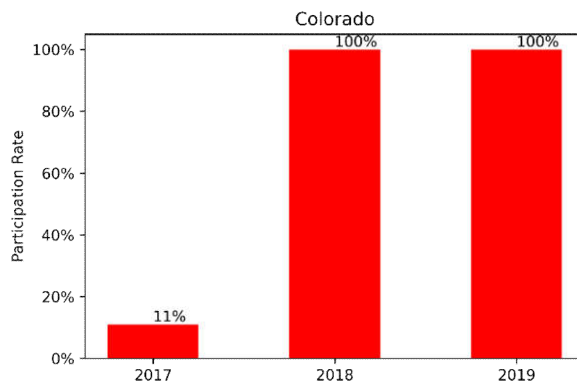


Ref: [https://www.wvgazettemail.com/news/education/wv-chooses-sat-as-new-high-school-standardized-test-for-juniors/article\\_b60d2618-4943-56f6-b180-4b4442172ef8.html](https://www.wvgazettemail.com/news/education/wv-chooses-sat-as-new-high-school-standardized-test-for-juniors/article_b60d2618-4943-56f6-b180-4b4442172ef8.html)

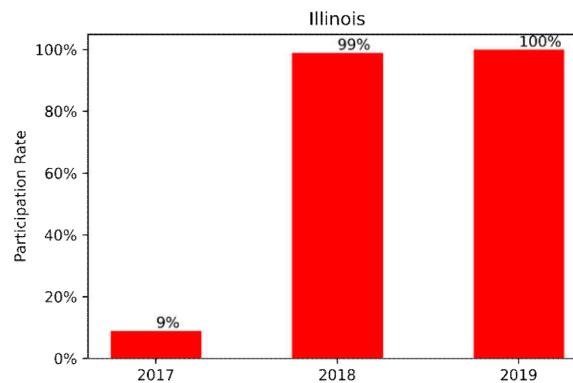
# What's change?

**true**  
together

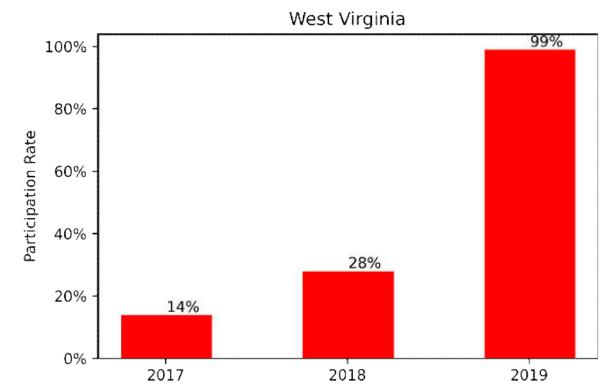
All **Colorado** high school juniors will take the SAT.



**Illinois** moves ahead with new testing plan, replacing ACT with SAT



**West Virginia** chooses SAT as new high school standardized test for juniors



They change policy for **using SAT as new standardized test** for junior high schools

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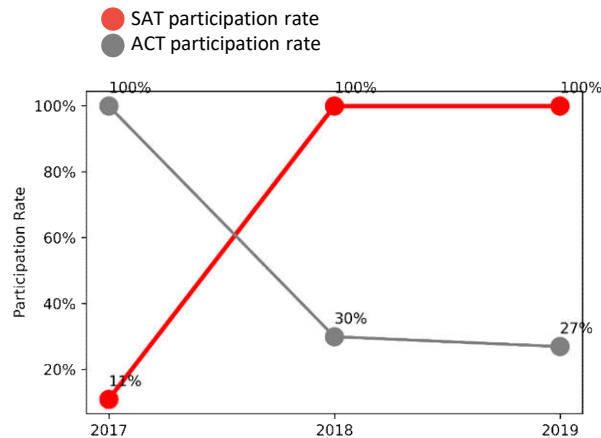
Ref: [https://www.wvgazettemail.com/news/education/wv-chooses-sat-as-new-high-school-standardized-test-for-juniors/article\\_b60d2618-4943-56f6-b180-4b4442172ef8.html](https://www.wvgazettemail.com/news/education/wv-chooses-sat-as-new-high-school-standardized-test-for-juniors/article_b60d2618-4943-56f6-b180-4b4442172ef8.html)



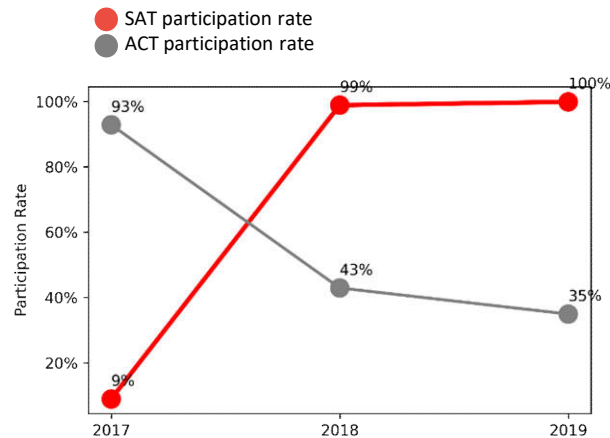
# What's about ACT?



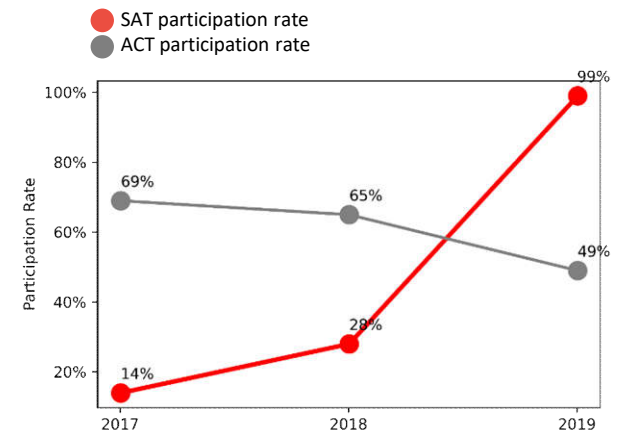
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**ACT participation rate has significantly decreased** after the states changed the policy

# Conclusion



## Key takeaways :

1. **Colorado, Illinois and West Virginia** are **the Top 3 states**, which make a significant improvement in SAT Participation Rate during 2017-2019.
2. These states **change policy for using SAT as new standardized test** for junior high schools.
3. **ACT** participation rate has **significantly decreased** after the states changed the policy.

## Conclusion :

**States policy** make a significant change in participation rate.  
All students must **check States policy before taking a Test.**

The background is composed of several overlapping triangles in two shades of red: a darker, more saturated red and a lighter, slightly more vibrant red. These triangles are arranged in a way that creates a sense of depth and movement. A thin, white horizontal line runs across the upper portion of the image, starting from the left edge and ending just before the right edge. The text "Thank You" is centered in the middle of the image, rendered in a clean, white, sans-serif font.

**Thank You**