



DECEMBER 2022

Marijuana Legalization

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What to Expect



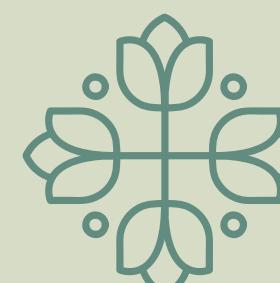
Problem & Motivation



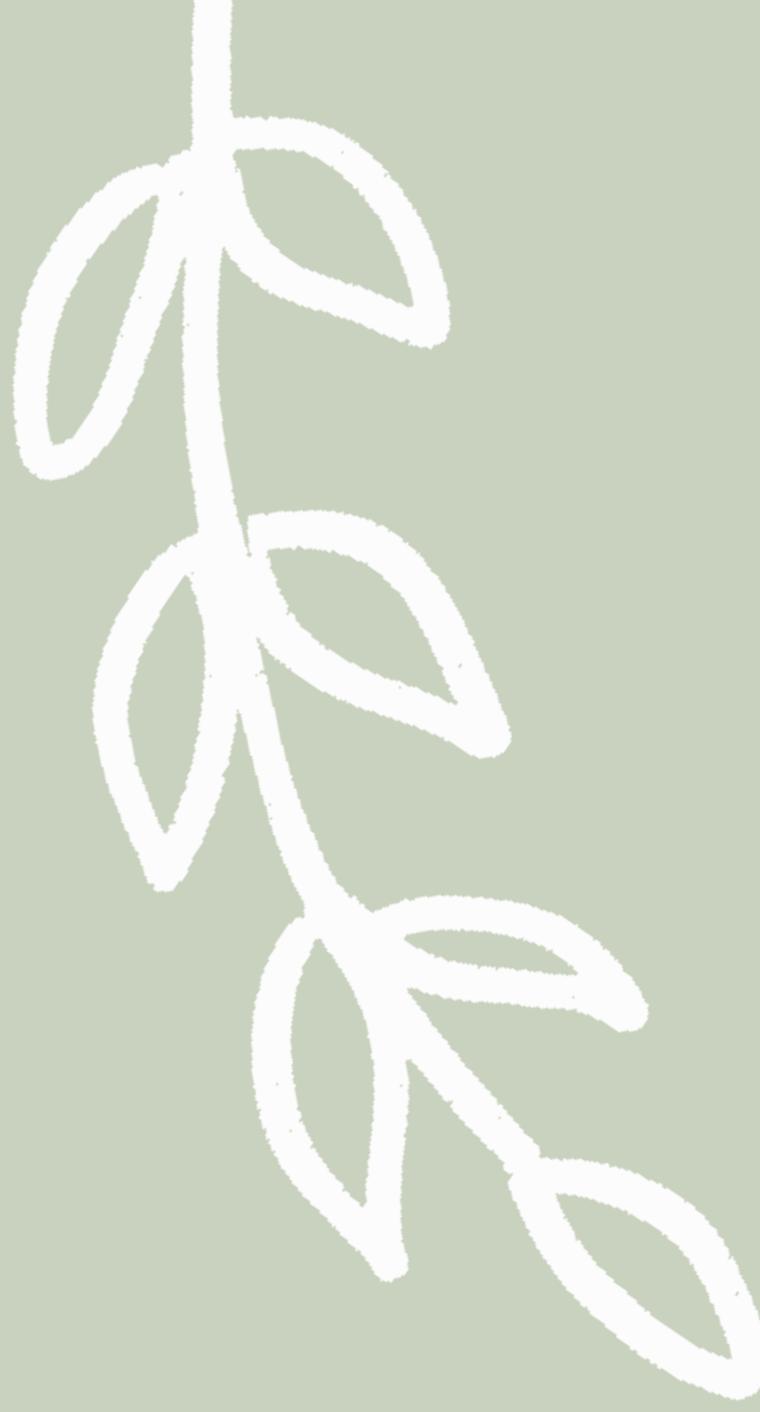
Data Sources & Pre-processing



Analysis & Results



Insights & Conclusion



Problem & Motivation

Despite being listed as an illegal drug, marijuana has been used by more than 128 million people in the US. Every year, more than 600,000 Americans are arrested for marijuana possession; that's more than one per minute. Today, 66% of the population supports legalizing marijuana, up from 12% in 1969.

- Since marijuana is already widely accessible, legalizing it would benefit the economy in the long run by collecting tax revenue.
- If it's legal, the government can simply track how much the public purchases and keep an eye on it.

Which US states will be the next to legalize marijuana?



Data Sources



COLLECTING DATA

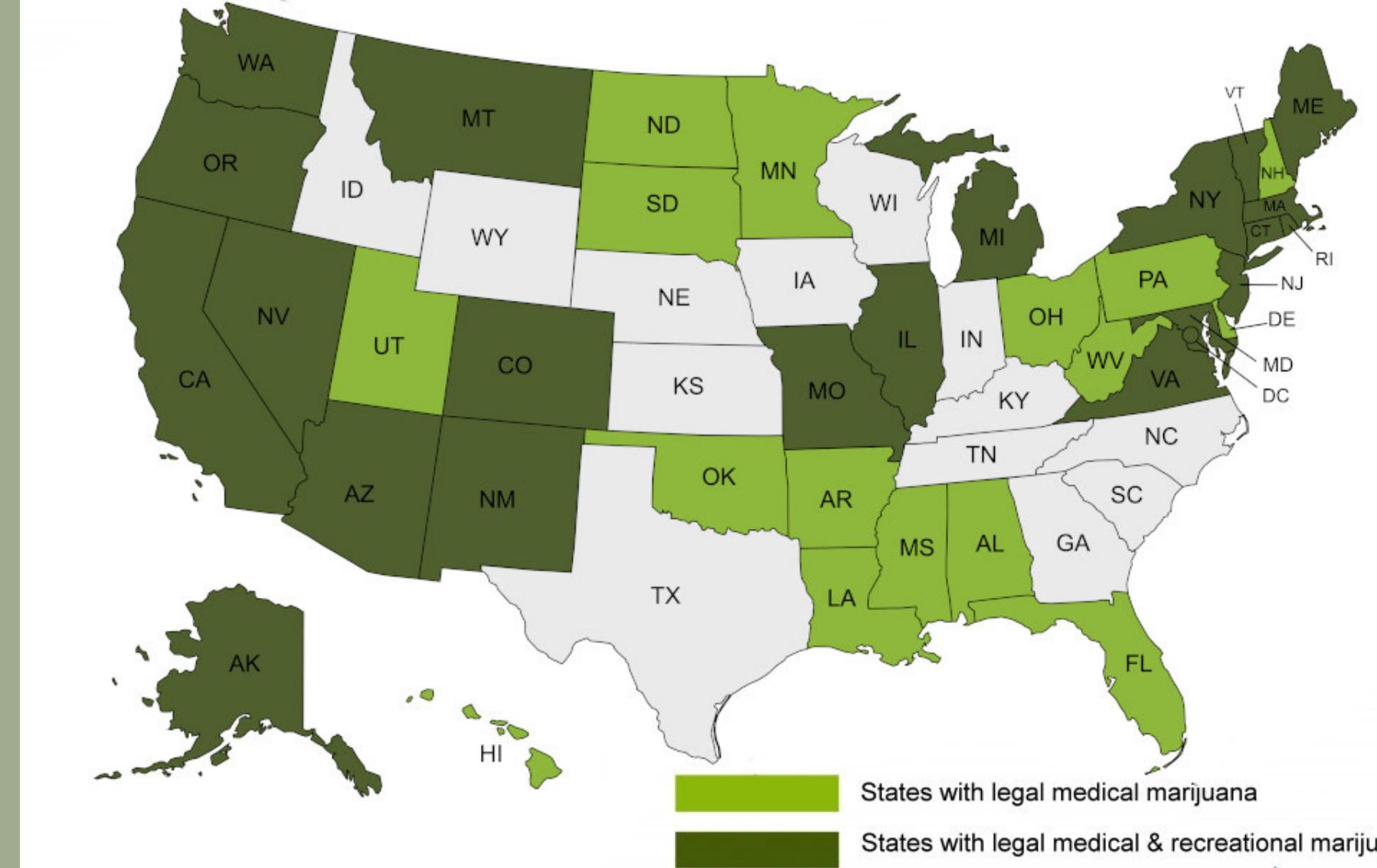
Categorize states based on legalization status

There are 16 states where medical marijuana consumption is legal("M" states), 12 states were it is completely illegal("N" states) and rest of the states allow marijuana consumption for both medical and recreational purpose.

Data Sources: Twitter

Keywords: "marijuana","weed",
"legalization",state details and more

Legal Medical & Recreational Marijuana States

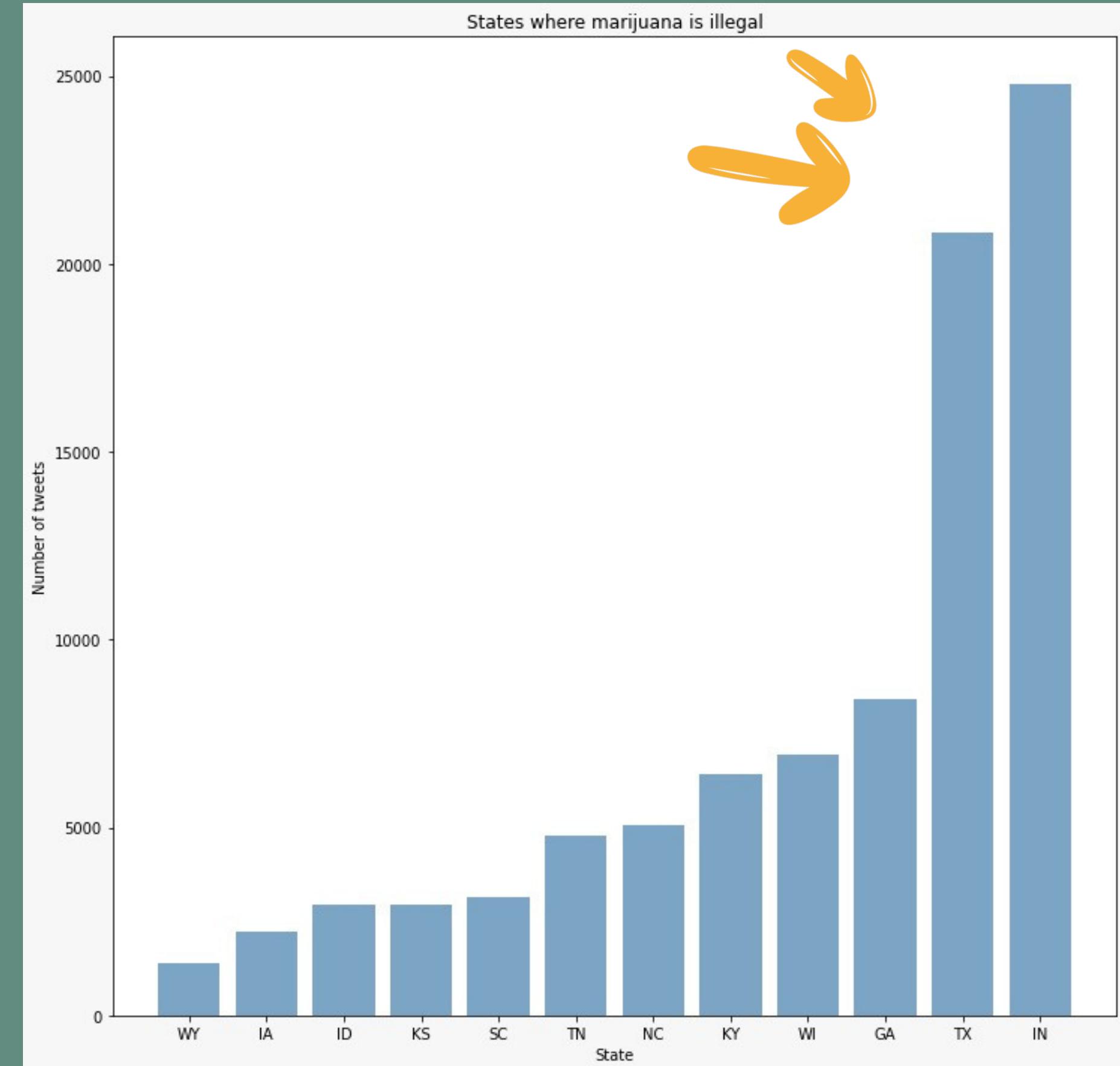
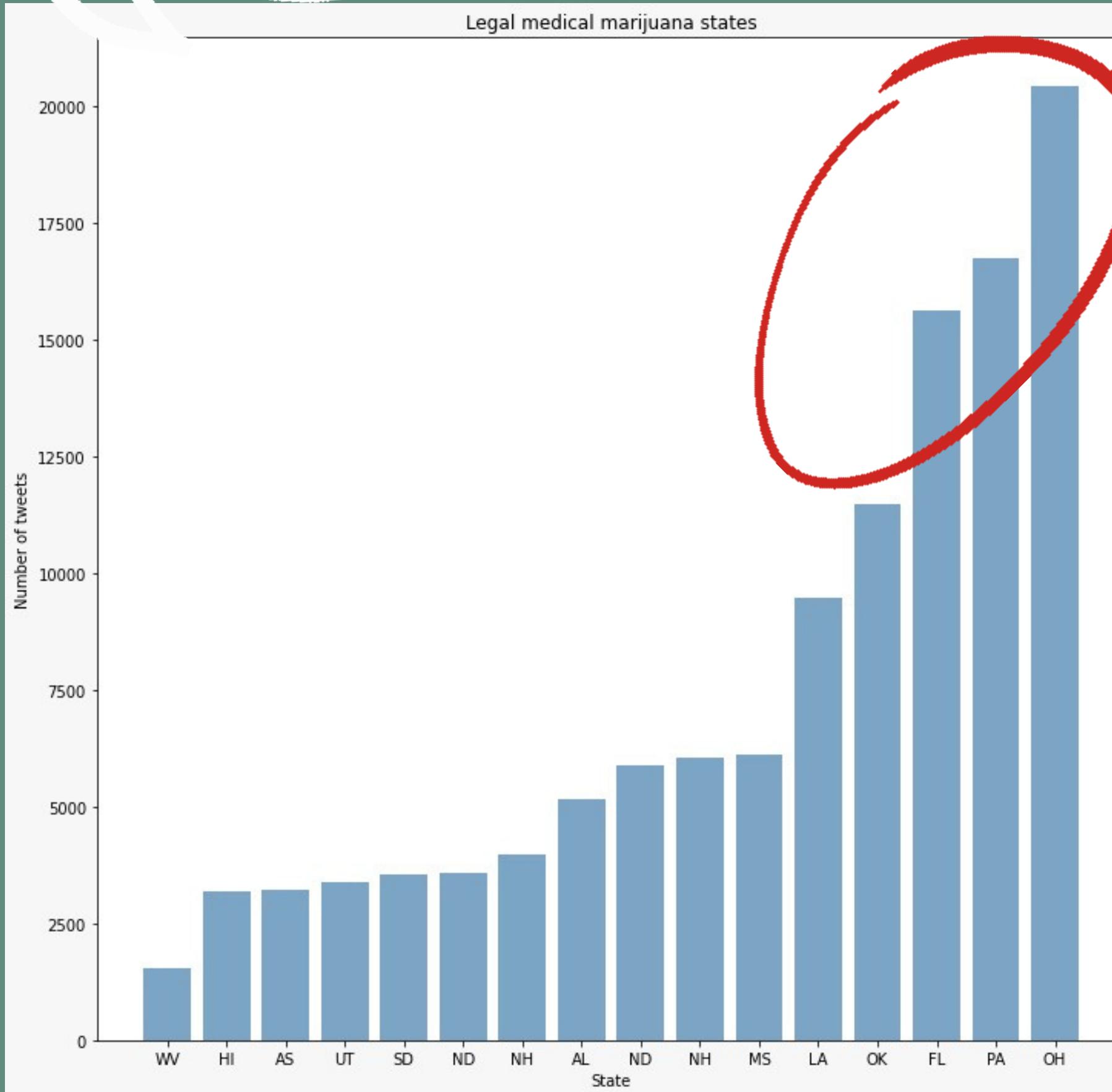


Source: <https://medicalmarijuana.procon.org/legal-medical-marijuana-states-and-dc/>

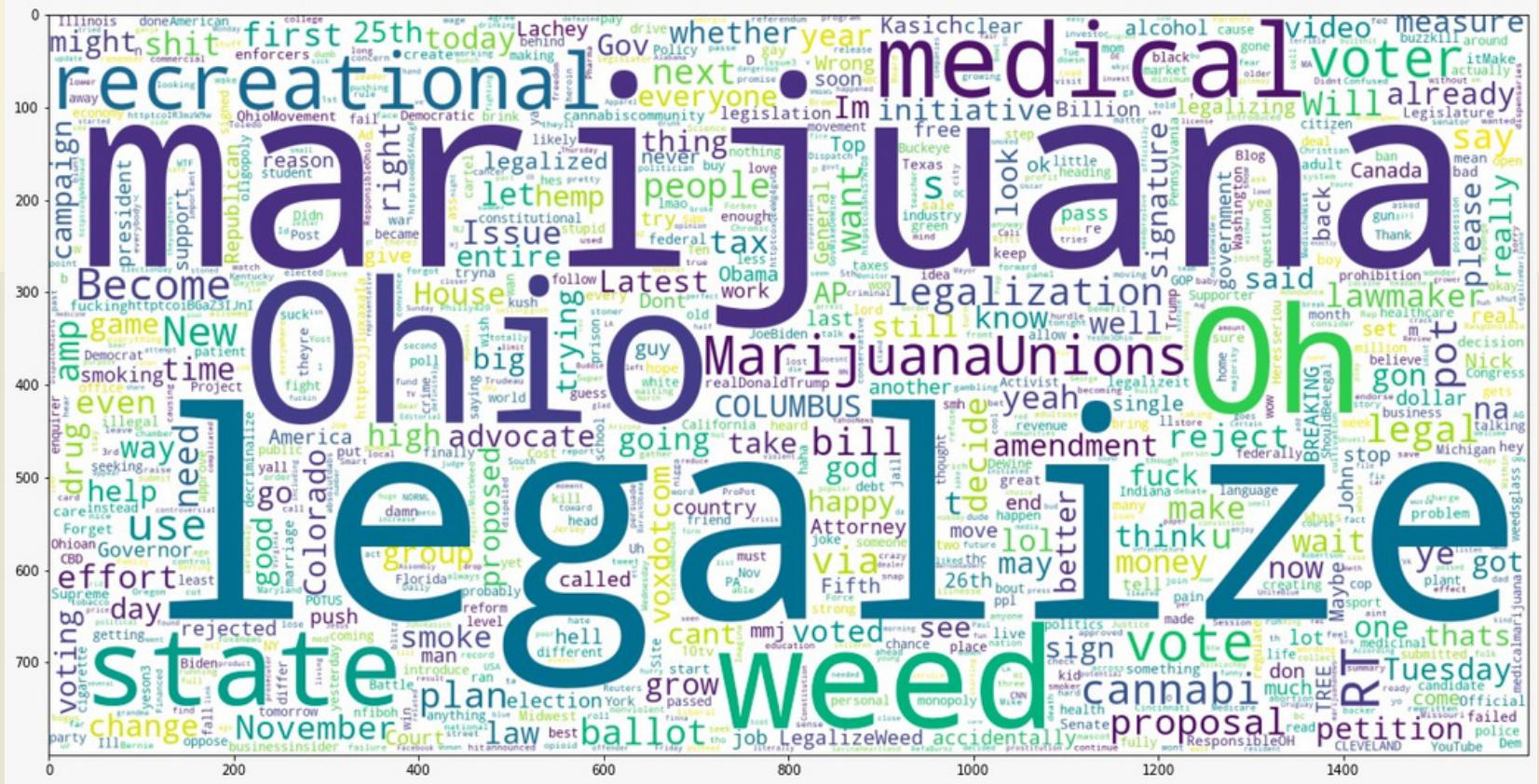
BRITANNICA
ProCon.org

RELIABLE.
NONPARTISAN.
EMPOWERING.

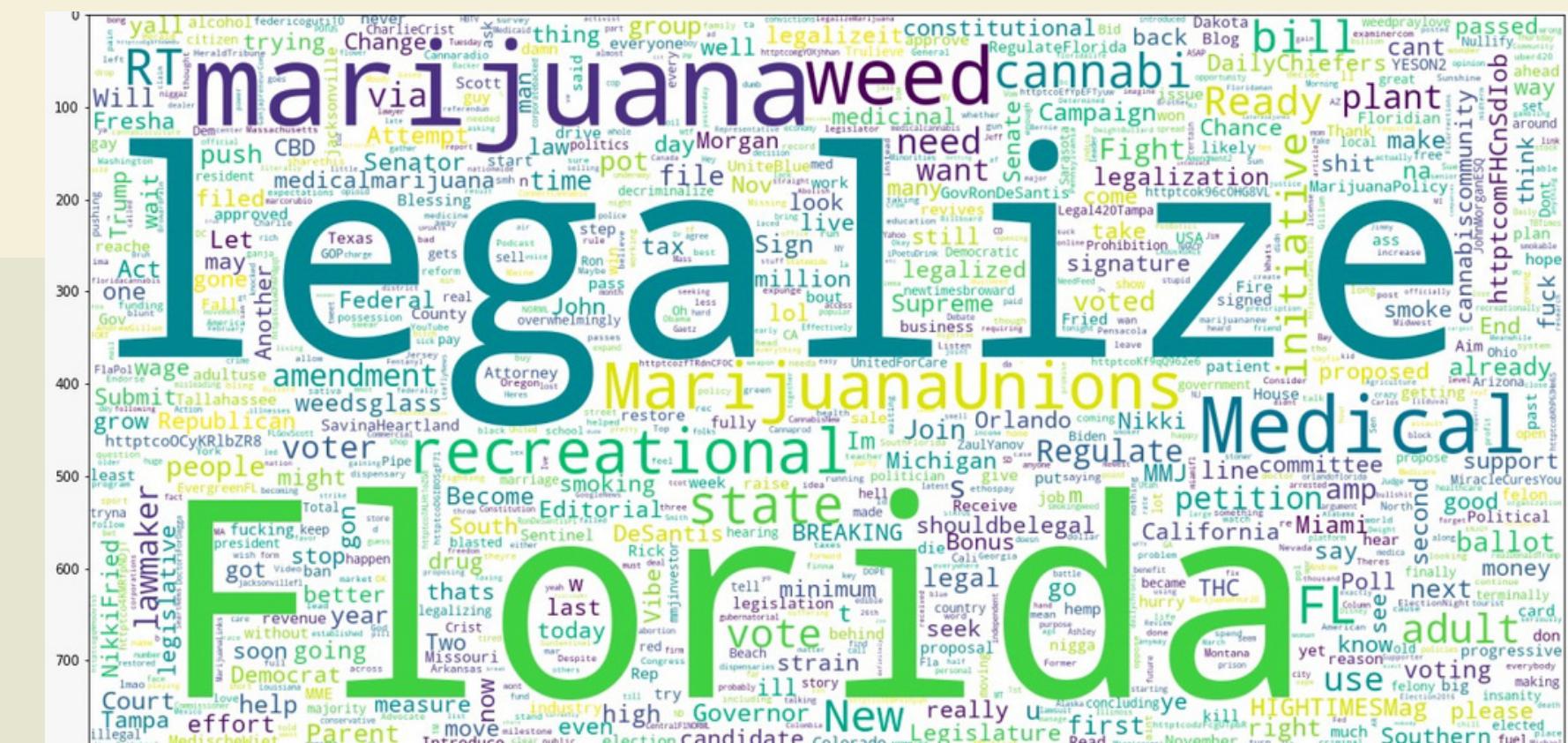
Histogram of states and number of tweets related to our topic



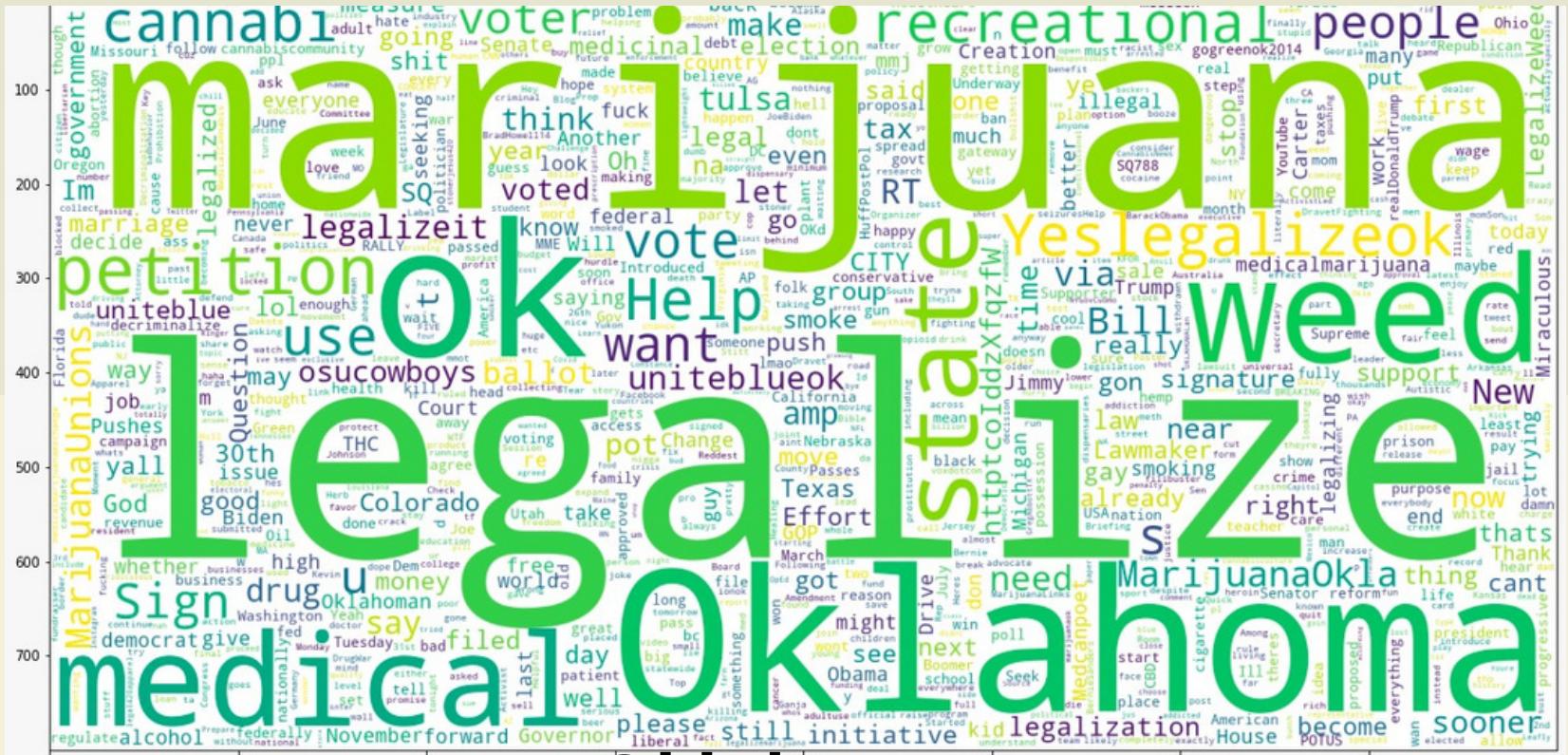
Word frequency analysis for states



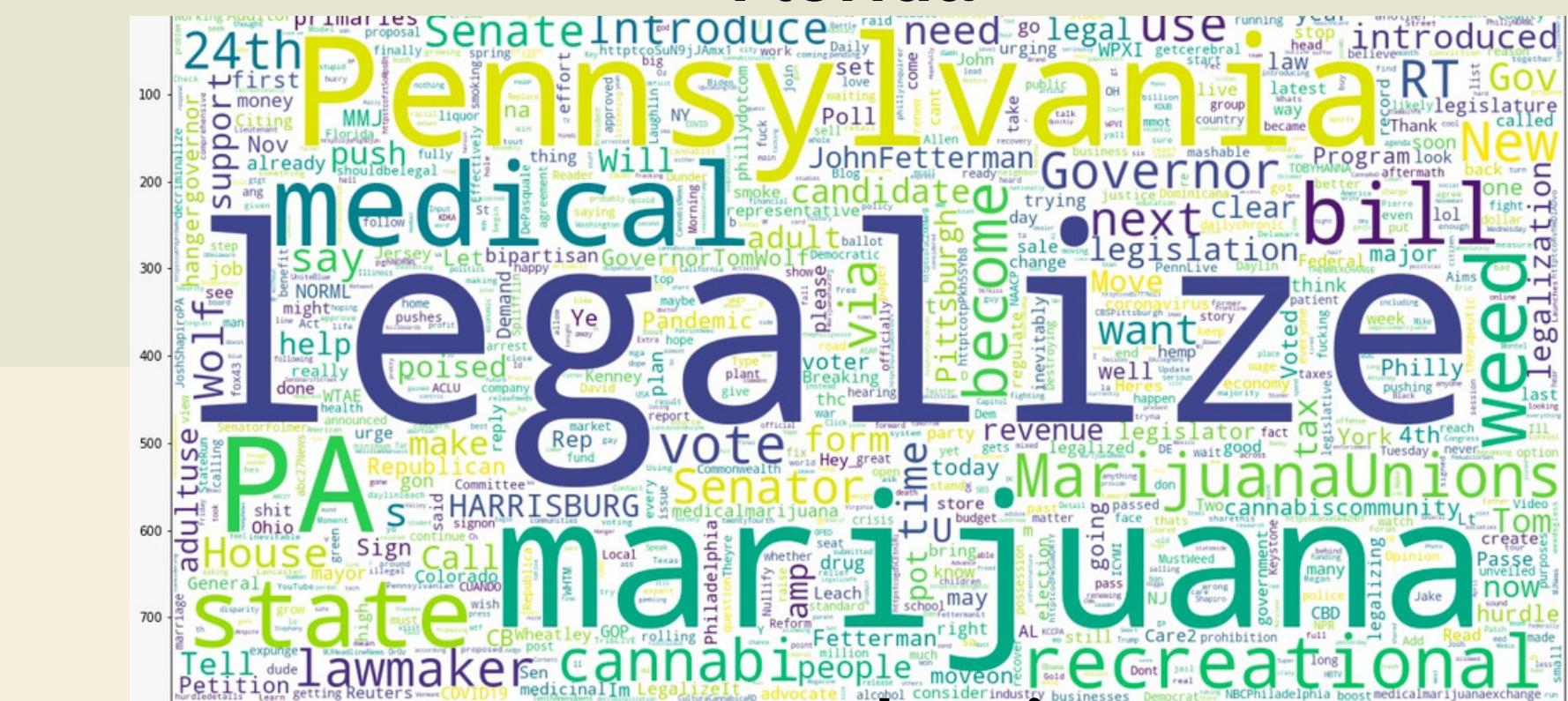
OHIO



Florida



Oklahoma

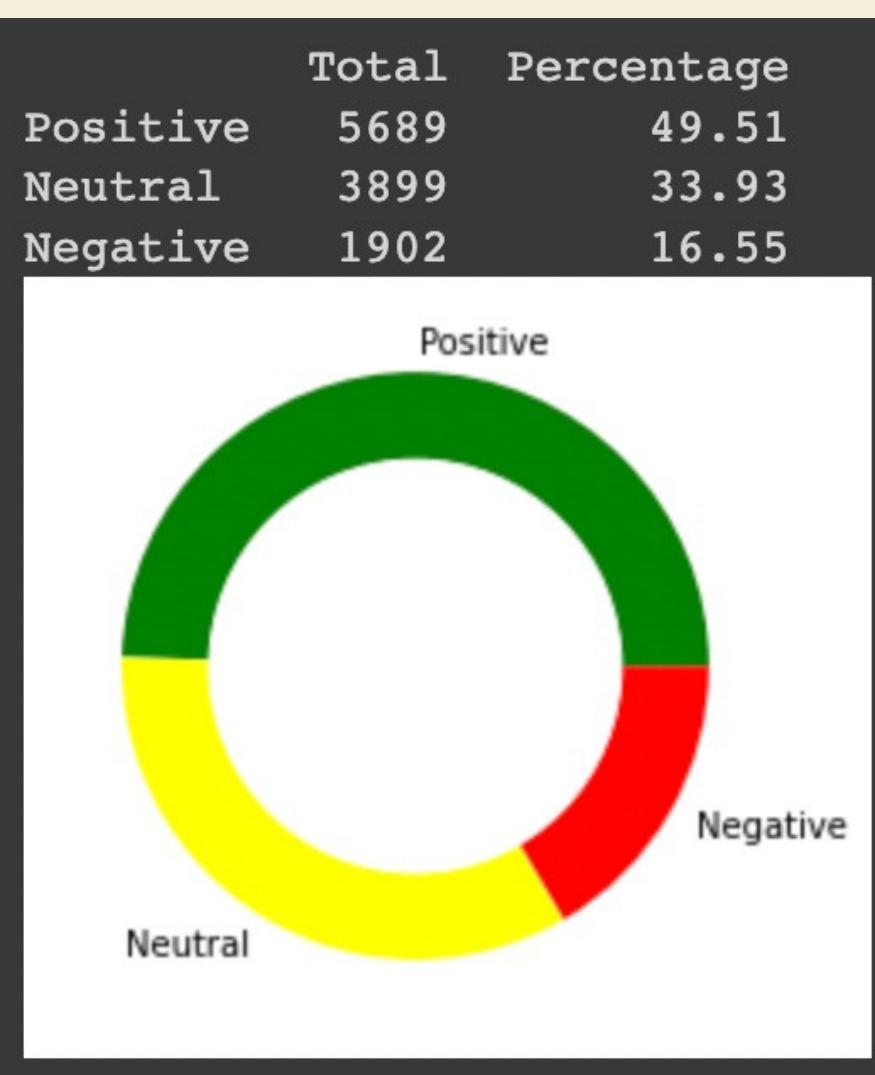


Pennsylvania

Analysis & Results

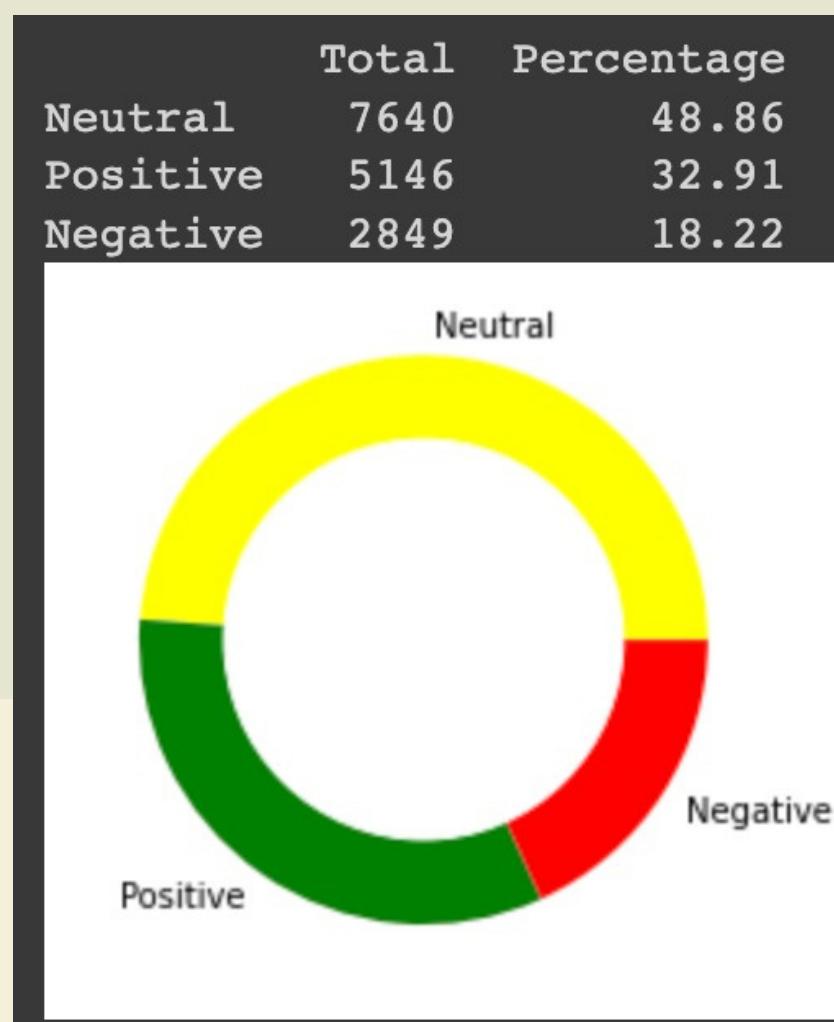


Sentiment Analysis top 4 "M" States

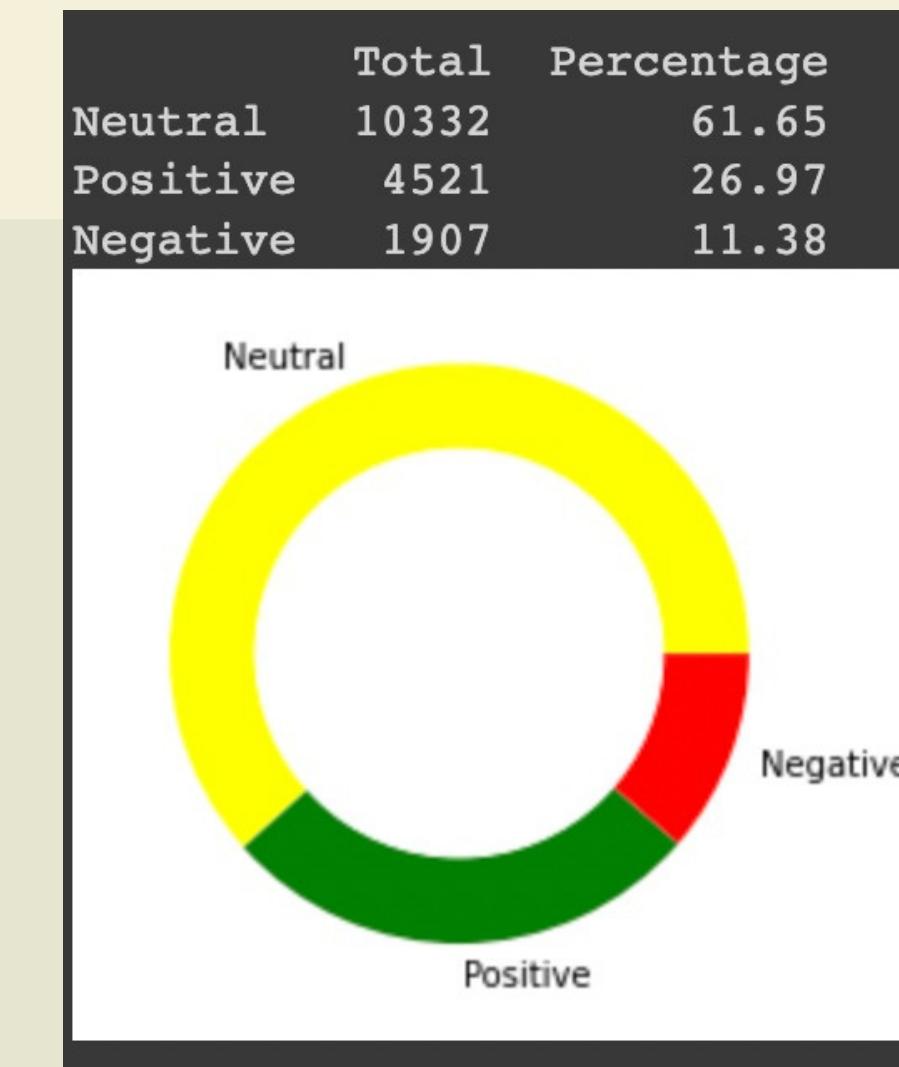


Oklahoma

SELECT

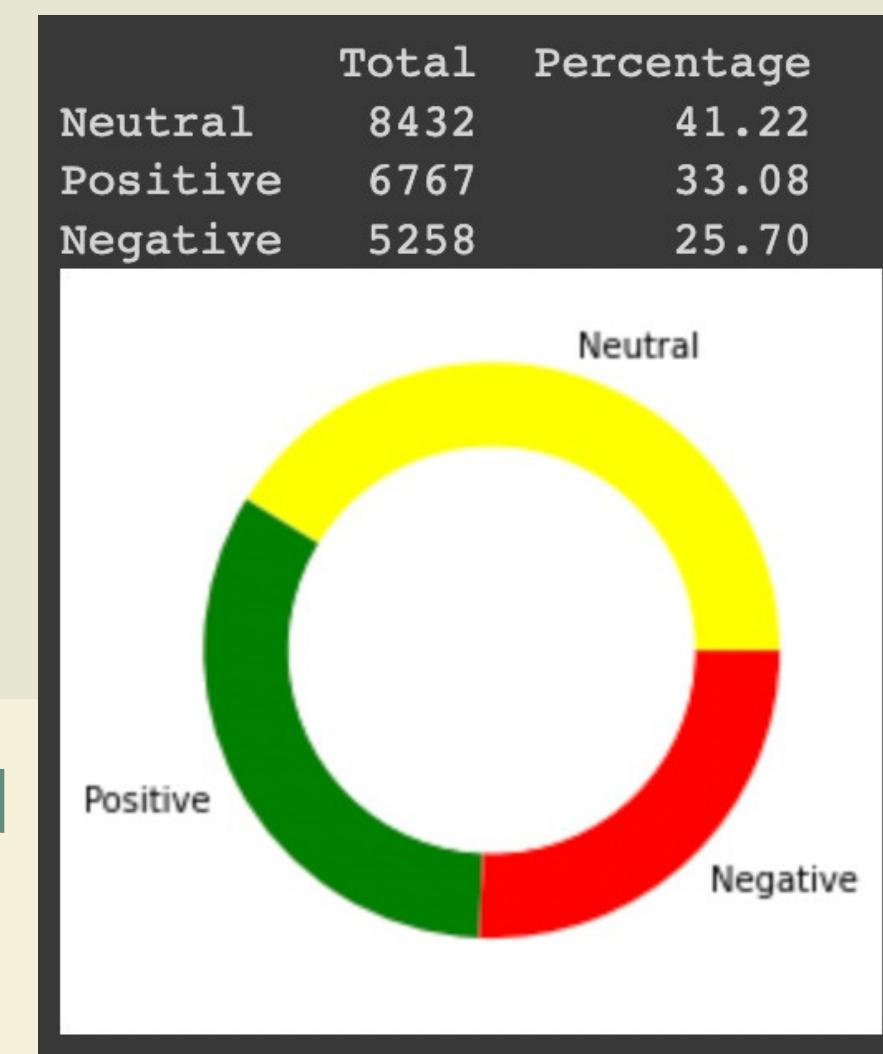


Florida



Pennsylvania

SELECT

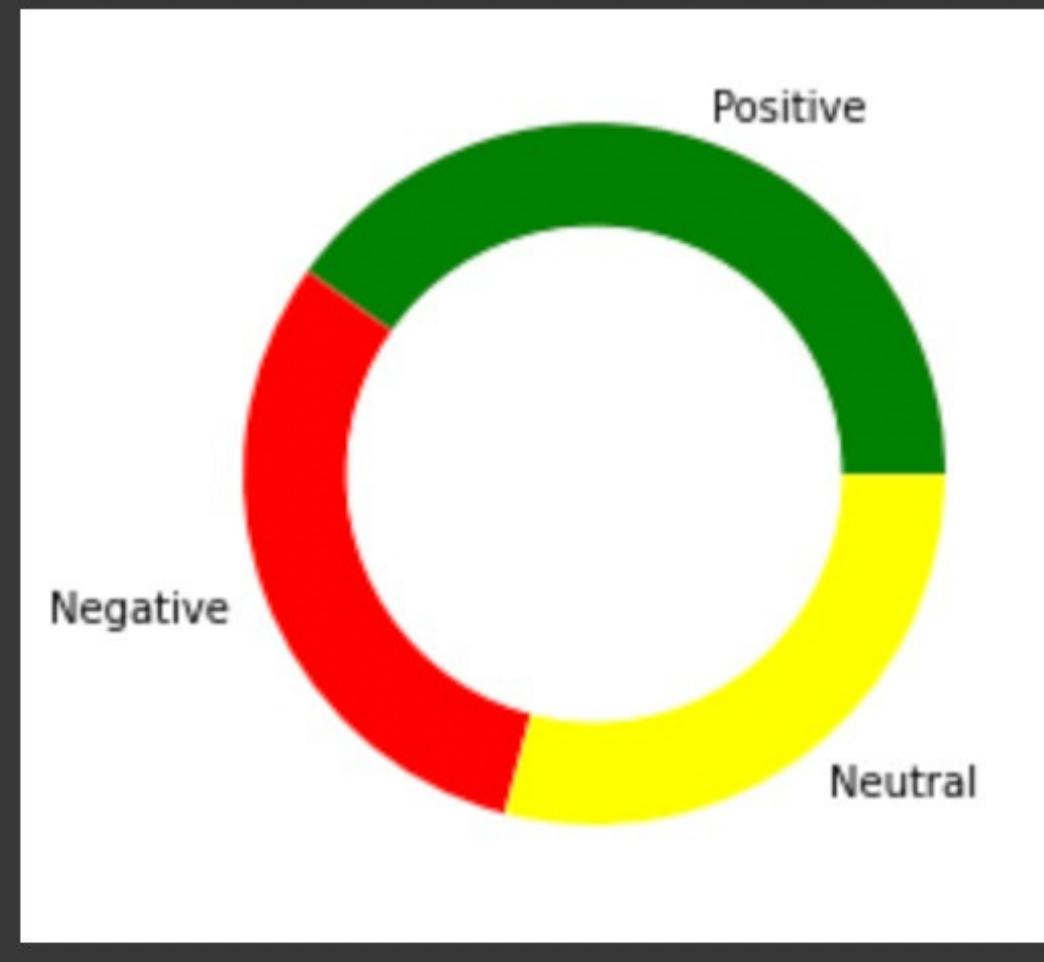


Ohio



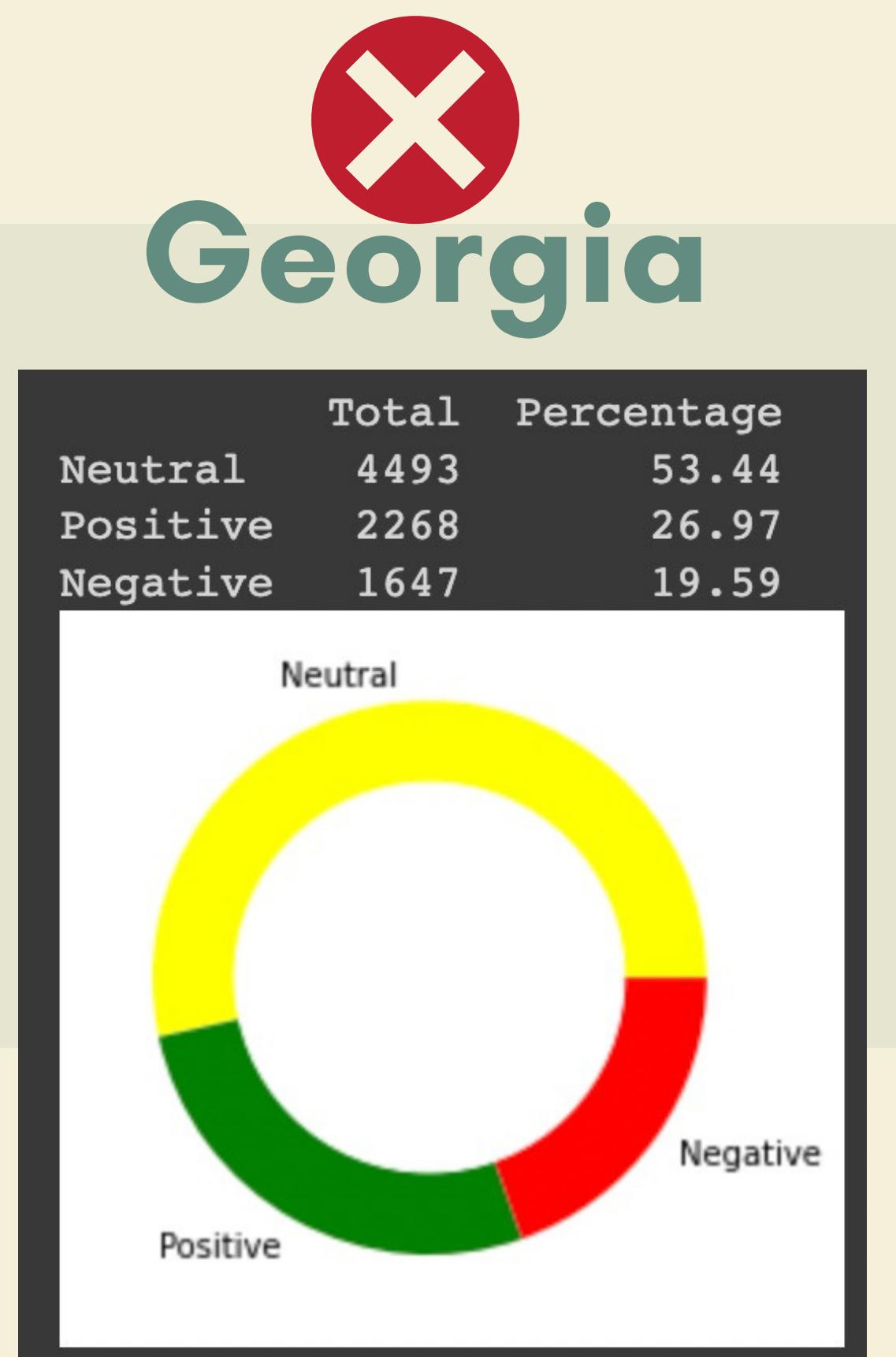
Sentiment Analysis top 3 "N" States

	Total	Percentage
Positive	9965	40.18
Negative	7618	30.72
Neutral	7218	29.10



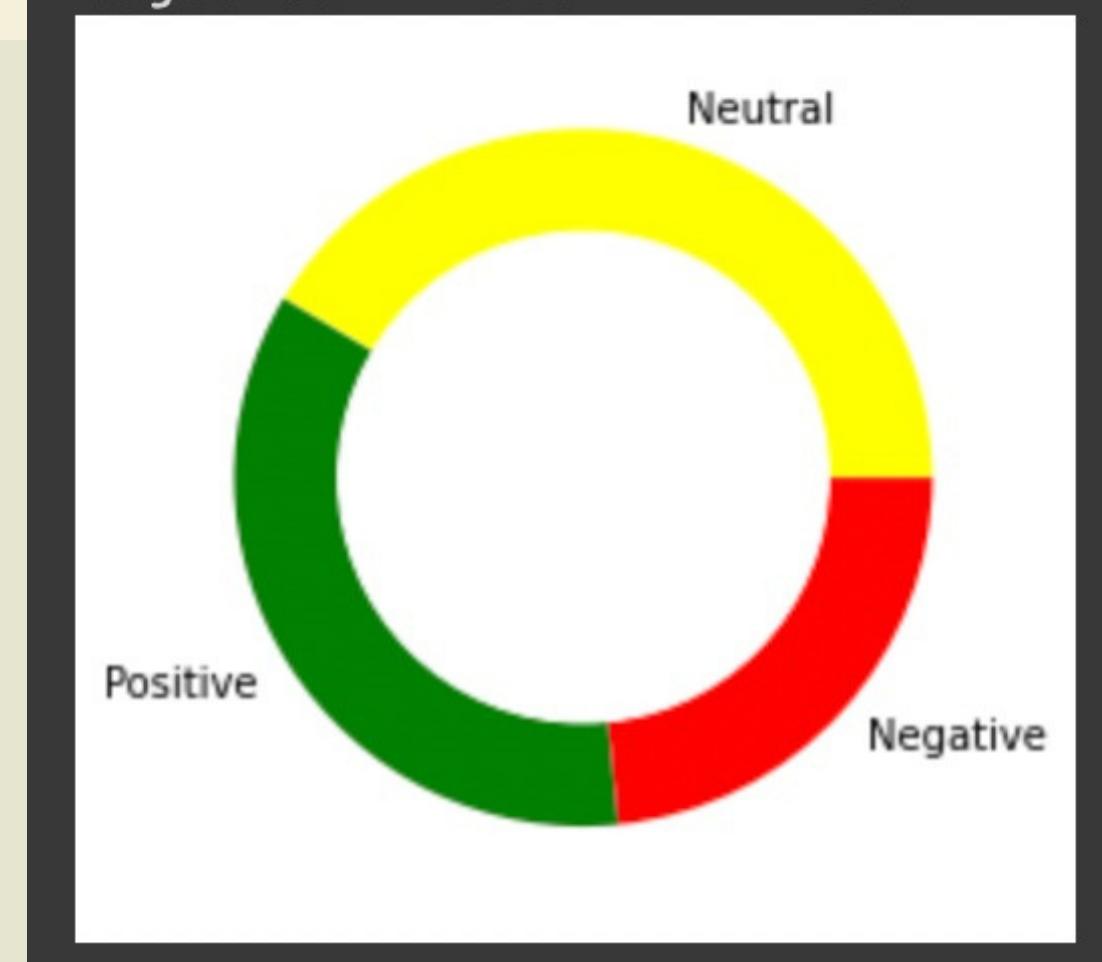
Indiana

SELECT



Georgia

	Total	Percentage
Neutral	8636	41.43
Positive	7329	35.16
Negative	4880	23.41



Texas



GENERATING SUPPORT SCORE

Now that we have our top 3 states: PA, OK and IN. We have to perform further analysis to narrow it down to top two states.

SCRAPE TWEETS BY ALL SENATES AND GOVERNOR FROM THE STATES

Created a list of all the senators and governors. This csv also contained information such as the twitter handle and political party information.

PERFORM SPACY SIMILARITY AND SENTIMENT ANALYSIS BETWEEN "LEGALIZE MARIJUANA" AND TWEETS

Once spacy similarity score was generated for each tweet, we averaged the score of a single user to get a collective score.

CALCULATE THE SUPPORT SCORE

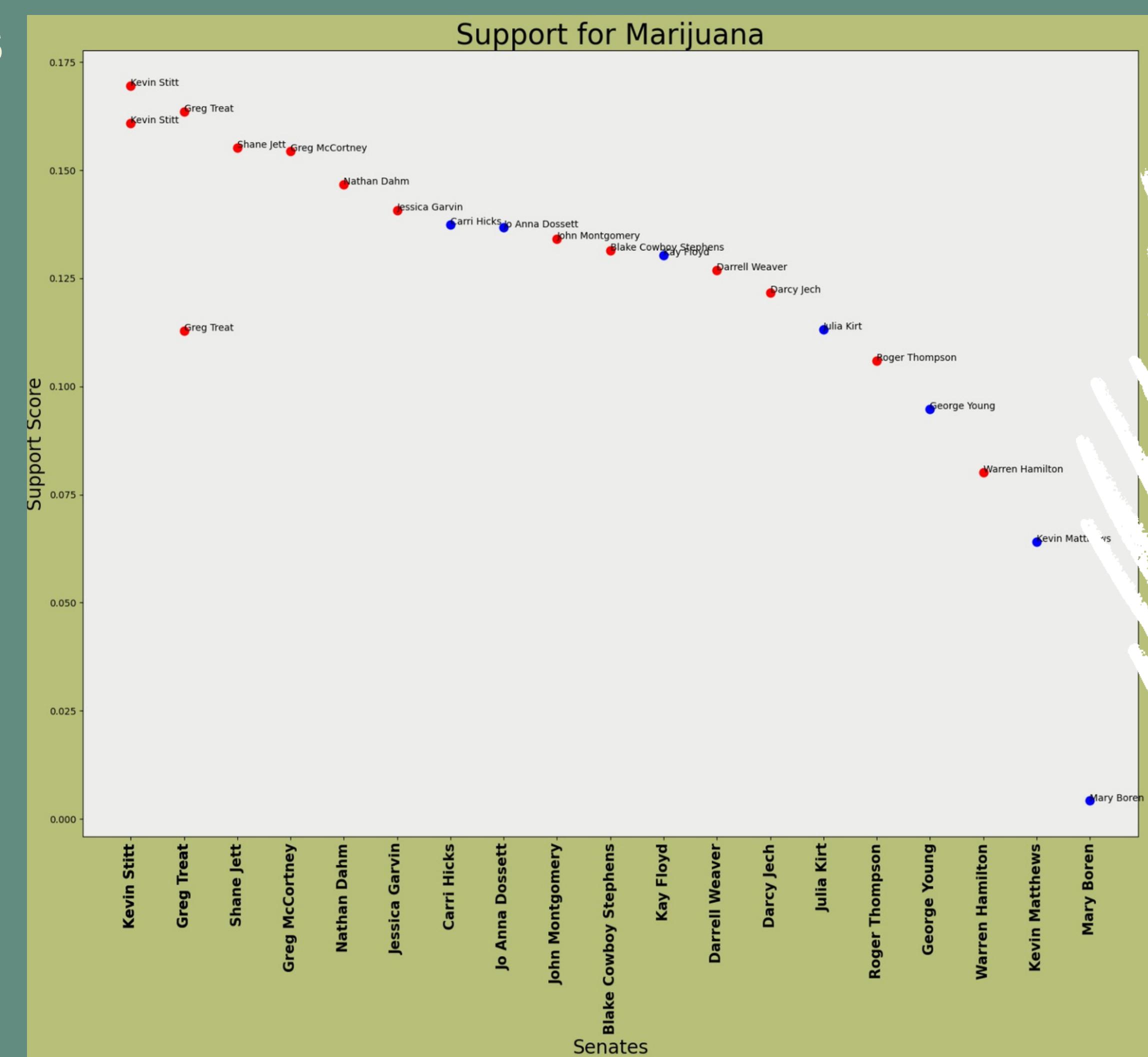
Support score is a weighted average of spacy similarity and sentiment analysis. This score will provide us information regarding how each senator/governor feels about the topic.



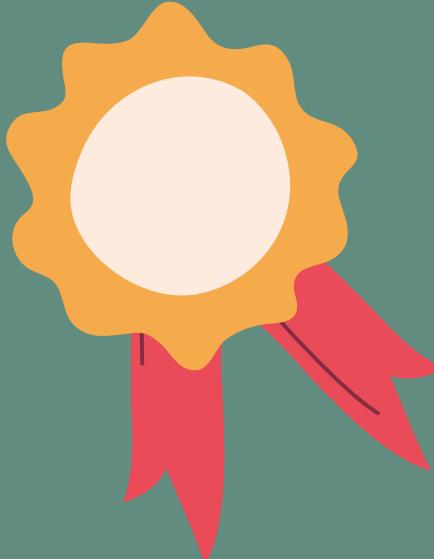
SUPPORT SCORE ANALYSIS

OKLAHOMA

Support for Marijuana

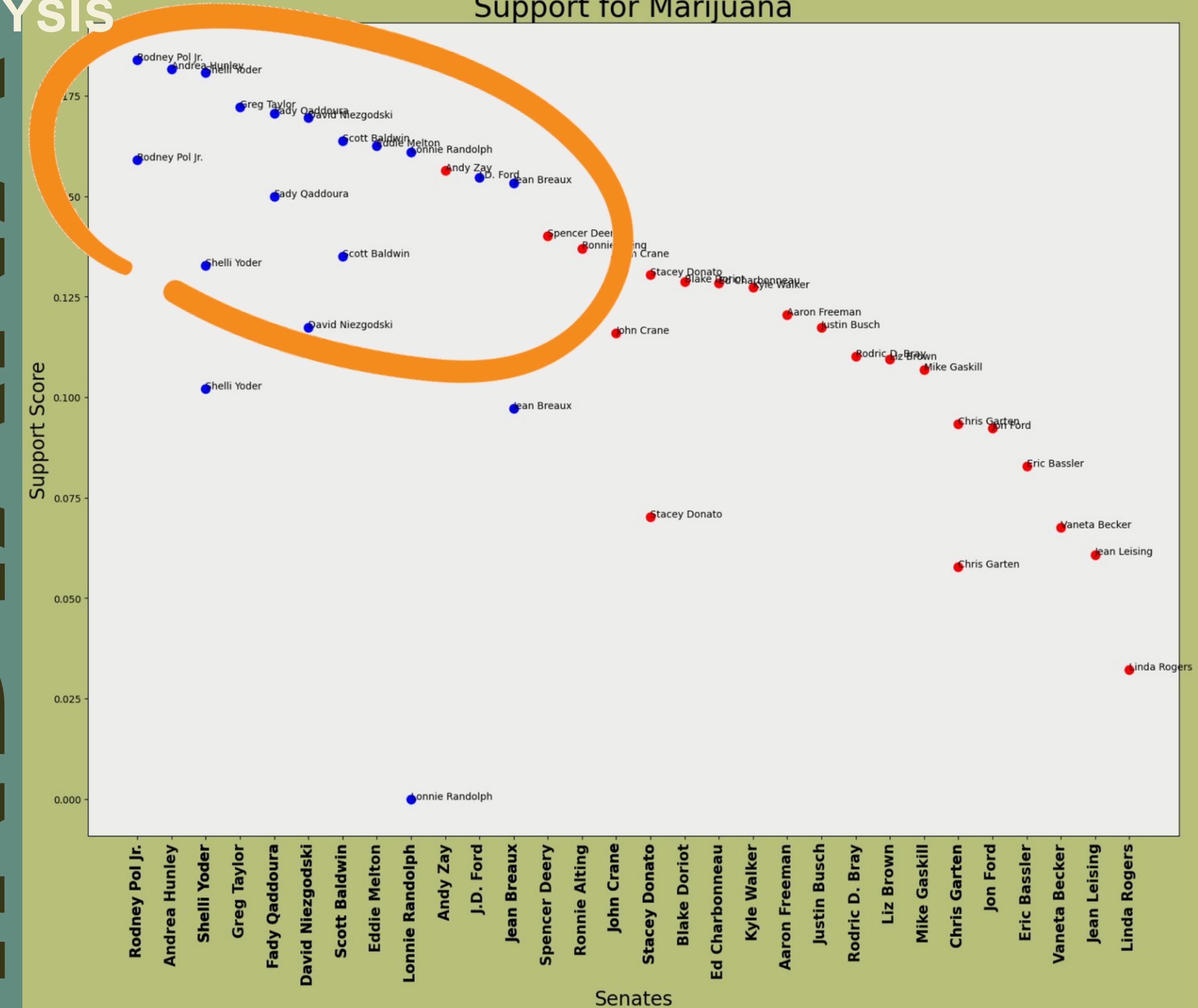


SUPPORT SCORE ANALYSIS



INDIA

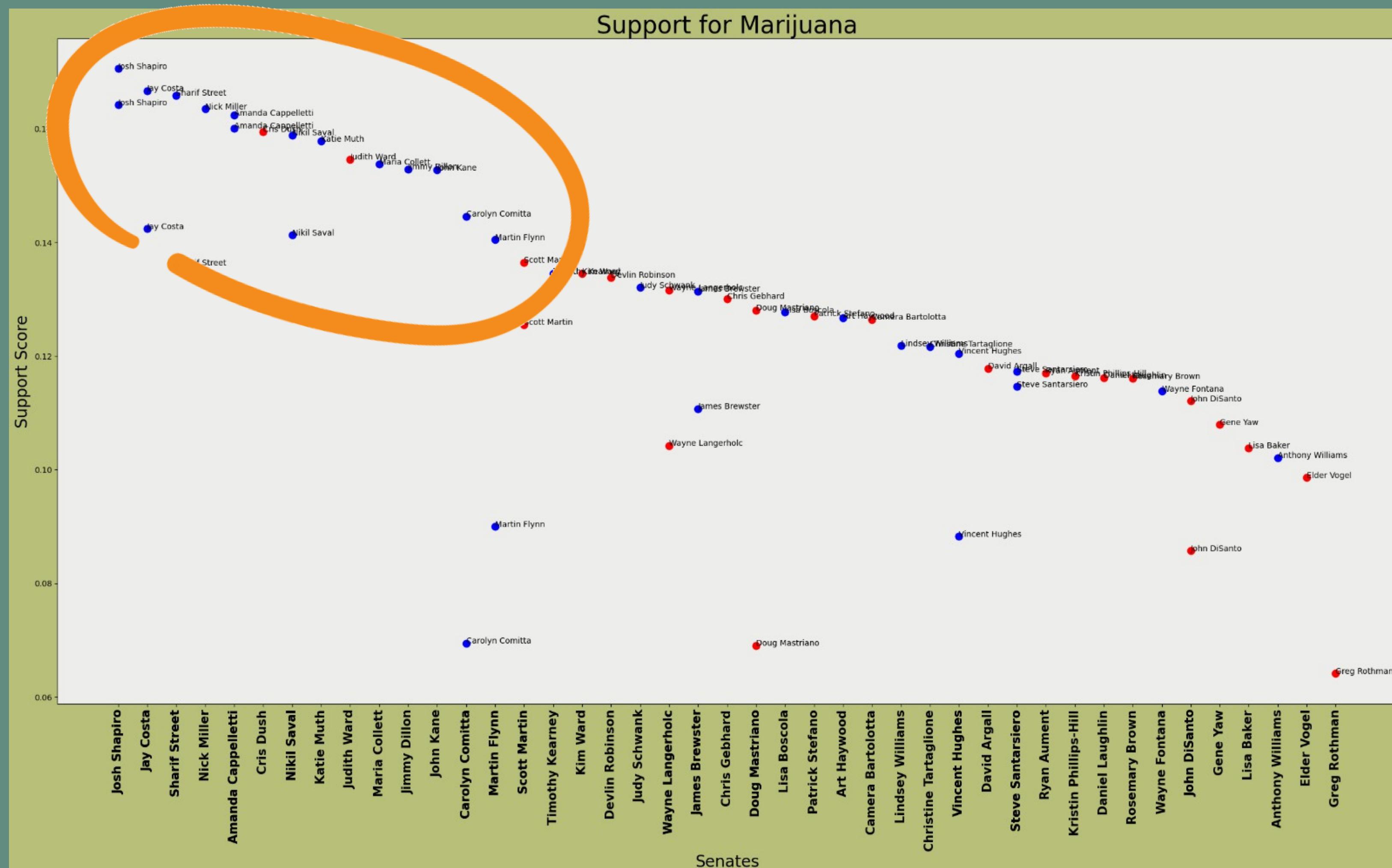
Support for Marijuana



SUPPORT SCORE ANALYSIS



Support for Marijuana



Insights



These are the insights that we derived from our study:

- 1) Majority of ***blue states*** have a ***liberal view*** on making ***recreational marijuana legal***
- 2) Majority of ***red states*** have a traditional ***right-wing view*** about ***recreational or medical marijuana***
- 3) It is only ***logical to assume*** that wherever we have a ***Democrat governor*** coming in, it is likely to be the ***next state*** to make ***recreational marijuana legal***
- 4) Therefore, going by the above analysis, we have deduced that ***Pennsylvania*** and ***Indiana*** will be the ***next states*** to make ***recreational marijuana legal***

Thank
you!

