



How Your Health May Be Related to What Your Governor Says

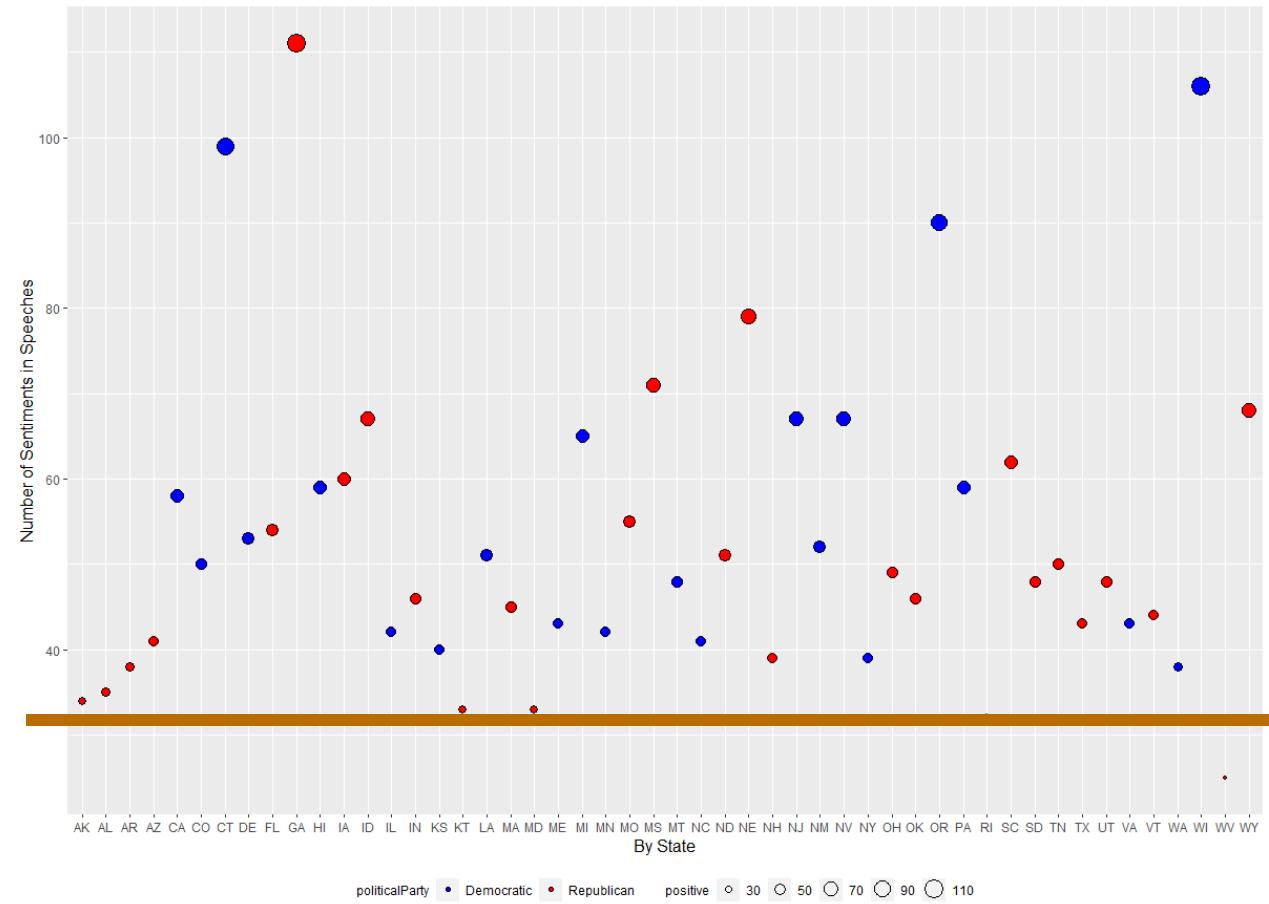
EXPLORING RELATIONSHIPS BETWEEN INDICATORS
AND SOCIAL DETERMINANTS OF HEALTH, AND THE
EMOTIONAL SENTIMENTS OF ELECTED LEADERS

*The usefulness of the information
we gather and effectiveness of the
actions we might take is
dependent upon the quality of the
questions that we ask.*

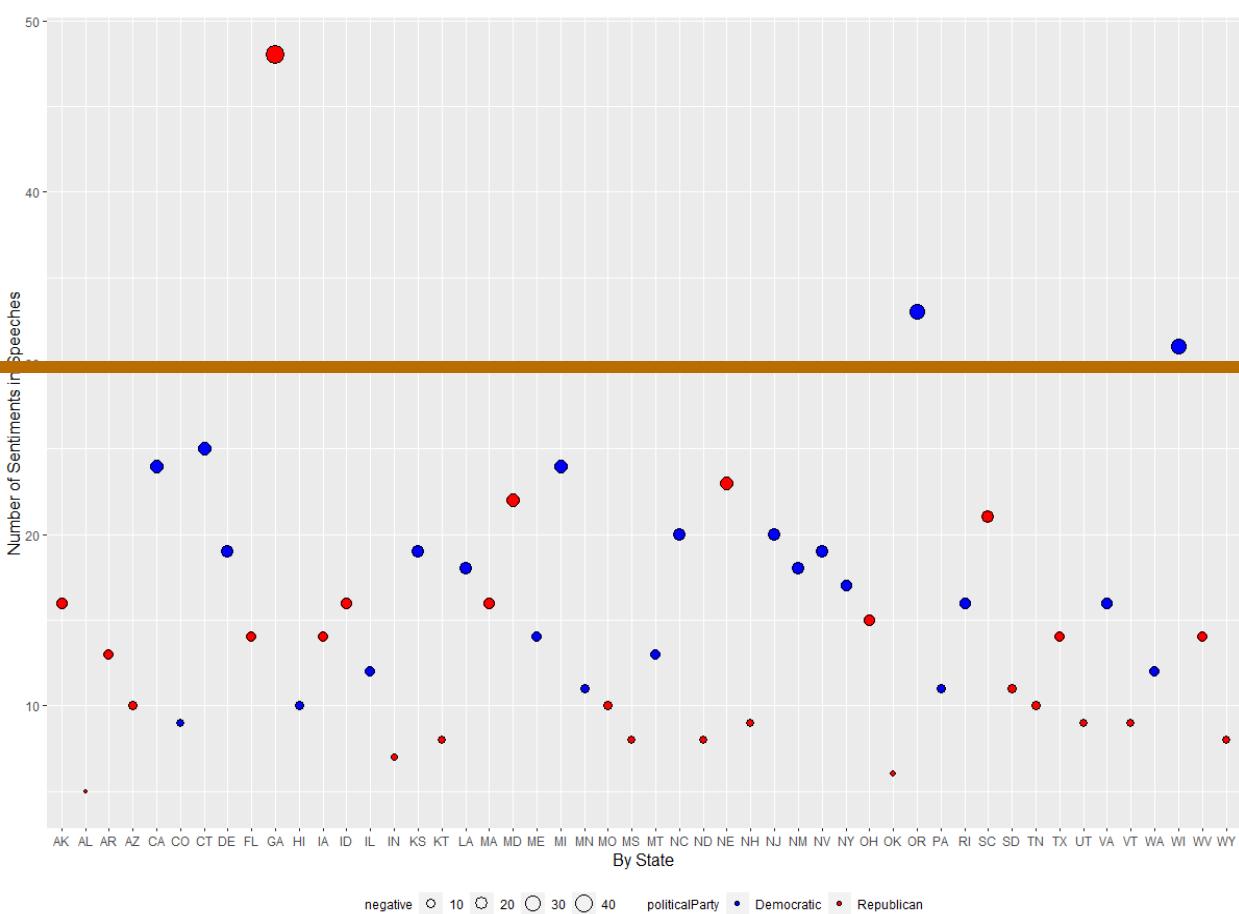
What our Governors are saying.

What emotions and sentiments are conveyed by our elected leaders when addressing those living in their state?



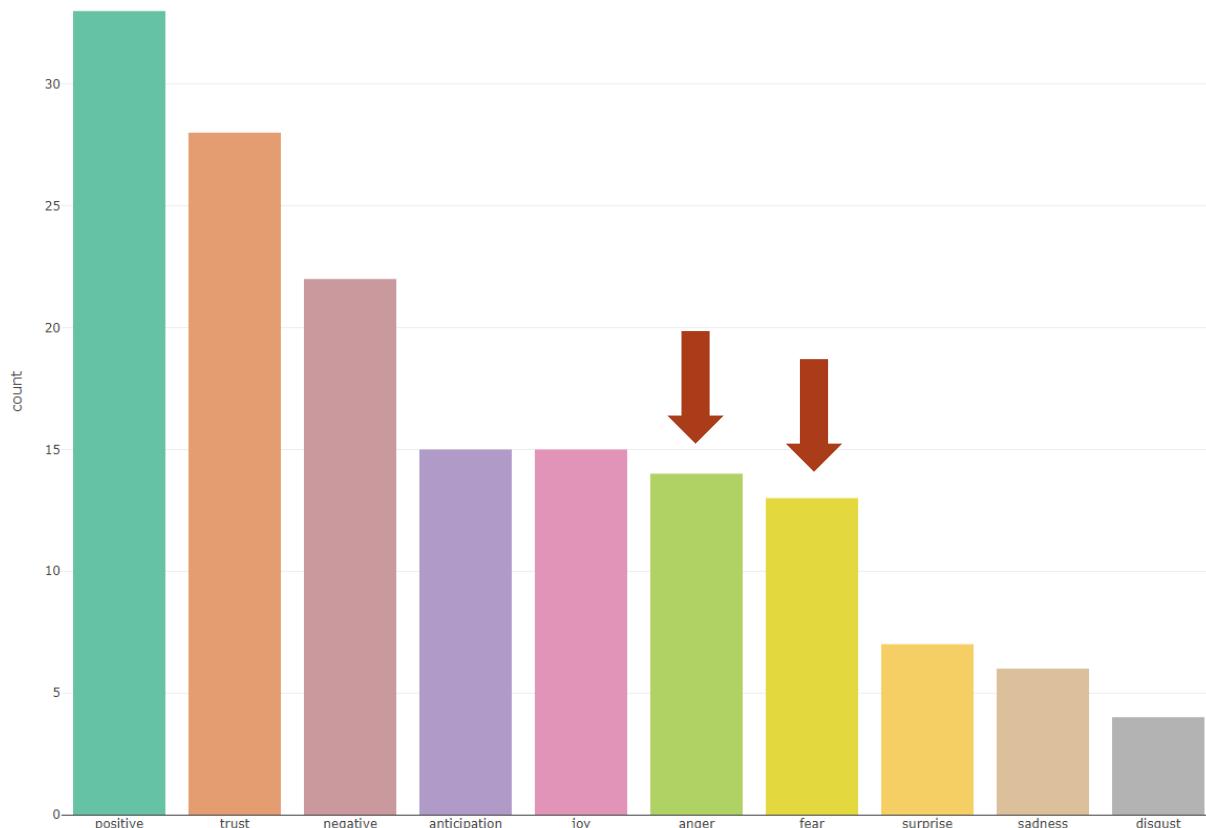


Negative Sentiments in Governor's Speeches



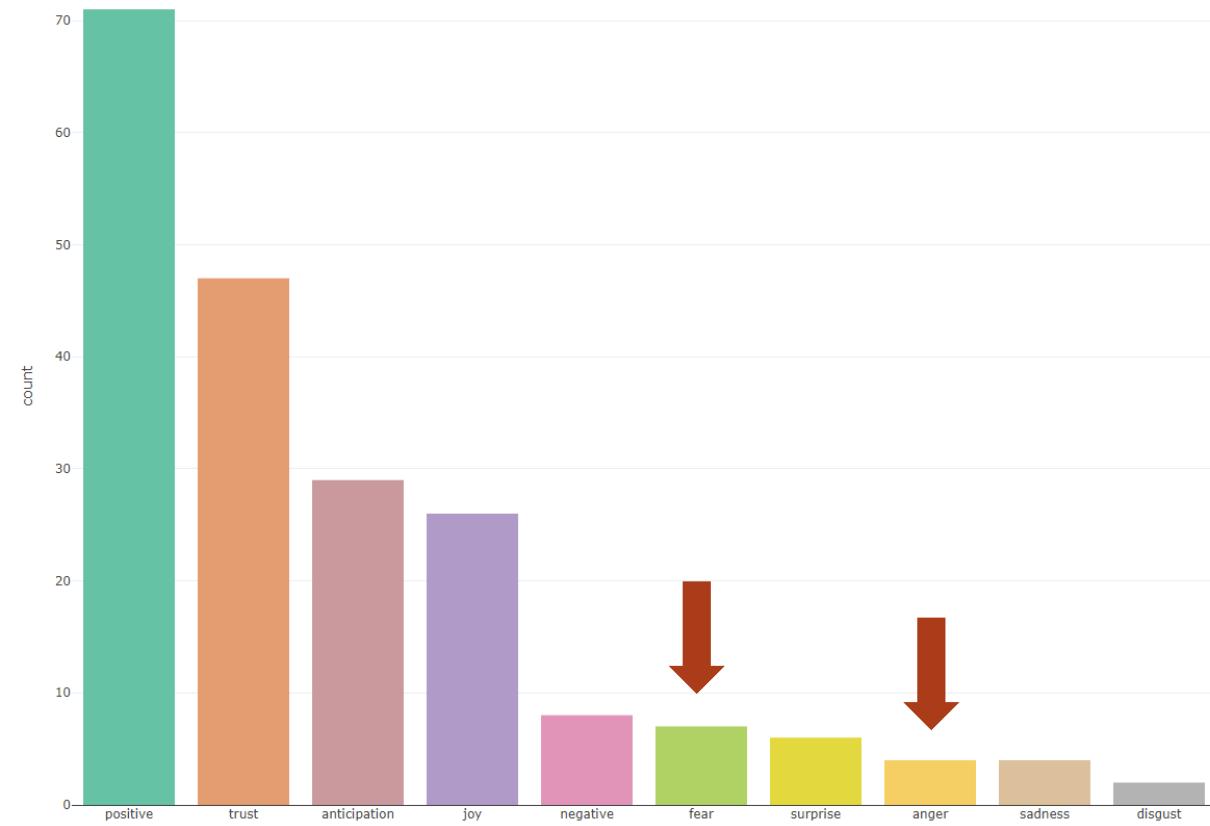
60.0% of Governor Larry Hogan's Speech from the State of Maryland was Positive

Distribution of emotions and sentiments for Maryland speech



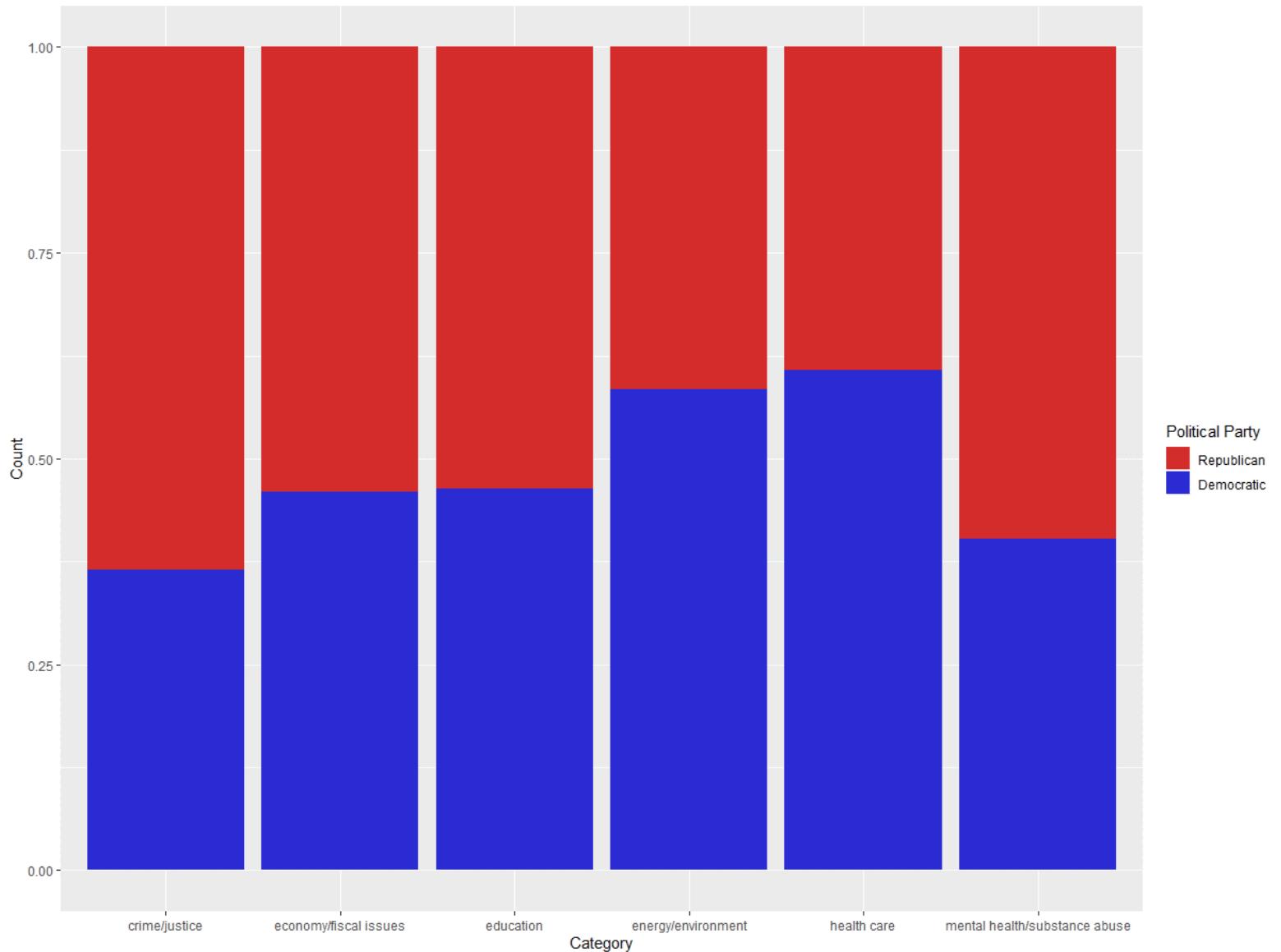
89.9% of Governor Phil Bryant's Speech from the State of Mississippi was Positive

Distribution of emotions and sentiments for Mississippi speech



Beyond the words and sentiments, political parties emphasize certain thematic categories:

- Crime/Justice
- Economy/Fiscal Issues
- Education
- Energy/Environment
- Health Care
- Mental Health/Substance Abuse

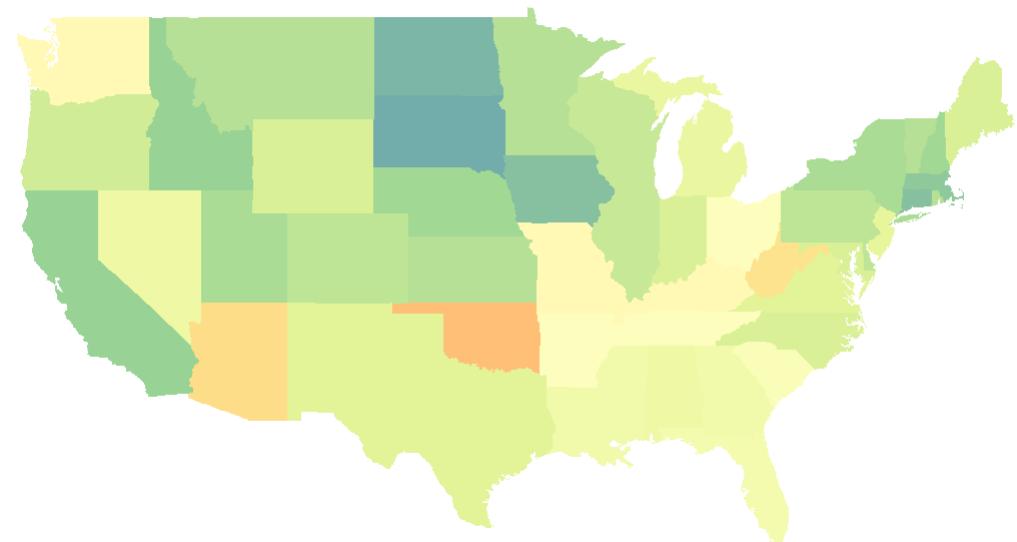


How we are feeling.

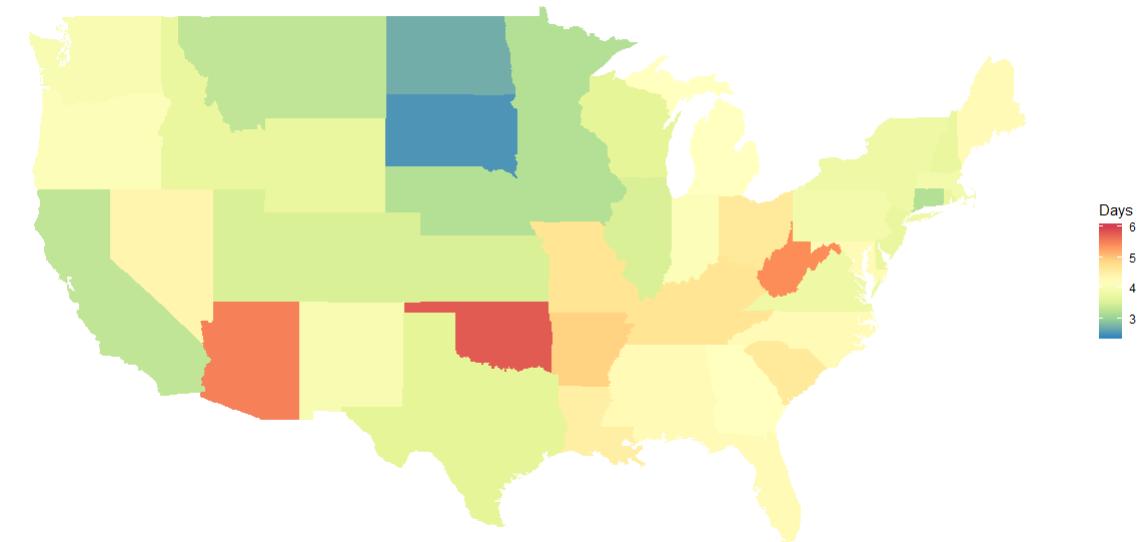
What are the key indicators and social determinants of health that elected leaders may be responding or reacting to when delivering a speech?



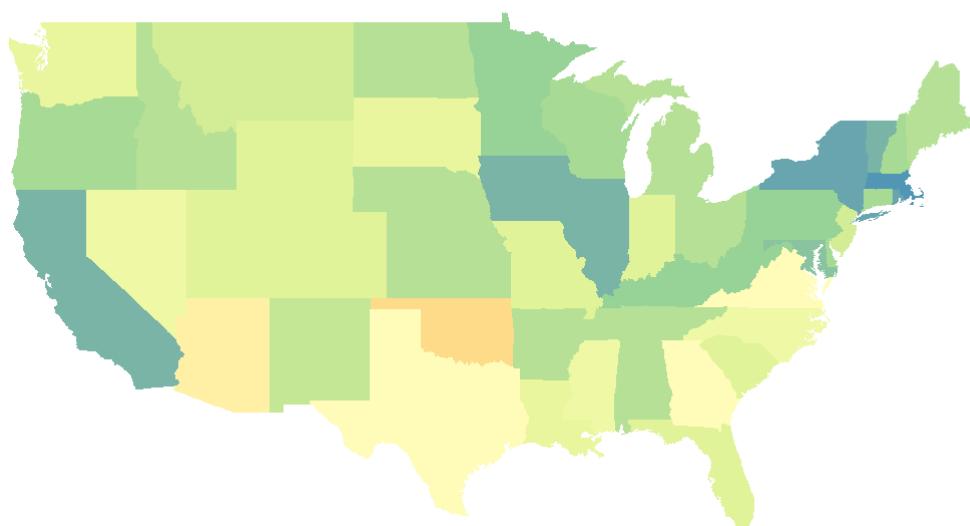
Average Number of Poor Physical Health Days (30-Days)



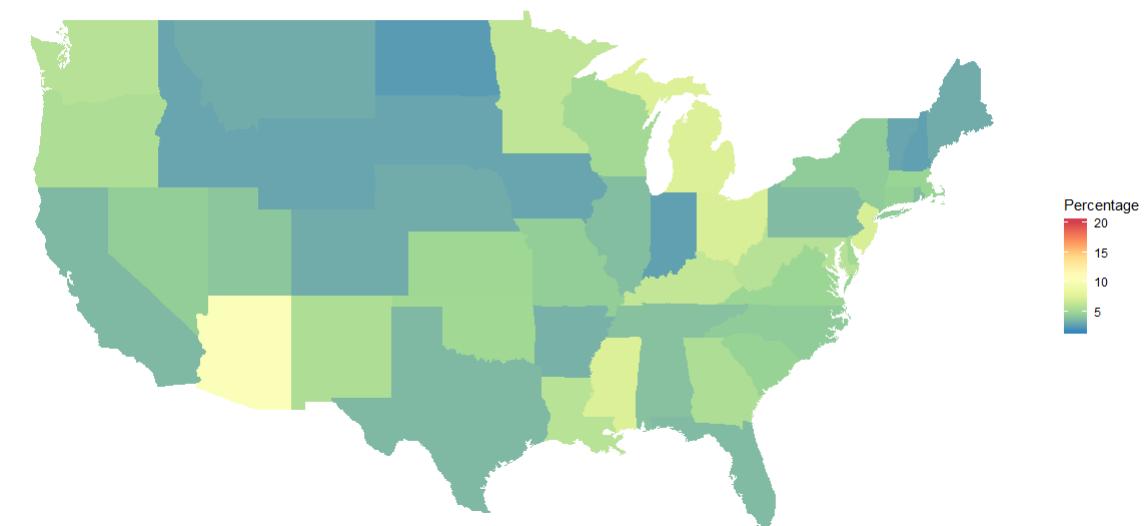
Average Number of Poor Mental Health Days (30-Days)



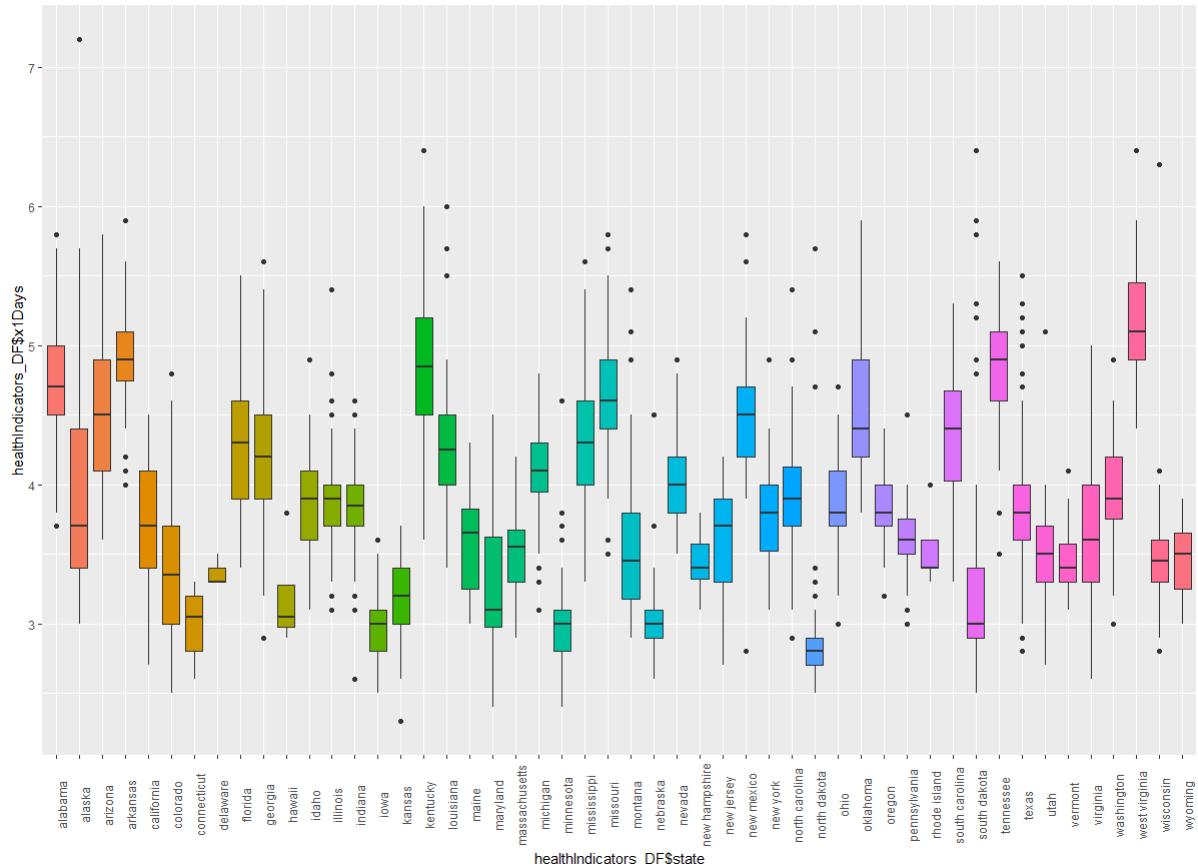
Percentage of Uninsured Persons under Age 65



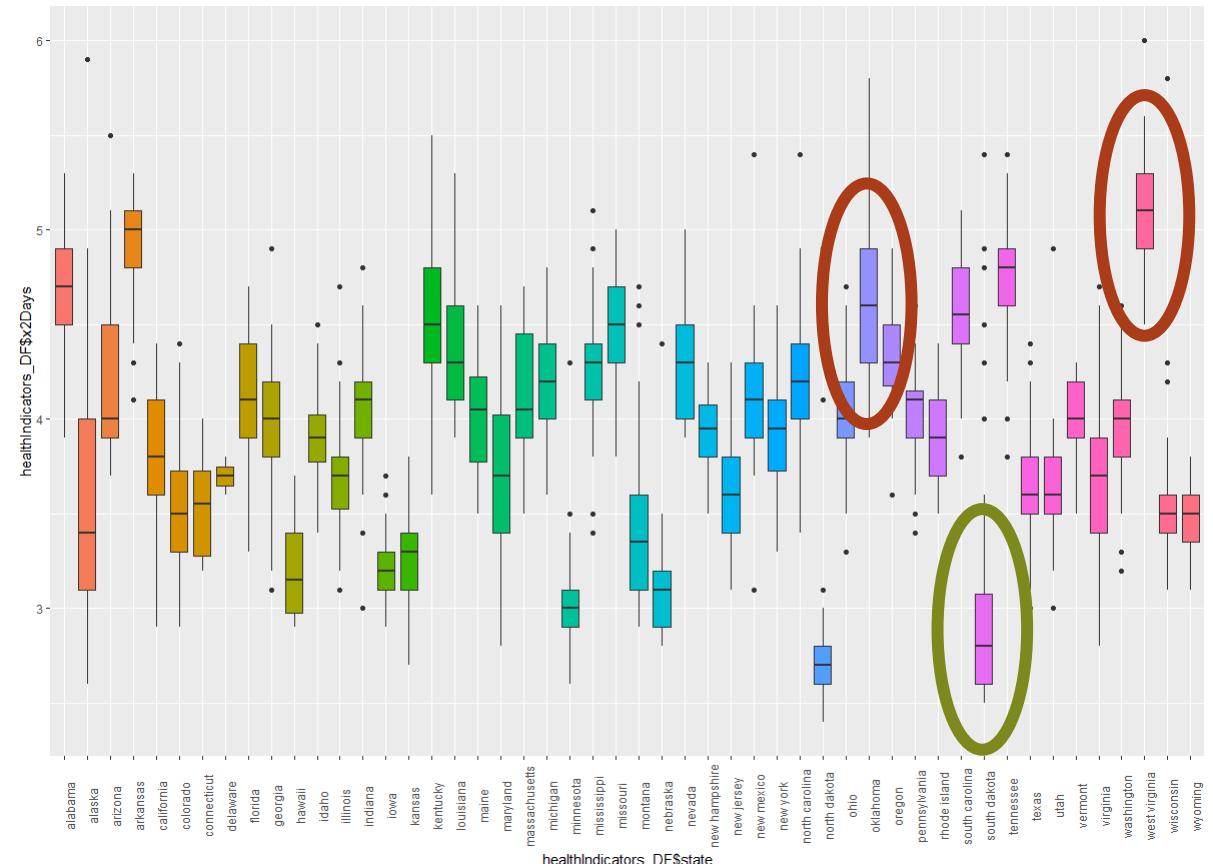
Percentage of Unemployed Persons over Age 16



Average Number of Poor Physical Health Days (30-Days)



Average Number of Poor Mental Health Days (30-Days)



The Words of Oklahoma

The Words of South Dakota

The Words of West Virginia

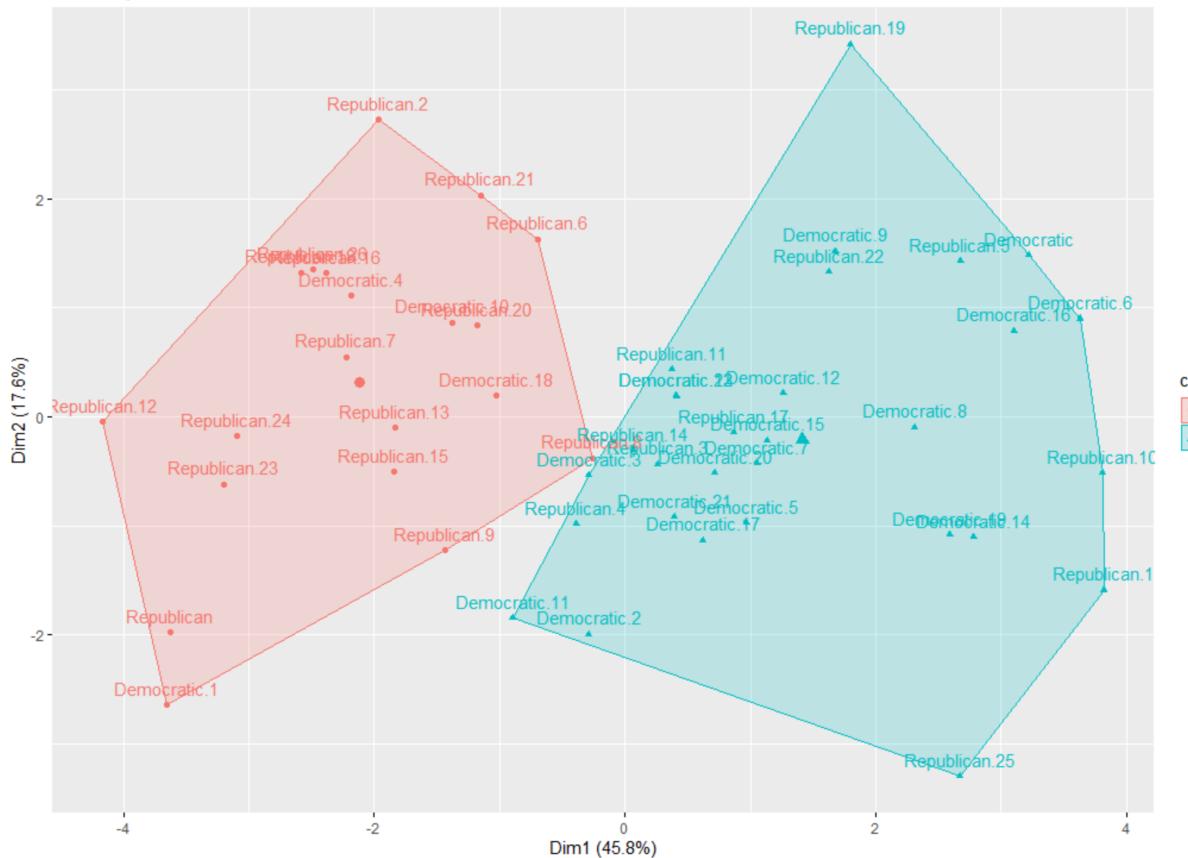
The sentiments of political parties.

Do political party positions, as expressed through their words, elicit certain emotions that may have an impact on our health and well-being?

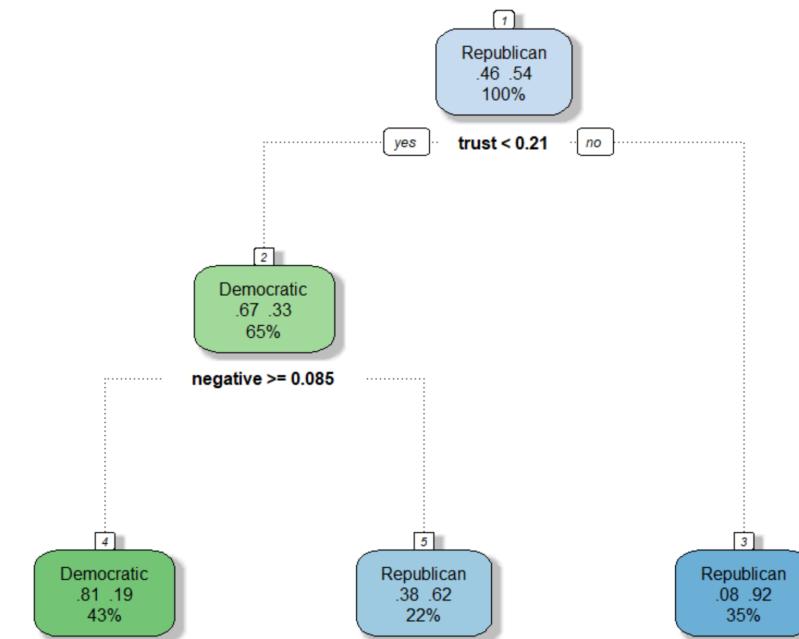


Political Affiliation Classified by Emotion

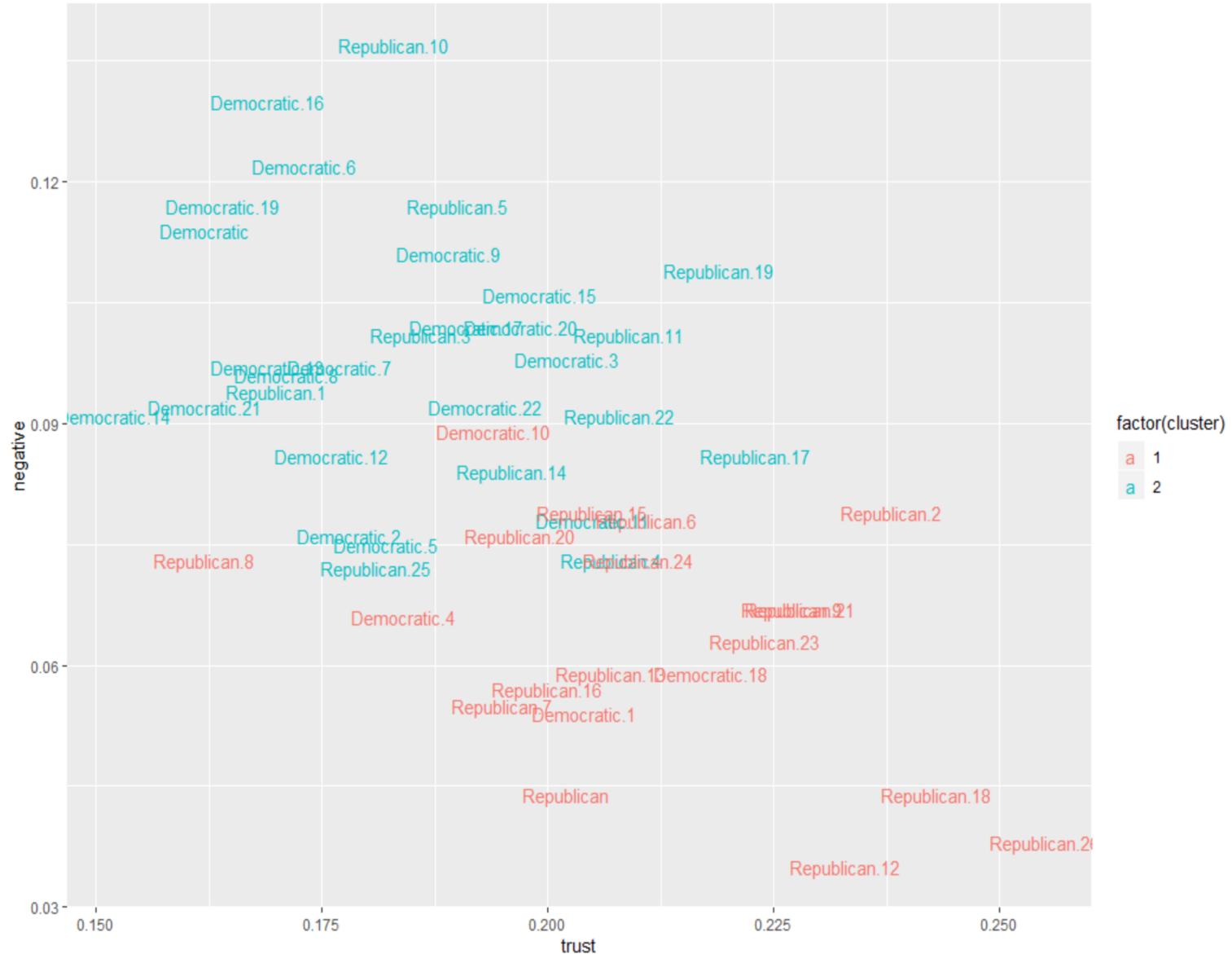
Cluster plot



Emotion and Sentiment that Signal State Political Affiliation



"**Emotion** refers to a complex psychological state such as happiness, anger, jealousy, grief, etc. **Sentiment**, on the other hand, can be defined as a mental attitude that is created through the existence of the emotion."



Measures of Trust and Negativity in a political speech can be applied differently by political parties and signal a general outlook for the state—a key contributor to personal well-being.

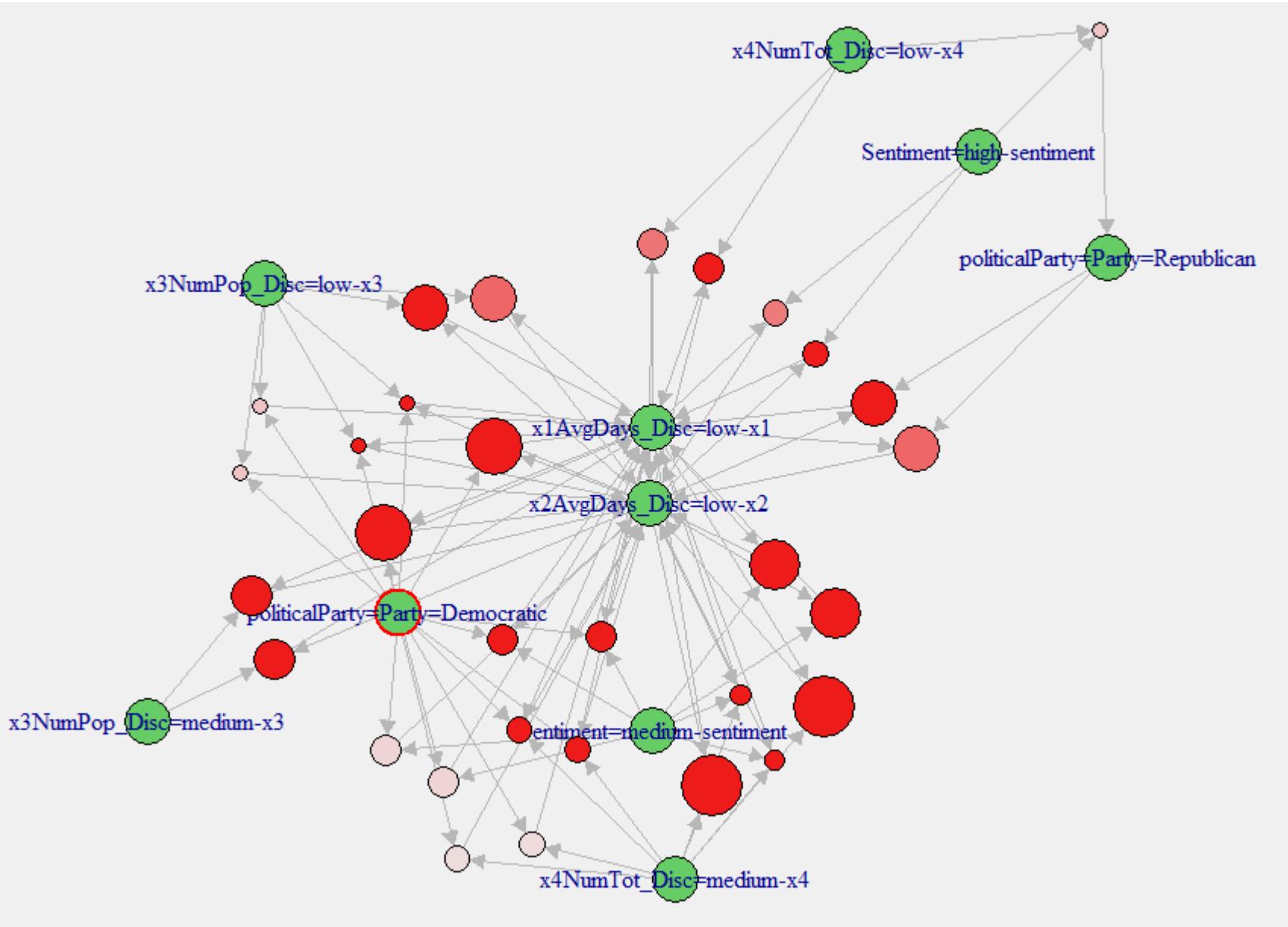
Our health and leader emotions.

Do certain emotions and sentiments, as shared by our leaders, persuade or constrain our general health and well-being?



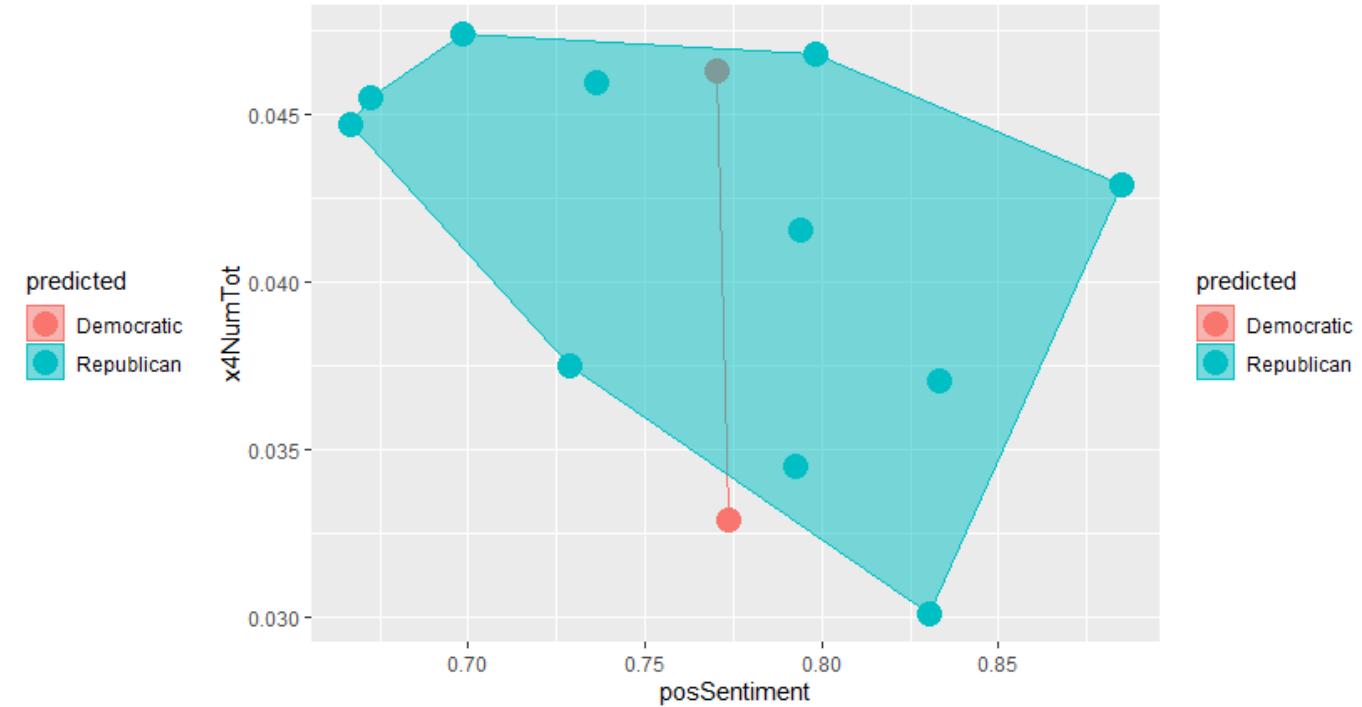
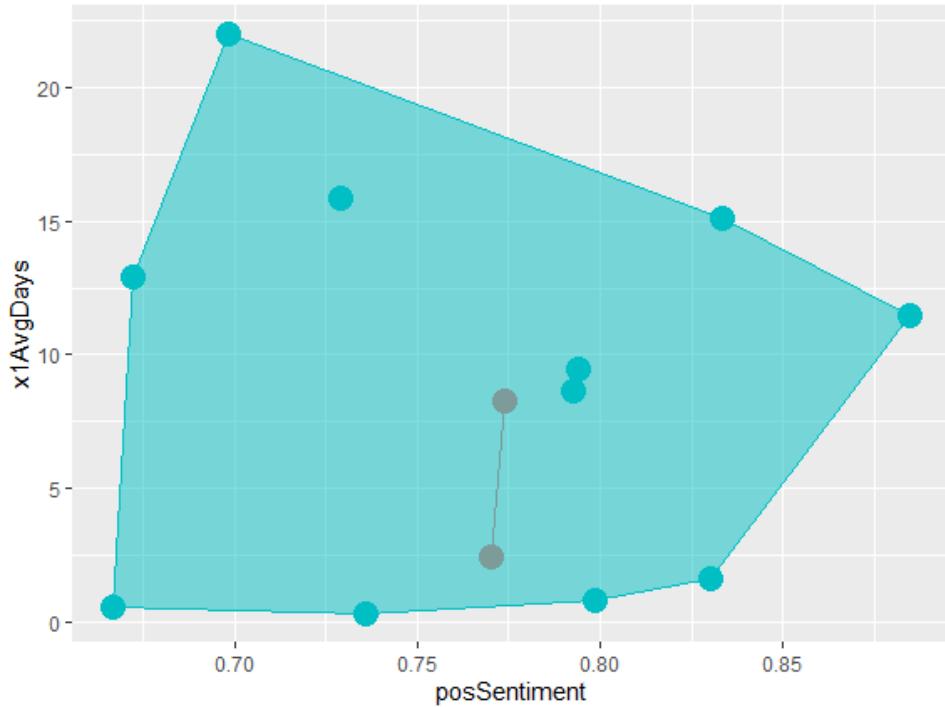
Can certain expressed emotions predict our general health and well-being status?

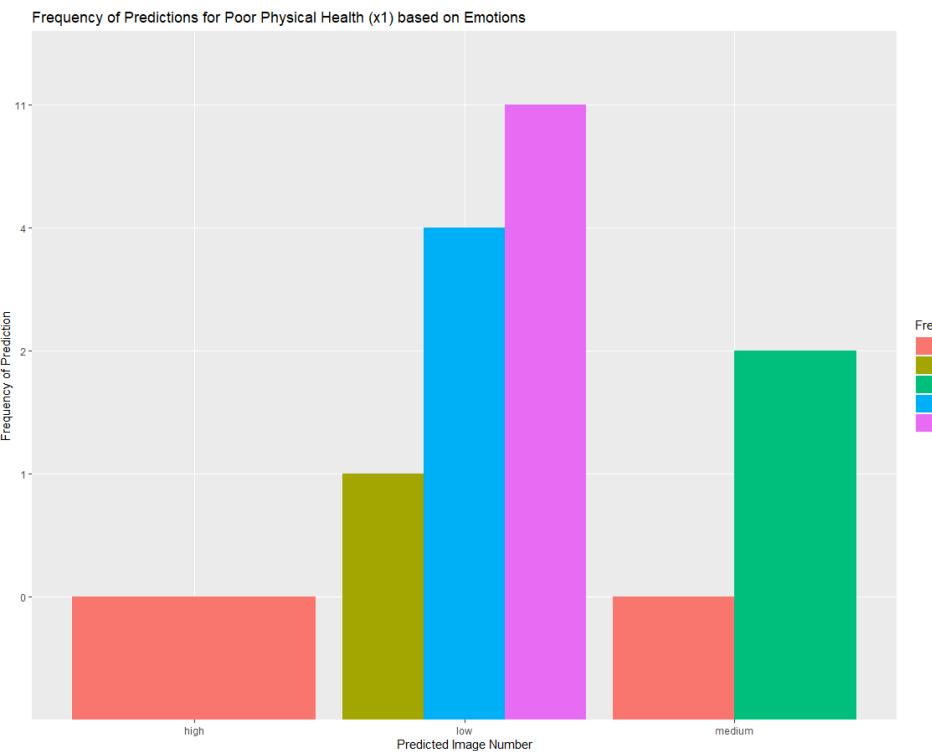
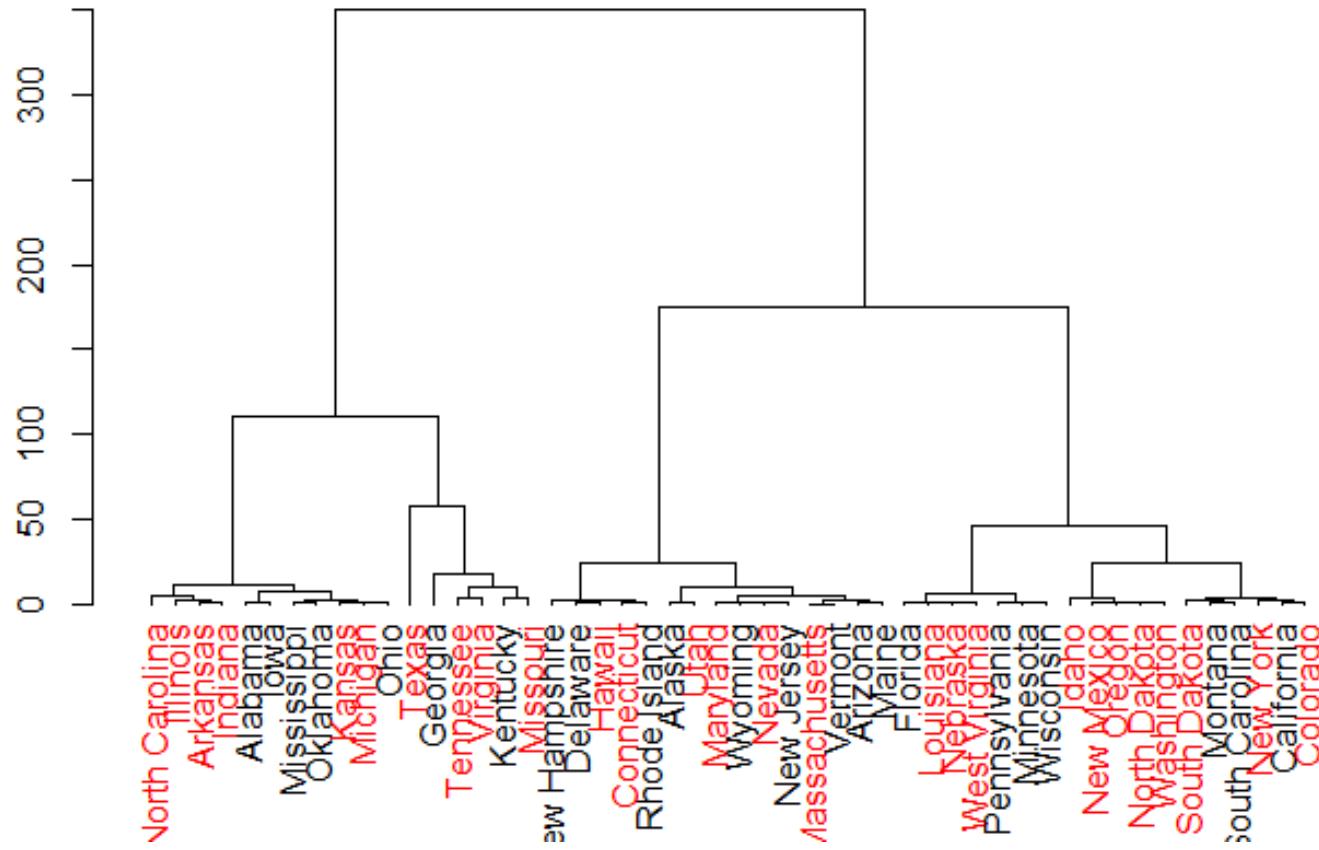




Certain rules can be discovered that associate Democratic party speeches with a broad range of health issues (uninsured, health and wellness, etc.) while Republican party speeches only associate with indicators of poor physical and mental health.

Overlapping **decision boundaries** indicate a similarity in sentiment regardless of population health. Only when supporting conditions are included does differentiation occur.





However, there is no evidence that speech sentiment or expressed emotion is a good predictor of population.

Political parties and our health.

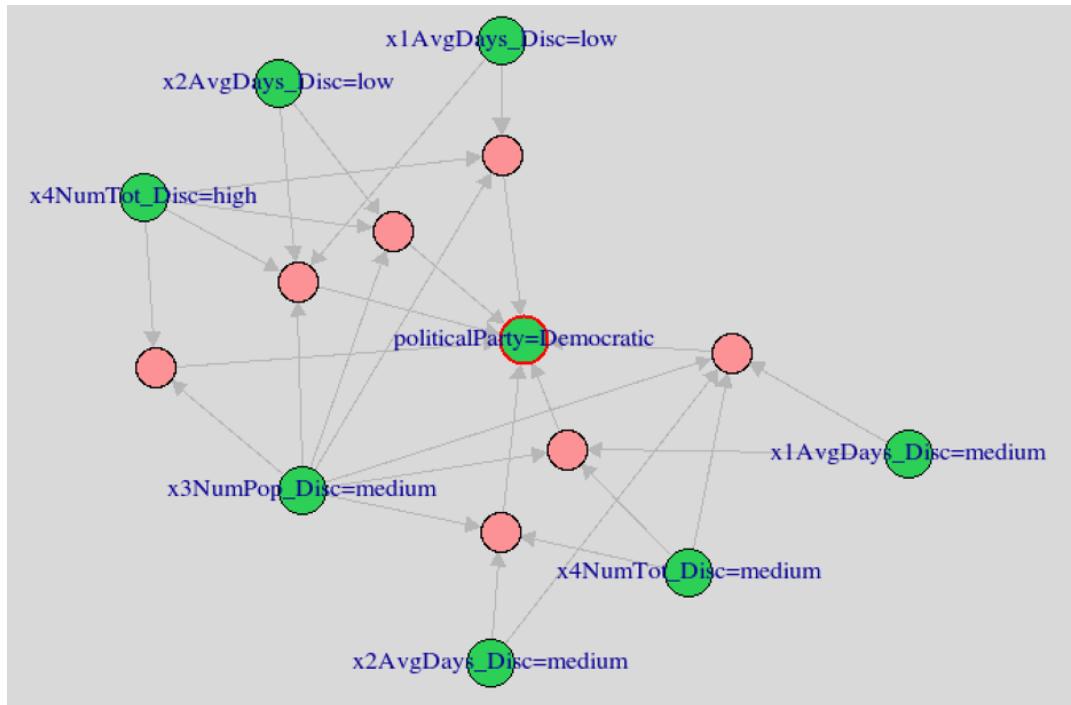
Can certain health indicators actually
be attributed to a specific political
party?



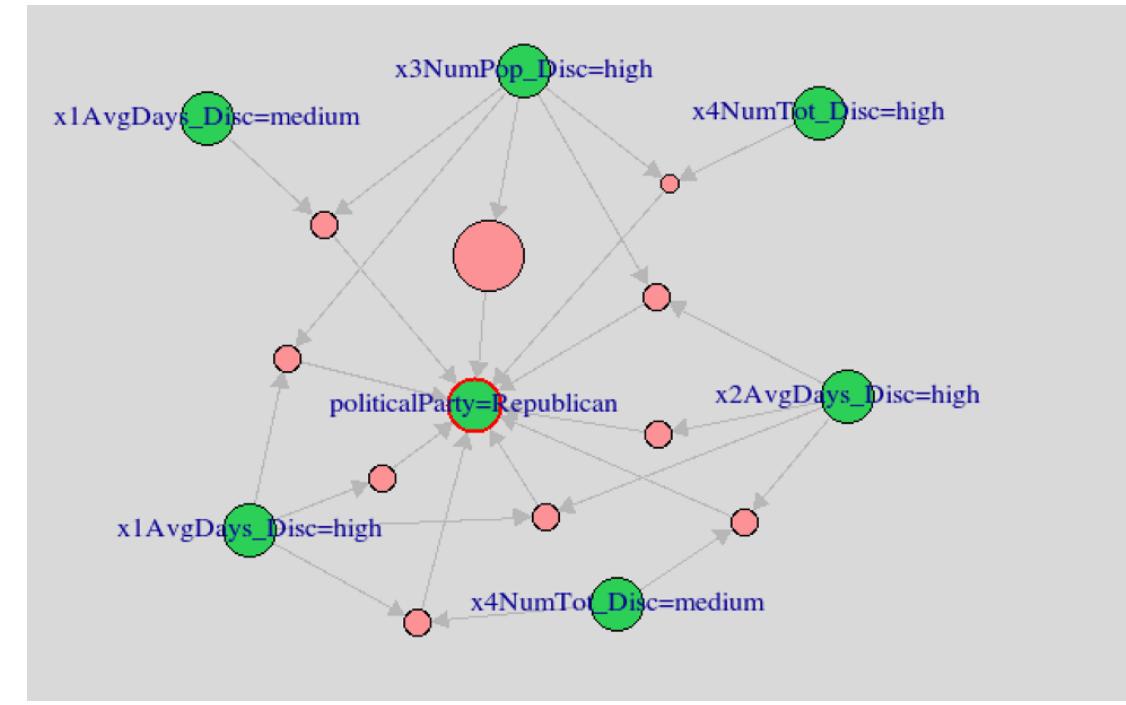
Do political parties recognize that they
are associated with specific health
and well-being conditions in states?



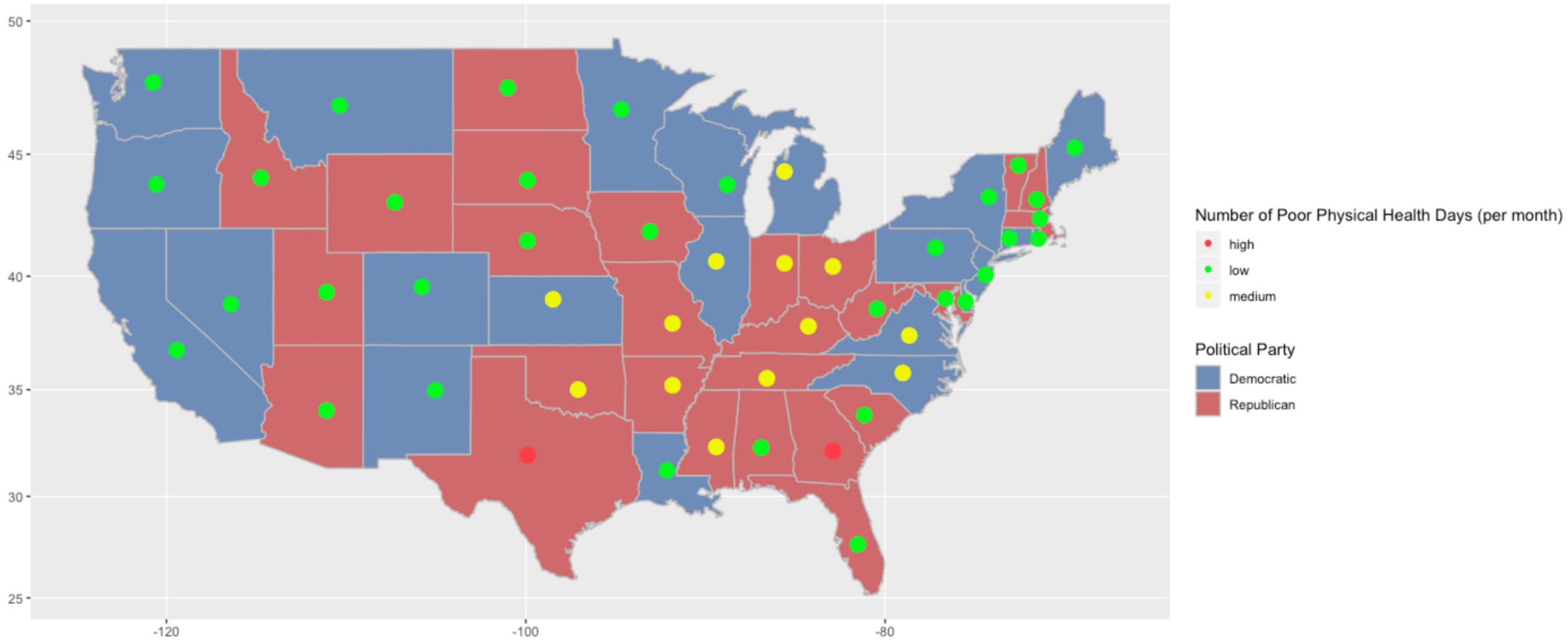
The Health Associations for Democrats



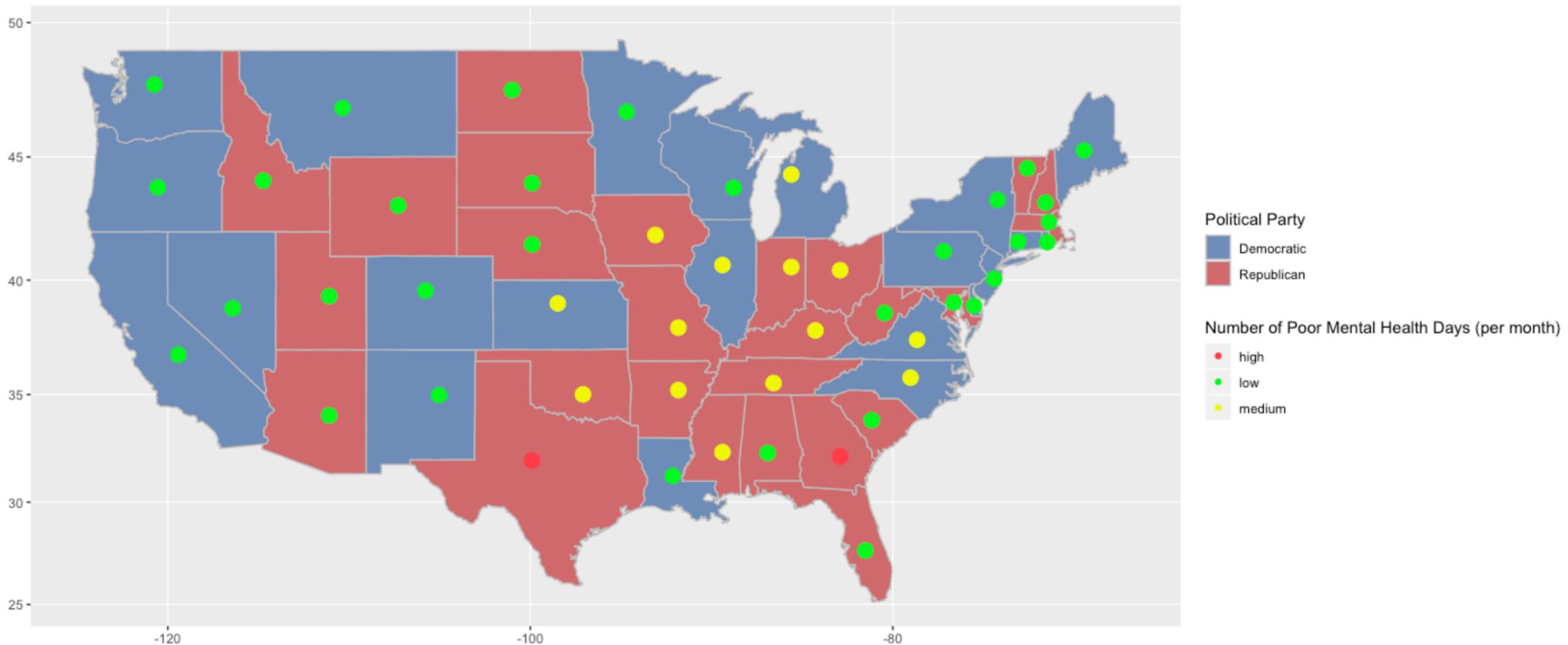
The Health Associations for Republicans

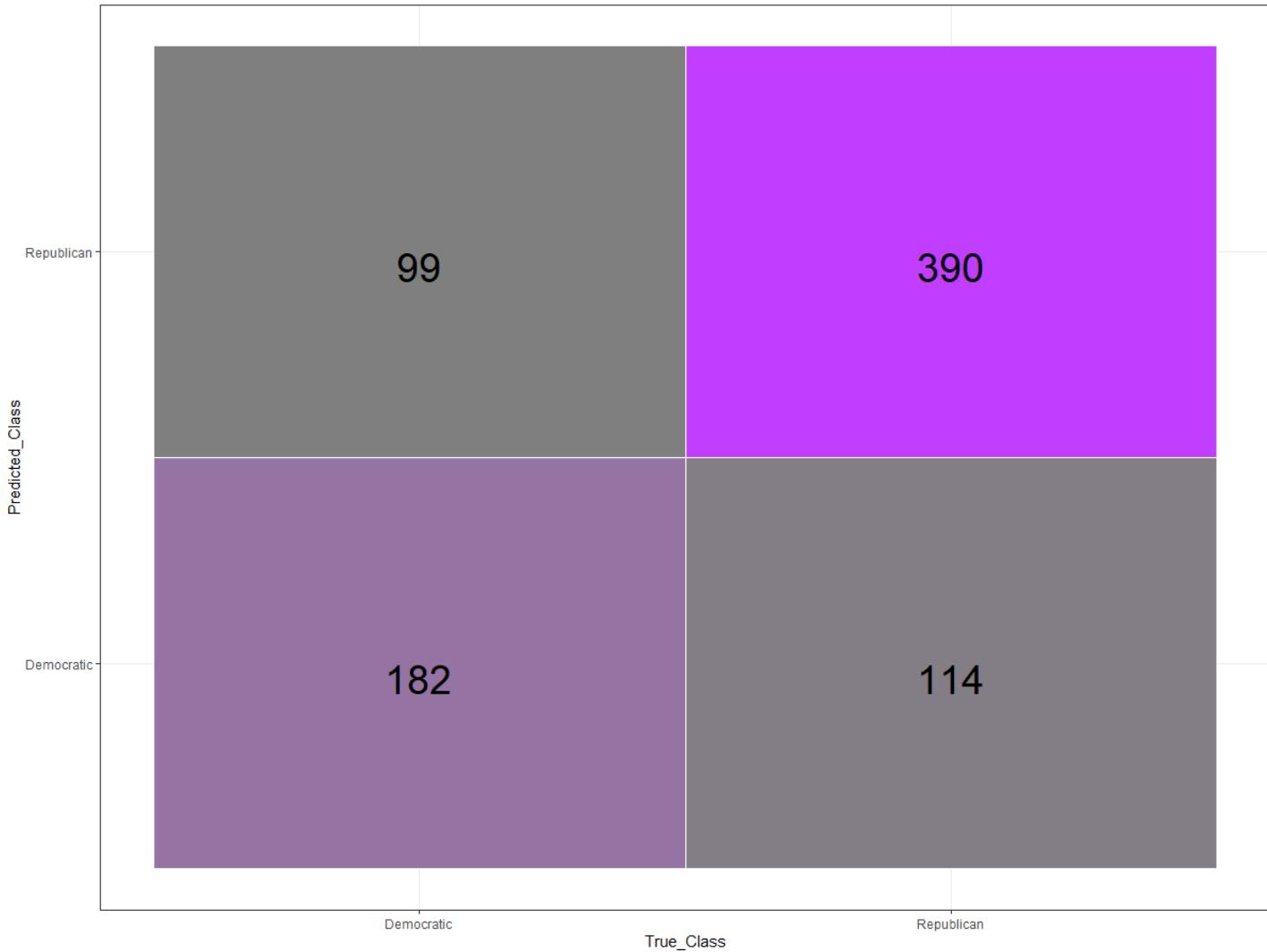


Poor Physical Health Days by State



Poor Mental Health Days by State





Predicting political party affiliation from health measures of 3,140 counties across the United States.

The selected health indicators predicted political classification with 72.86% accuracy.

Our conclusions.

There is no evidence that specific emotions and sentiments can accurately predict our general health and welfare.

There are distinct emotions and sentiments that appear to be associated with political party affiliation.

While emotions and sentiments expressed by political leaders are poor predictors of population health, select indicators and determinants of health can be used to classify political parties.