q12

September 17, 2023

1 An analysis of the individual voters in the 2016 USA Presidential Election

DISCLAIMER: I was not able to verify the complete validity of this data, so it may be biased towards those who answered the survey.

Furthermore, nothing here is a novel discovery, just a set of interesting observations.

- 1. The motivation of this analysis is to understand the demographics of individual voters in the 2016 USA Presidential Election. This dataset was chosen because it has several interesting features that can be analyzed. source: https://vincentarelbundock.github.io/Rdatasets/doc/stevedata/TV16.html Cooperative Congressional Election Study (CCES)
- 2. The data is mostly clean. There are some missing values for who was voted for, so I decided to drop those rows. I left other nulls as they do not grossly affect the analysis.
- 3. I have included more than 4 plots. Each plot has a clear purpose and takeaway. The plots demonstrate interesting aspects of the data.
- 4. See insights throughout the analysis.

1.1 Data Import and Cleanup

```
[]: import pandas as pd
  import numpy as np
  import plotly.express as px
  import matplotlib.pyplot as plt
  from IPython.display import Image

# Read the data
  voter_data = pd.read_csv('data/trum.csv')
```

```
[]: # drop rows where votetrump is null, keeping other nans since they wont impact_
the analysis much
voter_data = voter_data.dropna(subset=['votetrump'])
```

```
[]: # reset the index (also dropping uid column which is not needed)
voter_data = voter_data.drop(['uid'], axis=1)
voter_data = voter_data.reset_index(drop=True)
```

```
[]: voters_trump = voter_data[voter_data['votetrump'] == 1]
     voters_clinton = voter_data[voter_data['votetrump'] == 0]
     # ratio
     len(voters_clinton) / len(voters_trump)
[]: 1.3957344708077846
[]: voter_data.shape
[]: (44932, 20)
[]: voter_data.head()
[]:
                 state
                        votetrump
                                    age
                                         female
                                                  collegeed
                                                             racef
                                                                     famincr
                                                                               ideo
                                                             White
     0
        New Hampshire
                               1.0
                                     47
                                               1
                                                           0
                                                                          NaN
                                                                                3.0
     1
            Louisiana
                               1.0
                                               1
                                                             White
                                                                          6.0
                                                                                3.0
                                     22
                                                          0
     2
             Colorado
                               0.0
                                     34
                                               1
                                                             White
                                                                          7.0
                                                                                2.0
     3
                 Texas
                               1.0
                                     54
                                               0
                                                          0
                                                             White
                                                                          3.0
                                                                                5.0
                                                              White
     4
              Georgia
                               1.0
                                     53
                                               0
                                                                          4.0
                                                                                4.0
                            religimp
                                                   prayerfreq
                                                                angryracism
        pid7na
                bornagain
                                       churchatd
                                                                              whiteadv
     0
           5.0
                       0.0
                                  3.0
                                              1.0
                                                          3.0
                                                                        2.0
                                                                                   3.0
           4.0
     1
                       NaN
                                  NaN
                                             NaN
                                                          NaN
                                                                        1.0
                                                                                   4.0
     2
           2.0
                       0.0
                                  1.0
                                                          2.0
                                                                        2.0
                                              1.0
                                                                                   1.0
     3
           6.0
                       1.0
                                  4.0
                                              5.0
                                                          7.0
                                                                        2.0
                                                                                   5.0
     4
           7.0
                                  2.0
                                                          6.0
                       1.0
                                              3.0
                                                                        3.0
                                                                                   4.0
        fearraces
                                 lrelig
                                          lcograc
                   racerare
                                                     lemprac
     0
              1.0
                         3.0 -0.191681 0.475294 -0.138715
     1
              1.0
                                    NaN -0.185682 -0.619427
     2
              1.0
                         1.0 -1.130175 -1.204085 -0.138715
     3
              2.0
                             1.171097 0.508762 0.204095
     4
               1.0
                         2.0 -0.263387
                                        0.301278 0.070166
[]: voter_data.describe()
[]:
                                                 female
                                                             collegeed
                                                                              famincr
                votetrump
                                     age
                                          44932.000000
                                                         44932.000000
     count
            44932.000000
                           44932.000000
                                                                        40212.000000
                                                              0.409552
     mean
                 0.417409
                               51.887675
                                               0.545558
                                                                             6.661096
     std
                 0.493137
                               16.006674
                                               0.497926
                                                              0.491757
                                                                             3.133376
     min
                 0.00000
                               18.000000
                                               0.000000
                                                              0.000000
                                                                             1.000000
     25%
                               38.000000
                                                              0.000000
                                                                             4.000000
                 0.000000
                                               0.000000
     50%
                 0.000000
                               54.000000
                                               1.000000
                                                              0.00000
                                                                             6.000000
     75%
                 1.000000
                               64.000000
                                               1.000000
                                                              1.000000
                                                                             9.000000
     max
                 1.000000
                              95.000000
                                               1.000000
                                                              1.000000
                                                                            12.000000
                     ideo
                                  pid7na
                                             bornagain
                                                              religimp
                                                                            churchatd
```

count	43430.000000	44320.000000	44910.000000	44912.000000	44610.000000	
mean	3.025443	3.628046	0.273191	2.797983	2.903878	
std	1.109896	2.199976	0.445603	1.158270	1.699801	
min	1.000000	1.000000	0.000000	1.000000	1.000000	
25%	2.000000	1.000000	0.000000	2.000000	1.000000	
50%	3.000000	4.000000	0.000000	3.000000	2.000000	
75%	4.000000	6.000000	1.000000	4.000000	5.000000	
max	5.000000	7.000000	1.000000	4.000000	6.000000	
	prayerfreq	${\tt angryracism}$	whiteadv	fearraces	racerare	\
count	44028.000000	44885.000000	44880.000000	44832.000000	44846.000000	
mean	4.384642	1.677621	2.651114	2.132205	2.279980	
std	2.349439	0.961253	1.465142	1.130224	1.234908	
min	1.000000	1.000000	1.000000	1.000000	1.000000	
25%	2.000000	1.000000	1.000000	1.000000	1.000000	
50%	5.000000	1.000000	2.000000	2.000000	2.000000	
75%	7.000000	2.000000	4.000000	3.000000	3.000000	
max	7.000000	5.000000	5.000000	5.000000	5.000000	
	lrelig	lcograc	lemprac			
count	44928.000000	44931.000000	44930.000000			
mean	0.007330	-0.011388	-0.010587			
std	0.948422	0.826406	0.471285			
min	-1.584900	-1.204085	-0.619427			
25%	-0.637953	-0.643632	-0.619427			
50%	0.060855	-0.005524	0.052228			
75%	0.746089	0.508762	0.271789			
max	1.696614	1.841226	1.386214			

The features are as follows:

Column	
Name	Description
state	A character vector for the state in which the respondent resides
votetrump	A numeric that equals 1 if the respondent says s/he voted for Trump in 2016
age	A numeric vector for age, roughly calculated as 2016 - birthyr
female	A numeric that equals 1 if the respondent is a woman
collegeed	A numeric vector that equals 1 if the respondent says s/he has a college degree
racef	A character vector for the race of the respondent
famincr	A numeric vector for the respondent's household income, ranging from 1 to 12
ideo	A numeric vector for the respondent's ideology, ranging from 1 (very liberal) to 5 (very conservative)
pid7na	A numeric vector for the respondent's partisanship, ranging from 1 to 7
bornagain	A numeric vector for whether the respondent self-identifies as a born-again
	Christian
religimp	A numeric vector for the importance of religion to the respondent, ranging from 1
	to 4

Column	
Name	Description
churchatd prayerfreq	A numeric vector for the extent of church attendance, ranging from 1 to 6 A numeric vector for the frequency of prayer, ranging from 1 to 7
angryracism	A numeric vector for how angry the respondent is that racism exists, ranging from 1 to 5
whiteadv	A numeric vector for agreement with the statement that white people have advantages, ranging from 1 to 5
fearraces	A numeric vector for agreement with the statement that the respondent fears other races, ranging from 1 to 5 $$
racerare	A numeric vector for agreement with the statement that racism is rare in the U.S., ranging from 1 to 5
lrelig	A numeric vector that serves as a latent estimate for religiosity
lcograc	A numeric vector that serves as a latent estimate for cognitive racism
lemprac	A numeric vector that serves as a latent estimate for empathetic racism

We can now explore the relation between the features and the voting results.

Code below for assistance with the analysis

```
[]: feature_desc_dict = {
         'state': 'State of Residence',
         'votetrump': 'Voted for Trump',
         'age': 'Age at time of vote',
         'female': 'Is a Woman',
         'collegeed': 'Has a College Education',
         'racef': 'Race of Voter',
         'famincr': 'Household Income (1 to 12)',
         'ideo': 'Ideology (1 lib to 5 con)',
         'pid7na': 'Partisanship (1 to 7)',
         'bornagain': 'Born Again Christian',
         'religimp': 'Importance of Religion (1 to 4)',
         'churchatd': 'Church Attendance (1 to 6)',
         'prayerfreq': 'Frequency of Prayer (1 to 7)',
         'angryracism': 'Angry that Racism exists (1 to 5)',
         'whiteadv': 'Agree Whites have advantages (1 to 5)',
         'fearraces': 'Fear of other Races (1 to 5)',
         'racerace': 'Agree that racism is rare in the US (1 to 5)',
         'lrelig': 'Latent Estimate of Religiosity',
         'lcograc': 'Latent Estimate of Cognitive Racism',
         'lemprac': 'Latent Estimate of Empathetic Racism',
         'avg_racism': 'Average of Cognitive and Empathetic Racism',
     }
     # Dictionary to map full state names to two-letter abbreviations
     state_abbrev = {
```

```
'Alabama': 'AL', 'Alaska': 'AK', 'Arizona': 'AZ', 'Arkansas': 'AR', 🗆
 ⇔'California': 'CA',
    'Colorado': 'CO', 'Connecticut': 'CT', 'Delaware': 'DE', 'District of
 ⇔Columbia': 'DC',
    'Florida': 'FL', 'Georgia': 'GA', 'Hawaii': 'HI', 'Idaho': 'ID', 'Illinois':
    'Indiana': 'IN', 'Iowa': 'IA', 'Kansas': 'KS', 'Kentucky': 'KY',
 'Maine': 'ME', 'Maryland': 'MD', 'Massachusetts': 'MA', 'Michigan': 'MI', "
 'Mississippi': 'MS', 'Missouri': 'MO', 'Montana': 'MT', 'Nebraska': 'NE', 🗆

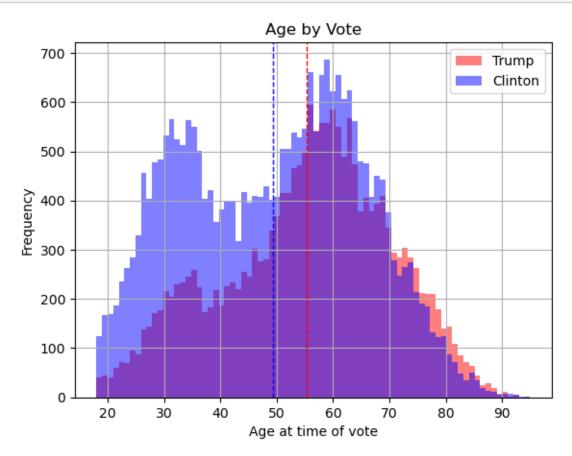
    'Nevada': 'NV',
    'New Hampshire': 'NH', 'New Jersey': 'NJ', 'New Mexico': 'NM', 'New York':
 \hookrightarrow 'NY',
    'North Carolina': 'NC', 'North Dakota': 'ND', 'Ohio': 'OH', 'Oklahoma': U
 'Pennsylvania': 'PA', 'Rhode Island': 'RI', 'South Carolina': 'SC', 'South
 ⇔Dakota': 'SD',
    'Tennessee': 'TN', 'Texas': 'TX', 'Utah': 'UT', 'Vermont': 'VT', 'Virginia':
 → 'VA',
    'Washington': 'WA', 'West Virginia': 'WV', 'Wisconsin': 'WI', 'Wyoming': U
\hookrightarrow ' WY '
}
# histogram comparison function
def histo_compare(t_df, c_df, stat, title, nbins=20):
   t df[stat].hist(bins=nbins, alpha=0.5, label='Trump', color='red')
    c_df[stat].hist(bins=nbins, alpha=0.5, label='Clinton', color='blue')
   plt.legend(loc='upper right')
   plt.title(title)
   plt.xlabel(feature_desc_dict[stat])
   plt.ylabel('Frequency')
    # show the average
   plt.axvline(t_df[stat].mean(), color='red', linestyle='dashed', linewidth=1)
   plt.axvline(c_df[stat].mean(), color='blue', linestyle='dashed',__
 →linewidth=1)
# function for trump_v_clinton pie charts
def piechart_compare(t_df, c_df, stat, title):
   labels = 'Trump', 'Clinton'
   sizes = [t df[stat].mean(), c df[stat].mean()]
    colors = ['red', 'blue']
    explode = (0, 0.1) # explode 1st slice
```

```
plt.pie(sizes, explode=explode, labels=labels, colors=colors, autopct='%1.
 →1f\%', shadow=True, startangle=140)
   plt.axis('equal')
   plt.title(title)
   plt.show()
def pie_percentage(percent_yes, percent_no, labels, colors, title):
    sizes = [percent_yes, percent_no]
   explode = (0, 0.1)
   plt.pie(sizes, explode=explode, labels=labels, colors=colors, autopct='%1.
 →1f%%', shadow=True, startangle=140)
   plt.axis('equal')
   plt.title(title)
   plt.show()
def choropleth_vote_data(df, feature, color_scale='tropic'):
    state_avg_data = df.groupby('state_abbrev')[feature].mean().reset_index()
   fig = px.choropleth(state_avg_data,
                    locations='state_abbrev',
                    locationmode="USA-states",
                    color=feature,
                    color_continuous_scale=color_scale,
                    scope="usa",
                    labels={feature: feature_desc_dict[feature]},
                    title='Average {} by U.S. State'.
 →format(feature desc dict[feature]))
   fig.update_layout(width=1000, height=600, dragmode=False)
   # show average on legend
   fig.add_annotation(text='Average: {:.2f}'.format(state_avg_data[feature].
 \negmean()), x=0.5, y=-0.1, showarrow=False, yshift=10)
    # save as pnq
   fig.write_image('../img/choropleth_{{}}.png'.format(feature))
    # fig.show()
voter_data['state_abbrev'] = voter_data['state'].map(state_abbrev)
voter_data['avg_racism'] = (voter_data['lcograc'] + voter_data['lemprac']) / 2
# correlation matrix, ignore state_abbrev and state
corr = voter_data.drop(['state_abbrev', 'state', 'racef'], axis=1).corr()
corr.style.background_gradient(cmap='coolwarm')
```

[]: <pandas.io.formats.style.Styler at 0x1b997438cd0>

```
[]: histo_compare(voters_trump, voters_clinton, 'age', 'Age by Vote', nbins=1 +

→voters_trump['age'].max() - voters_clinton['age'].min())
```



The age distribution above highlights the overall age difference of Trump voters vs Clinton voters. It illustrates that, on average, voters for Trump were older than their Clinton voting counterparts, although not by much.

```
[]: # percentages of non white voters
non_white_trump = voters_trump[voters_trump['racef'] != 'White']
non_white_clinton = voters_clinton[voters_clinton['racef'] != 'White']
trump_nonwhite_vote_percent = len(non_white_trump) / len(voters_trump)
clinton_nonwhite_vote_percent = len(non_white_clinton) / len(voters_clinton)
trump_white_vote_percent = 1 - trump_nonwhite_vote_percent
clinton_white_vote_percent = 1 - clinton_nonwhite_vote_percent

# percentage religious more than average
religious_trump = voters_trump[voters_trump['lrelig'] > 0]
religious_clinton = voters_clinton[voters_clinton['lrelig'] > 0]
trump_religious_vote_percent = len(religious_trump) / len(voters_trump)
clinton_religious_vote_percent = len(religious_clinton) / len(voters_clinton)
```

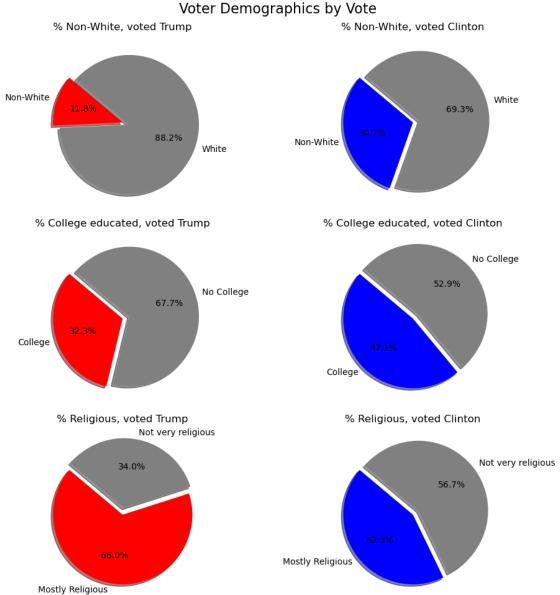
```
trump_nonreligious_vote_percent = 1 - trump_religious_vote_percent
clinton_nonreligious_vote_percent = 1 - clinton_religious_vote_percent

# percentage college educated
college_trump = voters_trump[voters_trump['collegeed'] == 1]
college_clinton = voters_clinton[voters_clinton['collegeed'] == 1]
trump_college_yes = len(college_trump) / len(voters_trump)
clinton_college_yes = len(college_clinton) / len(voters_clinton)
trump_college_no = 1 - trump_college_yes
clinton_college_no = 1 - clinton_college_yes

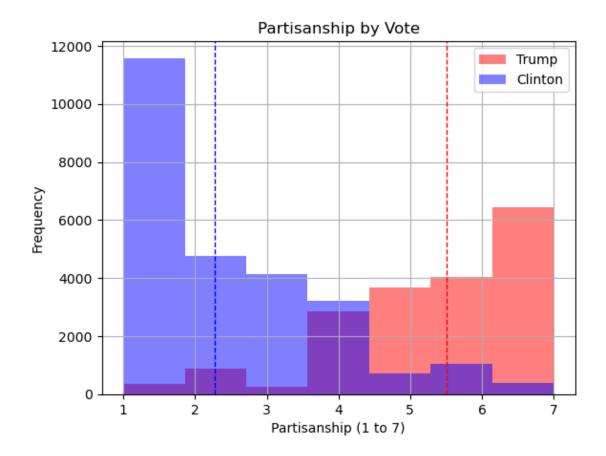
trump_colors = ['red', 'gray']
clinton_colors = ['blue', 'gray']
labels = 'Non-White', 'White'
```

```
[]: # pie chart grid
     fig = plt.figure(figsize=(10,10))
     fig.suptitle('Voter Demographics by Vote', fontsize=16)
     explode = (0, 0.1) # explode 1st slice
     # row 1
     ax1 = fig.add_subplot(3,2,1)
     ax1.pie([trump_nonwhite_vote_percent, trump_white_vote_percent],_
      ⇔labels=['Non-White', 'White'], colors=trump_colors, autopct='%1.1f%%', __
     ⇒shadow=True, startangle=140, explode=explode)
     ax1.set_title('% Non-White, voted Trump')
     ax2 = fig.add subplot(3,2,2)
     ax2.pie([clinton_nonwhite_vote_percent, clinton_white_vote_percent],__
     ⇒labels=['Non-White', 'White'], colors=clinton_colors, autopct='%1.1f%%', __
     ⇒shadow=True, startangle=140, explode=explode)
     ax2.set_title('% Non-White, voted Clinton')
     # row 2
     ax3 = fig.add_subplot(3,2,3)
     ax3.pie([trump_college_yes, trump_college_no], labels=['College', 'Nou
     College'], colors=trump_colors, autopct='%1.1f%%', shadow=True,
     ⇒startangle=140, explode=explode)
     ax3.set title('% College educated, voted Trump')
     ax4 = fig.add_subplot(3,2,4)
     ax4.pie([clinton_college_yes, clinton_college_no], labels=['College', 'No_
     □ College'], colors=clinton_colors, autopct='%1.1f%%', shadow=True,
     ⇔startangle=140, explode=explode)
     ax4.set_title('% College educated, voted Clinton')
     # row 3
     ax5 = fig.add_subplot(3,2,5)
     ax5.pie([trump_religious_vote_percent, trump_nonreligious_vote_percent],_
     ⇔labels=['Mostly Religious', 'Not very religious'], colors=trump_colors, ⊔
     autopct='%1.1f%%', shadow=True, startangle=140, explode=explode)
     ax5.set_title('% Religious, voted Trump')
```

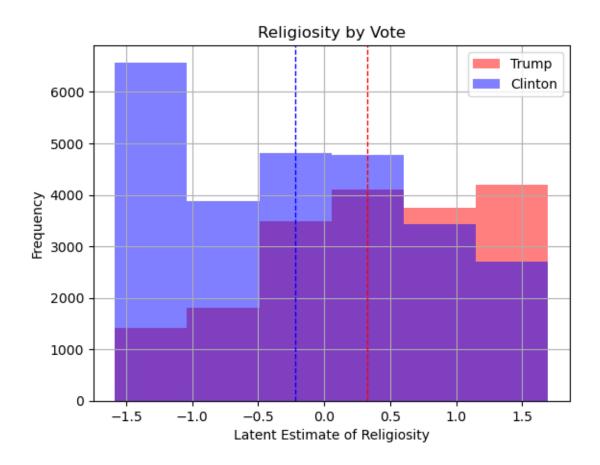
```
ax6 = fig.add_subplot(3,2,6)
ax6.pie([clinton_religious_vote_percent, clinton_nonreligious_vote_percent],__
 ⇔labels=['Mostly Religious', 'Not very religious'], colors=clinton_colors, ⊔
 →autopct='%1.1f%%', shadow=True, startangle=140, explode=explode)
ax6.set_title('% Religious, voted Clinton')
plt.tight_layout()
plt.show()
```



[]: histo_compare(voters_trump, voters_clinton, 'pid7na', 'Partisanship by Vote', __ ⊶nbins=7)

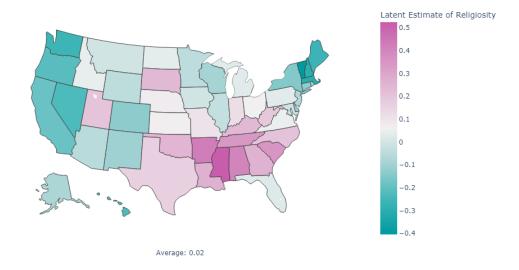


[]: histo_compare(voters_trump, voters_clinton, 'lrelig', 'Religiosity by Vote', upon bins=6)



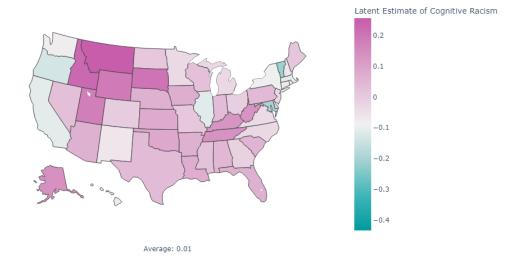
```
[]: choropleth_vote_data(voter_data, 'lrelig')

# show the png
Image('../img/choropleth_lrelig.png')
```



Religiosity refers to the quality of being religious or the degree of involvement, commitment, and devotion an individual has toward religious beliefs, practices, and rituals. It encompasses a range of dimensions including doctrinal beliefs, moral codes, religious experiences, and the frequency with which one engages in religious activities like prayer, worship, or reading sacred texts.

```
[]: choropleth_vote_data(voter_data, 'lcograc')
Image('../img/choropleth_lcograc.png')
```

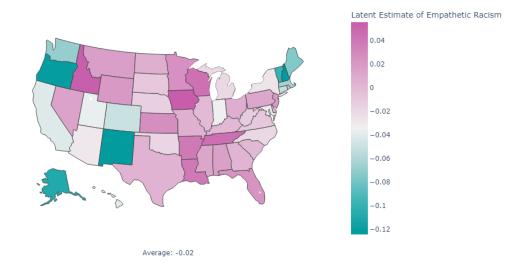


Cognitive racism refers to the manifestation of racist attitudes or beliefs in the cognitive processes or intellectual reasoning of individuals. Unlike overt or explicit forms of racism, which may involve blatant acts of discrimination or hate speech, cognitive racism is often subtle and may not be outwardly expressed. It can be characterized by internalized stereotypes, unconscious biases, and ingrained perceptions that influence how a person thinks about, interprets, or interacts with people from different racial or ethnic groups.

For example, a person might hold an unconscious bias that leads them to perceive individuals of a particular race as more threatening or less competent, even if they do not openly express or act on these beliefs. These cognitive biases can shape various aspects of life, including interpersonal interactions, employment decisions, and law enforcement practices, among other things.

source - internet

```
[]: choropleth_vote_data(voter_data, 'lemprac')
Image('../img/choropleth_lemprac.png')
```



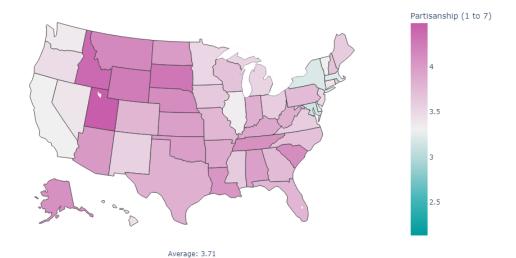
The term "empathetic racism" isn't as commonly used or formally defined as other types of racism, but it generally refers to a situation where someone expresses empathy or kindness toward a person of another race but does so in a way that still perpetuates racial stereotypes or inequalities. Essentially, empathetic racism involves having good intentions but applying them in a way that is ultimately paternalistic, condescending, or perpetuating of racial bias.

For example, if someone helps a person of a different race in a manner that assumes the latter is helpless or incapable due to their racial background, this could be considered empathetic racism. The person offering help may genuinely believe they are doing something positive, but the underlying assumptions about race can still contribute to systemic inequality.

Another example might be when people express sympathy for what they perceive as the "plight" of a racial or ethnic group and take it upon themselves to act as a "savior" without truly understanding the lived experiences or perspectives of those they are trying to help. This can perpetuate a power imbalance and reinforce stereotypes that people of that race or ethnicity are in need of saving, rather than capable of advocating for themselves.

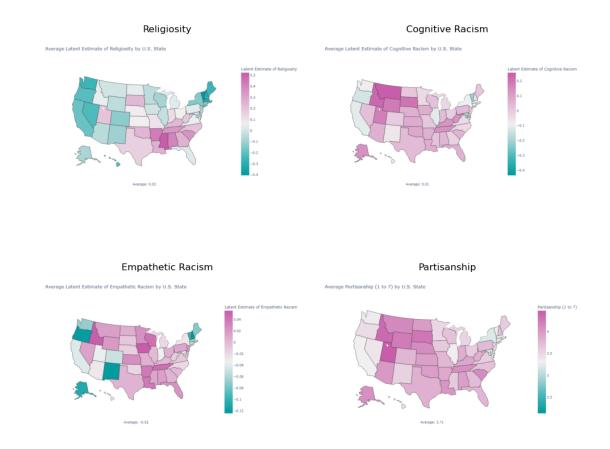
source - internet

```
[]: choropleth_vote_data(voter_data, 'pid7na')
Image('../img/choropleth_pid7na.png')
```



```
[]: # choropleth image grid
     fig = plt.figure(figsize=(10,10))
     fig.suptitle('Maps by Vote', fontsize=10)
     ax1 = fig.add_subplot(2,2,1)
     ax1.imshow(plt.imread('../img/choropleth_lrelig.png'))
     ax1.axis('off')
     ax1.set_title('Religiosity')
     ax2 = fig.add_subplot(2,2,2)
     ax2.imshow(plt.imread('../img/choropleth_lcograc.png'))
     ax2.axis('off')
     ax2.set_title('Cognitive Racism')
     # row 2
     ax3 = fig.add_subplot(2,2,3)
     ax3.imshow(plt.imread('../img/choropleth_lemprac.png'))
     ax3.axis('off')
     ax3.set_title('Empathetic Racism')
     ax4 = fig.add_subplot(2,2,4)
     ax4.imshow(plt.imread('../img/choropleth_pid7na.png'))
     ax4.axis('off')
     ax4.set_title('Partisanship')
     plt.tight_layout()
     plt.show()
```

Maps by Vote



As can be seen above, partisanship in the USA is alive and well. The division between party ideals played a major role in the 2016 election, and was probably more extreme for 2020, and will be even more extreme by 2024.

```
[]: for col in ['bornagain', 'religimp', 'churchatd', 'prayerfreq', 'angryracism', □

→'whiteadv', 'fearraces']:

choropleth_vote_data(voter_data, col)

[]: # regression line
```

```
fig = px.scatter(voter_data, x='lrelig', y='lcograc', color='votetrump', u color_continuous_scale='tropic', trendline='ols', title='Religiosity vsu Cognitive Racism by Vote')

fig.update_layout(width=1000, height=600, dragmode=False)

# change x and y titles

fig.update_xaxes(title_text=feature_desc_dict['lrelig'])

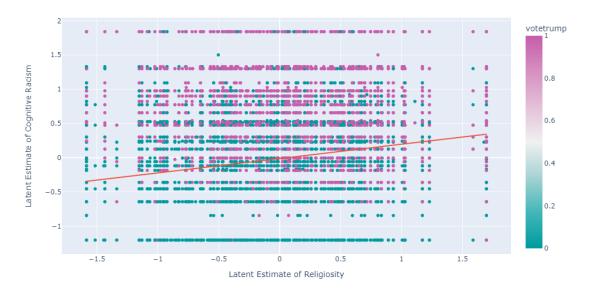
fig.update_yaxes(title_text=feature_desc_dict['lcograc'])

# save and show image
```

```
fig.write_image('../img/regression_lrelig_lcograc.png')
Image('../img/regression_lrelig_lcograc.png')
```

[]:

Religiosity vs Cognitive Racism by Vote



The scatterplot above breaks down the correlation between Religiosity and Cognitive Racism, with the data points colored by who voted. The orange trendline shows that cognitive racism scales positively with religiosity. The density of data point colors make it clear that Trump voters are more likely to be more cognitively racist than Clinton voters, as well as more religious. However, the data also shows that there are Clinton voters who are also cognitively racist and religious, so it is not a perfect correlation.

```
rfc = RandomForestClassifier(n_estimators=100, random_state=42)
rfc.fit(X_train, y_train)
# get feature importances
feature_importances = pd.DataFrame(rfc.feature_importances_, index=X_train.
 ⇔columns, columns=['importance']).sort_values('importance', ascending=False)
feature importances['importance'] = feature importances['importance'].
 \rightarrowmap(lambda x: '{:.2f}'.format(x))
feature_importances['importance'] = feature_importances['importance'].
 ⇔astype(float)
# rename index based on feature_desc_dict
feature_importances = feature_importances.rename(index=feature_desc_dict)
# accuracy
y_pred = rfc.predict(X_test)
accuracy = accuracy_score(y_test, y_pred)
accuracy = '{:.3f}'.format(accuracy)
accuracy = float(accuracy) * 100
print('Accuracy: {:.2f}%'.format(accuracy))
feature_importances
```

Accuracy: 89.20%

[]:	importance
Partisanship (1 to 7)	0.31
Ideology (1 lib to 5 con)	0.11
Agree Whites have advantages (1 to 5)	0.10
Average of Cognitive and Empathetic Racism	0.09
Latent Estimate of Cognitive Racism	0.07
Age at time of vote	0.06
Latent Estimate of Religiosity	0.04
Household Income (1 to 12)	0.04
Angry that Racism exists (1 to 5)	0.03
Latent Estimate of Empathetic Racism	0.03
racerare	0.02
Frequency of Prayer (1 to 7)	0.02
Church Attendance (1 to 6)	0.02
Importance of Religion (1 to 4)	0.01
Fear of other Races (1 to 5)	0.01
Is a Woman	0.01
Has a College Education	0.01
Born Again Christian	0.01

A random forest classifier uses an ensemble method of decision trees to classify data. It is a supervised learning algorithm that can be used for both classification and regression tasks. I am using it for binary classification to predict whether a voter voted for Trump or Clinton based on

the other features. A chart of the most important features is shown below.

[]:

Feature Importances

