



# Final Project

**Adriana Betancourt**

**Alexandria Morgan**

**Nathan Allen**

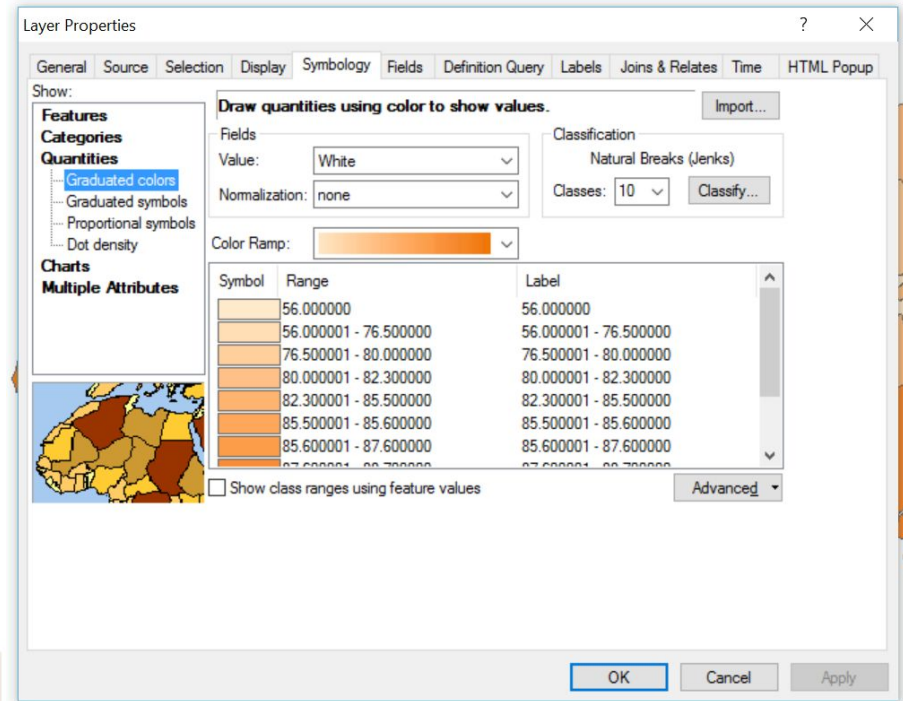
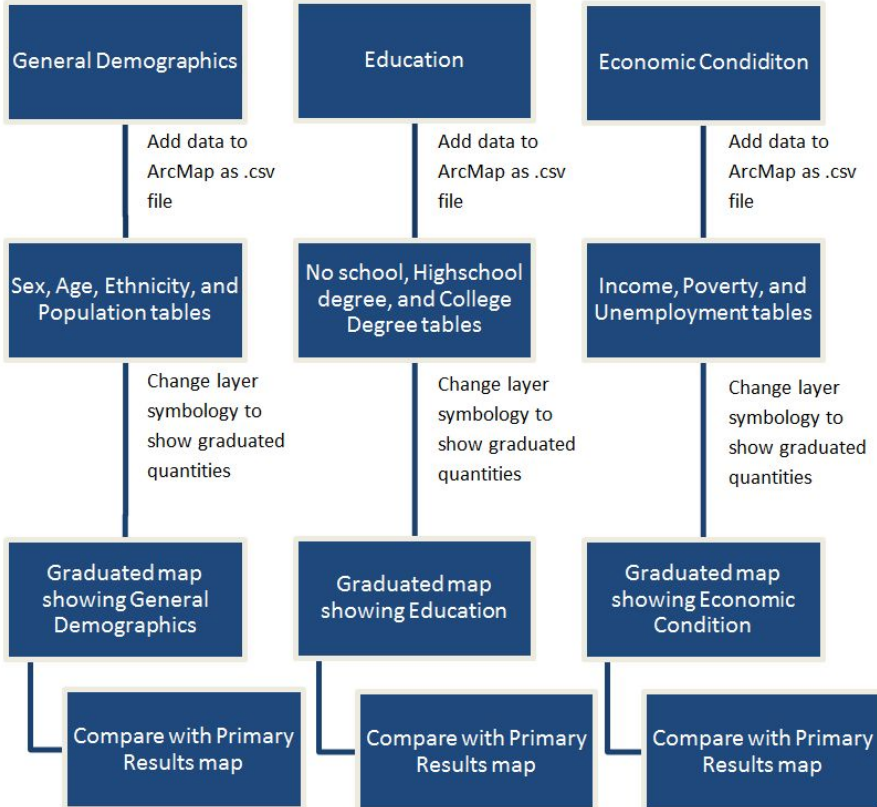
**Daniel Gallagher**

# Introduction

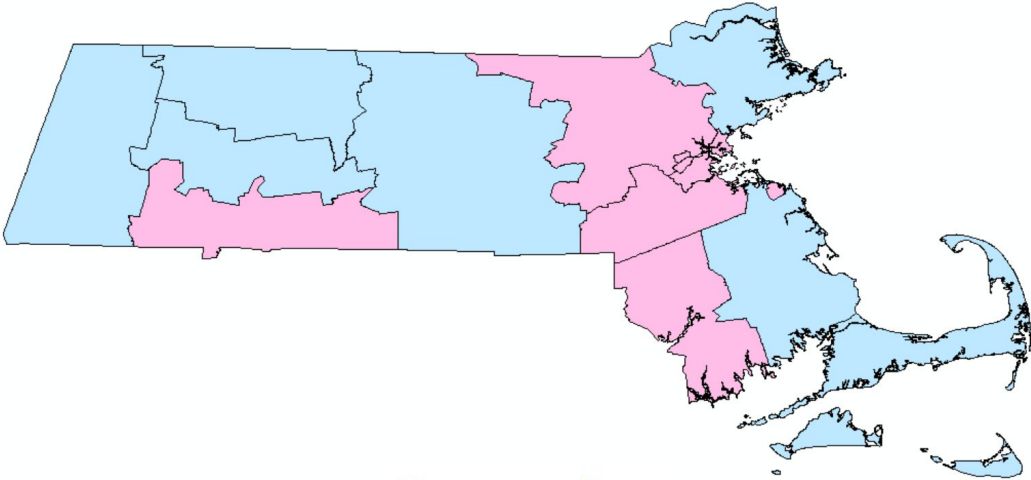
- Bernie Sanders vs Hillary Clinton
- Historically Conservative vs Liberal State
- Demographic based voting
- Indicators
  - Population
  - Age groups
  - Sex
  - Race
  - Unemployment
  - Education
  - Income/Poverty
  - Veterans





# Methods

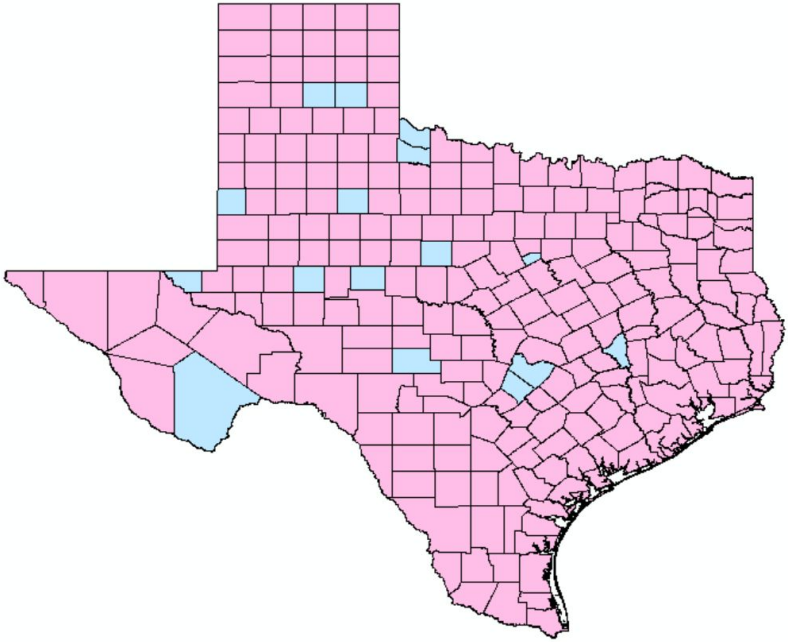


# Primary Results

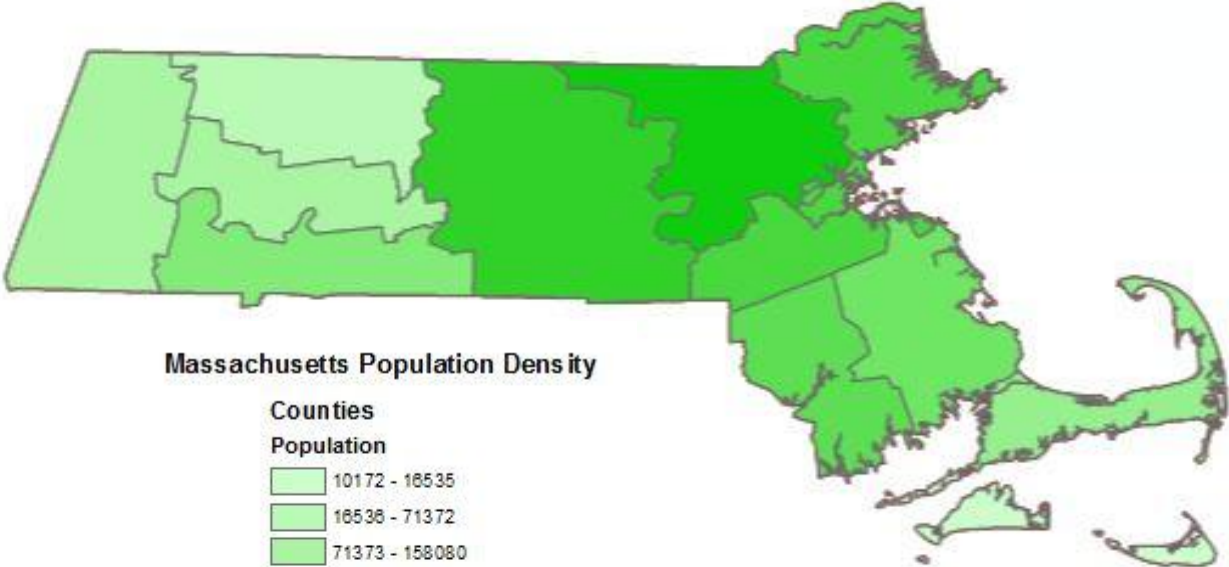
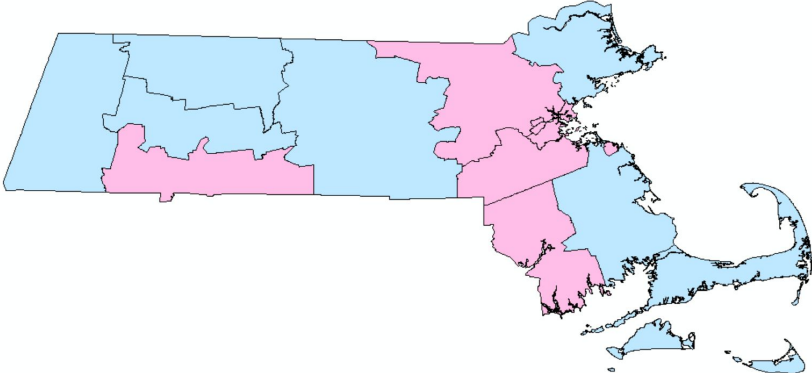


## Legend

-  Bernie
-  Hillary



# Massachusetts Population

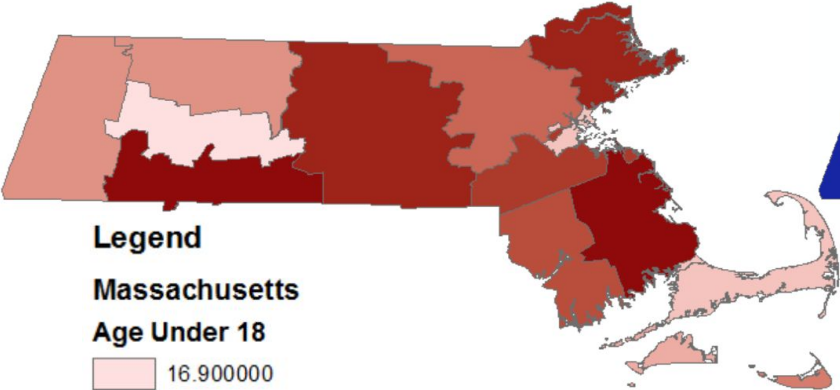


Massachusetts Population Density

Counties	
Population	
[Lightest Green]	10172 - 16535
[Light Green]	16536 - 71372
[Medium-Light Green]	71373 - 158080
[Medium Green]	158081 - 215888
[Medium-Dark Green]	215889 - 463490
[Dark Green]	463491 - 494919
[Very Dark Green]	494920 - 548285
[Darkest Green]	548286 - 743159
[Darkest Green]	743160 - 798552
[Darkest Green]	798553 - 1503085

Number of people per county

# Massachusetts Age

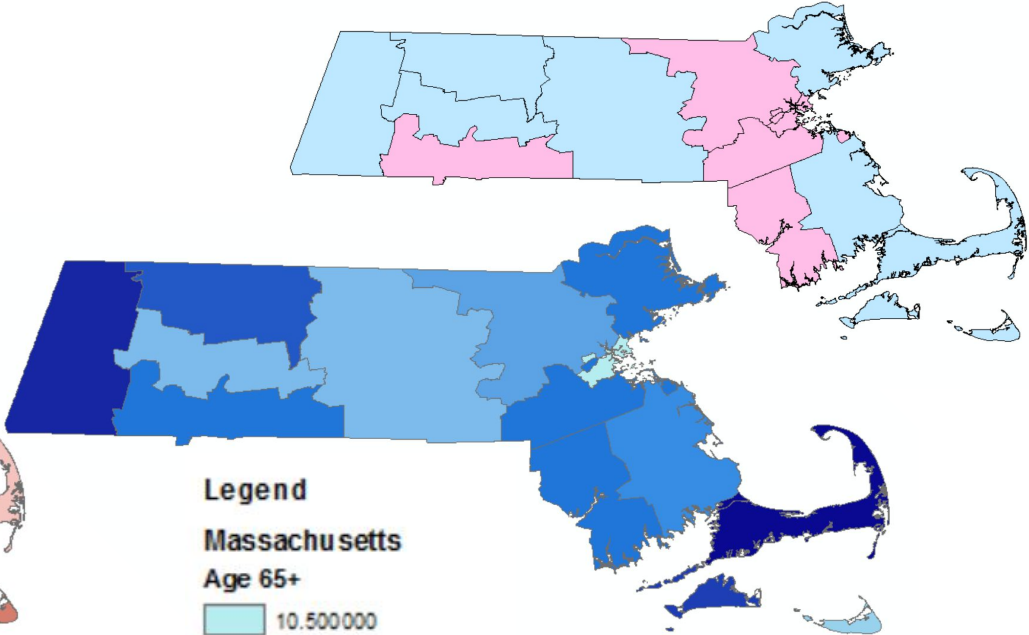


### Legend

#### Massachusetts Age Under 18

16.900000
16.900001 - 17.500000
17.500001 - 19.200000
19.200001 - 19.700000
19.700001 - 20.700000
20.700001 - 21.300000
21.300001 - 22.300000
22.300001 - 22.700000
22.700001 - 23.400000
23.400001 - 24.100000

Percent of  
people under  
the age of 18



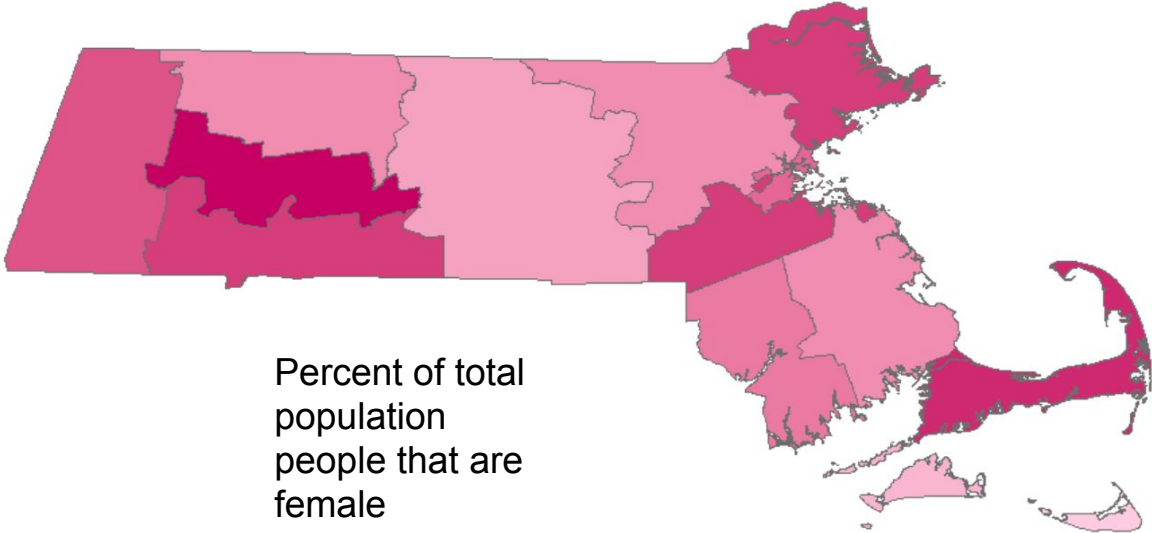
### Legend

#### Massachusetts Age 65+

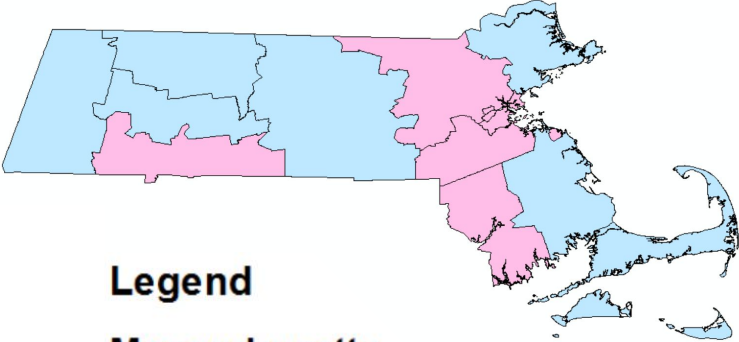
10.500000
10.500001 - 12.100000
12.100001 - 12.800000
12.800001 - 13.100000
13.100001 - 13.900000
13.900001 - 14.500000
14.500001 - 15.200000
15.200001 - 16.300000
16.300001 - 18.600000
18.600001 - 25.000000

Percent of  
people above  
the age of 65

# Massachusetts Sex

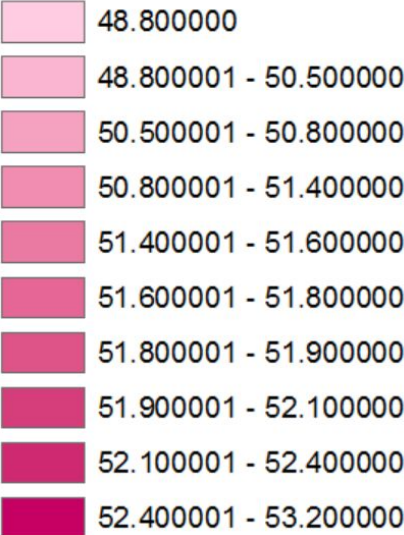


Percent of total population people that are female

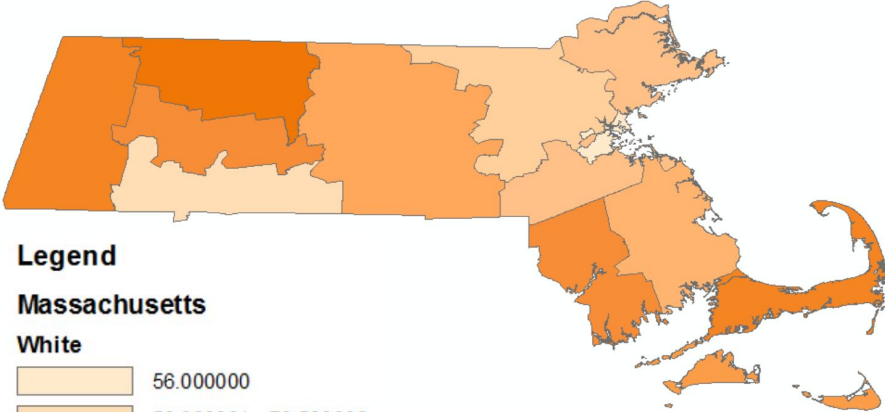


## Legend

### Massachusetts Percent Female



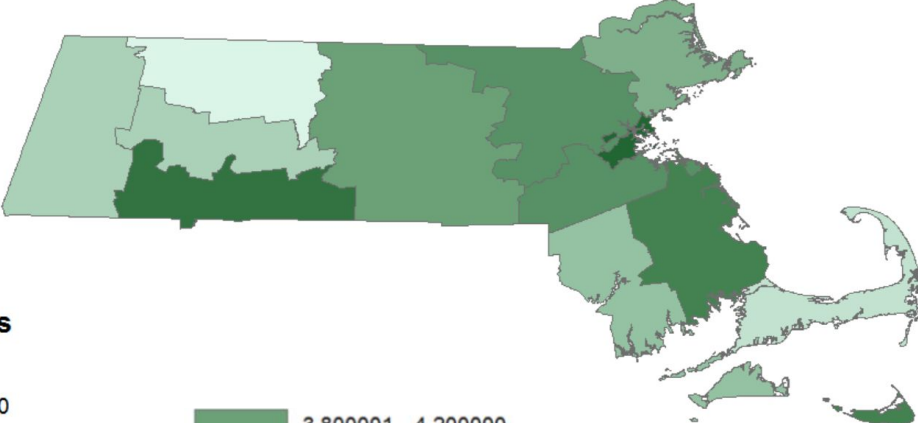
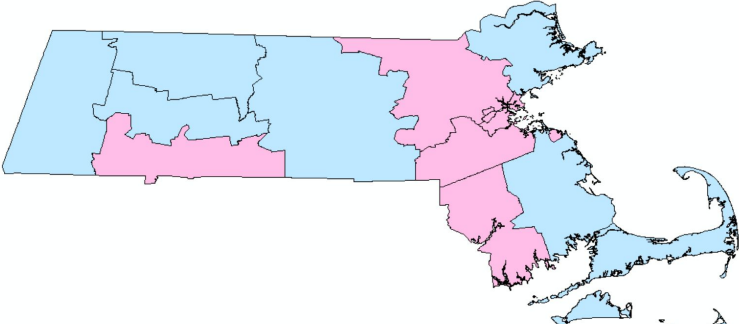
# Massachusetts Race



**Legend**  
Massachusetts  
White

Lightest Orange	56.000000
Light Orange	56.000001 - 76.500000
Orange	76.500001 - 80.000000
Dark Orange	80.000001 - 82.300000
Very Dark Orange	82.300001 - 85.500000
Dark Orange	85.500001 - 85.600000
Dark Orange	85.600001 - 87.600000
Dark Orange	87.600001 - 88.700000
Dark Orange	88.700001 - 92.700000
Darkest Orange	92.700001 - 94.200000

Percent of total population people who are only White



**Legend**  
Massachusetts  
Black

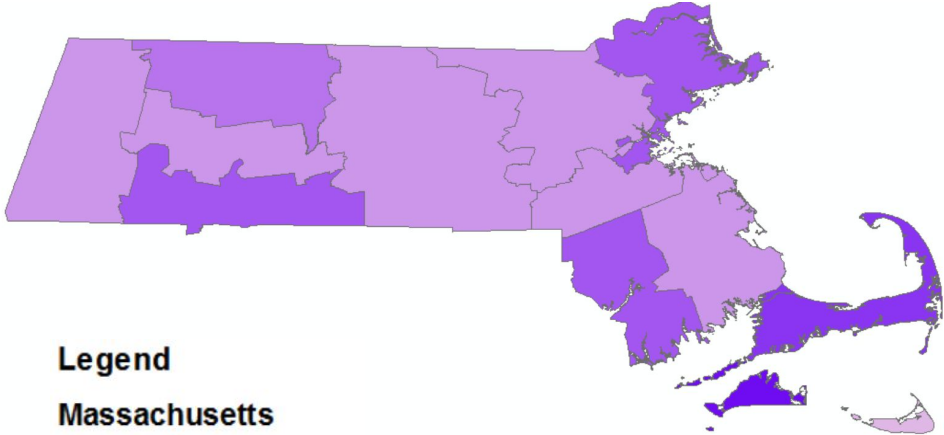
Lightest Green	1.100000
Light Green	1.100001 - 1.900000
Light Green	1.900001 - 2.700000
Light Green	2.700001 - 3.300000
Light Green	3.300001 - 3.800000
Light Green	3.800001 - 4.200000

Dark Green	3.800001 - 4.200000
Dark Green	4.200001 - 5.700000
Dark Green	5.700001 - 7.200000
Dark Green	7.200001 - 9.000000
Darkest Green	9.000001 - 21.600000

Percent of total population people who are only Black

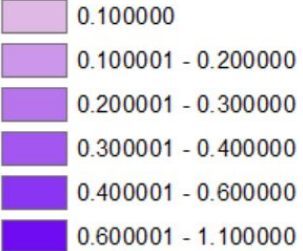


# Massachusetts Race

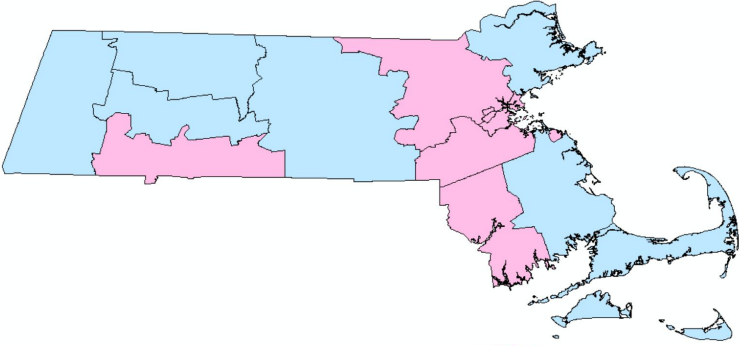


**Legend**

**Massachusetts  
Native American**

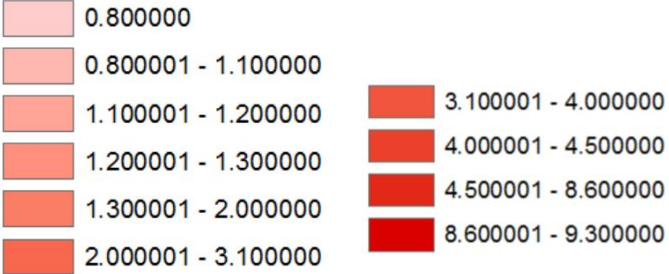


Percent of total population who are only Native American



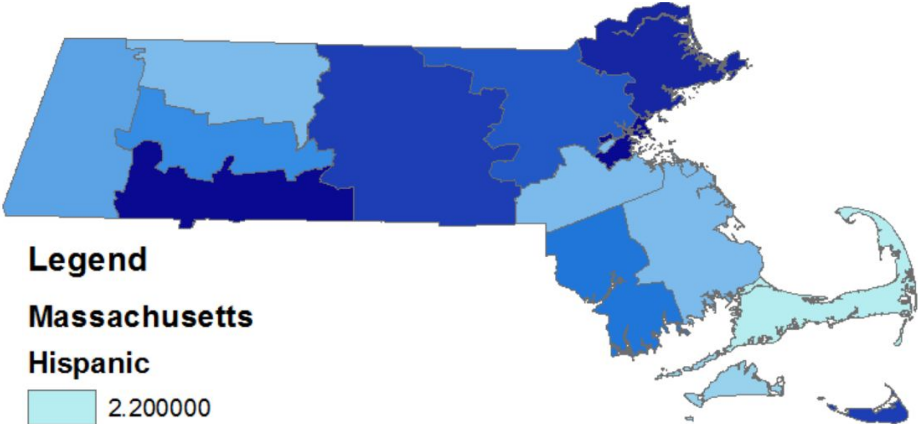
**Legend**

**Massachusetts  
Asian**



Percent of total population who are only Asian

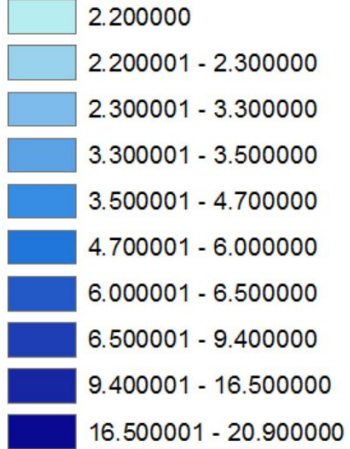
# Massachusetts Race



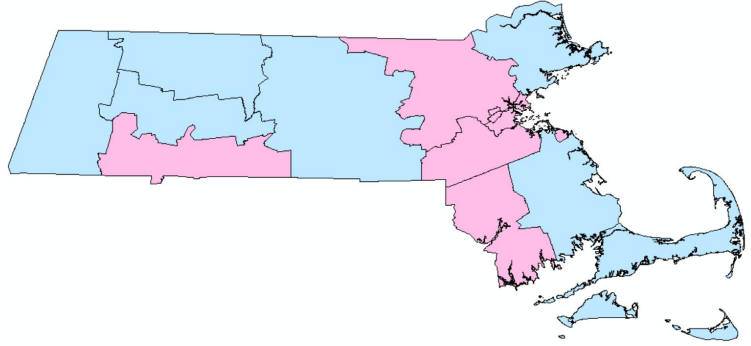
## Legend

### Massachusetts

#### Hispanic



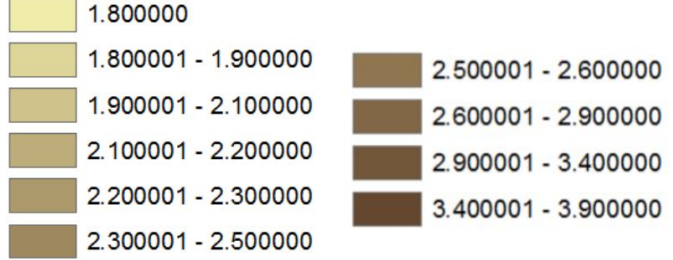
Percent of total population who claim to be Hispanic in any capacity



## Legend

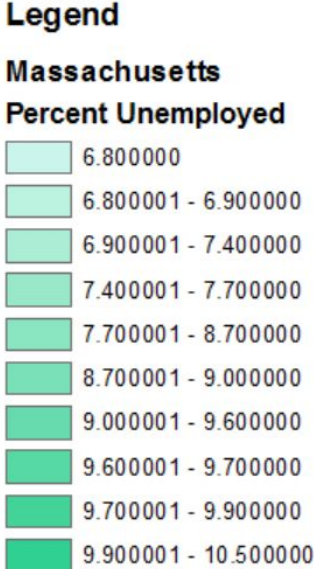
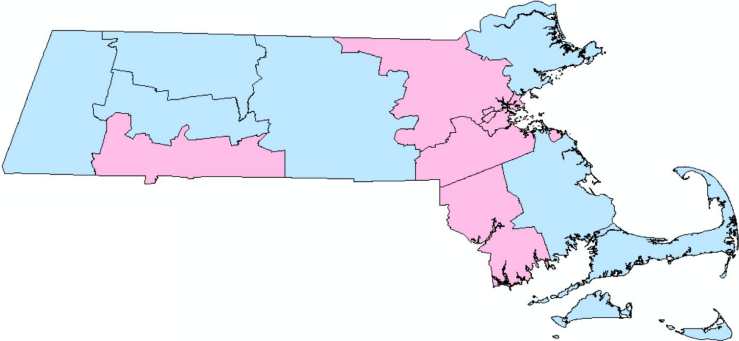
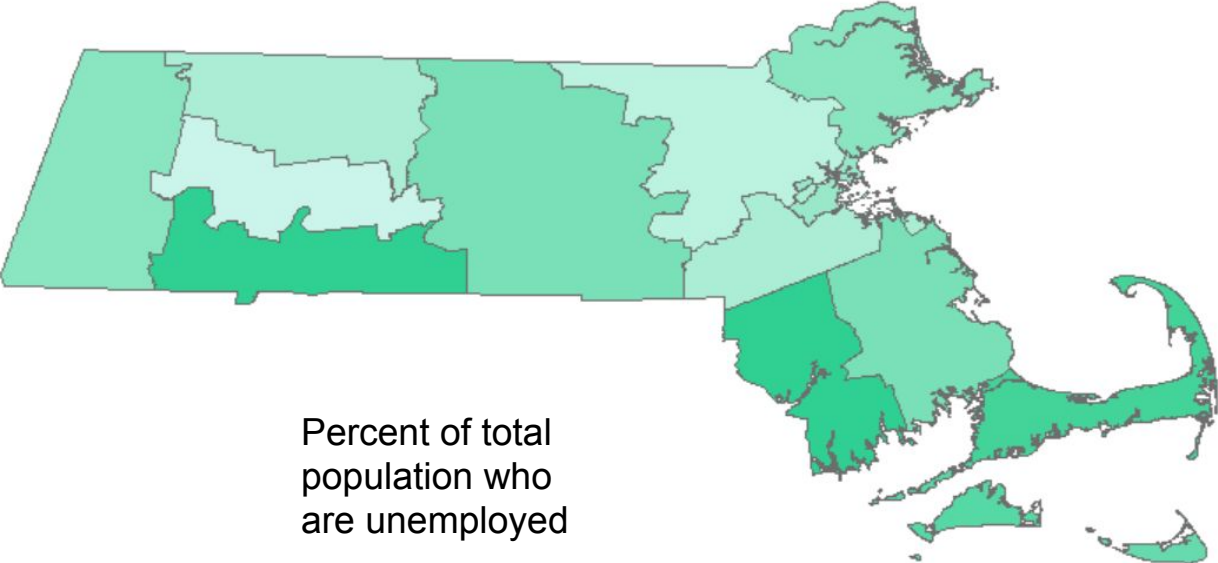
### Massachusetts

#### Two or More Races

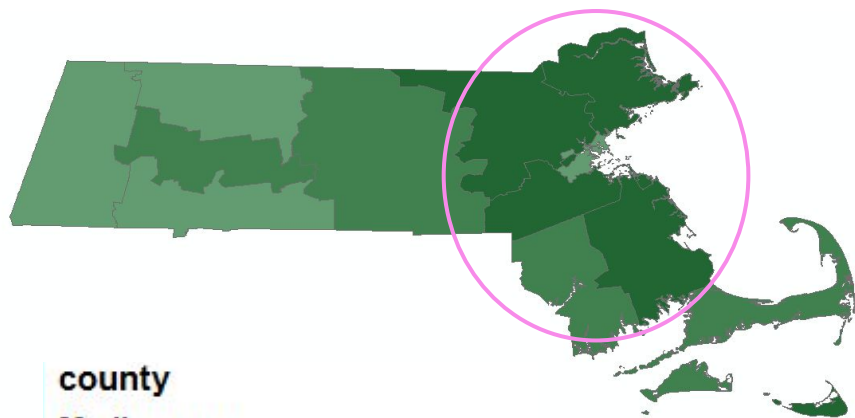


Percent of total population who claim to be more than one race

# Massachusetts Unemployed

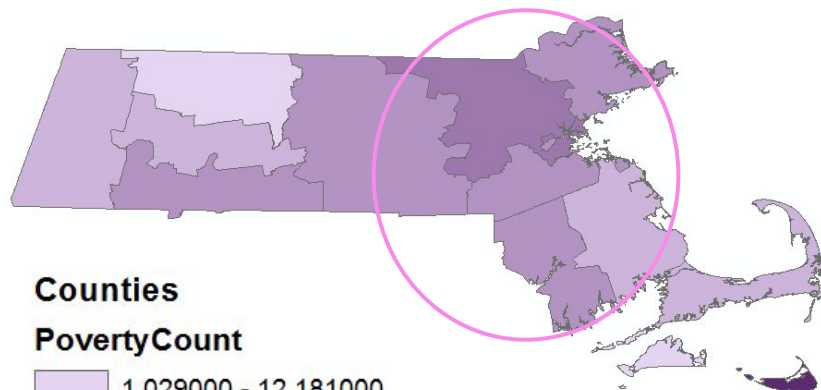
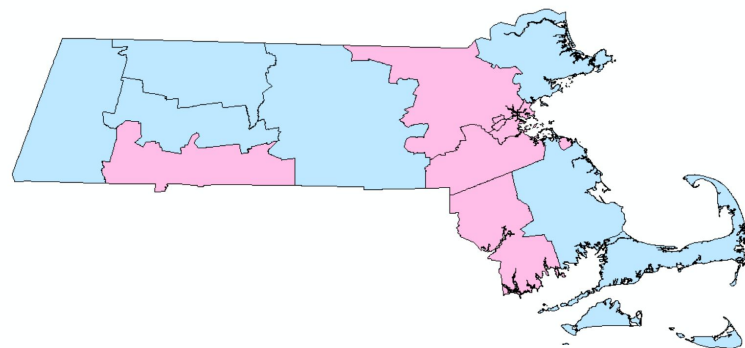
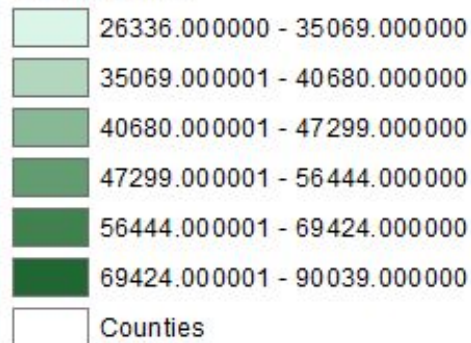


# Massachusetts Income and Poverty



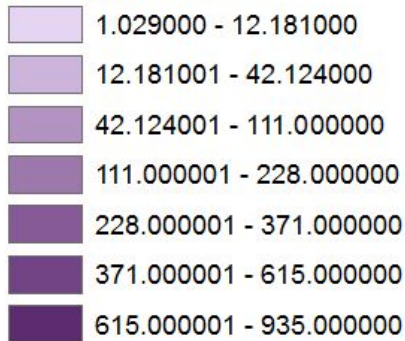
county

MedIncome

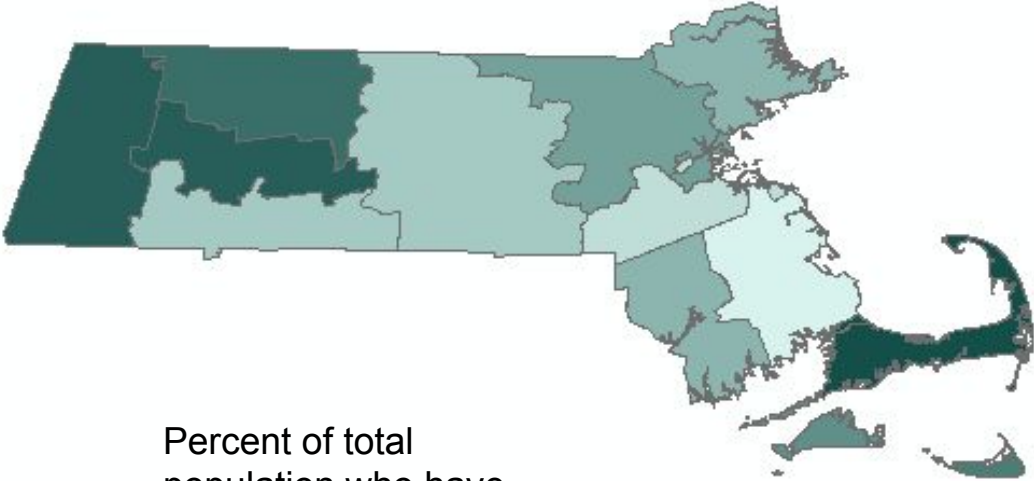


Counties

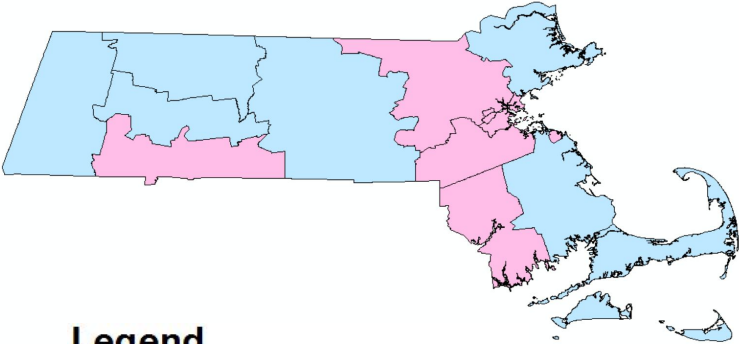
PovertyCount



# Massachusetts No Degree













Percent of total population who have no High School diploma, equivalent or above



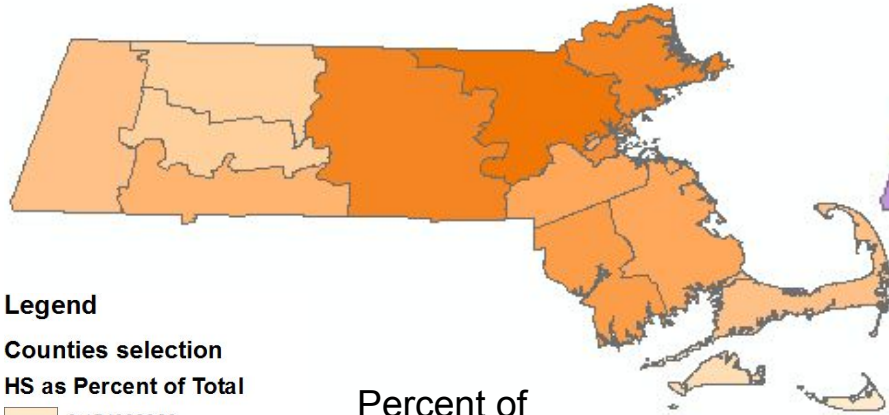
## Legend

### Counties selection

### None as Percent of Total

	0.099441260
	0.099441261 - 0.156603300
	0.156603301 - 0.206690995
	0.206690996 - 0.284942591
	0.284942592 - 0.450989474
	0.450989475 - 1.66847752
	1.66847753 - 4.37141110
	4.37141111 - 10.6448866
	10.6448867 - 26.9292272
	26.9292273 - 31.2005296

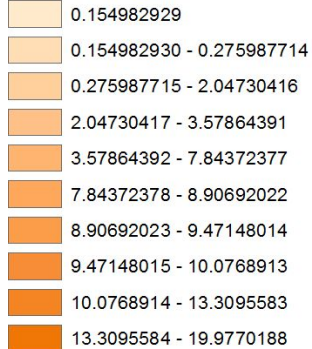
# Massachusetts Education



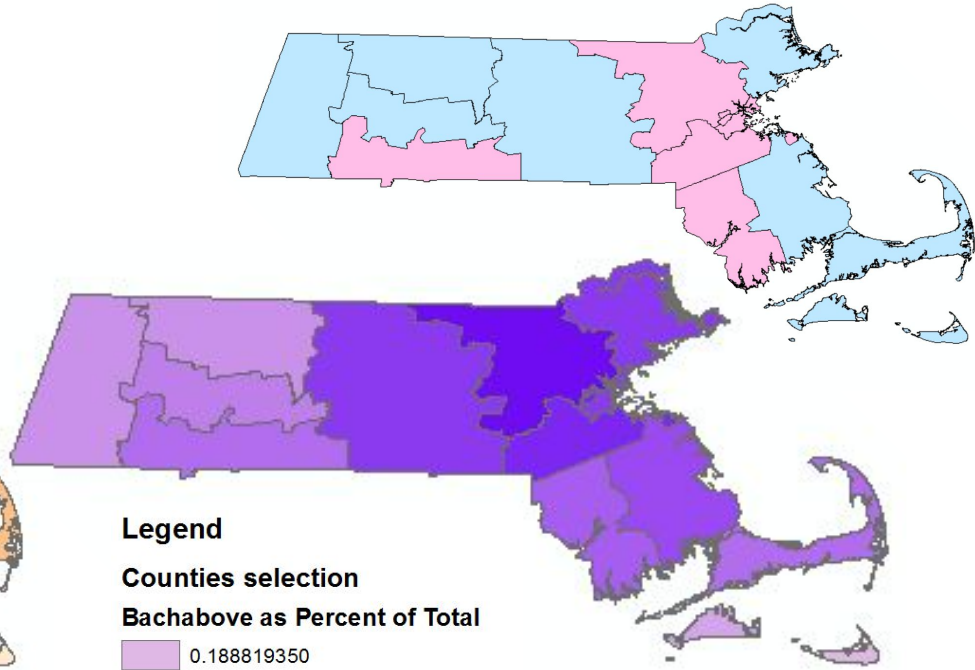
## Legend

### Counties selection

#### HS as Percent of Total



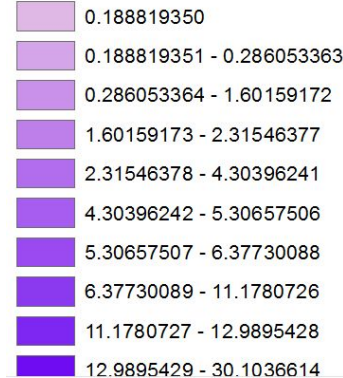
Percent of total population who have a High School diploma



## Legend

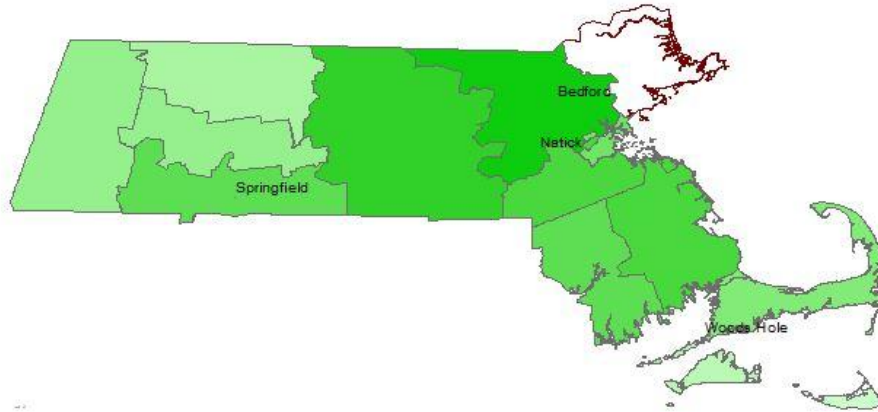
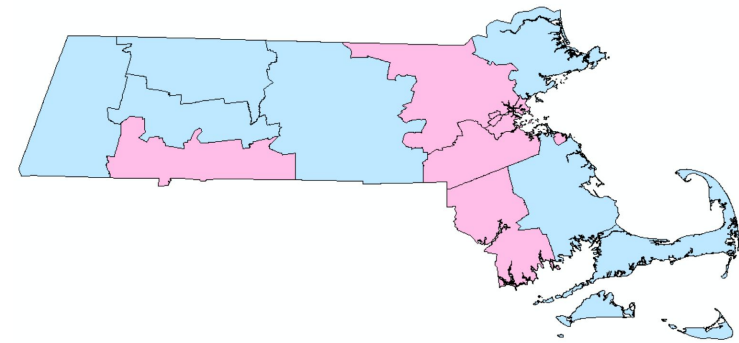
### Counties selection

#### Bachabove as Percent of Total



Percent of total population who have at least a Bachelor's degree or above

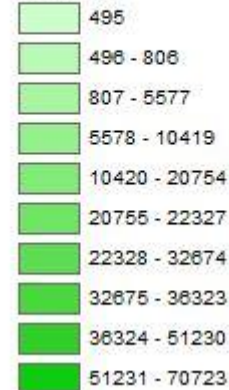
# Veterans in Massachusetts



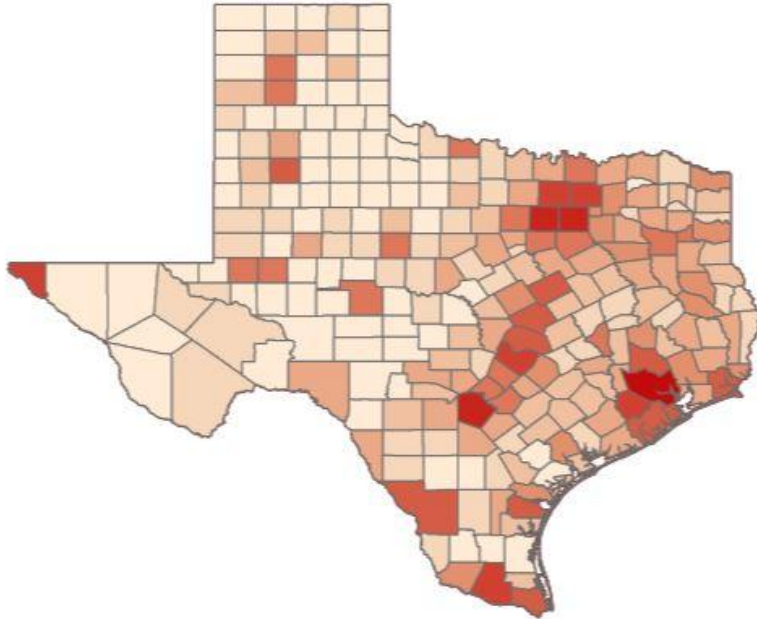
Veterans in Massachusetts

## Counties

### Veterans



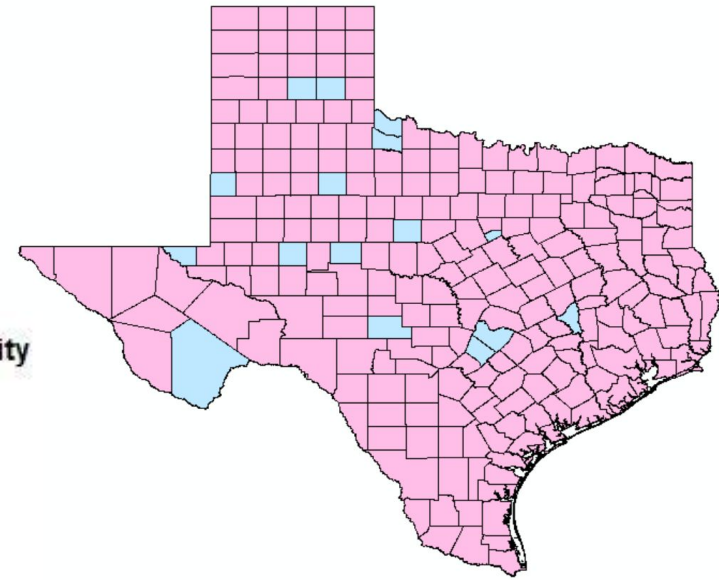
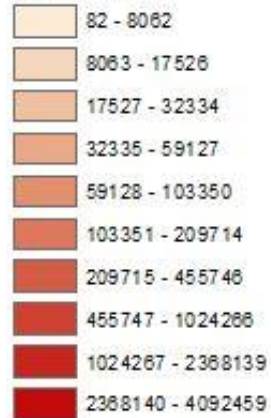
# Texas Population



## Population Density

### Counties

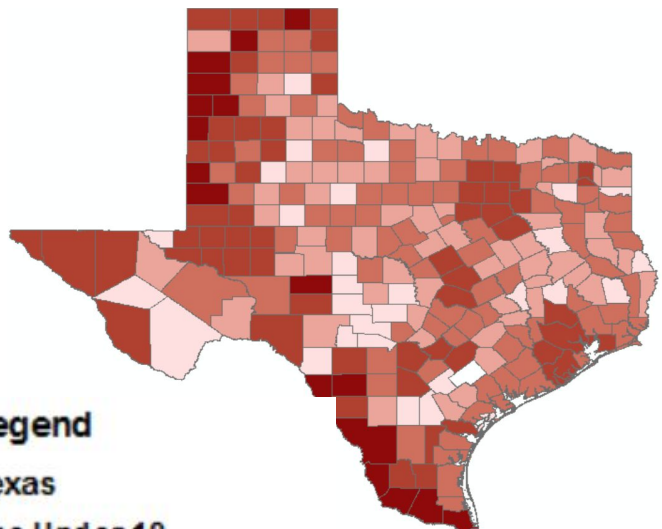
#### POPULATION



Number of people  
per county



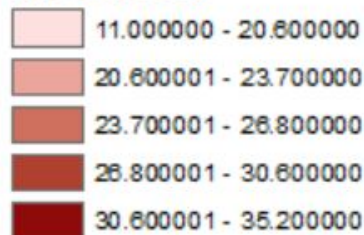
# Texas Age



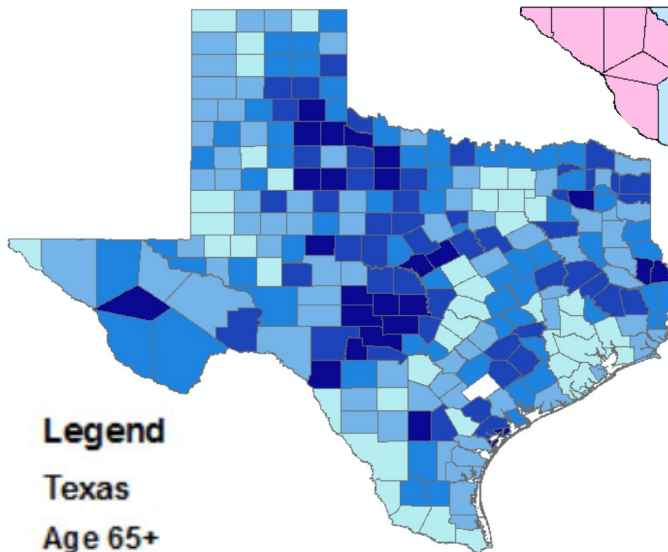
## Legend

Texas

Age Under 18



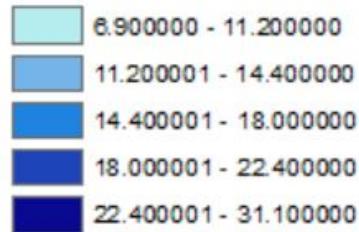
Percent of  
people under  
the age of 18



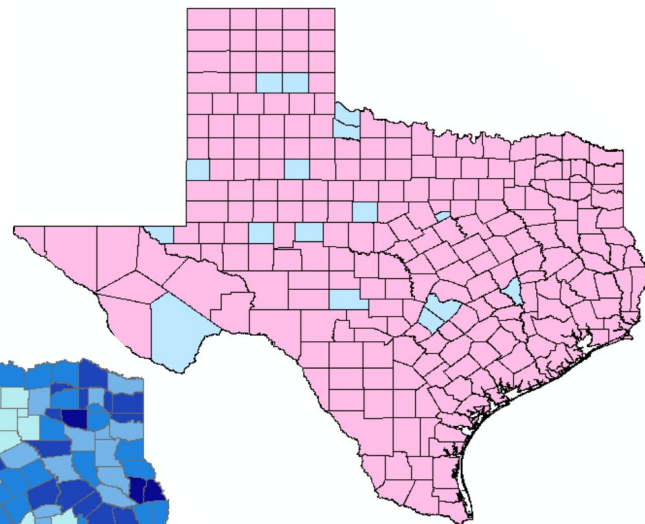
## Legend

Texas

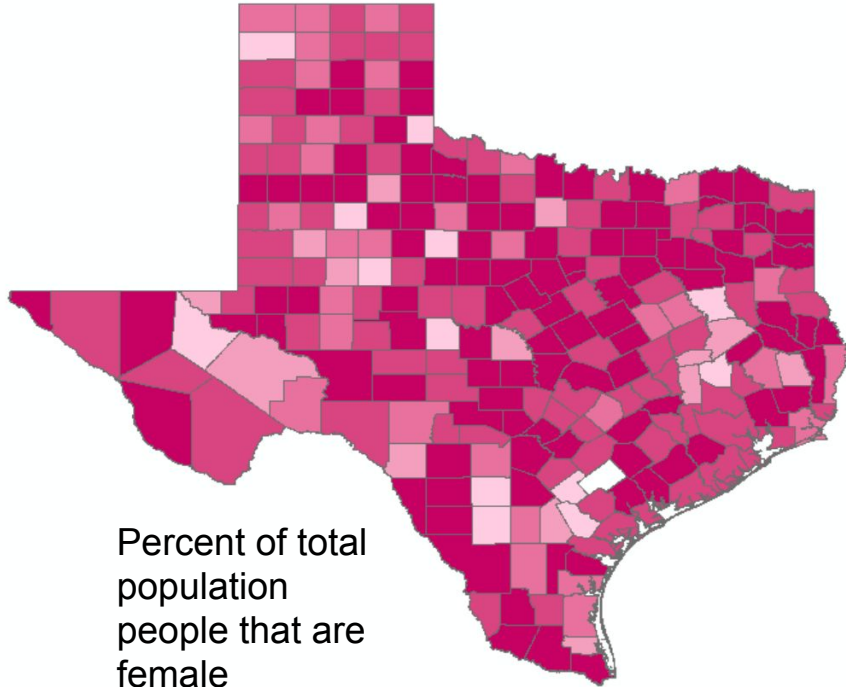
Age 65+



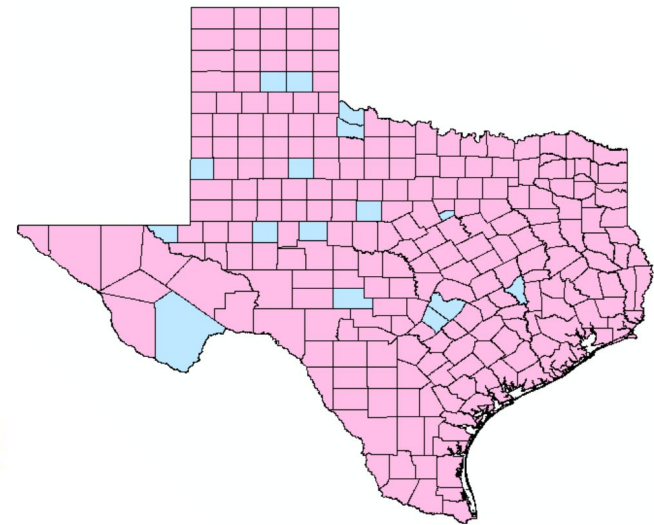
Percent of  
people above  
the age of 65



# Texas Sex



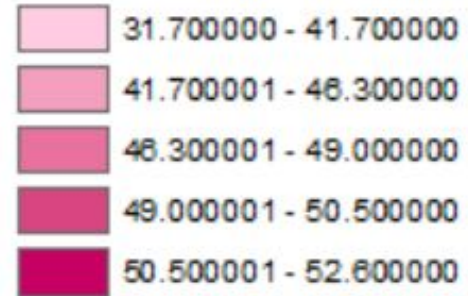
Percent of total  
population  
people that are  
female



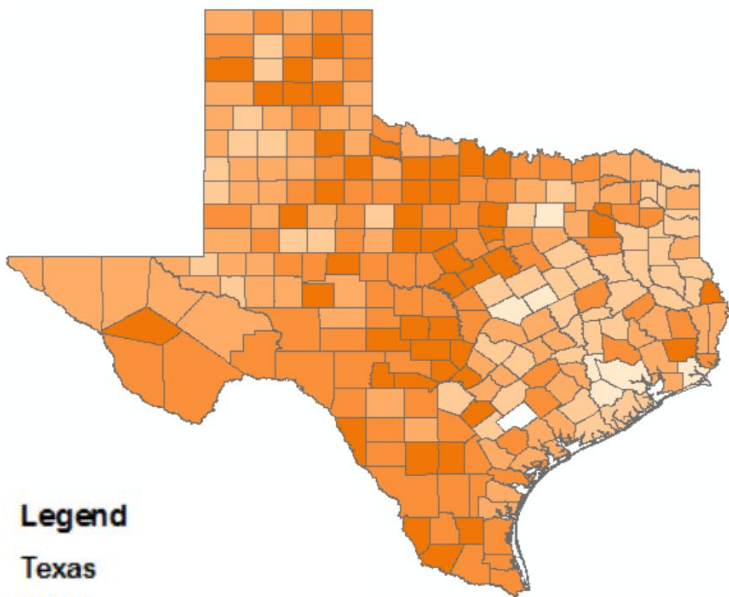
## Legend

Texas

Percent Female



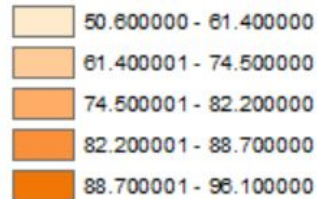
# Texas Race



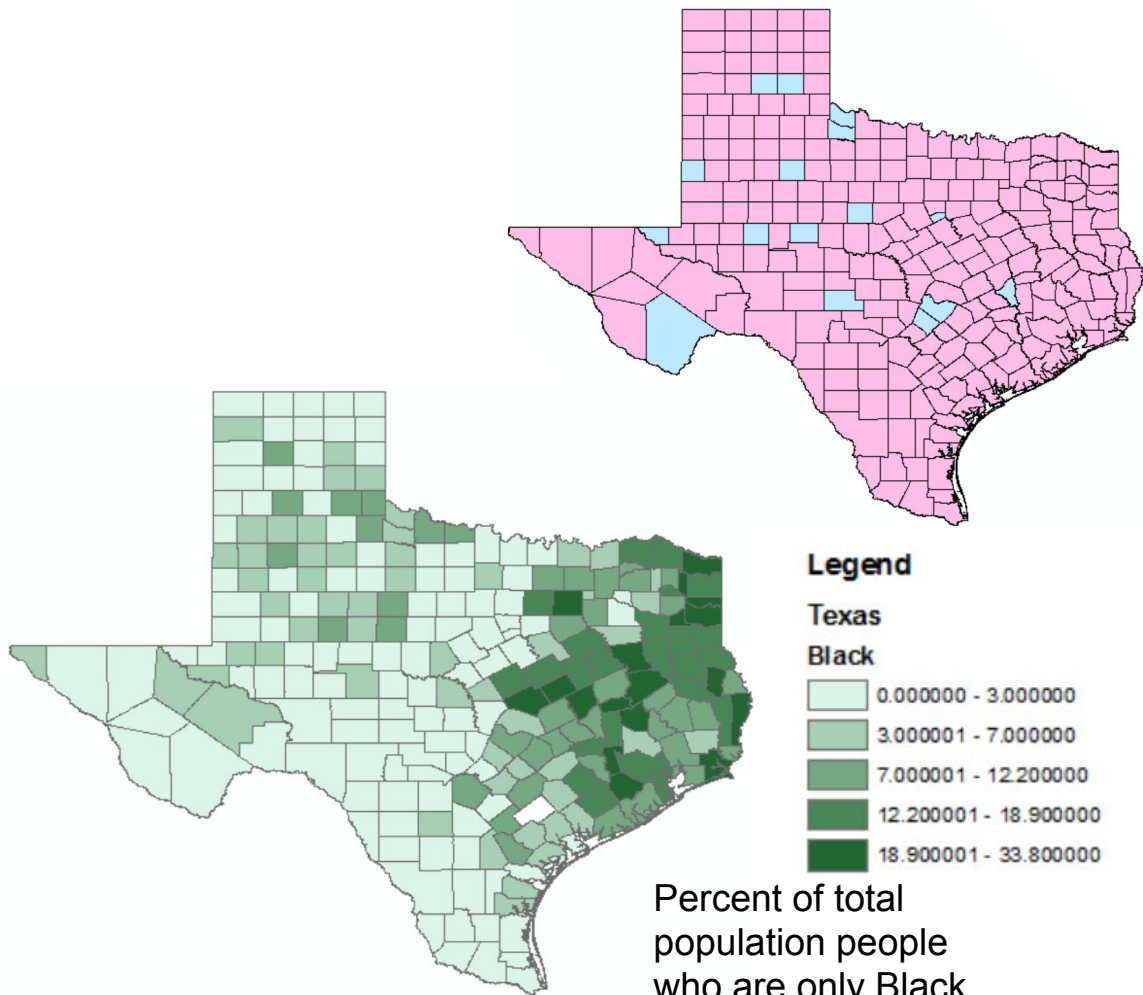
## Legend

Texas

White



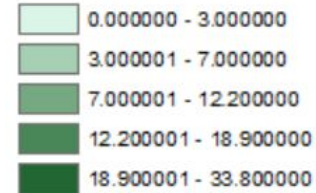
Percent of total population people who are only White



## Legend

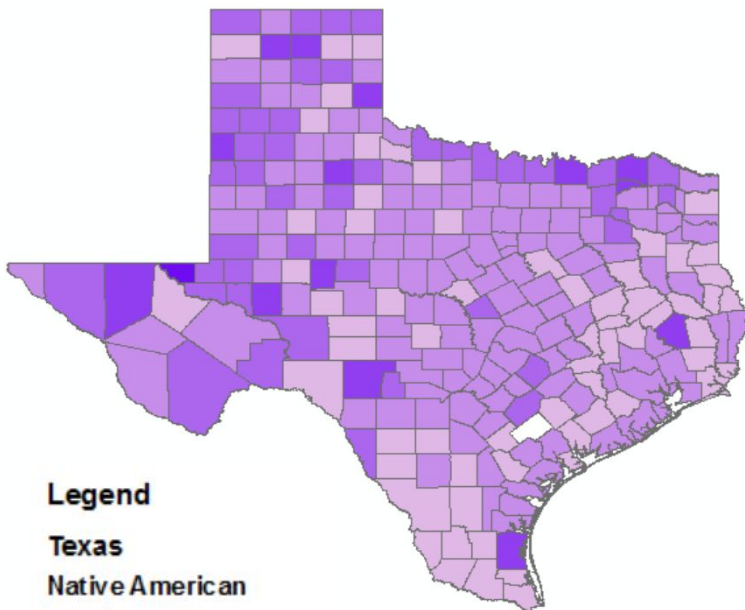
Texas

Black



Percent of total population people who are only Black

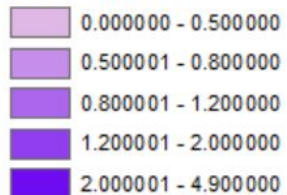
# Texas Race



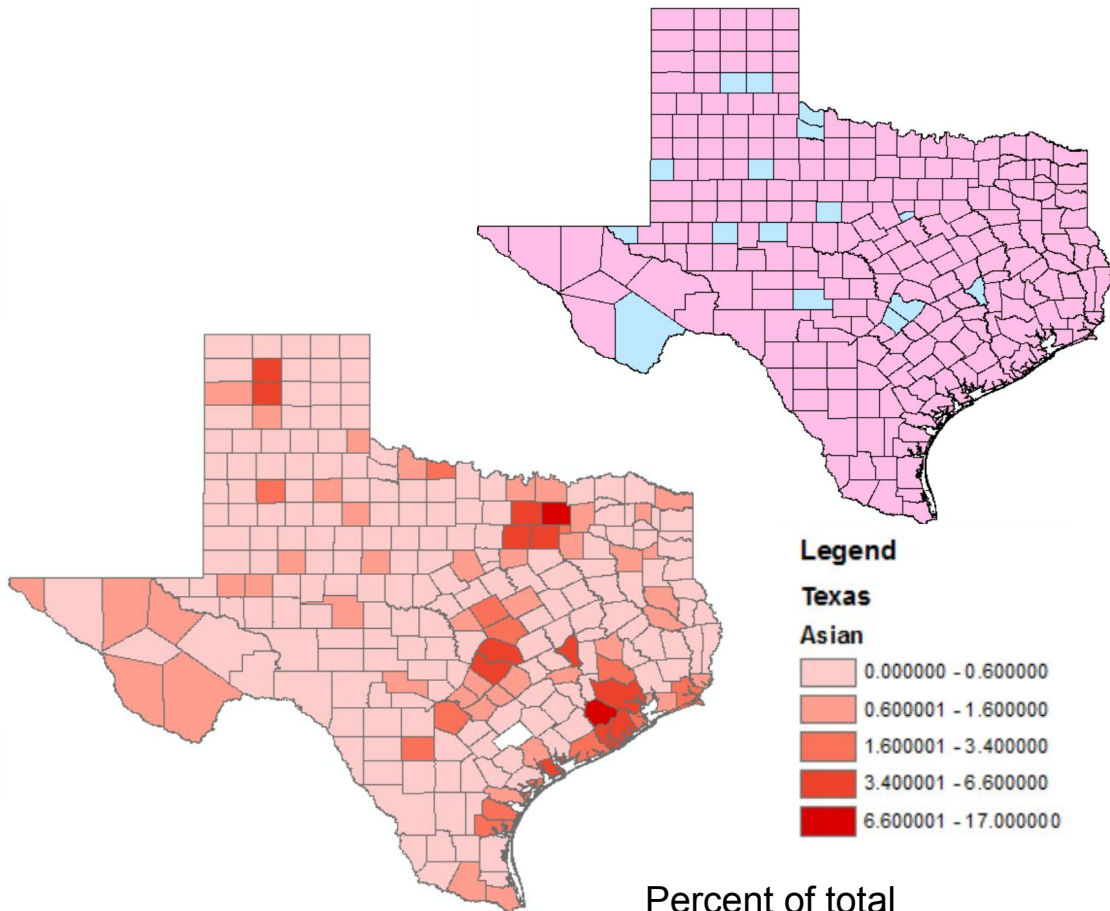
## Legend

### Texas

#### Native American



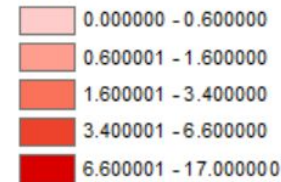
Percent of total population who are only Native American



## Legend

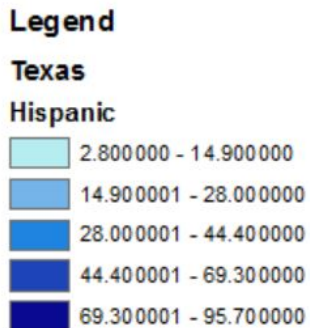
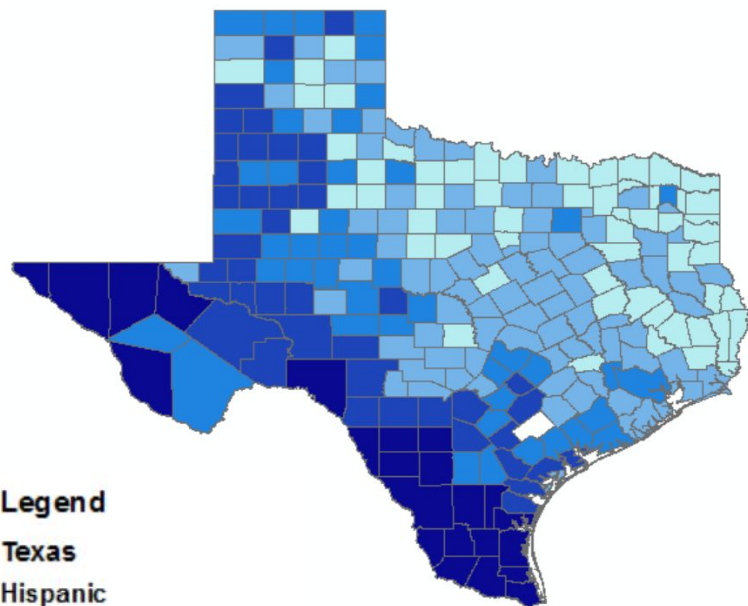
### Texas

#### Asian

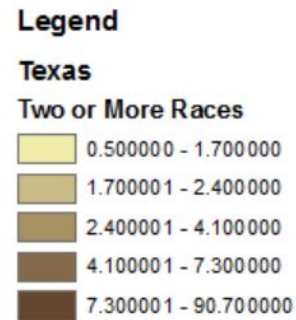
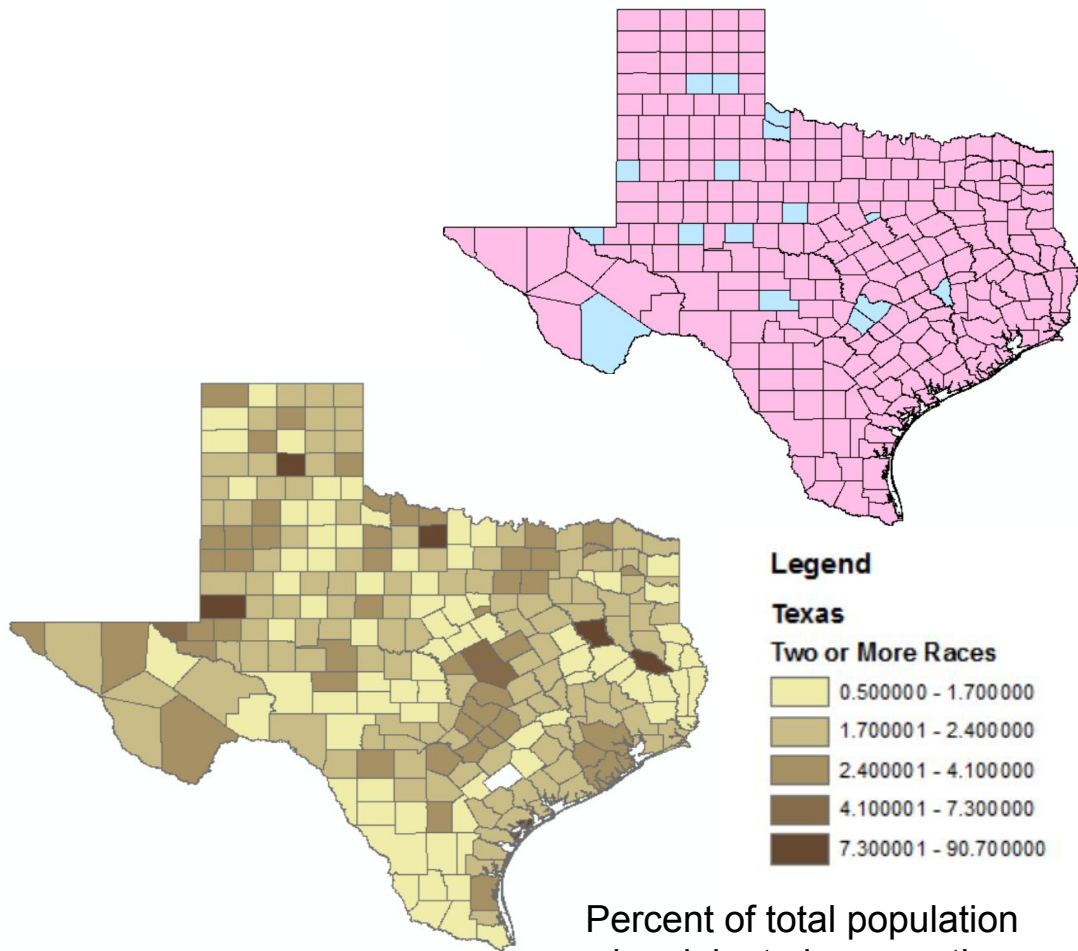


Percent of total population who are only Asian

# Texas Race

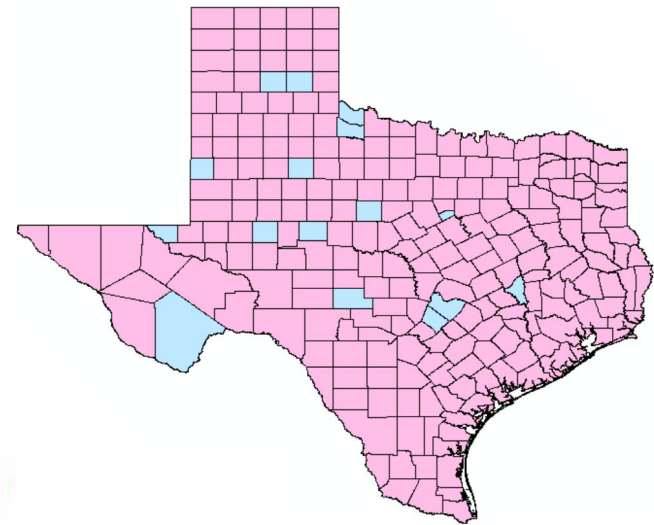
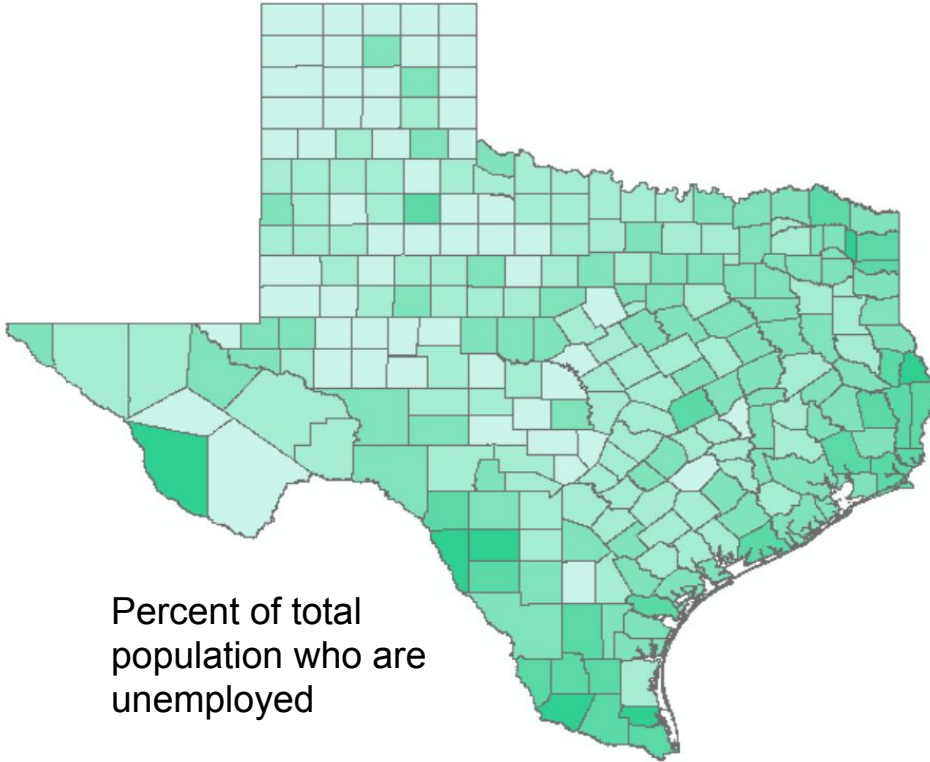


Percent of total population who claim to be Hispanic in any capacity



Percent of total population who claim to be more than one race

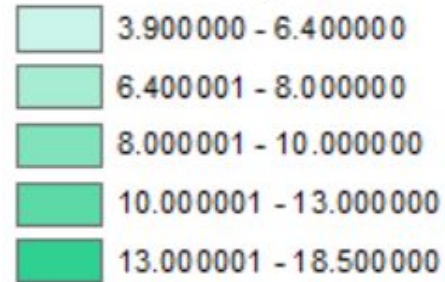
# Texas Unemployment



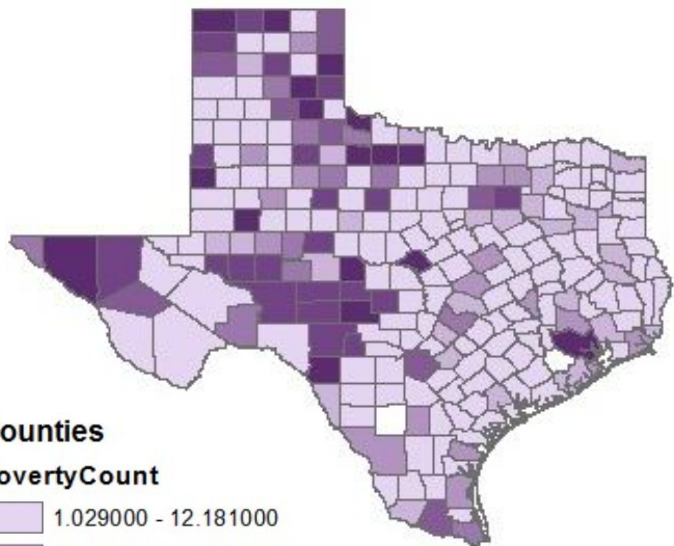
## Legend

### Texas

#### Percent Unemployed

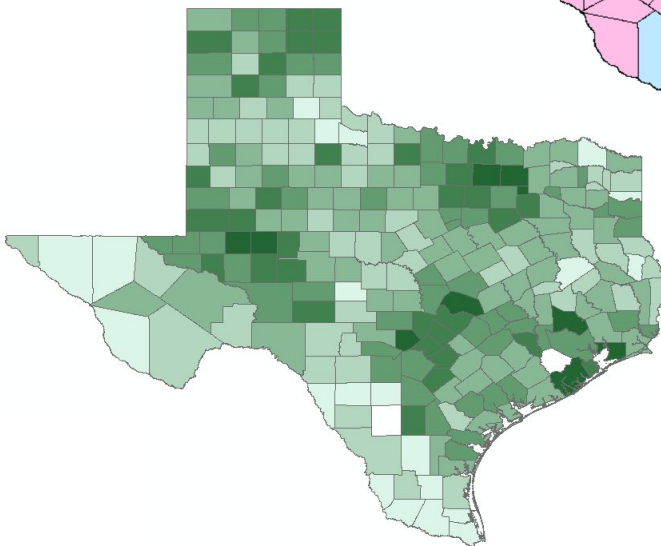
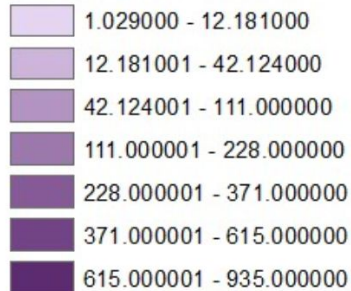


# Texas Income and Poverty



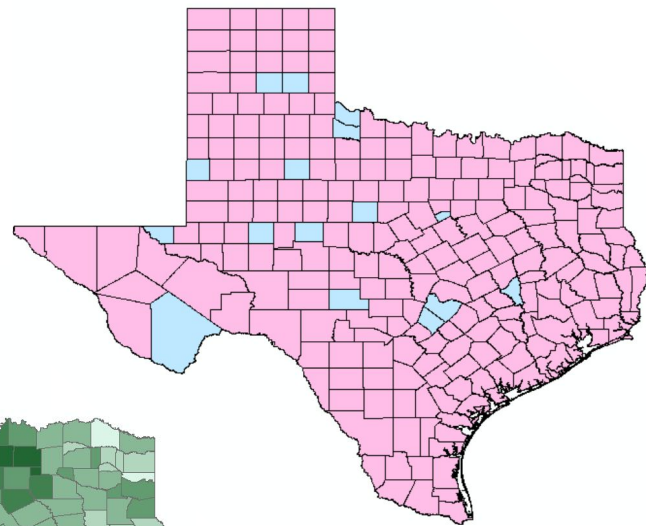
## Counties

### PovertyCount

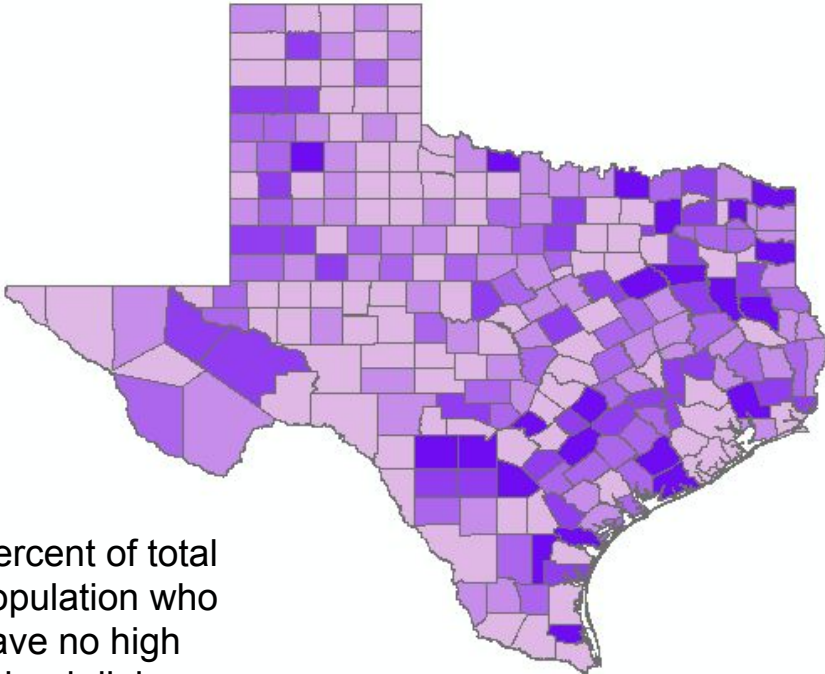


## county

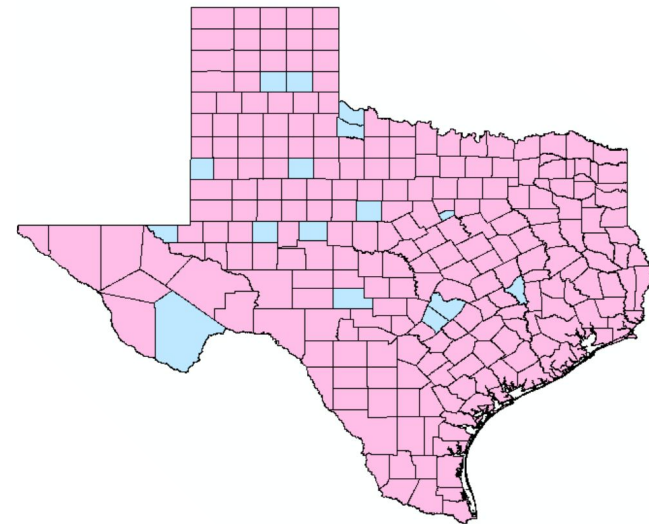
### MedIncome



# Texas No Degree



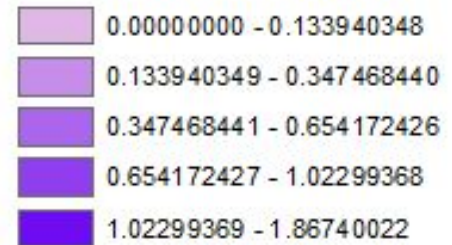
Percent of total population who have no high school diploma, equivalent, or higher degree



## Legend

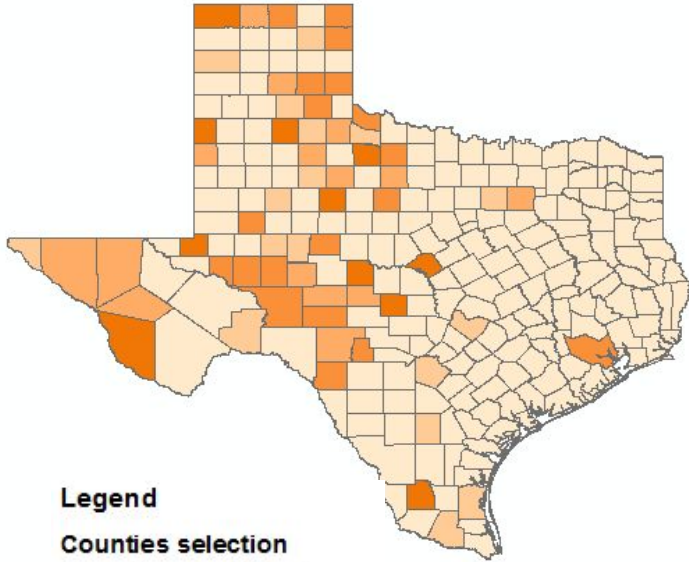
### Counties selection

#### None as Percent of Total





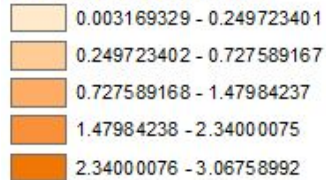
# Texas Education



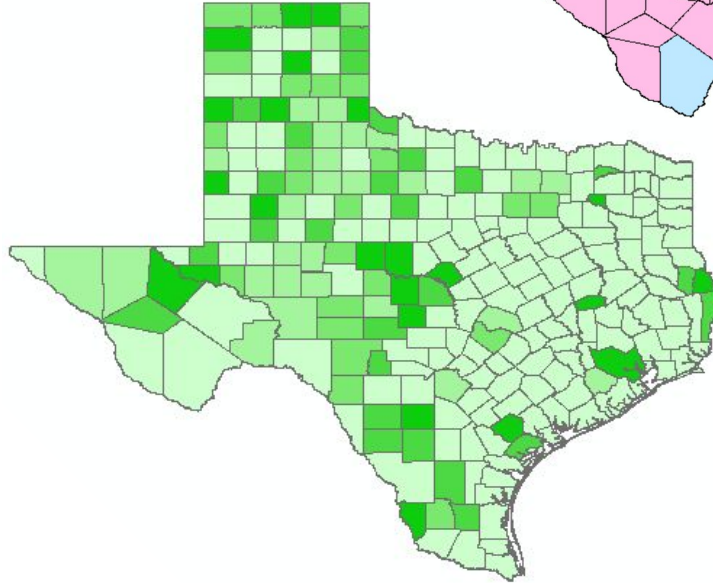
## Legend

### Counties selection

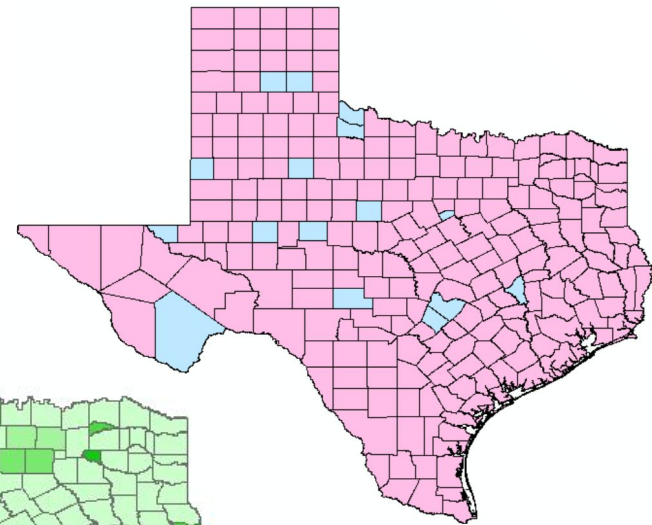
#### HS as Percent of Total



Percent of total population who have a high school diploma



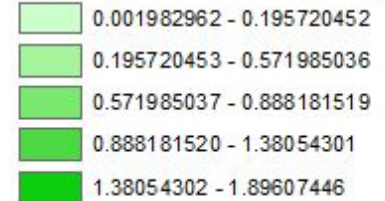
Percent of total population who have at least a Bachelor's degree or above



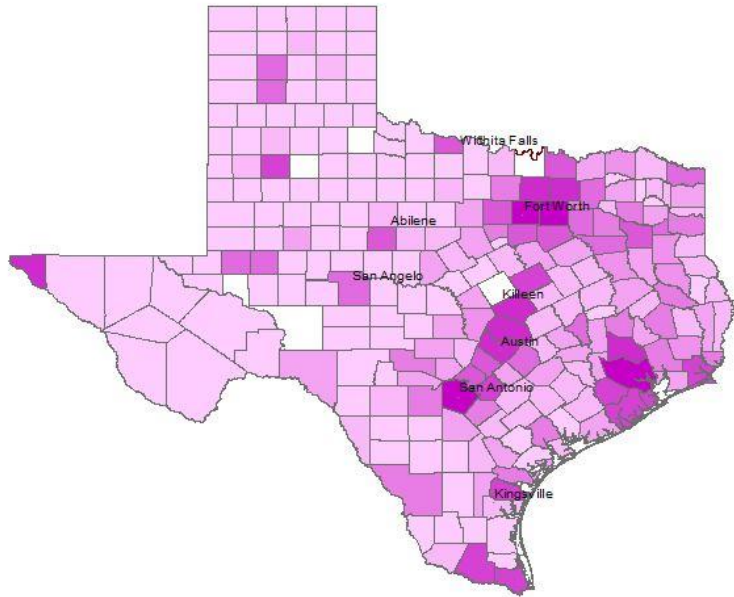
## Legend

### Counties selection

#### Bachabove as Percent of Total



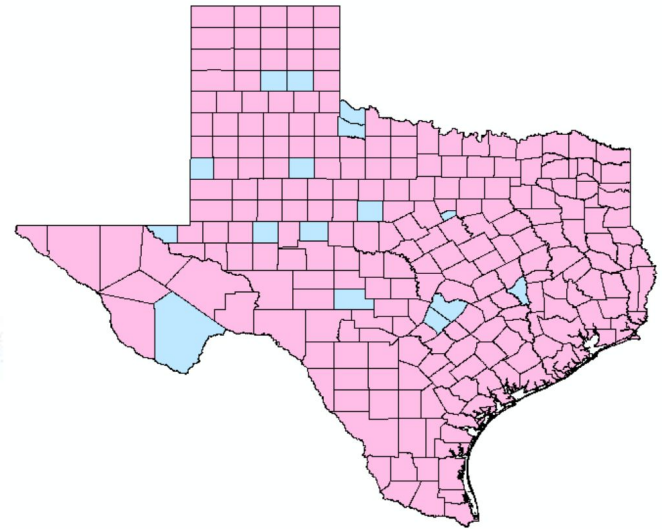
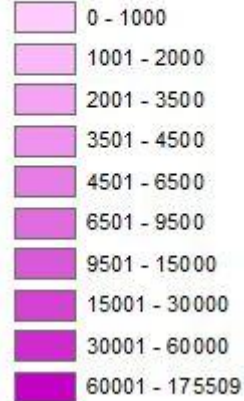
# Texas Veteran Population



Veterans per County

## Counties

### Veterans



# Results: Massachusetts

## Strong Correlation: Bernie

- Populations with no educational background
- Counties with higher populations of white people
- Counties with high populations of people under the age of 18 and people over the age of 65

## Strong Correlation: Hillary

- Populations with higher percentages of Asians
- Counties with higher income
- Counties with higher poverty
- Counties with highest percentage of people with bachelor's degree or above
- Counties with higher percentages of vets

## No Correlation:

- Population density has little to do with voting patterns
- Gender has little to do with voting decisions
- Being Black has little to do with voting patterns
- Being Native American has little to do with voting patterns
- Having more than one race has little to do with voting patterns
- Being Hispanic has little to do with voting patterns
- Being unemployed has little to do with voting patterns
- People having at least a high school diploma did not affect voting patterns

# Results: Texas

## Strong Correlation: Bernie

- Counties with people between the age of 18 - 65
- Populations with high percentages of Asians

## Strong Correlation: Hillary

- Counties with higher population densities
- Populations with higher percentages of Hispanics
- Populations with higher percentages of Blacks
- Populations with higher percentages of Asians
- Counties who have higher unemployment rates
- Counties with the higher percentage of people with a high school diploma
- Counties with the higher percentage of people with at least a bachelor's degree or above

## No Correlation:

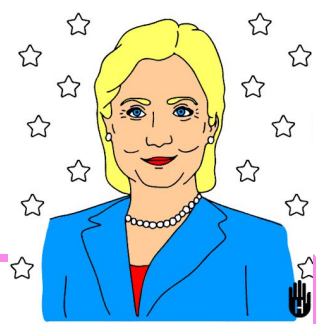
- Age had little to do with determining voting patterns
- Gender has little to do with voting patterns
- Being White has little to do with voting patterns
- Being Native American has little to do with voting patterns
- Having more than one race has little to do with voting patterns
- Having no educational background did not affect voting patterns
- No trends between income and poverty and voting results
- No correlation between vets and counties won

# Conclusion



## Bernie

- No overlap between indicator results
- Demographic background did not influence voting pattern



## Hillary

- Counties with highest percentage of people with bachelor's degree or above
- High percentages of Asians

## No Correlation: Massachusetts

- Being Black has little to do with voting patterns
- Being Hispanic has little to do with voting patterns

## No Correlation: Overlap

- Gender has little to do with voting decisions
- Being Native American has little to do with voting patterns
- Having more than one race

## No Correlation: Texas

- Age had little to do with determining voting patterns
- Being White has little to do with voting patterns
- No trends between income poverty and voting results
- Having no educational background did not affect voting patterns
- No correlation between vets and counties won

The background features a stylized American flag. The top half is a dark blue field with numerous white stars of varying sizes. The bottom half consists of wavy horizontal stripes in red, white, and red, with a shimmering, sparkling effect. The word "Questions?" is centered in the upper half in a large, white, sans-serif font.

Questions?