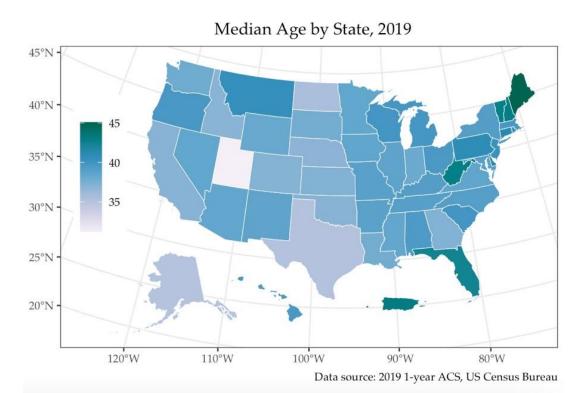
Assignment #8: Census data and spatial data

1. Read A Guide to Working with US Census Data in R

a. The website offers R packages including data from the US Census Bureau as well as tools for scraping census data. Descriptions on the functions of each package are included with the packages. For example, the "census" scraper program does not require an API to be used, and it allows for the scraping of data from many regions of the census. Nevertheless, we will receive a census API key.

2. Get a Census API key from: http://api.census.gov/data/key_signup.html

3.

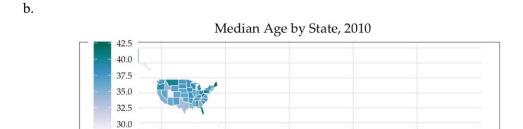




a. 2020 data was unable to be loaded. Tidycensus could not load the data due to low response rates, but 2020 data was accessed through:

https://www.census.gov/programssurveys/acs/data/experimental-data/1-year.html

** this is the table downloaded from the census website.



60°W

Data source: 2010 1-year ACS, US Census Bureau

120°E

Above is the visualized 2010 data from the Census Bureau.

4. Comparing the 2009 and 2020 statistics, several similarities can be seen. The northwest region of the country appears to have had a decline in the population of those between the ages of 37.5 and 42.5. The elderly population on the east coast is largely composed of similar folks. The distribution is comparable overall, with Texas, North Dakota, and Utah having the highest concentration of those under 35.