

Other maps

Carmen Rodriguez Cabrera

2/26/2022

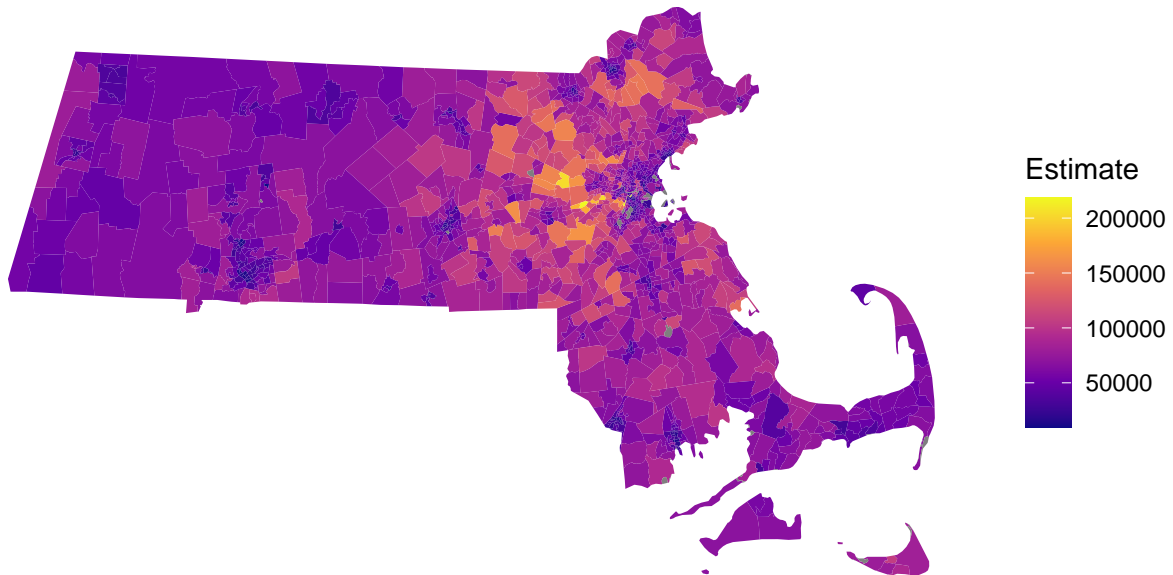
```
options(tigris_use_cache = TRUE)
#2006-2010
vars<-c(`High school graduate or higher` = "DP02_0066P",
        `Bachelors degree or higher` = "DP02_0067P",
        `Median Income` = "B19013_001",
        `Below Poverty Line` = "DP03_0119P")

options(tigris_use_cache = TRUE)
demographics_2010<-get_acs(state = "MA", geography = "tract",
                           variables = vars, year = 2010, geometry = TRUE)

## Getting data from the 2006-2010 5-year ACS
## Fetching data by table type ("B/C", "S", "DP") and combining the result.
#head(demographics_2010)

demographics_2010 %>% filter(variable== "Median Income") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Median Income Distribution by Census Tracts in MA",
        caption = "Data source: 2006-2010 5-year ACS",
        fill = "Estimate") + theme_minimal()
```

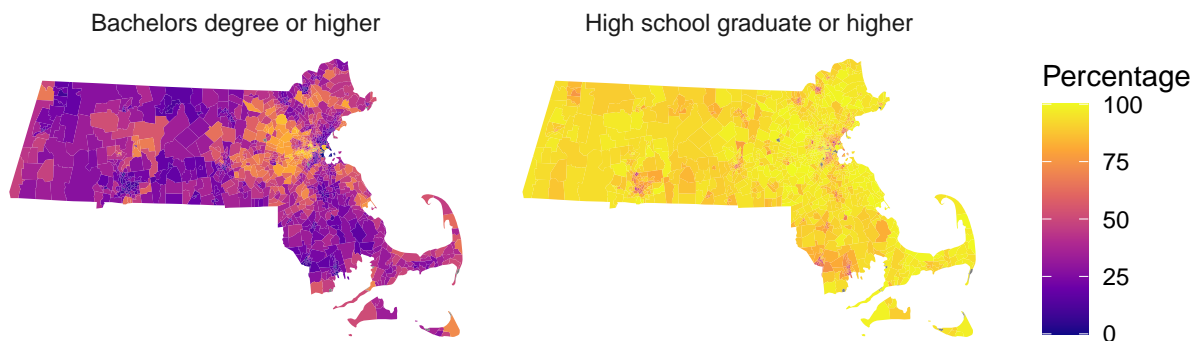
Median Income Distribution by Census Tracts in MA



Data source: 2006–2010 5–year ACS

```
demographics_2010 %>% filter(variable %in% c("High school graduate or higher", "Bachelors degree or higher")) %>%
  facet_wrap(~ variable) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Educational Attainment by Census Tracts in MA",
       caption = "Data source: 2006–2010 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

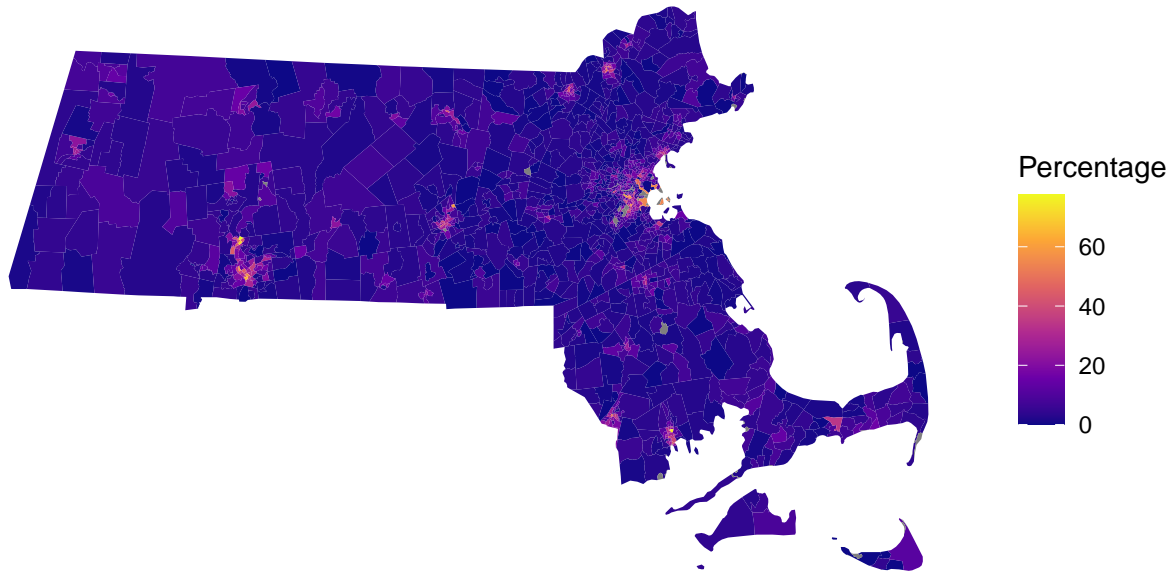
Educational Attainment by Census Tracts in MA



Data source: 2006–2010 5–year ACS

```
demographics_2010 %>% filter(variable=="Below Poverty Line") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Families and people whose income in the past 12 months is below poverty level by Census Tracts in MA",
       caption = "Data source: 2006–2010 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

Families and people whose income in the past 12 months is below poverty level

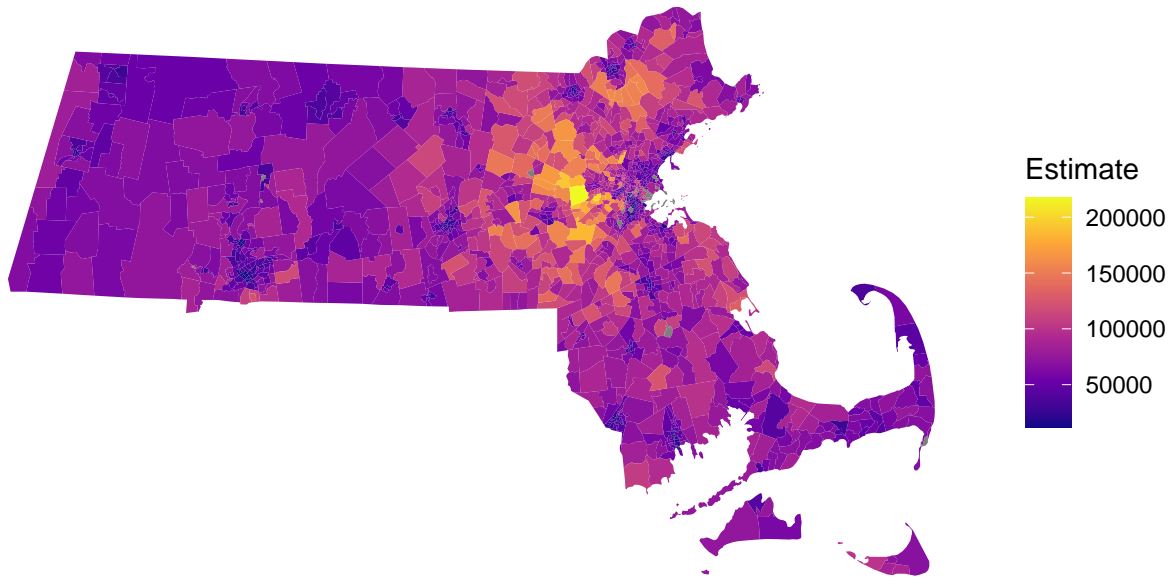


Data source: 2006–2010 5-year ACS

```
#2011-2015
options(tigris_use_cache = TRUE)
demographics_2015<-get_acs(state = "MA", geography = "tract",
                           variables = vars, year = 2015, geometry = TRUE)

## Getting data from the 2011-2015 5-year ACS
## Fetching data by table type ("B/C", "S", "DP") and combining the result.
demographics_2015 %>% filter(variable== "Median Income") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C",direction = 1) +
  labs(title = "Median Income Distribution by Census Tracts in MA",
       caption = "Data source: 2011-2015 5-year ACS",
       fill = "Estimate") + theme_minimal()
```

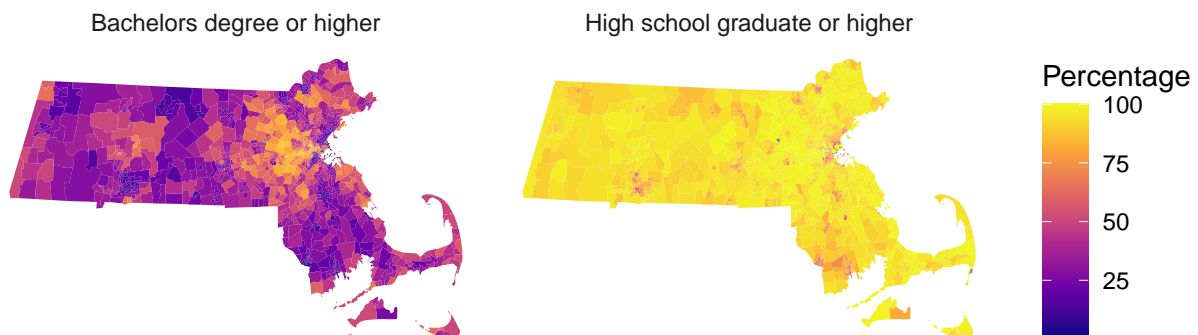
Median Income Distribution by Census Tracts in MA



Data source: 2011–2015 5–year ACS

```
demographics_2015 %>% filter(variable %in% c("High school graduate or higher", "Bachelors degree or higher")) %>%
  facet_wrap(~ variable) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Educational Attainment by Census Tracts in MA",
       caption = "Data source: 2011–2015 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

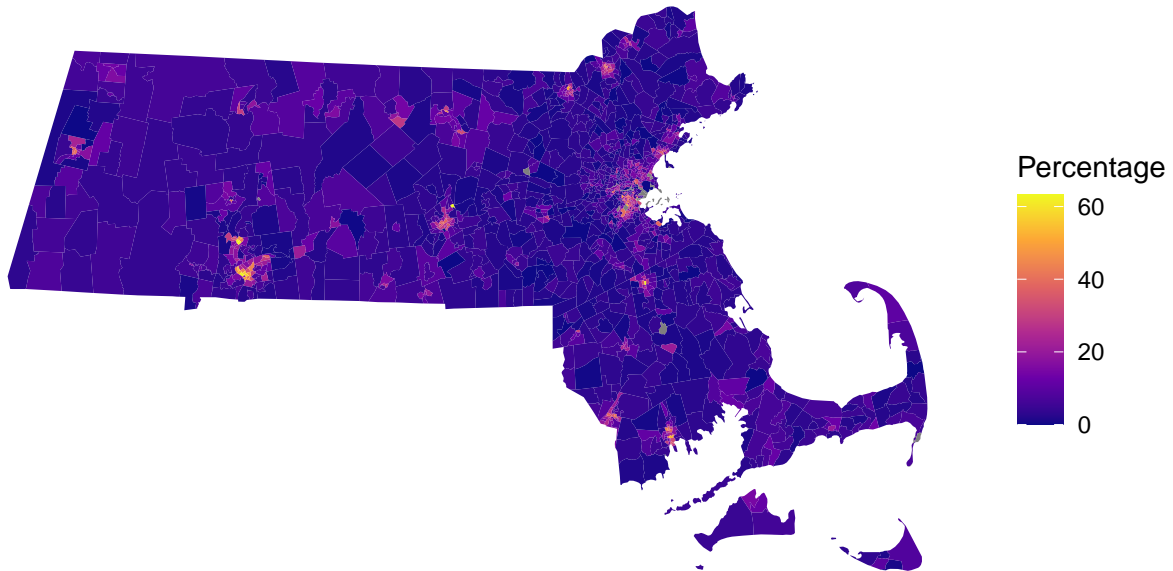
Educational Attainment by Census Tracts in MA



Data source: 2011–2015 5–year ACS

```
demographics_2015 %>% filter(variable=="Below Poverty Line") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Families and people whose income in the past 12 months is below poverty level by Census Tracts in MA",
       caption = "Data source: 2011–2015 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

Families and people whose income in the past 12 months is below poverty level



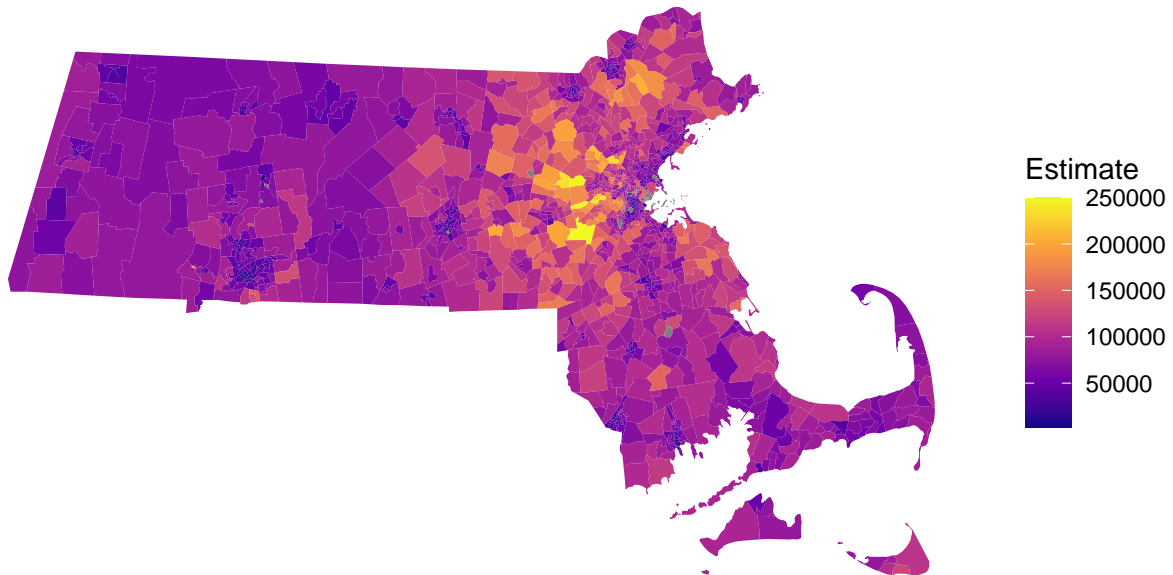
Data source: 2011–2015 5–year ACS

```
#2015-2019
vars1<-c(`High school graduate or higher` = "DP02_0067P",
        `Bachelors degree or higher` = "DP02_0068P",
        `Median Income` = "B19013_001",
        `Below Poverty Line` = "DP03_0119P")

options(tigris_use_cache = TRUE)
demographics_2019<-get_acs(state = "MA", geography = "tract",
                           variables = vars1, year = 2019, geometry = TRUE)

## Getting data from the 2015-2019 5-year ACS
## Fetching data by table type ("B/C", "S", "DP") and combining the result.
demographics_2019 %>% filter(variable== "Median Income") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Median Income Distribution by Census Tracts in MA",
       caption = "Data source: 2015-2019 5-year ACS",
       fill = "Estimate") + theme_minimal()
```

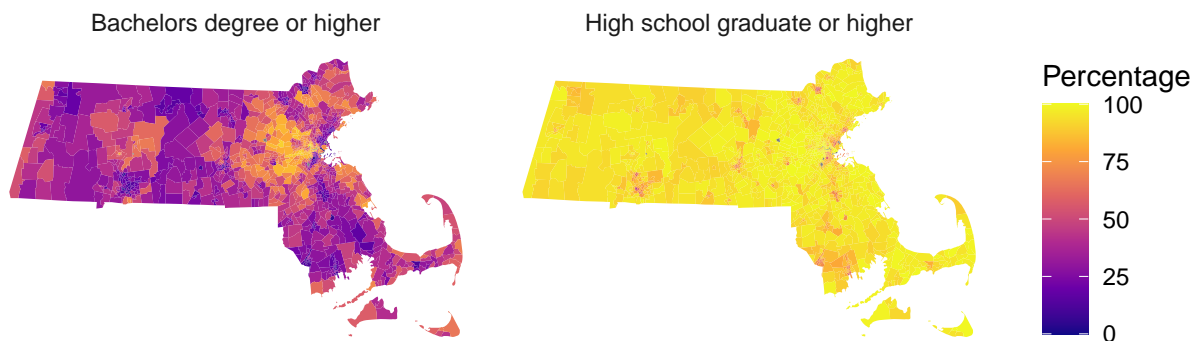
Median Income Distribution by Census Tracts in MA



Data source: 2015–2019 5–year ACS

```
demographics_2019 %>% filter(variable %in% c("High school graduate or higher", "Bachelors degree or higher")) %>%
  facet_wrap(~ variable) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Educational Attainment by Census Tracts in MA",
       caption = "Data source: 2015–2019 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

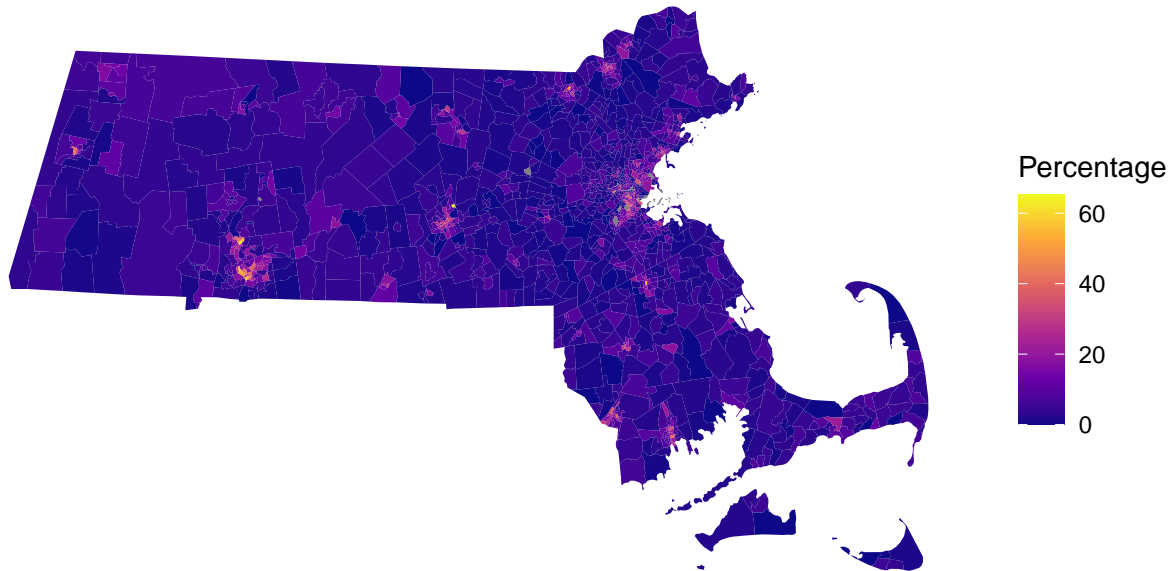
Educational Attainment by Census Tracts in MA



Data source: 2015–2019 5–year ACS

```
demographics_2019 %>% filter(variable=="Below Poverty Line") %>% ggplot(aes(fill = estimate)) +
  geom_sf(color = NA) +
  coord_sf(crs = 6491, datum = NA) +
  scale_fill_viridis_c(option = "C", direction = 1) +
  labs(title = "Families and people whose income in the past 12 months is below poverty level by Census Tracts in MA",
       caption = "Data source: 2015–2019 5–year ACS",
       fill = "Percentage") + theme_minimal()
```

Families and people whose income in the past 12 months is below poverty level



Data source: 2015–2019 5-year ACS