

Viz

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```
library(sf)

## Linking to GEOS 3.10.2, GDAL 3.4.2, PROJ 8.2.1; sf_use_s2() is TRUE

library(terra)

## terra 1.6.47

library(dplyr)

## 
## Attaching package: 'dplyr'

## The following objects are masked from 'package:terra':
## 
##     intersect, union

## The following objects are masked from 'package:stats':
## 
##     filter, lag

## The following objects are masked from 'package:base':
## 
##     intersect, setdiff, setequal, union

library(spData)
library(spDataLarge)
library(tmap)
library(leaflet)
library(ggplot2) # tidyverse data visualization package
```

Virginia

DP03_0018 Estimate!!COMMUTING TO WORK!!Workers 16 years and over

```

library(tidycensus)
options(tigris_use_cache = TRUE)

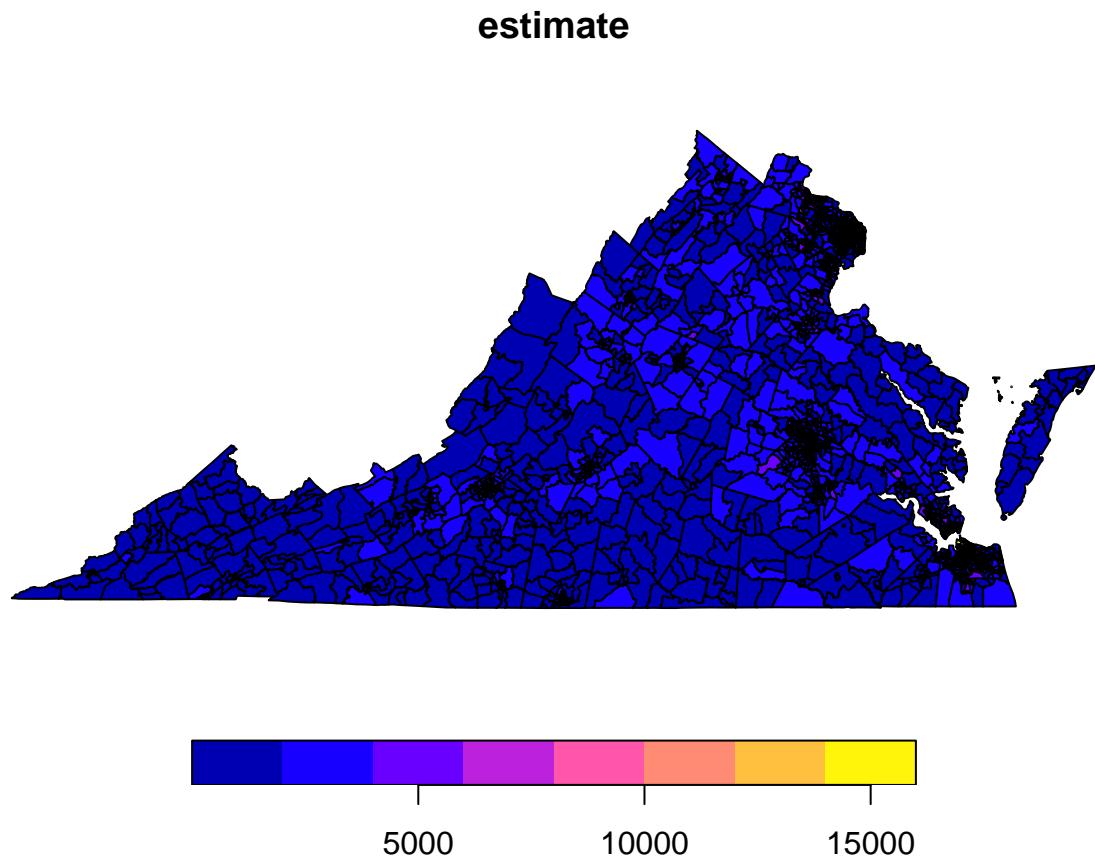
va_commute <- get_acs(
  geography = "tract",
  variables = "DP03_0018",
  state = "VA",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(va_commute["estimate"])

```



DP03_0065 Estimate!!INCOME AND BENEFITS (IN 2021 INFLATION ADJUSTED DOLLARS)!!Total households!!With earnings!!Mean earnings (dollars)

```

library(tidycensus)
options(tigris_use_cache = TRUE)

va_income <- get_acs(

```

```

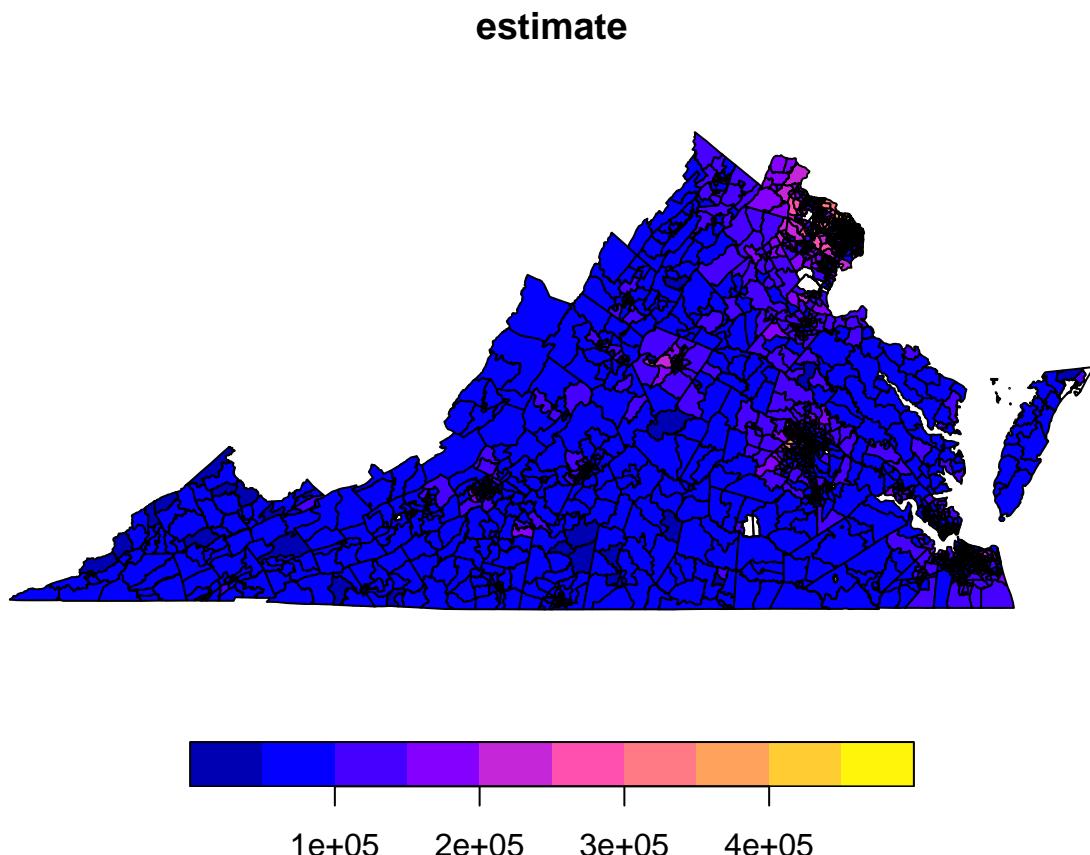
geography = "tract",
variables = "DP03_0065",
state = "VA",
year = 2021,
geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(va_income[["estimate"]])

```



DP03_0095 Estimate!!HEALTH INSURANCE COVERAGE!!Civilian noninstitutionalized population

```

library(tidycensus)
options(tigris_use_cache = TRUE)

va_insurance <- get_acs(
  geography = "tract",
  variables = "DP03_0095",
  state = "VA",
  year = 2021,
  geometry = TRUE
)

```

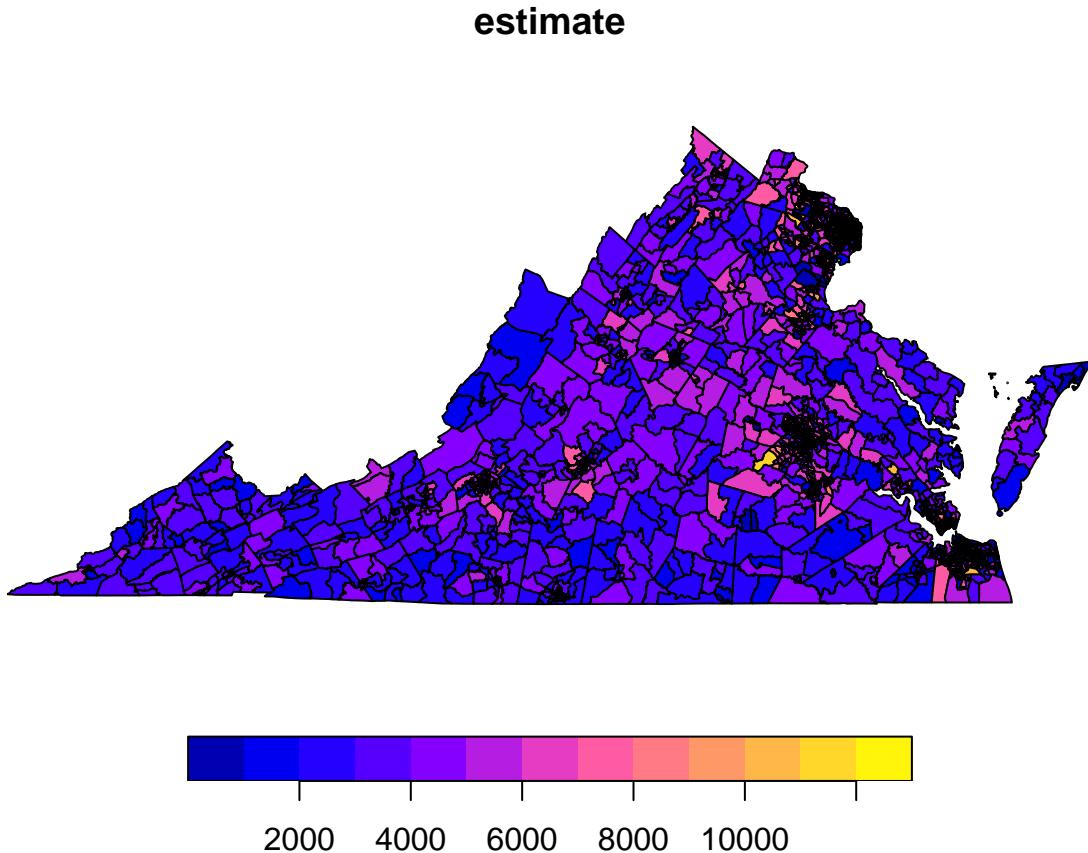
```

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(va_insurance["estimate"])

```



```

library(tidycensus)
options(tigris_use_cache = TRUE)

va_essential <- get_acs(
  geography = "tract",
  variables = "DP03_0042P",
  state = "VA",
  year = 2021,
  geometry = TRUE
)

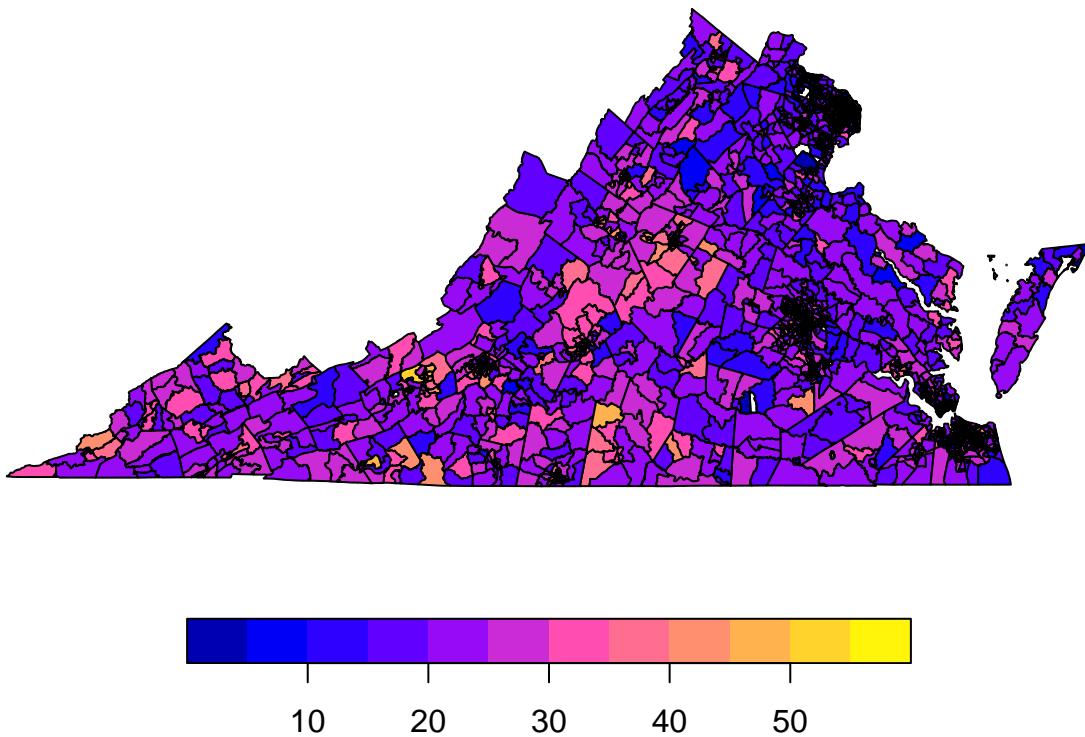
## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

```

```
plot(va_essential["estimate"])
```

estimate



DC

DP03_0018 Estimate!!COMMUTING TO WORK!!Workers 16 years and over

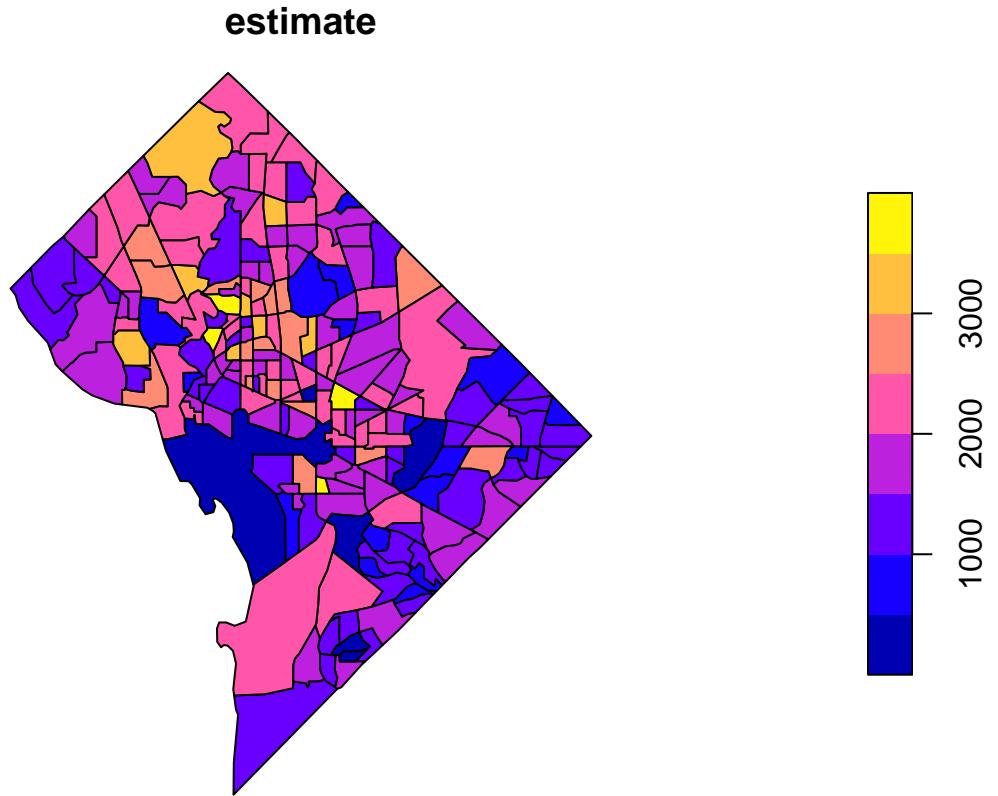
```
library(tidycensus)
options(tigris_use_cache = TRUE)

dc_commute <- get_acs(
  geography = "tract",
  variables = "DP03_0018",
  state = "DC",
  year = 2021,
  geometry = TRUE
)
```

Getting data from the 2017-2021 5-year ACS

Using the ACS Data Profile

```
plot(dc_commute["estimate"])
```



DP03_0065 Estimate!!INCOME AND BENEFITS (IN 2021 INFLATION ADJUSTED DOLLARS)!!Total households!!With earnings!!Mean earnings (dollars)

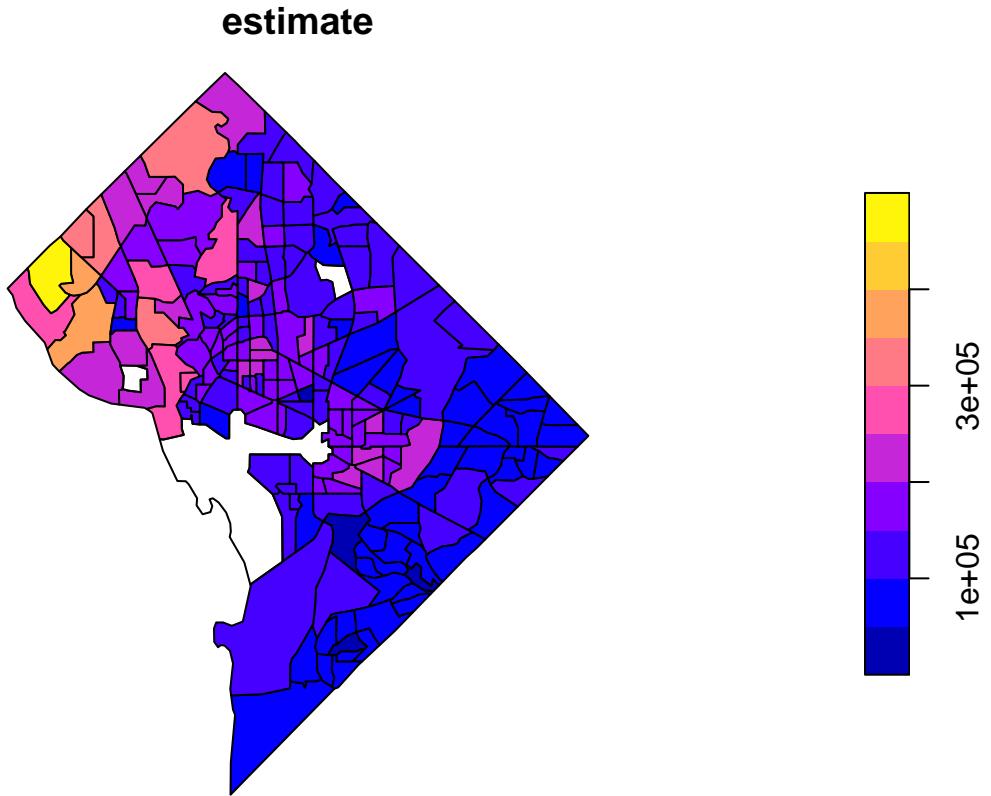
```
library(tidycensus)
options(tigris_use_cache = TRUE)

dc_income <- get_acs(
  geography = "tract",
  variables = "DP03_0065",
  state = "DC",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(dc_income[["estimate"]])
```



DP03_0095 Estimate!!HEALTH INSURANCE COVERAGE!!Civilian noninstitutionalized population

```

library(tidycensus)
options(tigris_use_cache = TRUE)

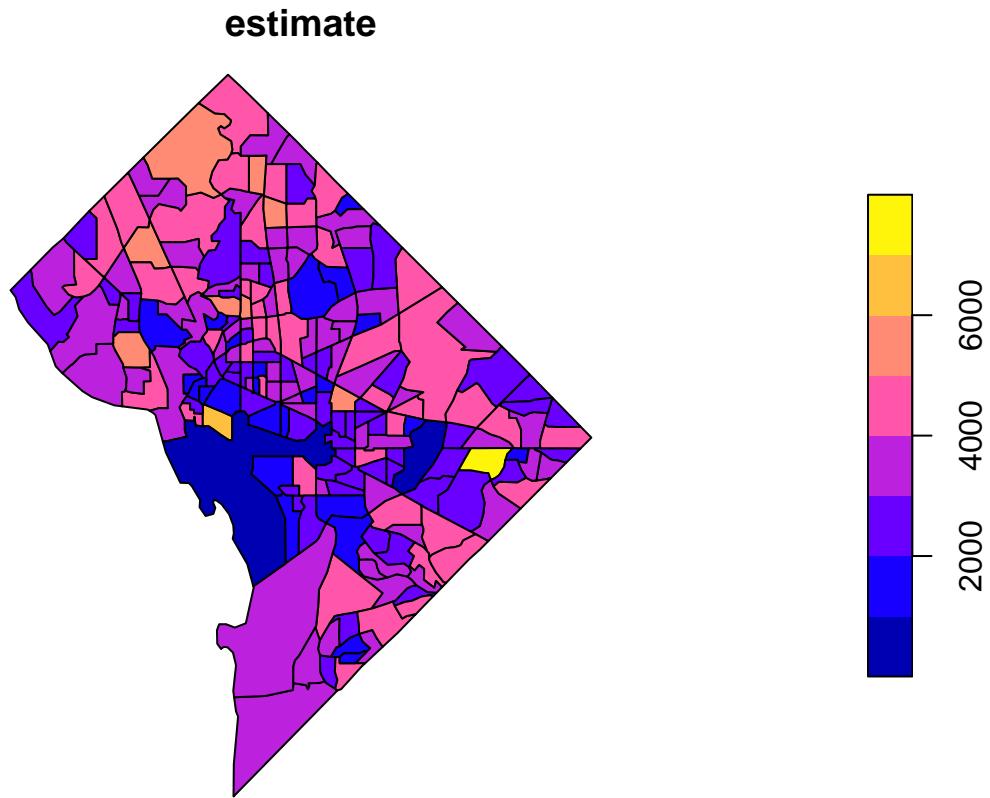
dc_insurance <- get_acs(
  geography = "tract",
  variables = "DP03_0095",
  state = "DC",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

```

```
plot(dc_insurance["estimate"])
```



DP03_0042P Percent!!INDUSTRY!!Civilian employed population 16 years and over!!Educational services, and health care and social assistance

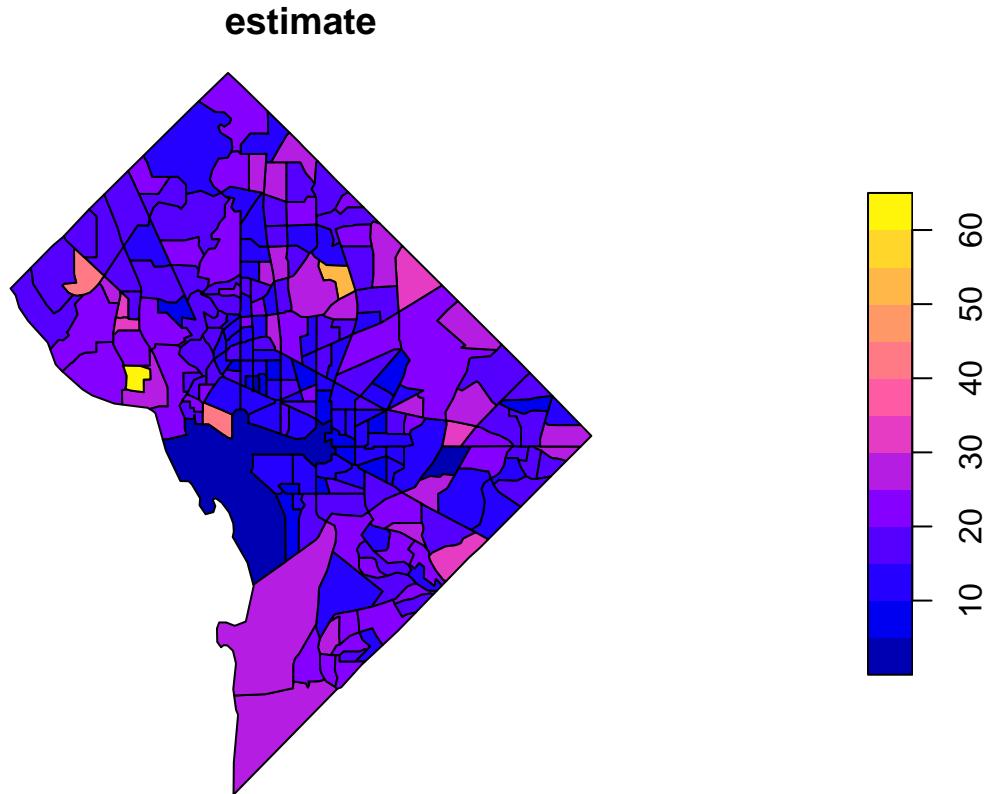
```
library(tidycensus)
options(tigris_use_cache = TRUE)

dc_essential <- get_acs(
  geography = "tract",
  variables = "DP03_0042P",
  state = "DC",
  year = 2021,
  geometry = TRUE
)
```

```
## Getting data from the 2017-2021 5-year ACS
```

```
## Using the ACS Data Profile
```

```
plot(dc_essential["estimate"])
```



Maryland

DP03_0018 Estimate!!COMMUTING TO WORK!!Workers 16 years and over

```
library(tidycensus)
options(tigris_use_cache = TRUE)

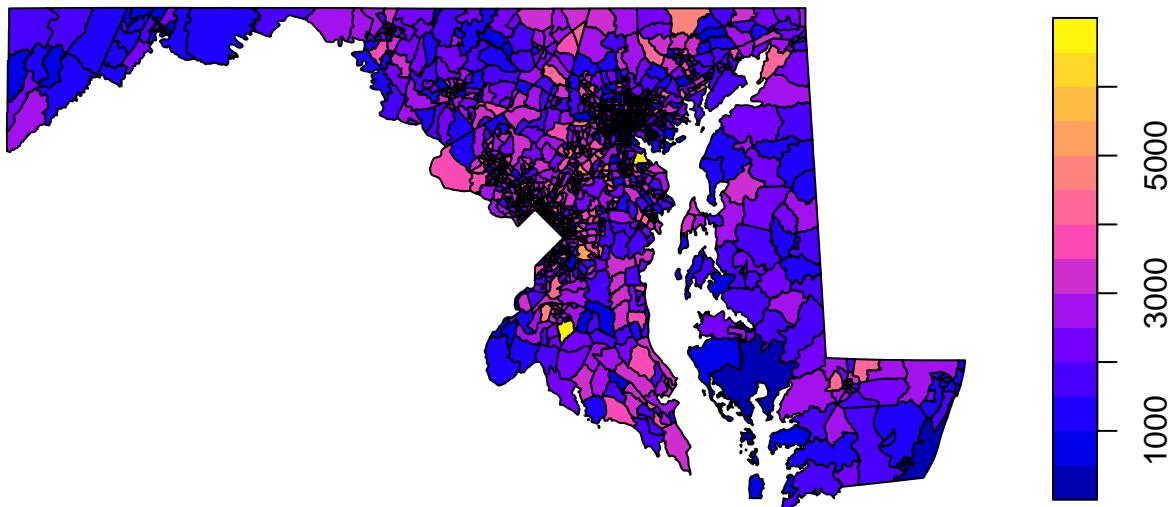
md_commute <- get_acs(
  geography = "tract",
  variables = "DP03_0018",
  state = "MD",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(md_commute[["estimate"]])
```

estimate



DP03_0065 Estimate!!INCOME AND BENEFITS (IN 2021 INFLATION ADJUSTED DOLLARS)!!Total households!!With earnings!!Mean earnings (dollars)

```
library(tidycensus)
options(tigris_use_cache = TRUE)

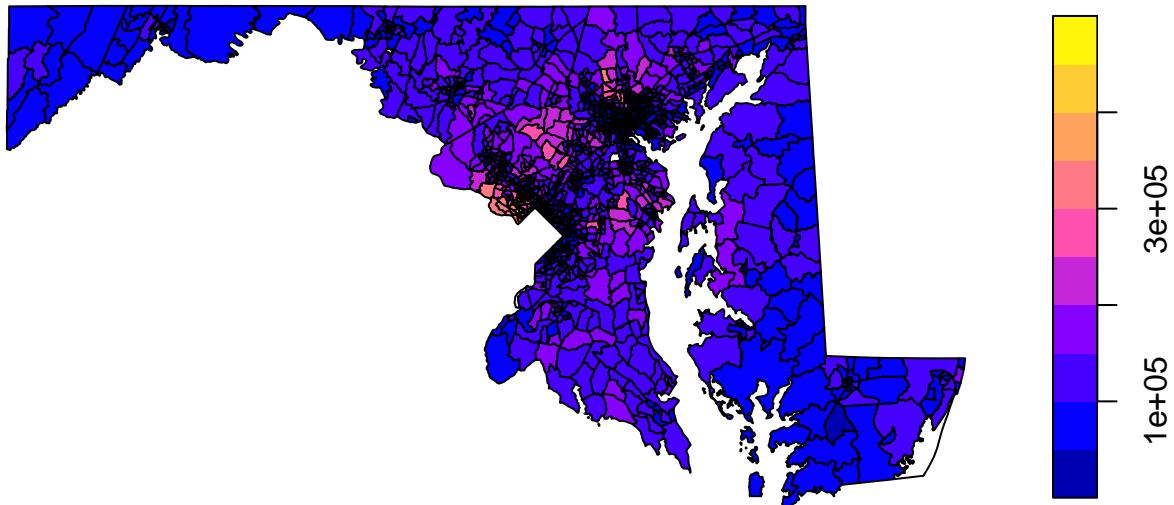
md_income <- get_acs(
  geography = "tract",
  variables = "DP03_0065",
  state = "MD",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile

plot(md_income["estimate"])
```

estimate



DP03_0095 Estimate!!HEALTH INSURANCE COVERAGE!!Civilian noninstitutionalized population

```
library(tidycensus)
options(tigris_use_cache = TRUE)

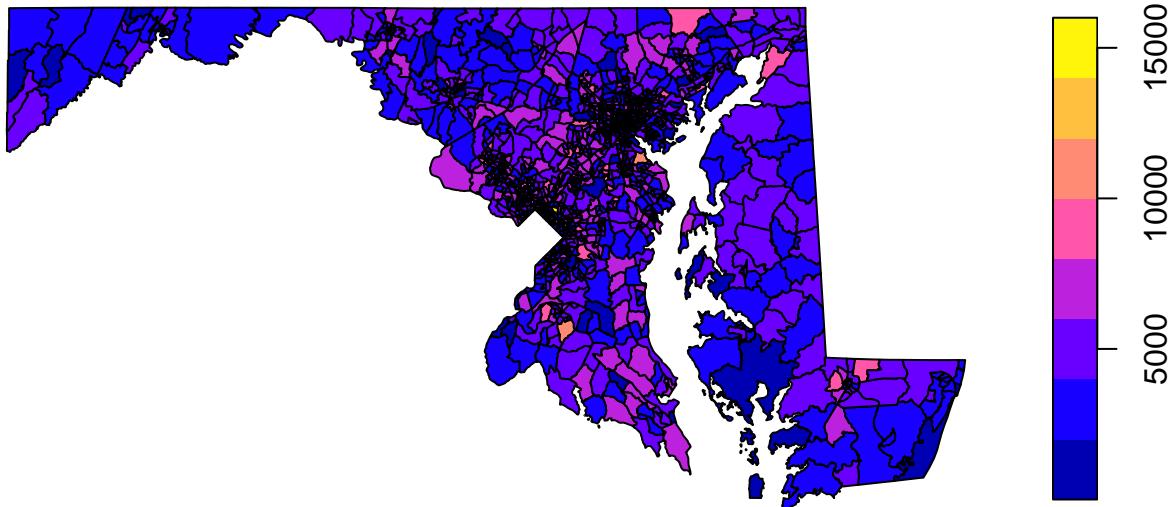
md_insurance <- get_acs(
  geography = "tract",
  variables = "DP03_0095",
  state = "MD",
  year = 2021,
  geometry = TRUE
)

## Getting data from the 2017-2021 5-year ACS

## Using the ACS Data Profile
```

```
plot(md_insurance["estimate"])
```

estimate



DP03_0042P Percent!!INDUSTRY!!Civilian employed population 16 years and over!!Educational services, and health care and social assistance

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library(tidycensus)
options(tigris_use_cache = TRUE)

md_essential <- get_acs(
  geography = "tract",
  variables = "DP03_0042P",
  state = "MD",
  year = 2021,
  geometry = TRUE
)
```

```
## Getting data from the 2017-2021 5-year ACS
```

```
## Using the ACS Data Profile
```

```
plot(md_essential["estimate"])
```

estimate

