

hdatools test document

1/28/23

```
library(tidyverse)
library(tidycensus)
library(hdatools)
library(scales)

# List six localities in Richmond, Virginia area

localities <- c("Richmond city", "Chesterfield County", "Henrico County",
               "Hanover County", "Goochland County", "Powhatan County")

# Load median household income and median gross rent from 2017-2021 ACS 5-year estimates

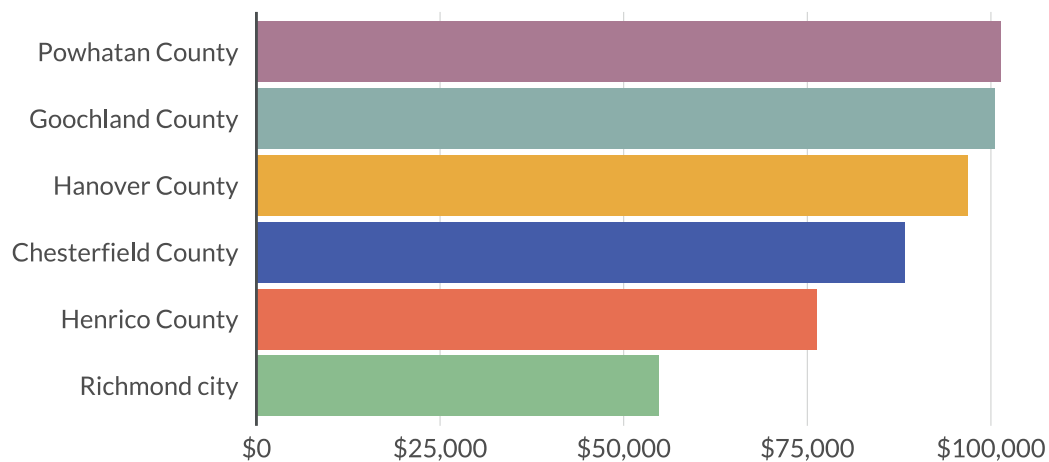
data <- get_acs(
  geography = "county",
  state = "Virginia",
  county = localities,
  variables = c("B19013_001", "B25031_001"),
  year = 2021
) |>
mutate(NAME = str_remove(NAME, ", Virginia")) |>
mutate(variable = case_when(
  variable == "B25031_001" ~ "Median gross rent",
  variable == "B19013_001" ~ "Median household income"
))
```

theme_hda()

```
data |>
  filter(variable == "Median household income") |>
  ggplot(aes(x = estimate, y = reorder(NAME, estimate), fill = NAME)) +
  geom_col() +
  scale_fill_hda() +
  scale_x_continuous(labels = label_dollar()) +
  theme_hda() +
  flip_gridlines() +
  add_zero_line("x") +
  labs(
    title = "Households in the suburbs have the highest incomes",
    subtitle = "Median household income (2021 dollars)",
    label = "label",
    caption = "***Source:** American Community Survey, 2017-2021 5-year estimates.<br>***Not
  ) +
  theme(
    axis.text.y = element_text(margin =
                                margin(r = -10, unit = "pt"))
  )
```

Households in the suburbs have the highest incomes

Median household income (2021 dollars)



Source: American Community Survey, 2017-2021 5-year estimates.

Note: Incomes adjusted to 2021 dollars.