

hdatools test document

2023-04-11

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

# 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_hfv()

Test theme.

```

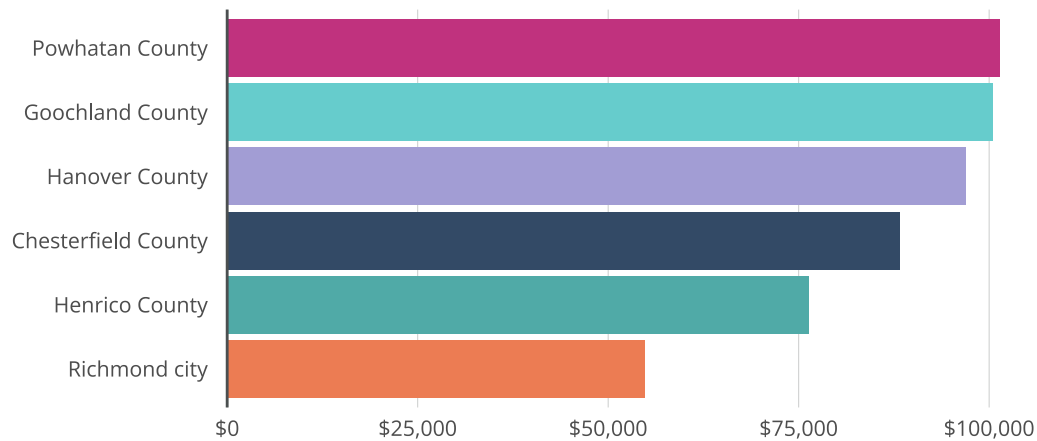
plot <- data |>
  filter(variable == "Median household income") |>
  ggplot(
    aes(
      x = estimate,
      y = reorder(NAME, estimate),
      fill = NAME,
      data_id = estimate,
      tooltip = label_dollar()(estimate)
    )
  ) +
  geom_col() +
  geom_col_interactive() +
  scale_fill_hfv() +
  scale_x_continuous(labels = label_dollar()) +
  theme_hfv(base_size = 10, flip_gridlines = TRUE) +
  add_zero_line("x") +
  labs(
    title = "Did you know that households in the Richmond 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"))
  )

plot

```

Did you know that households in the Richmond suburbs have the highest incomes in the region?

Median household income (2021 dollars)



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

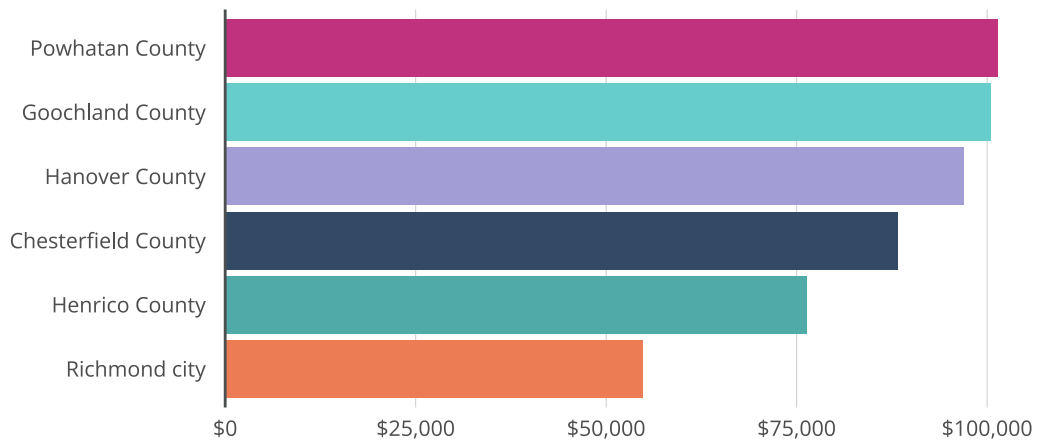
Note: Incomes adjusted to 2021 dollars.

Test `ggiraph`.

```
if (knitr::is_html_output()) {  
  girafe(ggobj = plot,  
        height_svg = 4.5)  
} else {  
  plot  
}
```

Did you know that households in the Richmond suburbs have the highest incomes in the region?

Median household income (2021 dollars)



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

Note: Incomes adjusted to 2021 dollars.