

# hdatools test document

4/7/23

```
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.

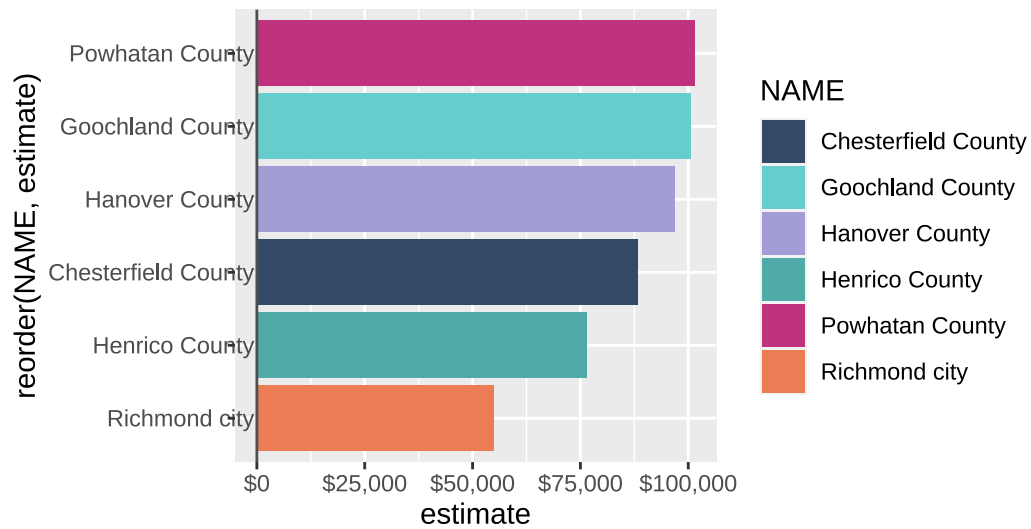
```

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 subu Median household income (2021 dollars)



2015-2019 5-year estimates. **Note:** Incomes adjusted to 2021 dollars.

```
# girafe(ggobj = plot, height_svg = 4)
```

Test ggiraph.

```
fn <- function(
  plot = NULL,
  flip_gridlines = FALSE,
  height_svg = 4) {

  if (knitr::is_html_output()) {

    html <- plot +
      theme_hfv(
        base_size = 9,
        flip_gridlines = flip_gridlines
      )

    girafe(
      ggobj = html,
      height_svg = height_svg
    )
  }
}
```

```

} else {

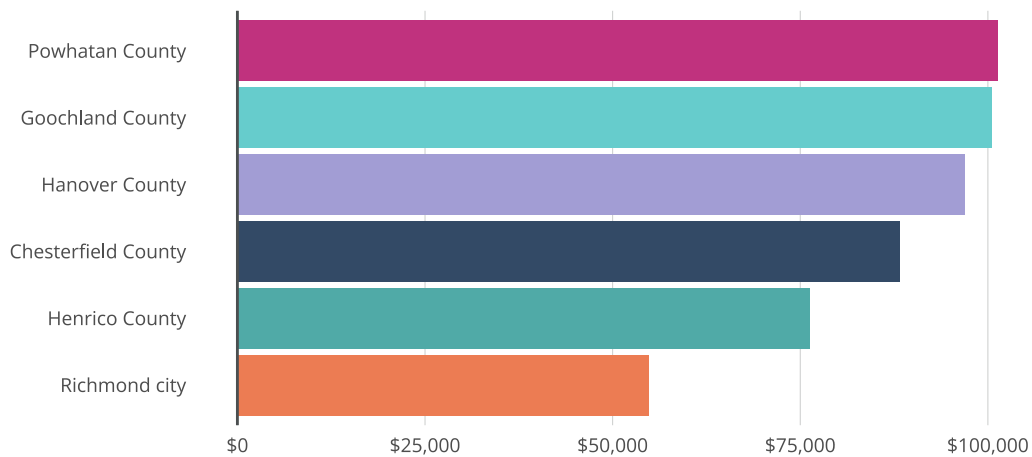
  plot + theme_hfv(
    base_size = 9,
    flip_gridlines = flip_gridlines
  )
}
}

fn(plot, flip_gridlines = TRUE)

```

## 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.