statebins plots

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[data source: 2017 Median Household Income by State (percent change)]https://geofred.stlouisfed.org/map/?th=bugn&cc=2&rc=false&im=user&sb&lng=-90.00&lat=39.98&zm=4&sl&sv&am=Average&at=Not%20Seasonally%20Adjusted,%20Annual,%20Current%20Dollars&sti=165&fq=Annual&rt=state&un=pch&dt=2017-01-01&ibs=0,20000000 [data source: 2017 Per Capita Personal Income by State (dollars)]https://geofred.stlouisfed.org/map/?th=ylorbr&cc=8&rc=false&im=fractile&sb&lng=-105.56&lat=43.80&zm=4&sl&sv&am=Average&at=Not%20Seasonally%20Adjusted,%20Annual,%20Dollars&sti=882&fq=Annual&rt=state&un=lin&dt=2017-01-01

load and library packages

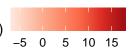
read data

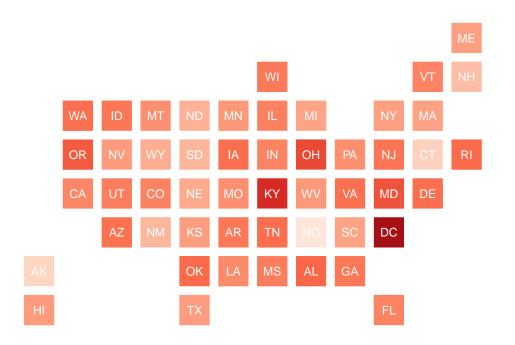
```
library(readxl)
Household Income <- read excel("GeoFRED Median Household Income by State Percent Change.xls",
                               col types = c("text", "text", "text",
        "numeric"))
colnames(Household_Income) <-c("ID", "state", "code", "value")</pre>
str(Household_Income)
## Classes 'tbl_df', 'tbl' and 'data.frame':
                                                51 obs. of 4 variables:
         : chr "MEHOINUSALA646N" "MEHOINUSAKA646N" "MEHOINUSAZA646N" "MEHOINUSARA646N" ...
## $ state: chr
                 "Alabama" "Alaska" "Arizona" "Arkansas" ...
## $ code : chr "01" "02" "04" "05" ...
## $ value: num 8.24 -4.61 7.05 6.37 4.69 ...
Personal_Income <- read_excel("GeoFRED_Per_Capita_Personal_Income_by_State_Dollars.xls",
    col_types = c("text", "text", "text",
        "numeric"))
colnames(Personal_Income) <-c("ID", "state", "code", "value")</pre>
str(Personal_Income)
## Classes 'tbl_df', 'tbl' and 'data.frame':
                                                51 obs. of 4 variables:
## $ ID : chr "ALPCPI" "AKPCPI" "AZPCPI" "ARPCPI" ...
## $ state: chr "Alabama" "Alaska" "Arizona" "Arkansas" ...
```

```
## $ code : chr "01" "02" "04" "05" ...
## $ value: num 40805 57179 42280 41046 59796 ...
library(maps)
us_states <- map_data("state")</pre>
head(us_states)
          long
                   lat group order region subregion
## 1 -87.46201 30.38968
                                 1 alabama
                                                <NA>
                          1
## 2 -87.48493 30.37249
                           1
                                 2 alabama
                                                <NA>
                                3 alabama
## 3 -87.52503 30.37249
                                                <NA>
                           1
## 4 -87.53076 30.33239
                           1
                                4 alabama
                                                <NA>
## 5 -87.57087 30.32665
                         1
                               5 alabama
                                                <NA>
## 6 -87.58806 30.32665
                           1
                                 6 alabama
                                                <NA>
library(statebins)
```

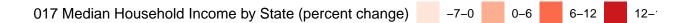
2017 Median Household Income by State (percent change)

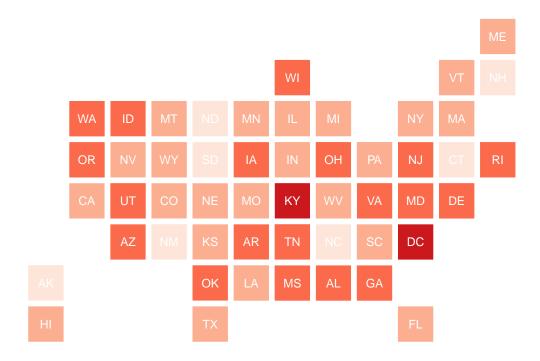
2017 Median Household Income by State (percent change)





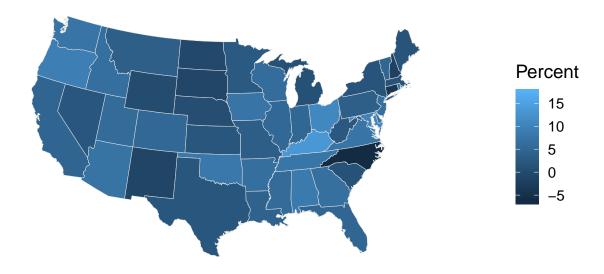
Warning: `show_guide` has been deprecated. Please use `show.legend`
instead.



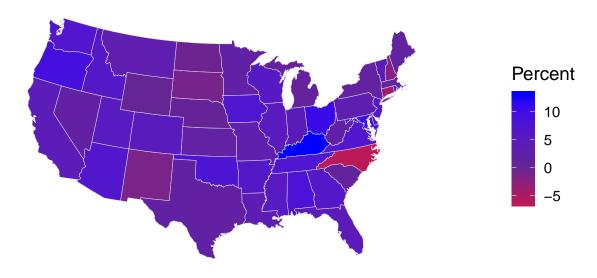


Other practice

2017 Median Household Income by State



2017 Median Household Income by State

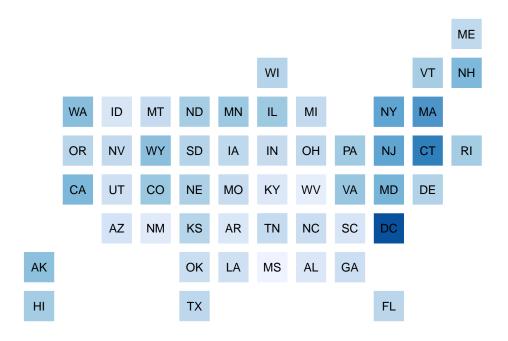


2017 Per Capita Personal Income by State (dollars)

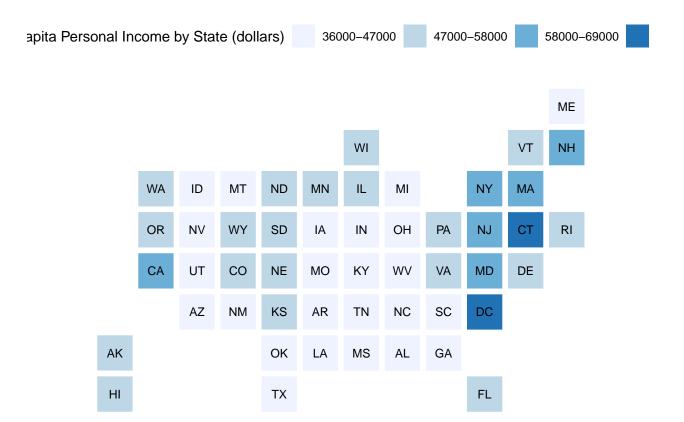
Warning: `show_guide` has been deprecated. Please use `show.legend`
instead.

2017 Per Capita Personal Income by State (dollars)





Warning: `show_guide` has been deprecated. Please use `show.legend`
instead.



Other practice

2017 Per Capita Personal Income by State (dollars)

