

characteristics_eda

Characteristics Dataframe Function

Generate Characteristic Dataframes For All State

```
measures_pa <- read.csv('../data/raw/Pennsylvania_State_Data/measures.csv')
data_pa <- read.csv('../data/raw/Pennsylvania_State_Data/data-2009-2013.csv')
pa_char <- merge_char_data(data_pa_comb, data_pa, measures_pa, "pa_characteristics_all.csv")

## Warning: The `path` argument of `write_csv()` is deprecated as of readr 1.4.0.
## i Please use the `file` argument instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.

measures_or <- read.csv('../data/raw/Oregon_State_Data/measures.csv')
data_or <- read.csv('../data/raw/Oregon_State_Data/data-2009-2013-or.csv')
or_char <- merge_char_data(data_or_comb, data_or, measures_or, "or_characteristics_all.csv")

measures_fl <- read.csv('../data/raw/Florida_State_Data/measures.csv')
data_fl <- read.csv('../data/raw/Florida_State_Data/data-2009-2013-fl.csv')
fl_char <- merge_char_data(data_fl_comb, data_fl, measures_fl, "fl_characteristics_all.csv")
```

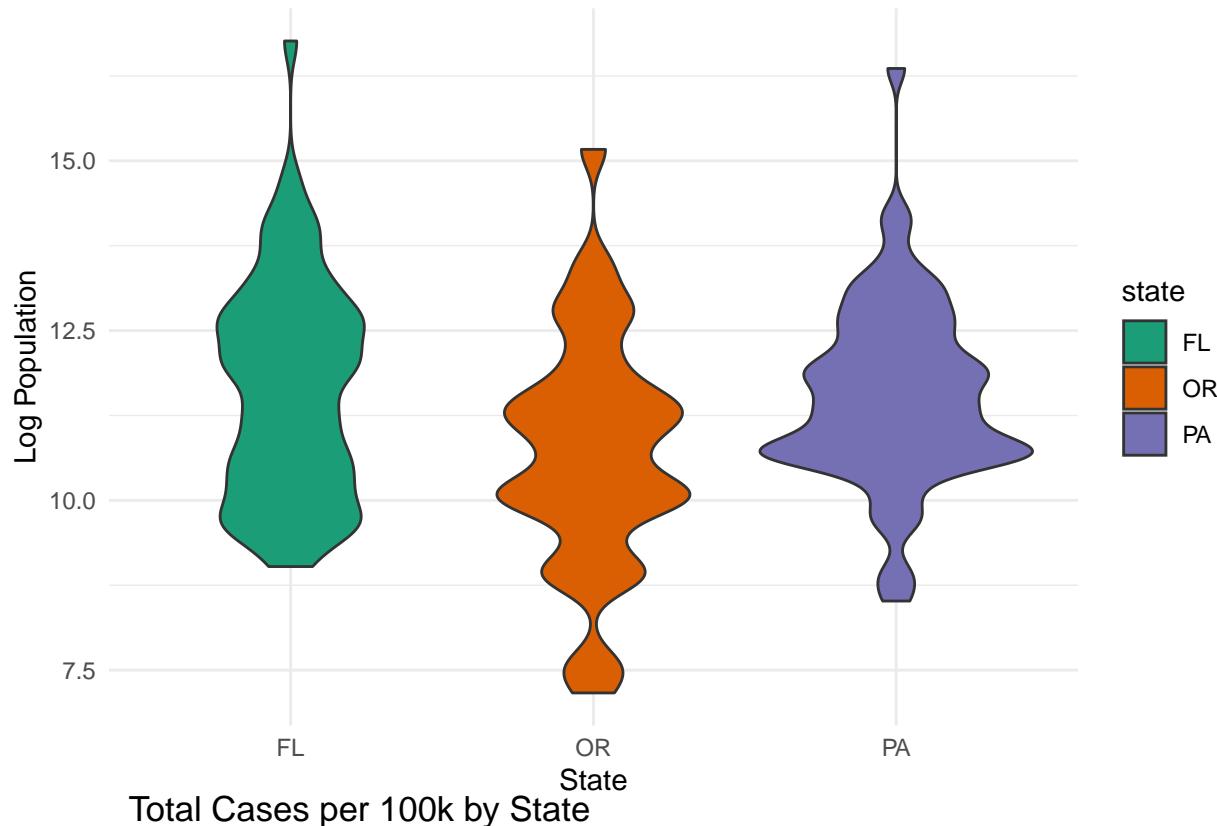
All States Master Dataframe

```
pa_char$state <- "PA"
or_char$state <- "OR"
fl_char$state <- "FL"

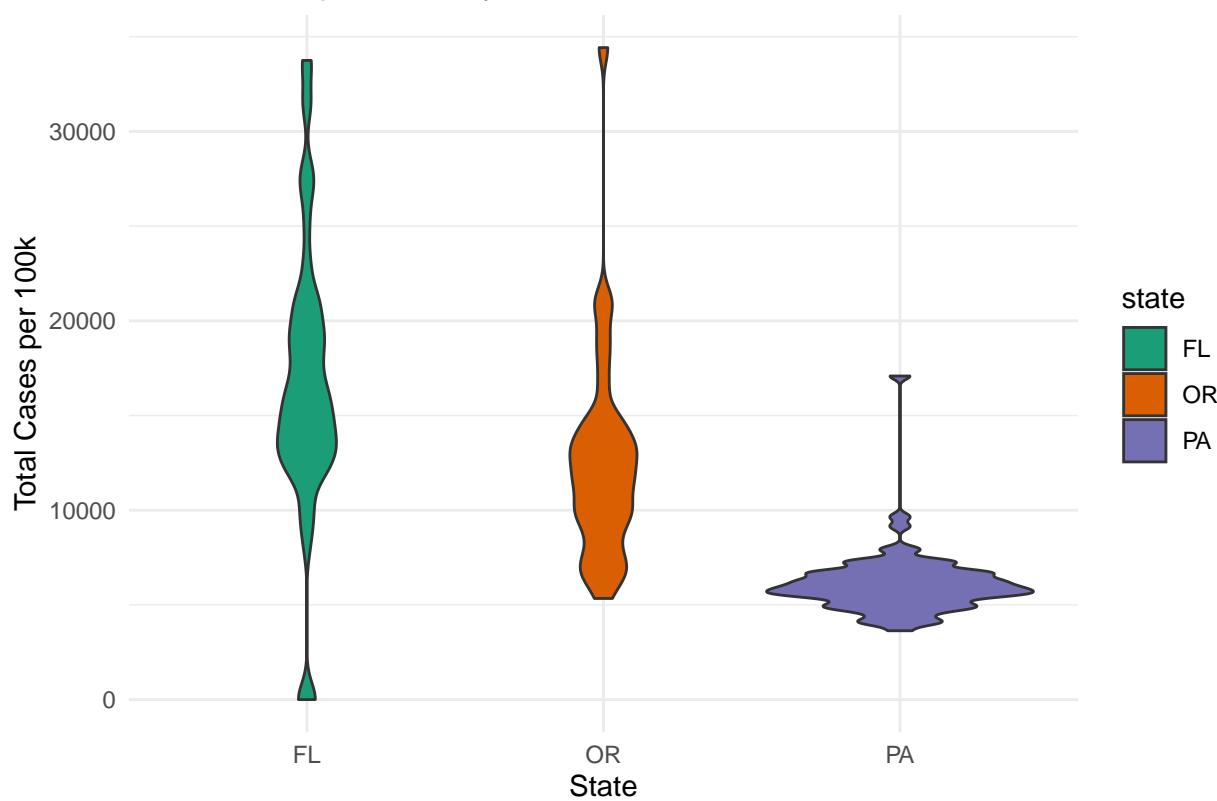
master_df <- bind_rows(pa_char, or_char, fl_char)
write_csv(master_df, path = "master_char.csv")
```

Box Plots, Characteristics by State

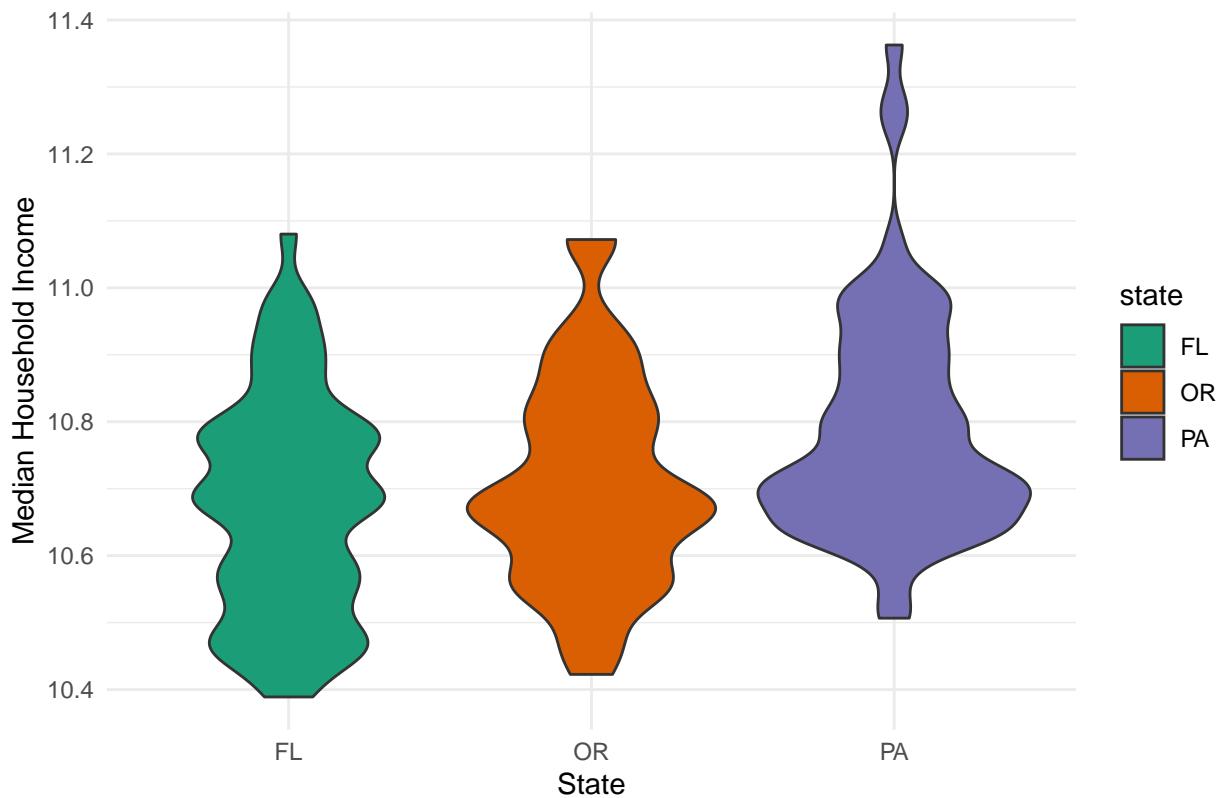
Population by State



Total Cases per 100k by State

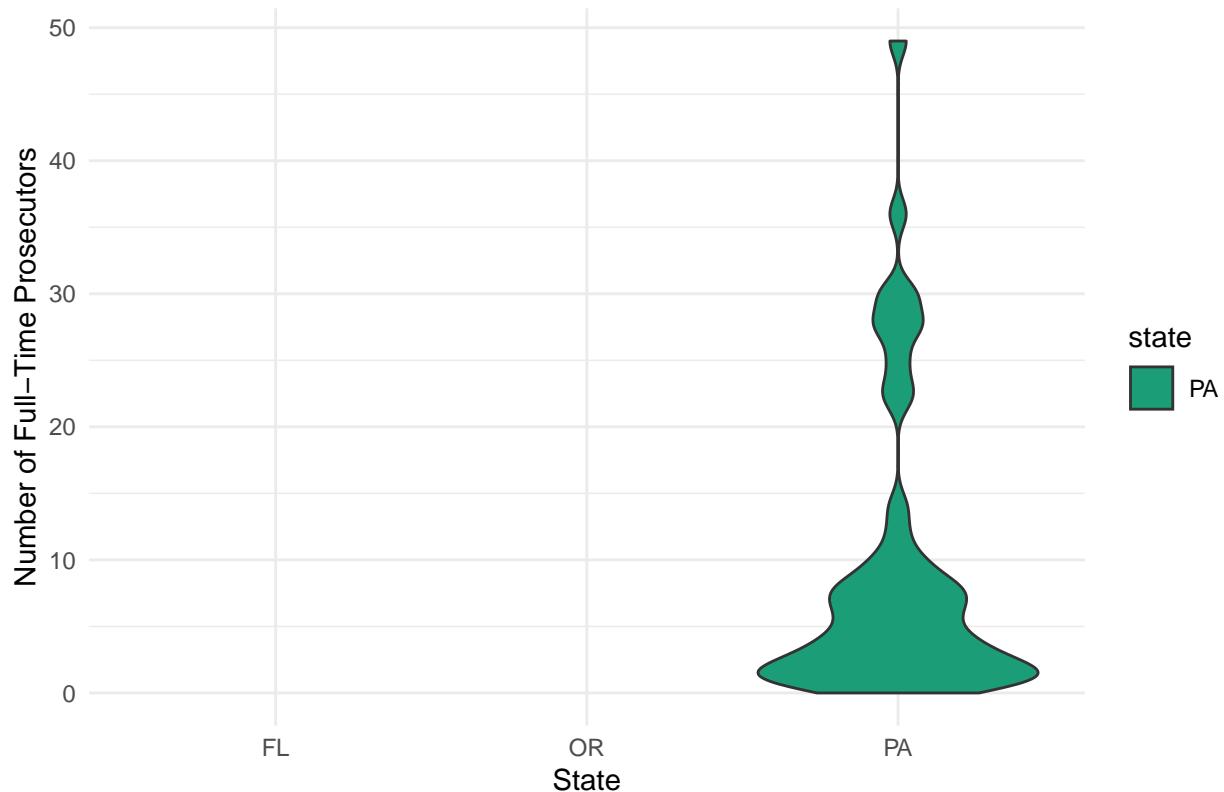


Median Household Income by State



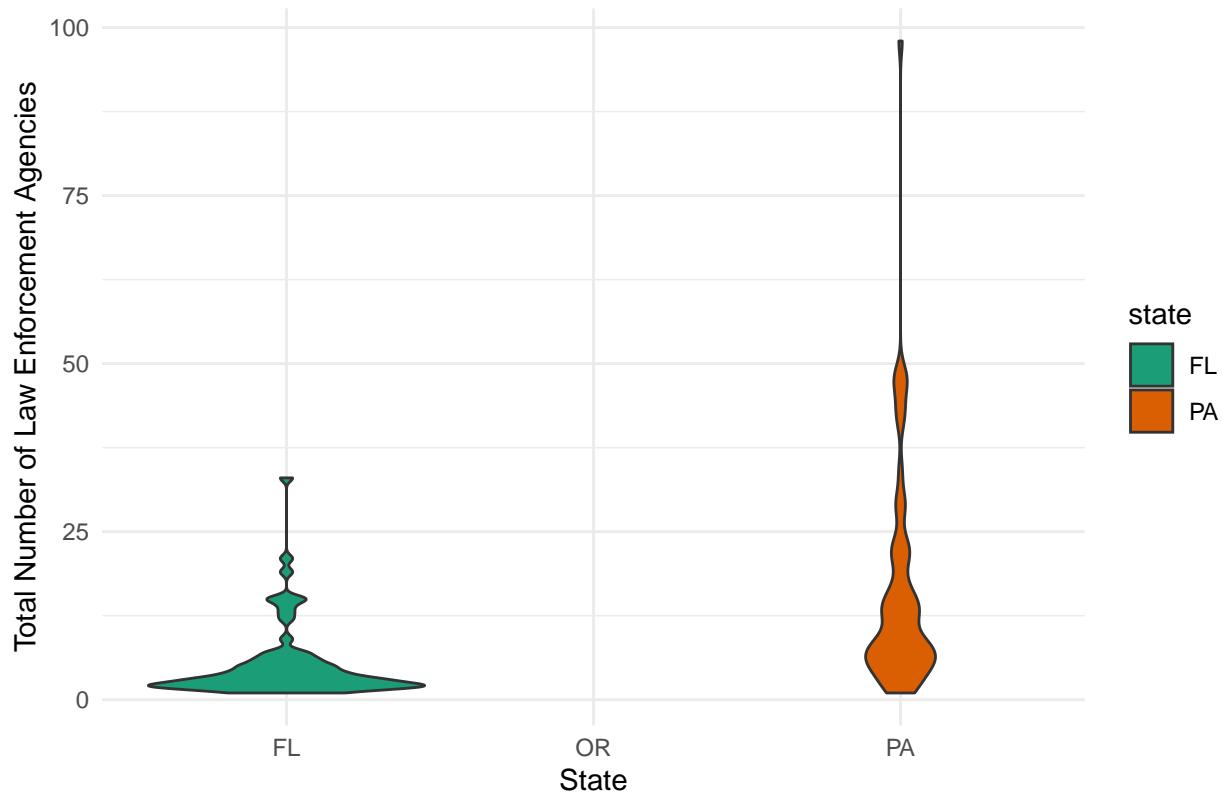
```
## Warning: Removed 4867 rows containing non-finite outside the scale range
## (`stat_ydensity()`).
```

Number of Full-Time Prosecutors by State



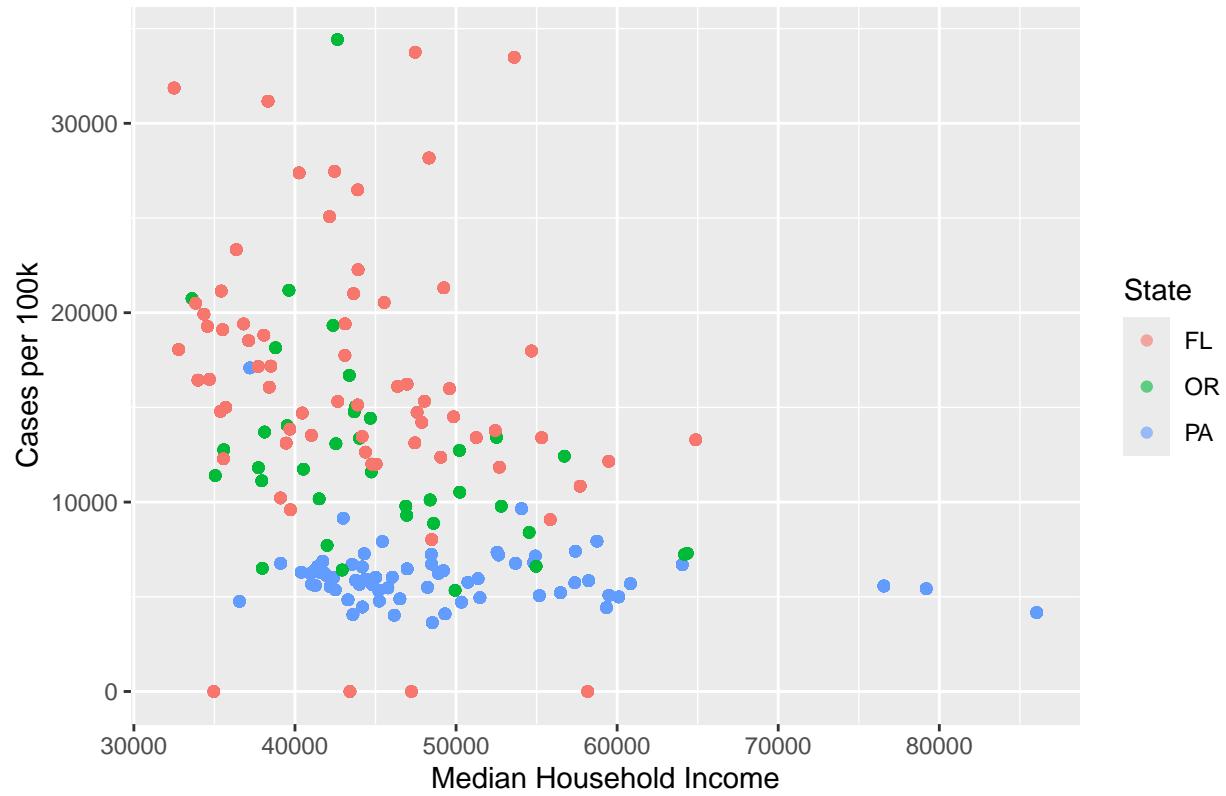
```
## Warning: Removed 1205 rows containing non-finite outside the scale range
## (`stat_ydensity()`).
```

Total Number of Law Enforcement Agencies by State



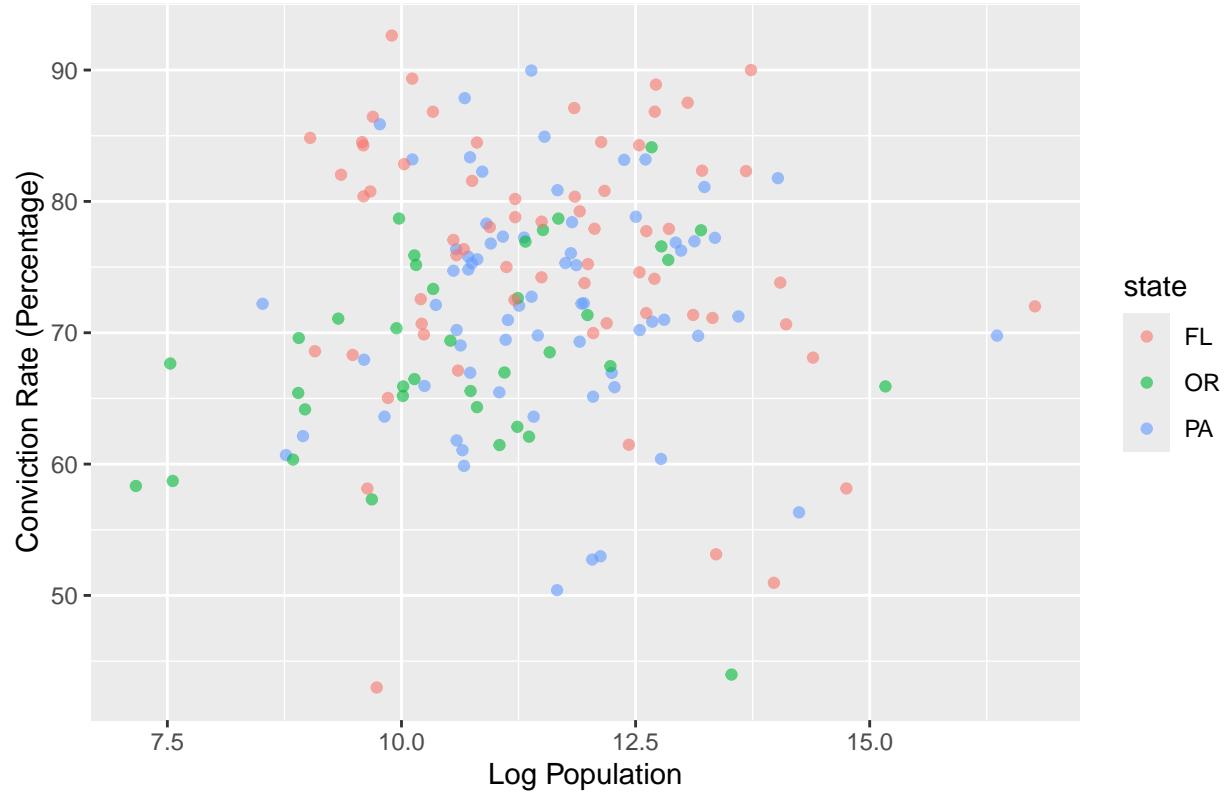
Characteristics Scatter Plots

Total Cases per 100k vs Median Income



Conviction Rates Plots

Conviction Rate vs Population



```
## Ignoring unknown labels:  
## * colour : "State"
```

Distribution of Conviction Rates by State

