STAT 471: Midterm Exam Dry Run

Please make sure you can successfully compile this document to PDF well in advance of the midterm exam. If not, please consult the teaching staff for help as soon as possible.

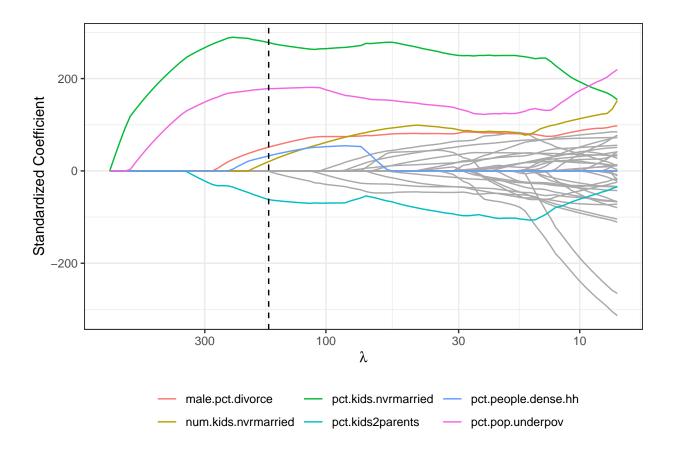
1 Test load packages

```
library(kableExtra)
                                        # for printing tables
## Warning: package 'kableExtra' was built under R version 4.1.1
library(cowplot)
                                        # for side by side plots
## Warning: package 'cowplot' was built under R version 4.1.1
library(glmnetUtils)
                                        # to run ridge and lasso
## Warning: package 'glmnetUtils' was built under R version 4.1.1
library(lubridate)
                                        # for dealing with dates
library(maps)
                                        # for creating maps
source("../../functions/plot_glmnet.R") # for lasso/ridge trace plots
library(tidyverse)
                                        # for everything else
## Warning: package 'tibble' was built under R version 4.1.1
## Warning: package 'tidyr' was built under R version 4.1.1
## Warning: package 'readr' was built under R version 4.1.1
```

2 Test glmnetUtils

3 Test plot_glmnet

```
plot_glmnet(lasso_fit, crime_data, features_to_plot = 6)
```



4 Test maps

Figure 1 displays a map of Florida.

5 Test kableExtra

Table 1 displays a simple table.

```
tibble(x = 1:5, y = 6:10) %>%
kable(format = "latex", row.names = NA,
booktabs = TRUE, digits = 2,
col.names = c("Column 1", "Column 2"),
```

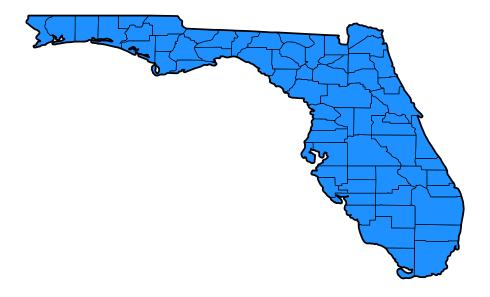


Figure 1: This is ia map of Florida.

Table 1: This is a simple table.

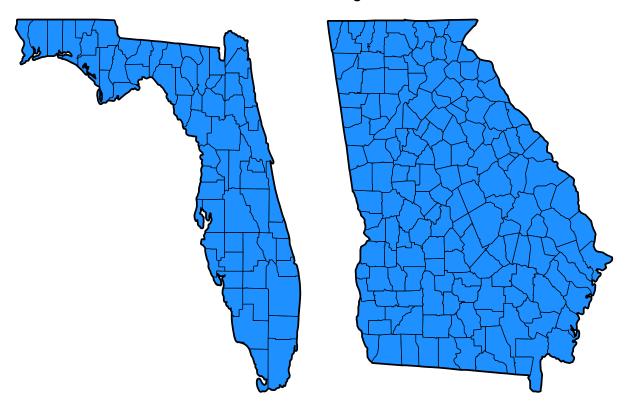
Column 1	Column 2
1	6
2	7
3	8
4	9
5	10

```
caption = "This is a simple table.") %>%
kable_styling(position = "center")
```

6 Test cowplot

Florida

Georgia



7 Test lubridate

```
# extract today's date
date = today()
date
```

[1] "2021-10-25"

```
# extract day
day(date)

## [1] 25
# extract month
month(date)

## [1] 10
# extract year
year(date)
```

[1] 2021