Final Project

CP

2022-12-06

```
## Warning: package 'data.table' was built under R version 4.2.2
## -- Attaching packages ------ tidyverse 1.3.2 --
## v ggplot2 3.3.6
                      v purrr
                                0.3.4
## v tibble 3.1.8
                      v dplyr
                                1.0.9
## v tidyr
            1.2.0
                      v stringr 1.4.1
## v readr
            2.1.2
                      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::between()
                       masks data.table::between()
## x dplyr::filter()
                       masks stats::filter()
## x dplyr::first()
                       masks data.table::first()
## x dplyr::lag()
                       masks stats::lag()
## x dplyr::last()
                       masks data.table::last()
## x purrr::transpose() masks data.table::transpose()
## [1] 189510
##
##
               Alabama
                                     Alaska
                                                         Arizona
                   478
                                        959
                                                            1080
##
               Arkansas
                                 California
                                                        Colorado
##
                   502
                                       2748
##
           Connecticut
                                   Delaware District of Columbia
##
                   595
                                        432
##
               Florida
                                    Georgia
                                                          Hawaii
                  1326
                                        789
                                                             431
##
                 Idaho
                                   Illinois
                                                         Indiana
##
                   801
                                        989
                                                             776
##
                  Iowa
                                     Kansas
                                                        Kentucky
##
                   670
                                        712
                                                             537
             Louisiana
                                      Maine
##
                                                        Maryland
##
                   448
                                        337
                                                             954
##
         Massachusetts
                                   Michigan
                                                       Minnesota
##
                   1076
                                                             935
                                        837
##
           Mississippi
                                   Missouri
                                                         Montana
##
                   290
                                        631
                                                             475
##
              Nebraska
                                     Nevada
                                                   New Hampshire
##
                   607
                                        613
                                                             571
##
            New Jersey
                                 New Mexico
                                                        New York
##
                   667
                                        796
                                                             803
        North Carolina
                               North Dakota
                                                            Ohio
```

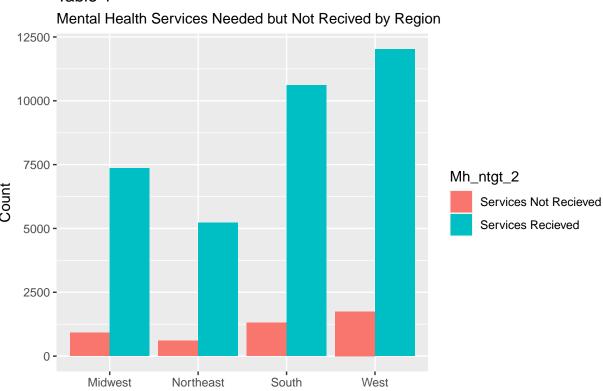
593

388

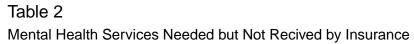
##

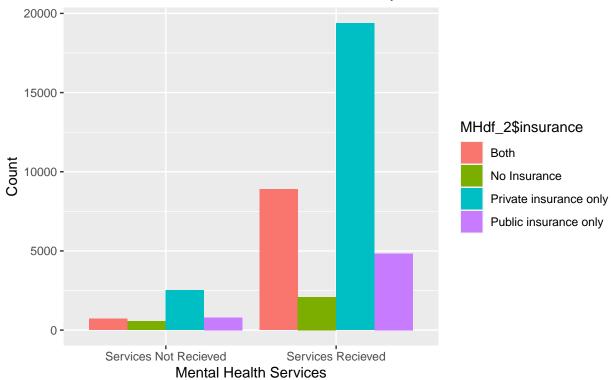
614

##	Oklahoma	Oregon	Pennsylvania		
##	549	1094	951		
##	Rhode Island	South Carolina	South Dakota		
##	402	525	448		
##	Tennessee	Texas	Utah		
##	642	1922	1532		
##	Vermont	Virginia	Washington		
##	422	1017	1592		
##	West Virgina	Wisconsin	Wyoming		
##	385	686	461		
##	<na></na>				
##	0				
##					
##	Both	No Insurance	Private insurance only		
##	9613	2641	21890		
##	Public insurance only	<na></na>			
##	5634	0			
##					
##		Both No Insuranc	e Private insurance only		
##	Services Not Recieved				
##	Services Recieved	22.366635 5.24913	3 48.712856		
##					
##		Public insurance only			
##	Services Not Recieved	1.988536			
##	Services Recieved	12.175072			
##					
##		Both No Insurance Pr	ivate insurance only		
##	Services Not Recieved	716 553	2513		
##	Services Recieved	8897 2088	19377		
##					
##	Public insurance only				
##	Services Not Recieved	791			
##	Carrei and Danierra	4843			
##	Services Recieved	4043			

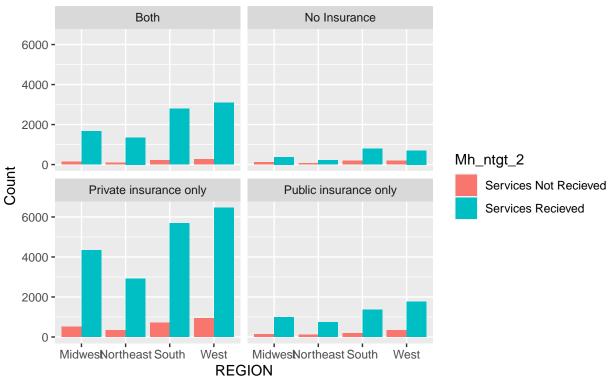


REGION









```
## Loading required package: plotly
## Warning: package 'plotly' was built under R version 4.2.2
## Attaching package: 'plotly'
  The following object is masked from 'package:ggplot2':
##
##
       last_plot
## The following object is masked from 'package:stats':
##
       filter
##
## The following object is masked from 'package:graphics':
##
##
       layout
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Purples is 9
## Returning the palette you asked for with that many colors
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Purples is 9
## Returning the palette you asked for with that many colors
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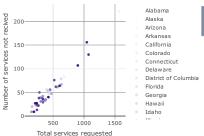
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- ## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Reds is 9 ## Returning the palette you asked for with that many colors
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- ## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Reds is 9 ## Returning the palette you asked for with that many colors

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## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Reds is 9
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- ## Returning the palette you asked for with that many colors
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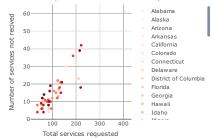
- ## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Reds is 9
- $\mbox{\tt\#\#}$ Returning the palette you asked for with that many colors
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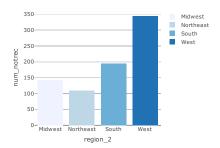
```
## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cus
## Warning: 'bar' objects don't have these attributes: 'mode'
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## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cus
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## Warning: 'bar' objects don't have these attributes: 'mode'
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## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
```

```
1000

Midwest Northeast South West

Pagion_2
```

```
## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
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## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
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## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
```

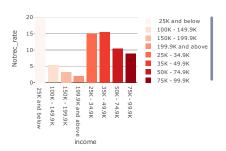


Warning in RColorBrewer::brewer.pal(N, "Set2"): minimal value for n is 3, returning requested palett
Warning in RColorBrewer::brewer.pal(N, "Set2"): minimal value for n is 3, returning requested palett

```
1 Services requested and not recived by income and in Private Insurance Public Insurance Pu
```

```
## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
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## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
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## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
```

```
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
## Warning: 'bar' objects don't have these attributes: 'mode'
## Valid attributes include:
## '_deprecated', 'alignmentgroup', 'base', 'basesrc', 'cliponaxis', 'constraintext', 'customdata', 'cu
```

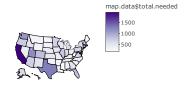


##		state	usa_state_latitude	usa_state_longitude	usa_state_code
##	1:	Kansas	39.01190	-98.48425	KS
##	2:	Florida	27.66483	-81.51575	FL
##	3:	Kansas	39.01190	-98.48425	KS
##	4:	Illinois	40.63312	-89.39853	IL
##	5:	Illinois	40.63312	-89.39853	IL
##	6:	Kentucky	37.83933	-84.27002	KY
##	7:	Arizona	34.04893	-111.09373	AZ
##	8:	Illinois	40.63312	-89.39853	IL
##	9:	Iowa	41.87800	-93.09770	IA
##	10:	Florida	27.66483	-81.51575	FL
##	11:	Connecticut	41.60322	-73.08775	CT
##	12:	Kansas	39.01190	-98.48425	KS
##	13:	Iowa	41.87800	-93.09770	IA
##	14:	Iowa	41.87800	-93.09770	IA
##	15:	Iowa	41.87800	-93.09770	IA
##	16:	Florida	27.66483	-81.51575	FL
##	17:	Hawaii	19.89868	-155.66586	HI
##	18:	Hawaii	19.89868	-155.66586	HI

```
## 19:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
## 20:
                     Illinois
                                                               -89.39853
                                                                                        TT.
                                          40.63312
## 21:
                     Illinois
                                          40.63312
                                                               -89.39853
                                                                                        IL
## 22:
                      Florida
                                          27.66483
                                                               -81.51575
                                                                                       FL
## 23:
                         Iowa
                                          41.87800
                                                               -93.09770
                                                                                        ΙA
## 24:
                                                                                       ΚY
                                          37.83933
                                                               -84.27002
                     Kentucky
## 25:
                     Colorado
                                                              -105.78207
                                                                                        CO
                                          39.55005
## 26:
                        Maine
                                          45.25378
                                                               -69.44547
                                                                                       ME
##
  27:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
## 28:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
  29:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
## 30:
                                                                                        IN
                      Indiana
                                          40.55122
                                                               -85.60236
##
   31:
                       Hawaii
                                          19.89868
                                                              -155.66586
                                                                                        ΗI
  32:
                                                               -93.09770
##
                         Iowa
                                          41.87800
                                                                                        ΙA
                                          31.24482
##
  33:
                                                               -92.14502
                   Louisiana
                                                                                       LA
##
  34:
                      Florida
                                          27.66483
                                                               -81.51575
                                                                                        FL
##
   35:
                                                                                        ΙA
                         Iowa
                                          41.87800
                                                               -93.09770
##
   36:
                      Florida
                                          27.66483
                                                               -81.51575
                                                                                        FL
##
  37:
                                                                                        GA
                      Georgia
                                          32.15743
                                                               -82.90712
##
   38:
                   Louisiana
                                          31.24482
                                                               -92.14502
                                                                                       LA
##
   39:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
## 40:
                                          41.87800
                                                               -93.09770
                                                                                        ΙA
                         Iowa
## 41:
                                          39.55005
                                                              -105.78207
                                                                                        CO
                     Colorado
## 42:
                                                                                        KS
                       Kansas
                                          39.01190
                                                               -98.48425
## 43:
                      Georgia
                                          32.15743
                                                               -82.90712
                                                                                        GA
   44: District of Columbia
                                          38.90599
                                                               -77.03342
                                                                                       DC
##
  45:
                     Illinois
                                                               -89.39853
                                                                                        IL
                                          40.63312
   46:
##
               Massachusetts
                                          42.40721
                                                               -71.38244
                                                                                       MA
## 47:
                                                                                       ΚY
                     Kentucky
                                          37.83933
                                                               -84.27002
## 48:
                     Kentucky
                                          37.83933
                                                               -84.27002
                                                                                        ΚY
## 49:
                     Delaware
                                          38.91083
                                                               -75.52767
                                                                                       DE
                                          39.04575
## 50:
                     Maryland
                                                               -76.64127
                                                                                        MD
                        state usa_state_latitude usa_state_longitude usa_state_code
##
##
       Total_sv_needed num_notrec services_rec Notrec_rate per.rate
##
    1:
                      81
                                  10
                                                 71
                                                     0.12345679 12.345679
##
    2:
                     210
                                  23
                                               187
                                                     0.10952381 10.952381
##
    3:
                      81
                                  10
                                                     0.12345679 12.345679
##
    4:
                     128
                                  17
                                               111
                                                     0.13281250 13.281250
##
    5:
                     128
                                  17
                                                     0.13281250 13.281250
                                               111
##
    6:
                      99
                                                     0.12121212 12.121212
                                  12
                                                 87
##
    7:
                     203
                                  31
                                                     0.15270936 15.270936
##
    8:
                     128
                                  17
                                                     0.13281250 13.281250
                                               111
    9:
##
                     125
                                  17
                                                108
                                                     0.13600000 13.600000
## 10:
                     210
                                  23
                                                187
                                                     0.10952381 10.952381
## 11:
                      84
                                   4
                                                 80
                                                     0.04761905 4.761905
## 12:
                      81
                                  10
                                                 71
                                                     0.12345679 12.345679
## 13:
                     125
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                                                108
                                                     0.13600000 13.600000
## 14:
                     125
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                                                108
                                                     0.13600000 13.600000
## 15:
                     125
                                  17
                                                108
                                                     0.13600000 13.600000
                                  23
## 16:
                     210
                                                187
                                                     0.10952381 10.952381
## 17:
                      56
                                  10
                                                 46
                                                     0.17857143 17.857143
## 18:
                      56
                                  10
                                                 46
                                                     0.17857143 17.857143
## 19:
                      85
                                   6
                                                 79
                                                     0.07058824 7.058824
## 20:
                     128
                                  17
                                                111
                                                     0.13281250 13.281250
```

```
## 21:
                                            111 0.13281250 13.281250
                   128
                                17
## 22:
                   210
                                23
                                            187
                                                0.10952381 10.952381
## 23:
                                                0.13600000 13.600000
                   125
                                17
                                            108
## 24:
                                             87 0.12121212 12.121212
                    99
                                12
## 25:
                   160
                                30
                                            130
                                                0.18750000 18.750000
                                             52 0.10344828 10.344828
## 26:
                    58
                                6
## 27:
                    85
                                6
                                                0.07058824 7.058824
## 28:
                                6
                                             79
                                                0.07058824 7.058824
                    85
## 29:
                    85
                                6
                                             79
                                                 0.07058824 7.058824
## 30:
                   124
                                                0.10483871 10.483871
                                13
                                            111
## 31:
                    56
                                10
                                             46
                                                0.17857143 17.857143
## 32:
                   125
                                            108 0.13600000 13.600000
                                17
## 33:
                                             75
                                                0.11764706 11.764706
                    85
                                10
## 34:
                                23
                                            187 0.10952381 10.952381
                   210
## 35:
                   125
                                17
                                            108 0.13600000 13.600000
## 36:
                   210
                                23
                                            187 0.10952381 10.952381
## 37:
                    85
                                6
                                             79
                                                0.07058824 7.058824
## 38:
                                                0.11764706 11.764706
                    85
                                10
                                             75
## 39:
                    85
                                6
                                             79 0.07058824 7.058824
## 40:
                                            108 0.13600000 13.600000
                   125
                                17
## 41:
                   160
                                30
                                            130 0.18750000 18.750000
## 42:
                    81
                                10
                                             71
                                                0.12345679 12.345679
## 43:
                                             79
                                                0.07058824 7.058824
                    85
                                6
## 44:
                    53
                                8
                                                 0.15094340 15.094340
## 45:
                   128
                                            111 0.13281250 13.281250
                                17
## 46:
                   134
                                21
                                            113 0.15671642 15.671642
## 47:
                    99
                                12
                                             87 0.12121212 12.121212
## 48:
                    99
                                12
                                                0.12121212 12.121212
                                             87
## 49:
                                9
                                                0.13636364 13.636364
                    66
                                             57
## 50:
                                16
                                             90 0.15094340 15.094340
                   106
##
       Total_sv_needed num_notrec services_rec Notrec_rate per.rate
```

```
g <- list(
    scope = 'usa',
    projection = list(type = 'albers usa'),
    showlakes = TRUE,
    lakecolor = toRGB('white')
)</pre>
```



```
\mbox{\tt \#\#} Warning: package 'gtsummary' was built under R version 4.2.2
```

MHdf_2 %>% select(Region = region_2, Income = income, Insurance_Type = insurance) %>% tbl_summary()

- ## Table printed with 'knitr::kable()', not {gt}. Learn why at
- ## https://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
- ## To suppress this message, include 'message = FALSE' in code chunk header.

Characteristic	N = 39,778
Region	
Midwest	8,272 (21%)
Northeast	$5,824 \ (15\%)$
South	11,918 (30%)
West	$13,764 \ (35\%)$
Income	
25K and below	3,947 (9.9%)
100K - 149.9K	7,456 (19%)
150K - 199.9K	$3,603 \ (9.1\%)$
199.9K and above	4,187 (11%)
25K - 34.9K	3,337 (8.4%)
35K - 49.9K	4,339 (11%)
50K - 74.9K	$6,979 \ (18\%)$
75K - 99.9K	5,930 (15%)

Characteristic	N = 39,778
Insurance_Type	
Both	9,613 (24%)
No Insurance	2,641 (6.6%)
Private insurance only	21,890 (55%)
Public insurance only	5,634 (14%)