poa_safety

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Contents

5.1)People who experienced or worried about discrimination due to the pandemic [30]

Run distribution over population Run distribution by sub-demographics (a-k) Compare and find gaps (test unequal proportions)

```
mean(wrangled$discrim_bi, na.rm = TRUE)
```

```
## [1] 0.3445221
```

```
make_plots(wrangled, demographics, "discrim_bi", title = "Percent Respondents who experienced or\nworrie
```

$borough
$borough$plot
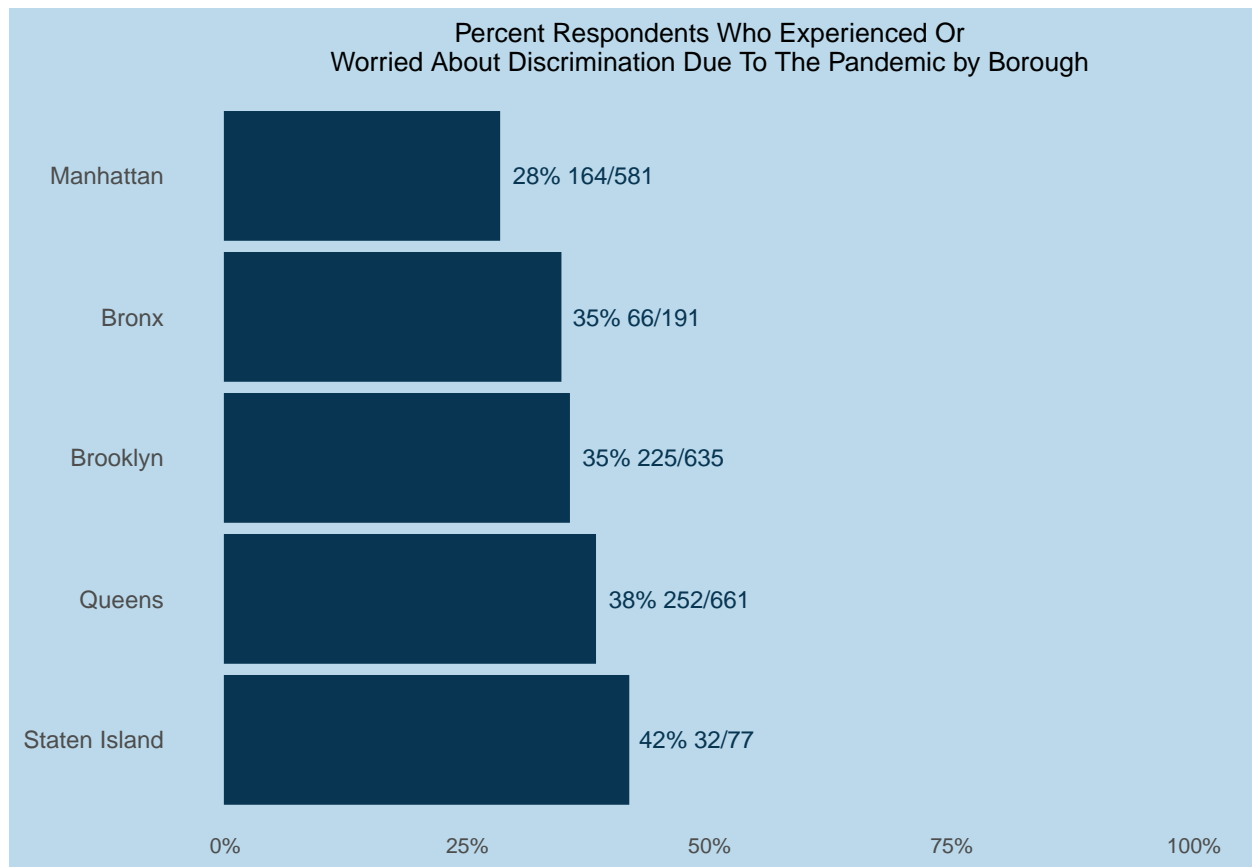

```
##
## $borough$p.values
## $borough$p.values$discrim_bi
##               manhattan bronx brooklyn  queens staten island
## manhattan           NA    NA   0.0086 0.00029            NA
## bronx               NA    NA       NA      NA            NA
## brooklyn       0.00860    NA       NA      NA            NA
## queens         0.00029    NA       NA      NA            NA
## staten island       NA    NA       NA      NA            NA
##
##
##
## $gen
## NULL
##
## $race_census
## $race_census$plot
```

Percent Respondents Who Experienced Or Worried About Discrimination Due To The Pandemic by Race_census

White (Non–Hispanic Or Latino) — 25% 176/710
Black Or African American — 32% 151/478
Other — 36% 22/61
Hispanic Or Latinx — 37% 197/539
Two Or More Races — 45% 25/55
Indigenous American — 50% 3/6
Asian — 60% 147/244

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
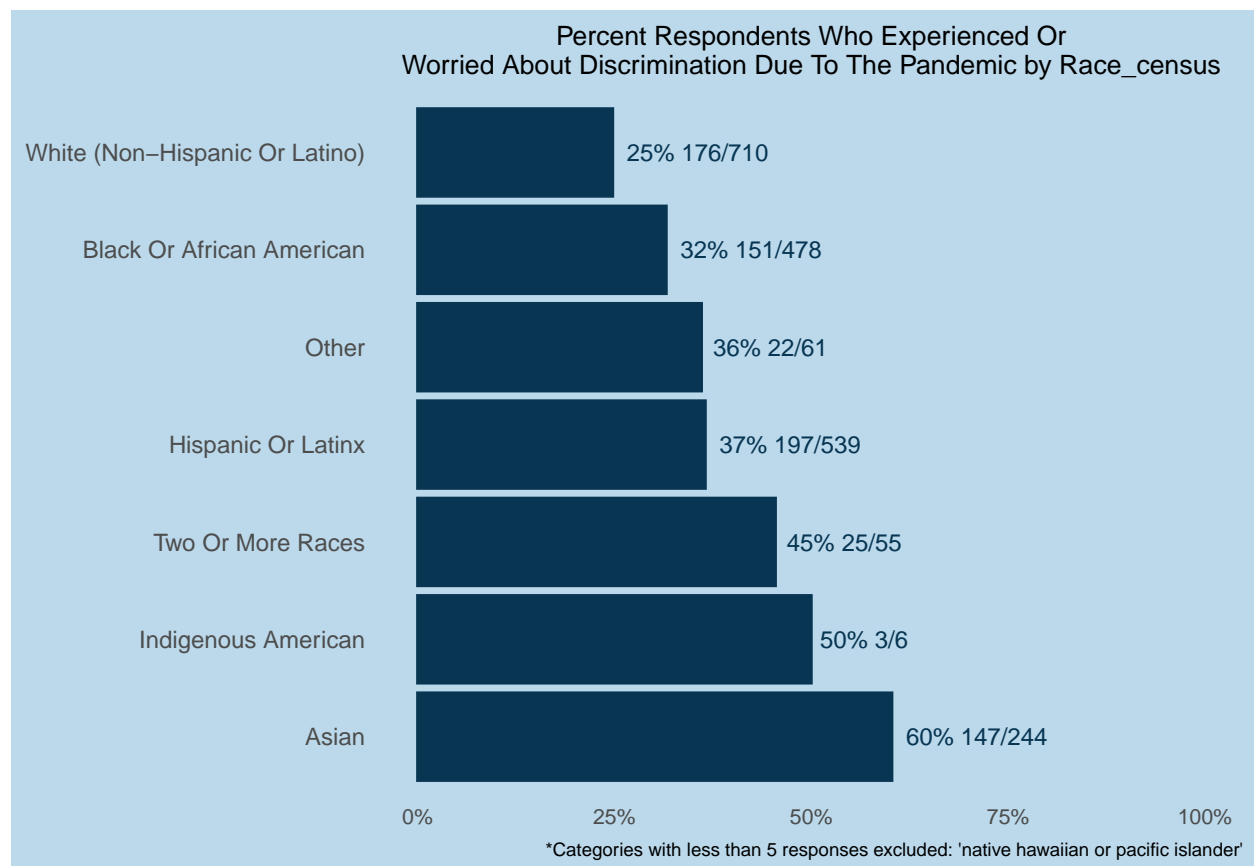
```
## 
## $race_census$p.values
## $race_census$p.values$discrim_bi
##                                white (non-hispanic or latino)
## white (non-hispanic or latino)                             NA
## black or african american                                  NA
## other                                                      NA
## hispanic or latinx                                    9.2e-06
## two or more races                                     1.4e-03
## Indigenous American                                        NA
## asian                                                 1.3e-23
##                                black or african american  other
## white (non-hispanic or latino)                        NA     NA
## black or african american                             NA     NA
## other                                                 NA     NA
## hispanic or latinx                                    NA     NA
## two or more races                                     NA     NA
## Indigenous American                                   NA     NA
## asian                                            2.5e-13 0.0011
##                                hispanic or latinx two or more races
## white (non-hispanic or latino)            9.2e-06           0.0014
## black or african american                      NA               NA
## other                                          NA               NA
## hispanic or latinx                             NA               NA
## two or more races                              NA               NA
## Indigenous American                            NA               NA
```

```
## asian                                      9.9e-10                  NA
##                           Indigenous American   asian
## white (non-hispanic or latino)                  NA 1.3e-23
## black or african american                       NA 2.5e-13
## other                                           NA 1.1e-03
## hispanic or latinx                              NA 9.9e-10
## two or more races                               NA      NA
## Indigenous American                             NA      NA
## asian                                           NA      NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
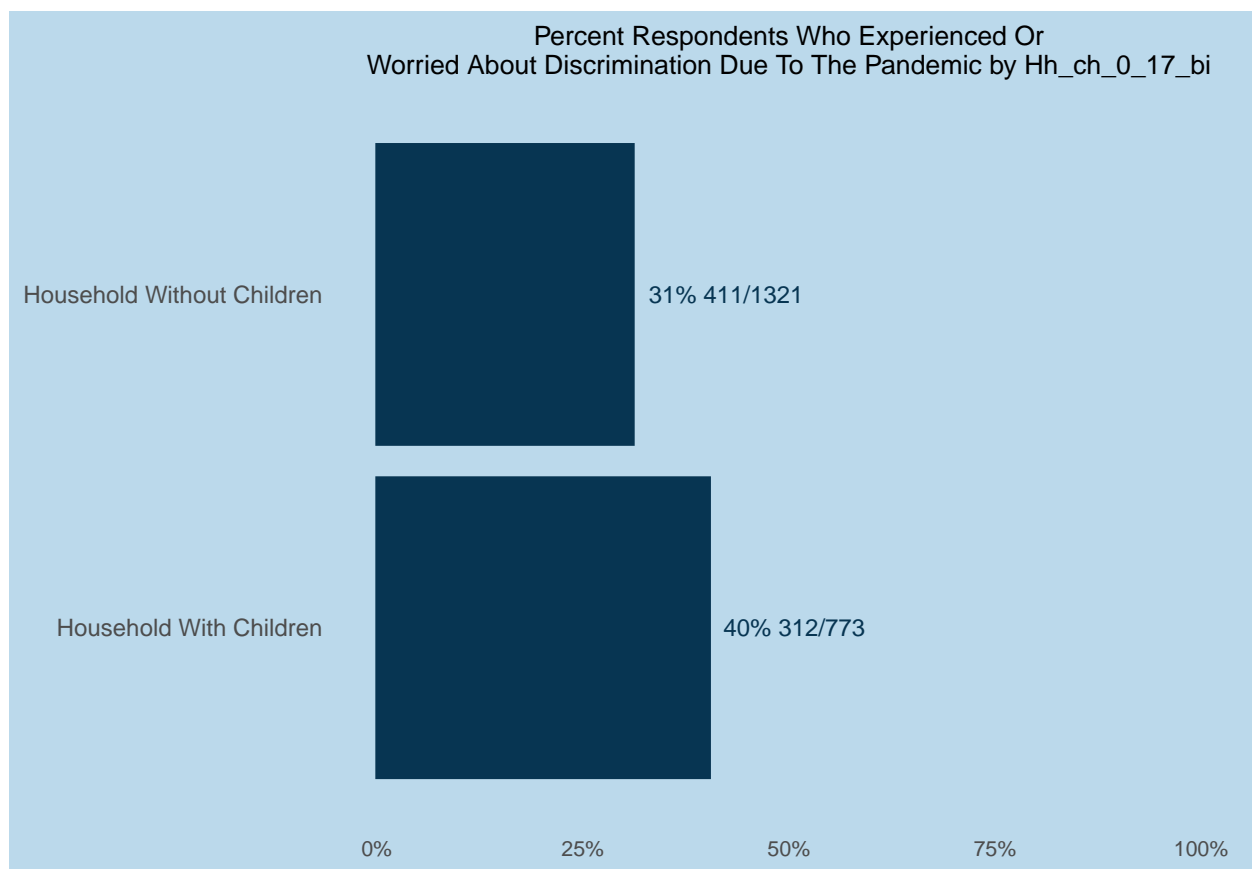


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$discrim_bi
##                        household without children household with children
## household without children                     NA                  2.2e-05
## household with children                    2.2e-05                      NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```

4

Percent Respondents Who Experienced Or
Worried About Discrimination Due To The Pandemic by Hh_sn_65_bi

Household With Seniors: 28% 181/643
Household Without Seniors: 37% 542/1451
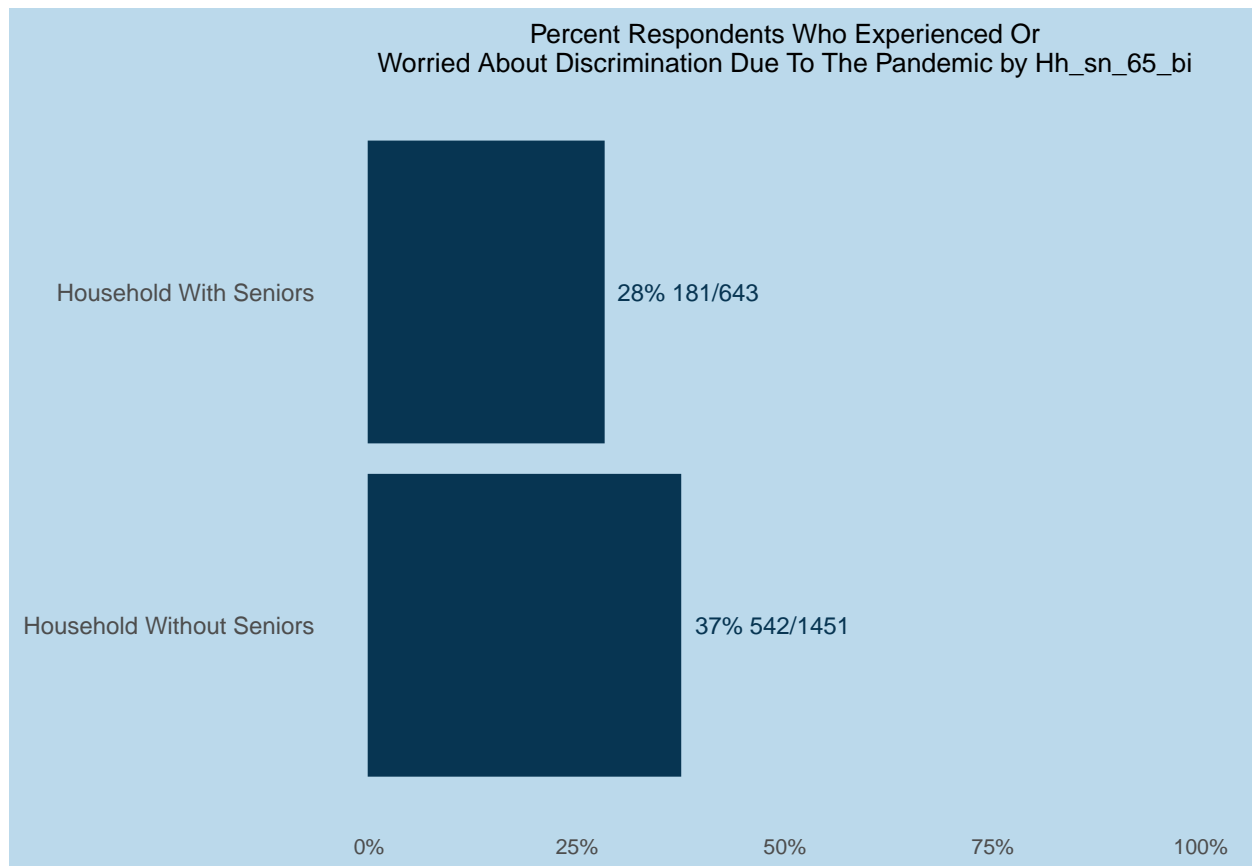
```
## 
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$discrim_bi
##                            household with seniors household without seniors
## household with seniors                         NA                   5.4e-05
## household without seniors                 5.4e-05                        NA
## 
## 
## 
## $inc_dist
## NULL
```

5.2)People who felt unsafe in their neighborhood in the past six months [17] Run distribution over population
Run distribution by sub-demographics (a-m) Compare and find gaps (test unequal proportions)

```
mean(wrangled$diff_neigh)
```

```
## [1] NA
```

```
make_plots(wrangled, demographics, "diff_neigh", title = "Proportion of People who felt unsafe\nin thei
```

```
## $borough
## $borough$plot
```

Proportion Of People Who Felt Unsafe
In Their Neighborhood by Borough
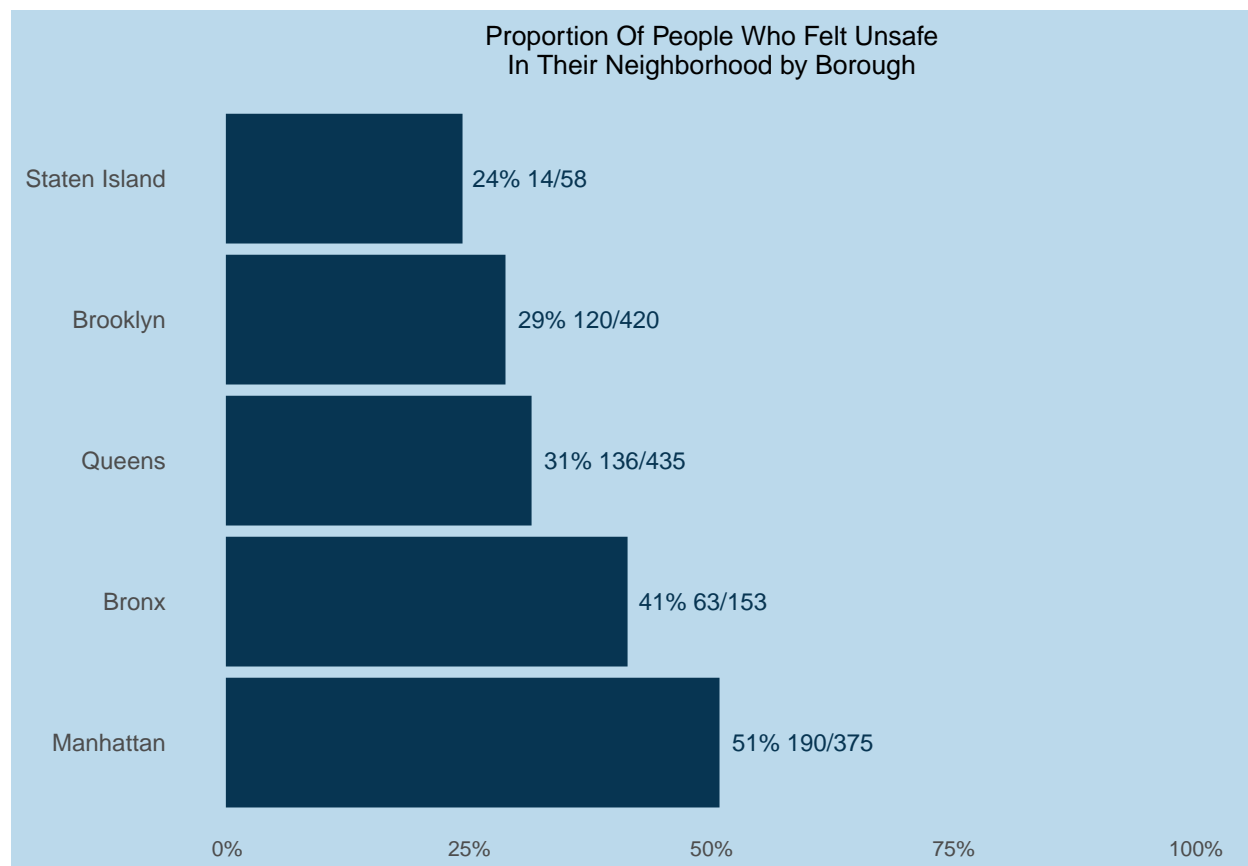
```
##
## $borough$p.values
## $borough$p.values$diff_neigh
##               staten island brooklyn queens  bronx manhattan
## staten island            NA       NA     NA     NA   2.9e-04
## brooklyn                 NA       NA     NA 0.0057   2.9e-10
## queens                   NA       NA     NA     NA   3.0e-08
## bronx                    NA  5.7e-03     NA     NA        NA
## manhattan           0.00029  2.9e-10  3e-08     NA        NA
##
##
##
## $gen
## $gen$plot
```

Proportion Of People Who Felt Unsafe
In Their Neighborhood by Gen

*Categories with less than 5 responses excluded: 'other'
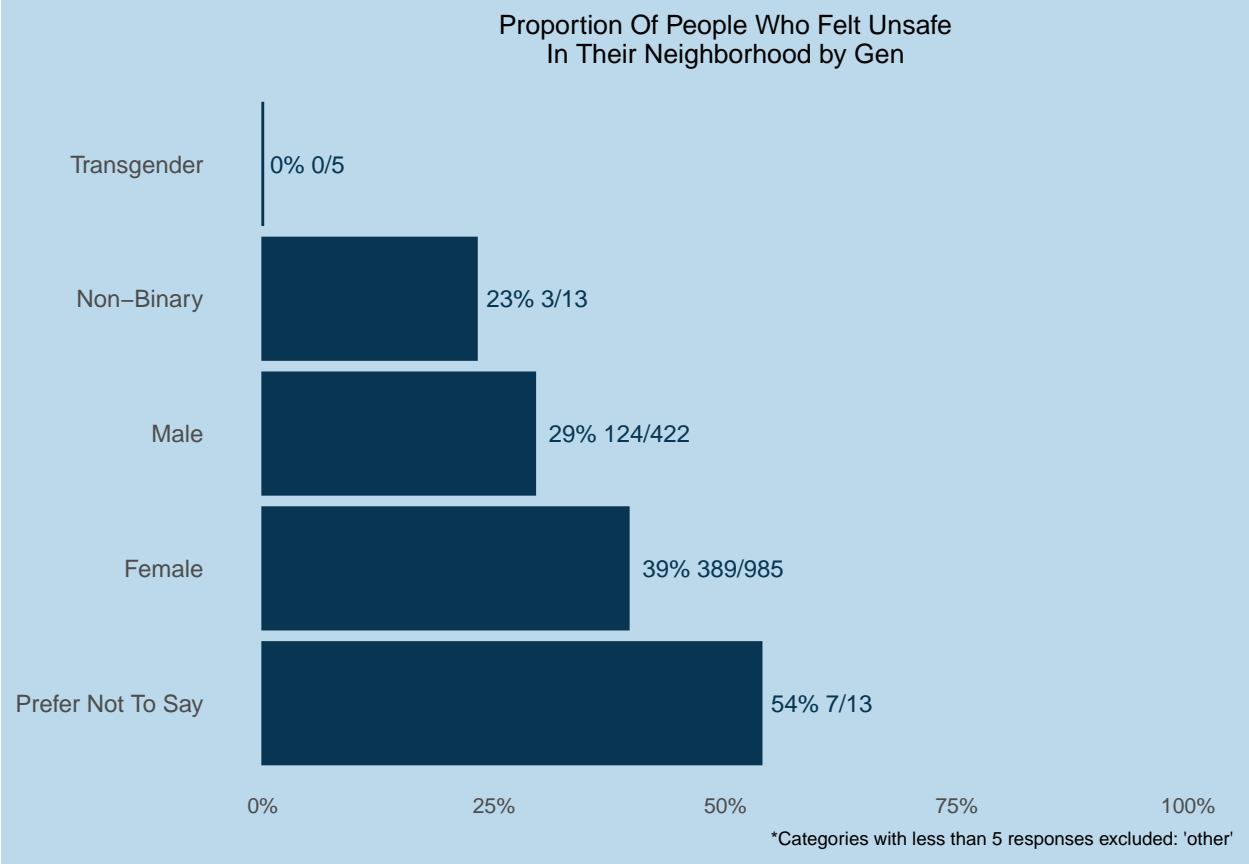
```
##
## $gen$p.values
## $gen$p.values$diff_neigh
##                   transgender non-binary     male  female prefer not to say
## transgender                NA         NA       NA      NA                NA
## non-binary                 NA         NA       NA      NA                NA
## male                       NA         NA       NA 0.00039                NA
## female                     NA         NA  0.00039      NA                NA
## prefer not to say          NA         NA       NA      NA                NA
##
##
##
## $race_census
## $race_census$plot
```

Proportion Of People Who Felt Unsafe In Their Neighborhood by Race_census

Race	Proportion
Black Or African American	26% 87/331
Hispanic Or Latinx	32% 138/425
Other	34% 15/44
Indigenous American	40% 2/5
Two Or More Races	41% 16/39
Asian	43% 69/160
White (Non–Hispanic Or Latino)	44% 177/403

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
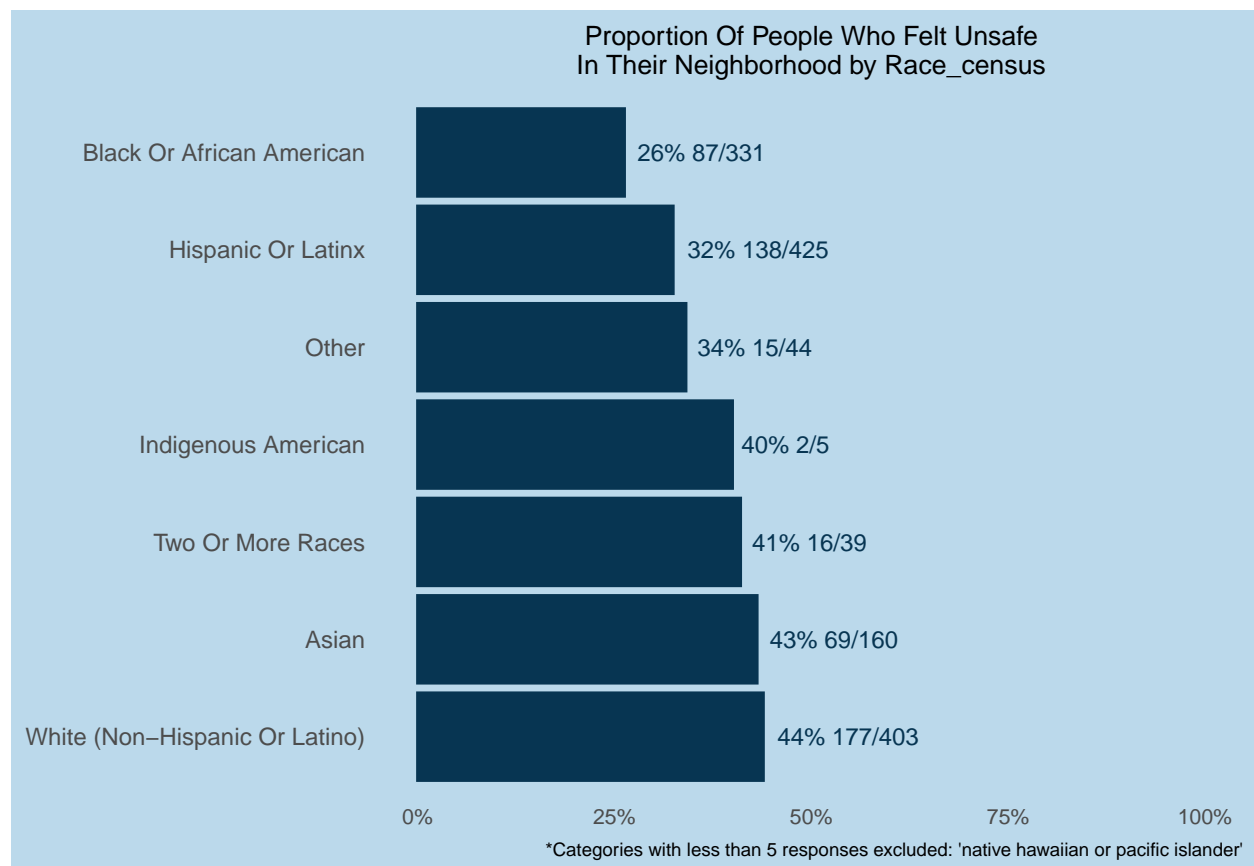
```
## 
## $race_census$p.values
## $race_census$p.values$diff_neigh
##                                black or african american hispanic or latinx
## black or african american                            NA                 NA
## hispanic or latinx                                   NA                 NA
## other                                                NA                 NA
## Indigenous American                                  NA                 NA
## two or more races                                    NA                 NA
## asian                                           2.6e-04                 NA
## white (non-hispanic or latino)                  1.1e-06               9e-04
##                                other Indigenous American two or more races
## black or african american        NA                  NA                NA
## hispanic or latinx                NA                  NA                NA
## other                             NA                  NA                NA
## Indigenous American               NA                  NA                NA
## two or more races                 NA                  NA                NA
## asian                             NA                  NA                NA
## white (non-hispanic or latino)    NA                  NA                NA
##                                  asian white (non-hispanic or latino)
## black or african american      0.00026                        1.1e-06
## hispanic or latinx                  NA                        9.0e-04
## other                               NA                             NA
## Indigenous American                 NA                             NA
## two or more races                   NA                             NA
## asian                               NA                             NA
```
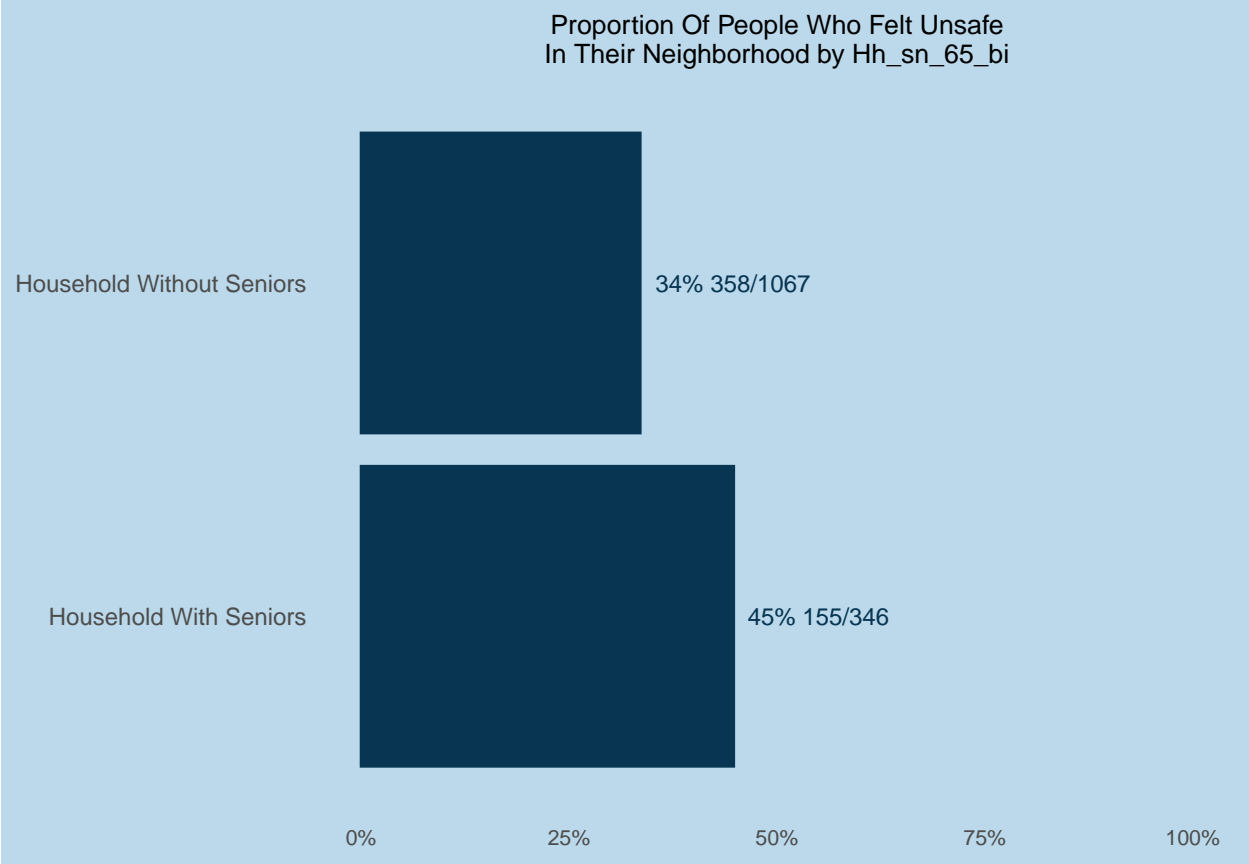
```
## white (non-hispanic or latino)          NA                              NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
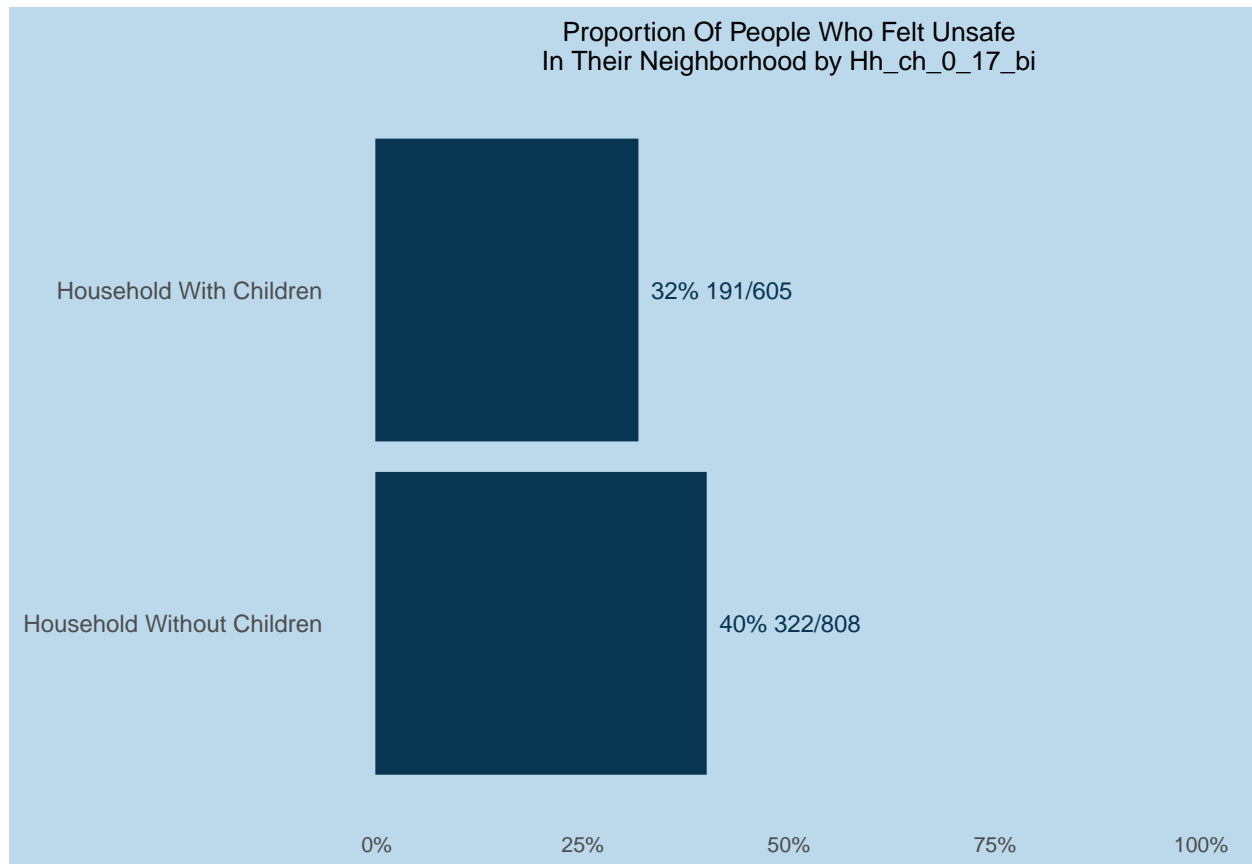


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$diff_neigh
##                               household with children household without children
## household with children                          NA                      0.0016
## household without children                   0.0016                          NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```

Proportion Of People Who Felt Unsafe
In Their Neighborhood by Hh_sn_65_bi

Household Without Seniors — 34% 358/1067

Household With Seniors — 45% 155/346

0%   25%   50%   75%   100%

```
## 
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$diff_neigh
##                            household without seniors household with seniors
## household without seniors                        NA                  2e-04
## household with seniors                        2e-04                     NA
## 
## 
## 
## $inc_dist
## $inc_dist$plot
```

Proportion Of People Who Felt Unsafe
In Their Neighborhood by Inc_dist

Below 2020 Poverty Line — 29% 164/564
Below 2020 Median Income — 35% 133/383
At Or Above 2020 Median Income — 46% 226/494
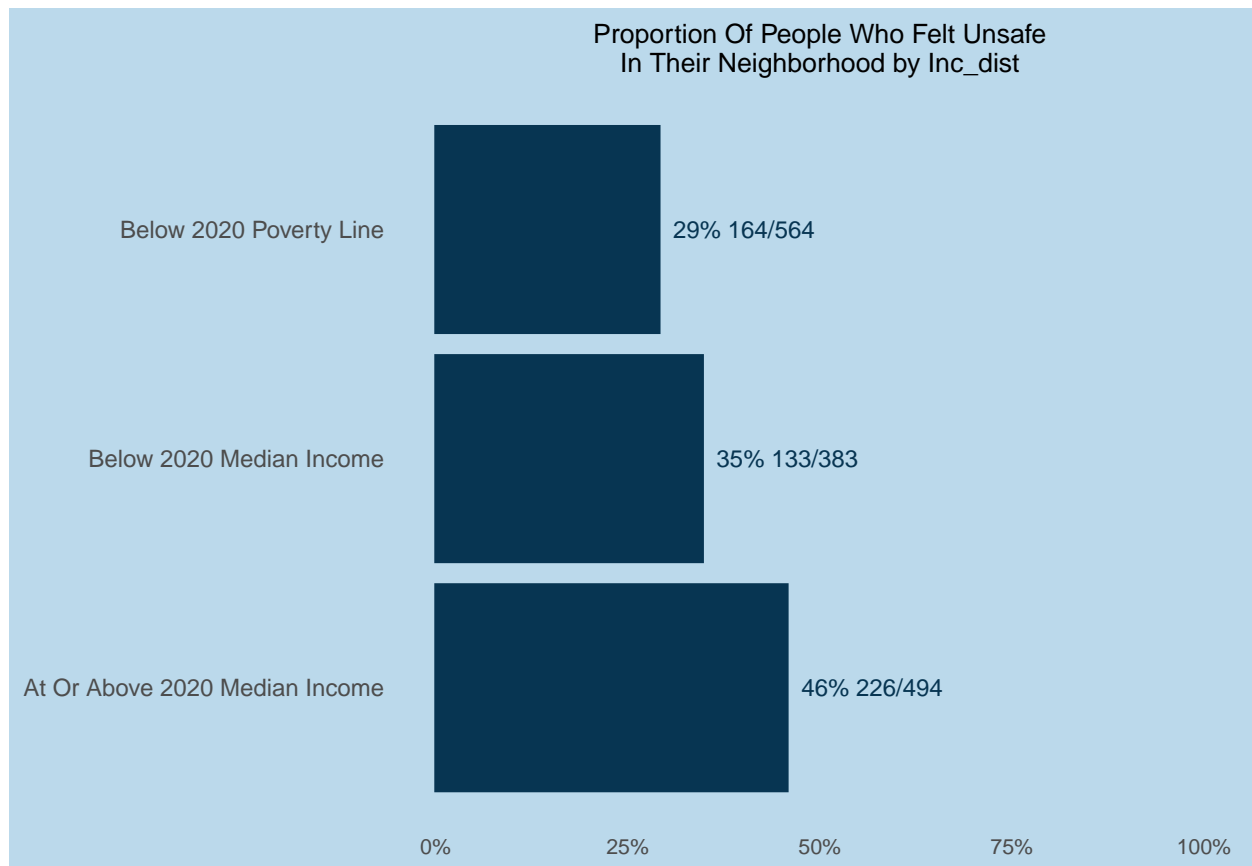
```
##
## $inc_dist$p.values
## $inc_dist$p.values$diff_neigh
##                             below 2020 poverty line below 2020 median income
## below 2020 poverty line                          NA                       NA
## below 2020 median income                         NA                       NA
## at or above 2020 median income                3e-08                   0.0013
##                             at or above 2020 median income
## below 2020 poverty line                              3.0e-08
## below 2020 median income                             1.3e-03
## at or above 2020 median income                            NA
```

5.3)Respondents who have a low income (below median income) are more likely to experience violence]12 &13]

Find proportion who faced discrimination or violence[34] Find subset who are below median income[13] Compare and contrast with group who are above median income within the larger proportion

```
mean(wrangled$diff_neigh, na.rm = TRUE)
```

```
## [1] 0.3629424
```

```
make_plots(wrangled, demographics, "exp_vi", title = "Percent Respondents Who experienced violence")
```

```
## $borough
## NULL
##
## $gen
## NULL
##
## $race_census
## NULL
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
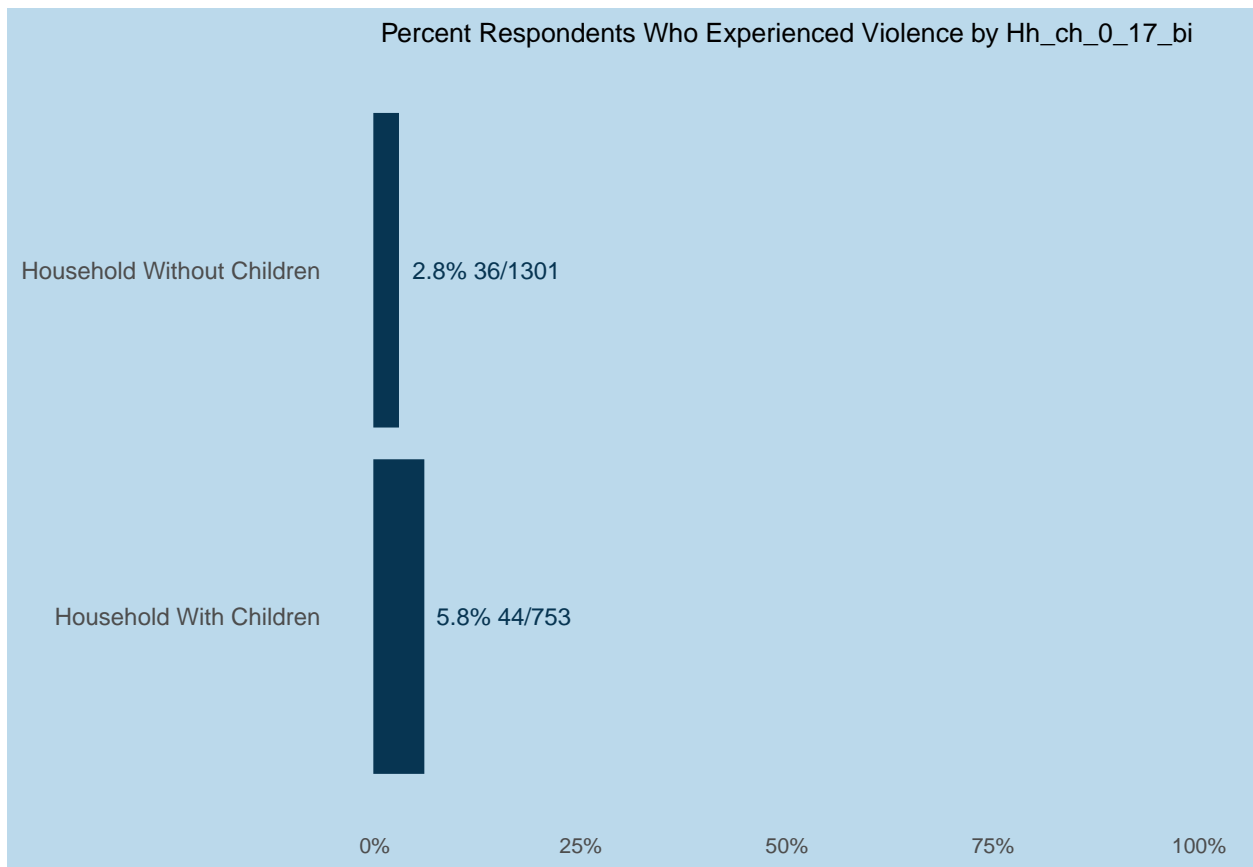


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$exp_vi
##                               household without children household with children
## household without children                          NA                    8e-04
## household with children                          8e-04                       NA
##
##
##
## $hh_sn_65_bi
```

```
## NULL
##
## $inc_dist
## $inc_dist$plot
```


Percent Respondents Who Experienced Violence by Inc_dist

At Or Above 2020 Median Income — 2.7% 23/864

Below 2020 Median Income — 3.1% 16/519

Below 2020 Poverty Line — 5.9% 42/708

0%   25%   50%   75%   100%
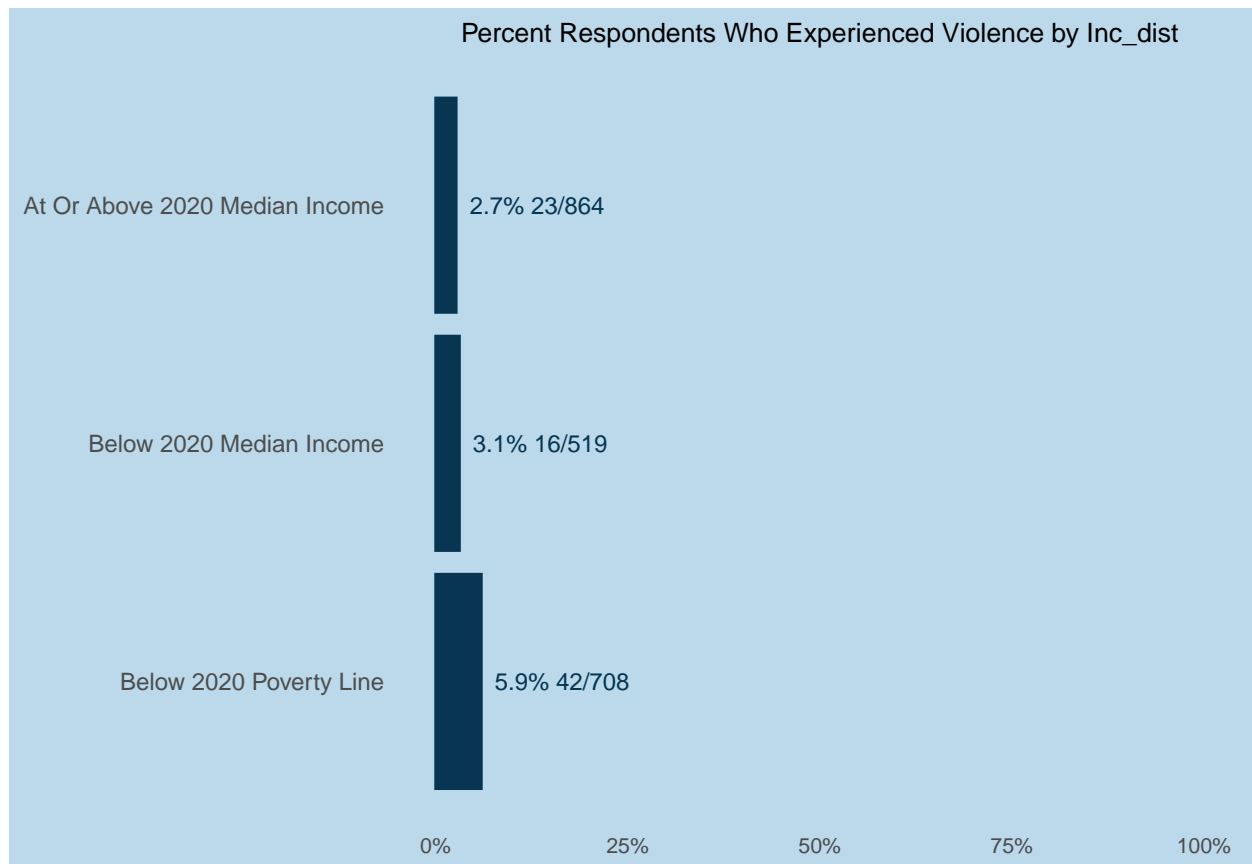
```
##
## $inc_dist$p.values
## $inc_dist$p.values$exp_vi
##                                  at or above 2020 median income
## at or above 2020 median income                              NA
## below 2020 median income                                    NA
## below 2020 poverty line                                 0.0019
##                                  below 2020 median income below 2020 poverty line
## at or above 2020 median income                        NA                  0.0019
## below 2020 median income                              NA                      NA
## below 2020 poverty line                               NA                      NA
```

5.4)Respondents who are homemakers are more likely to experience verbal abuse and physical violence since the pandemic started [14, 15, 34, 35]

Find proportion of respondents who faced discrimination or violence when homemakers before [14] compared to after [15] the pandemic Compare proportion of respondents who experienced violence and were home-

makers before but not after, with those who were homemakers after but not before Compare homemakers to nonhomemakers Run on subdemographics (a-m)

```
wrangled %>% count(emp_before_hm, emp_after_hm)
```

```
## # A tibble: 5 x 3
##         emp_before_hm        emp_after_hm     n
##             <int+lbl>           <int+lbl> <int>
## 1  0 [not 'homemaker']  0 [not 'homemaker']  1979
## 2  0 [not 'homemaker']  1 [homemaker]          23
## 3  1 [homemaker]        0 [not 'homemaker']    26
## 4  1 [homemaker]        1 [homemaker]          70
## 5 NA                   NA                      47
```

```
make_plots(wrangled %>% mutate(emp_hm = emp_before_hm == 1 & emp_after_hm == 1),
           c("emp_before_hm", "emp_after_hm", "emp_hm"), "exp_ab_or_vi", show = TRUE)
```

```
## $emp_before_hm
## $emp_before_hm$plot
```
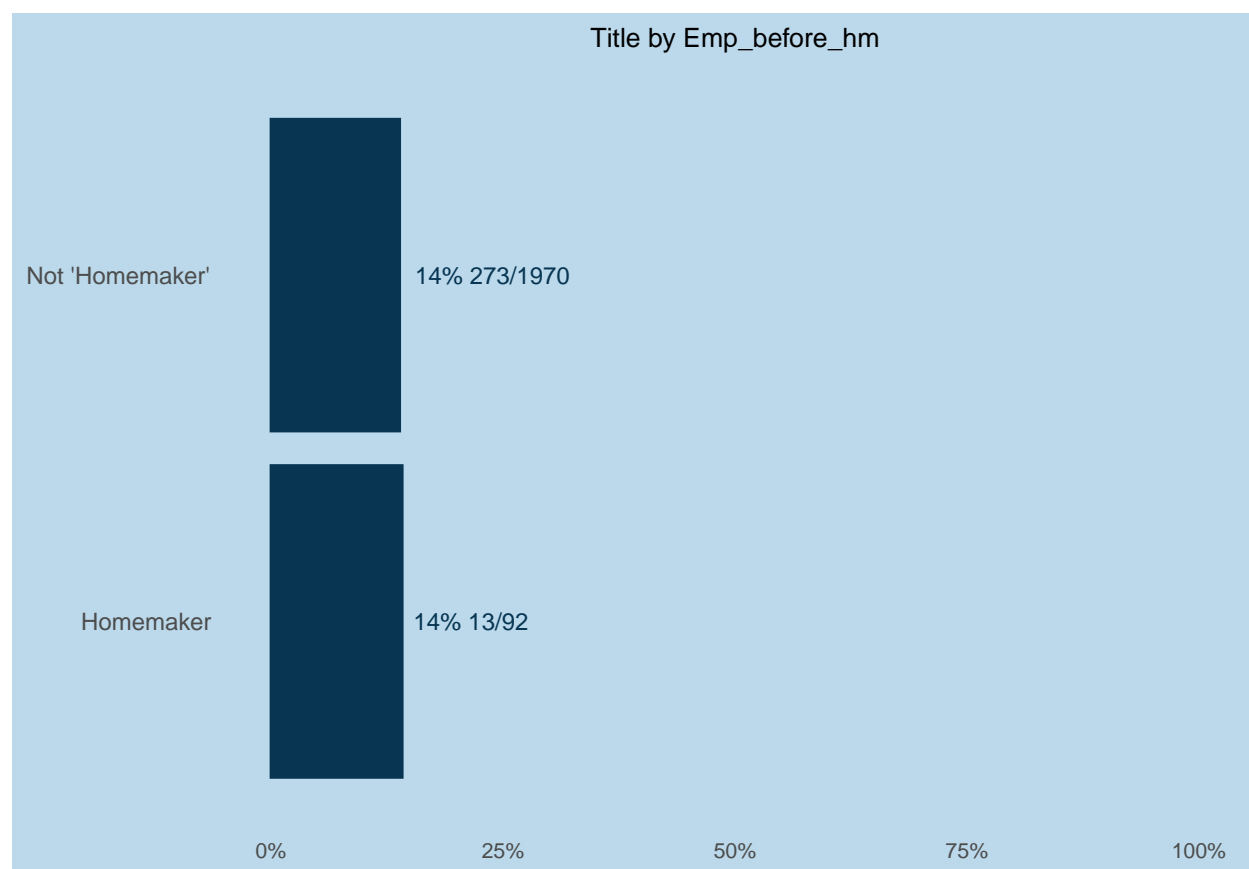


```
##
## $emp_before_hm$p.values
## $emp_before_hm$p.values$exp_ab_or_vi
##                not 'homemaker' homemaker
```

14

```
## not 'homemaker'            NA        NA
## homemaker                  NA        NA
##
##
##
## $emp_after_hm
## $emp_after_hm$plot
```
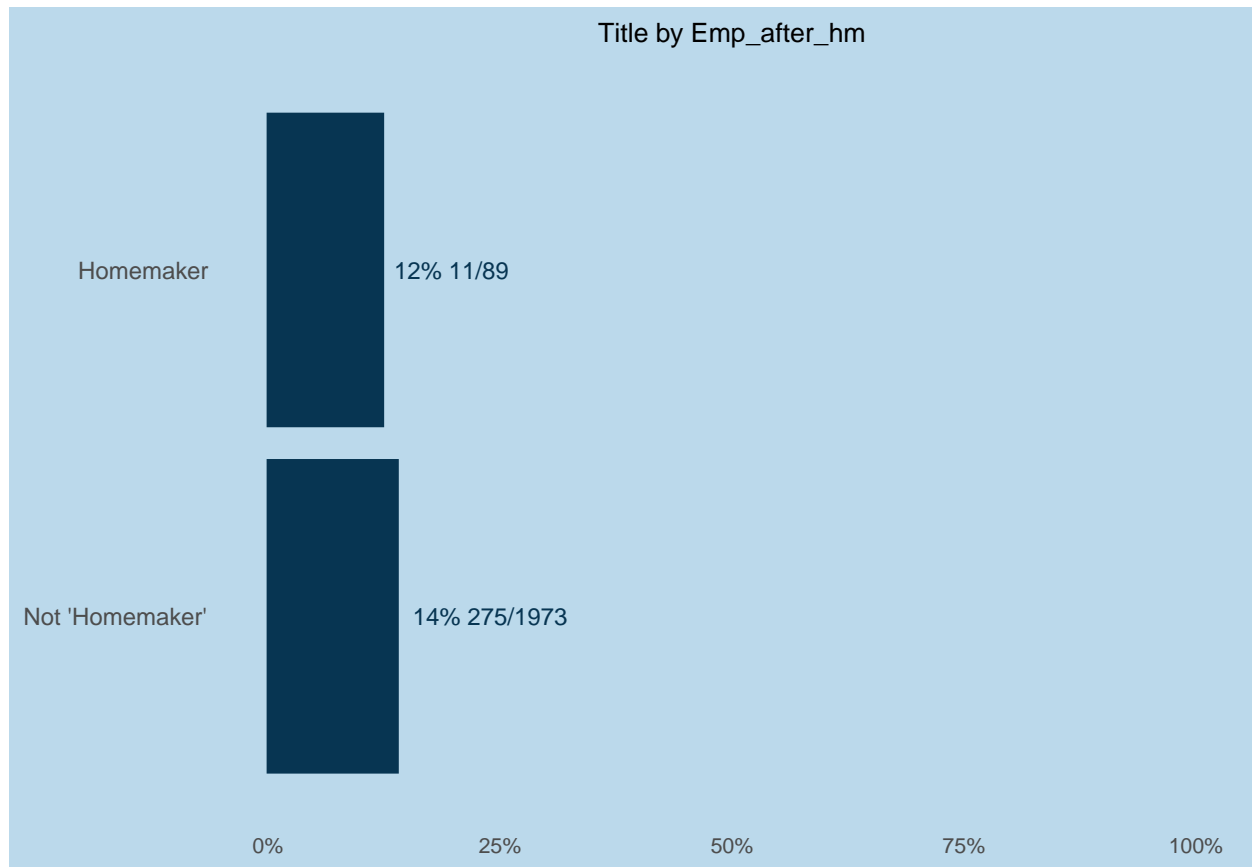


```
##
## $emp_after_hm$p.values
## $emp_after_hm$p.values$exp_ab_or_vi
##              homemaker not 'homemaker'
## homemaker          NA              NA
## not 'homemaker'    NA              NA
##
##
##
## $emp_hm
## $emp_hm$plot
```

Title by Emp_hm
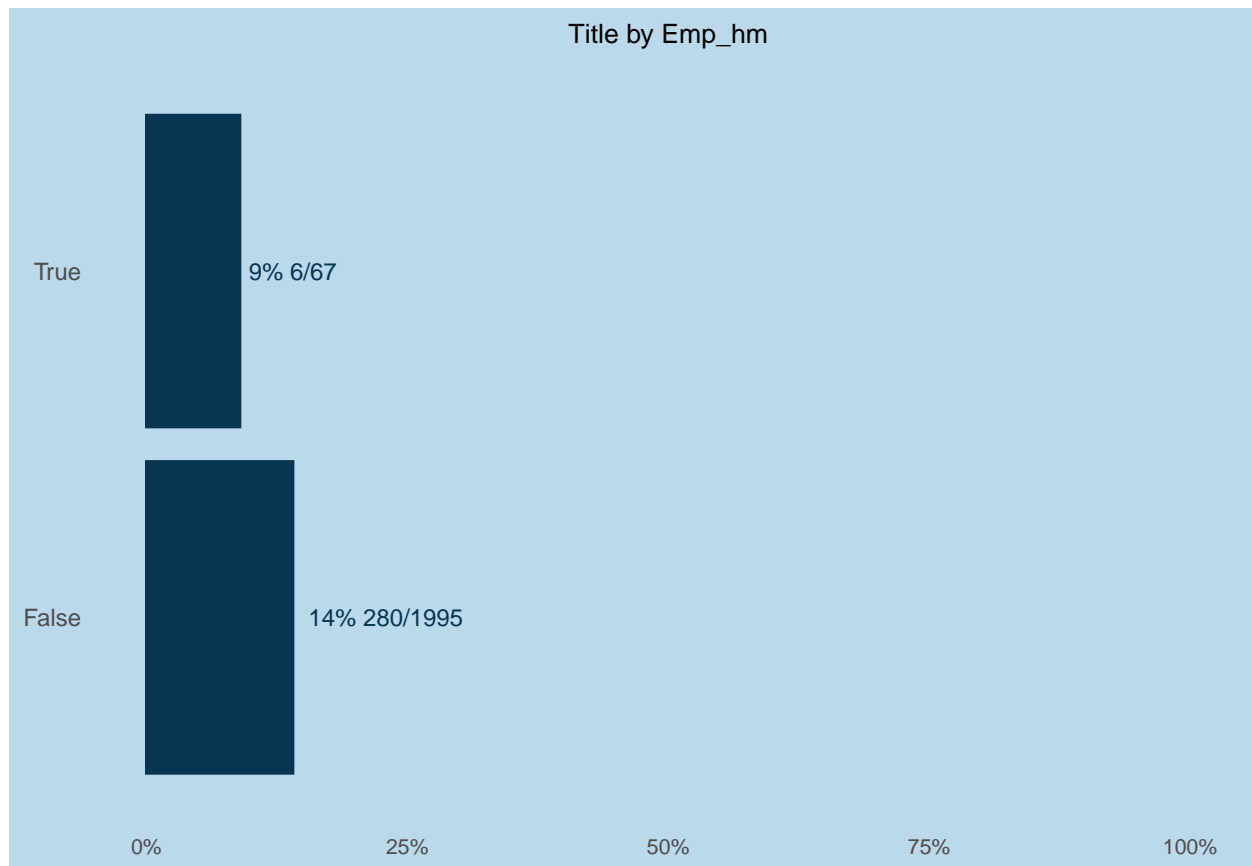
```
##
## $emp_hm$p.values
## $emp_hm$p.values$exp_ab_or_vi
##       TRUE FALSE
## TRUE    NA    NA
## FALSE   NA    NA
```

5.5)Respondents in the gig economy are more worried about delta variants [41]

1. Find proportion of respondents who were in the gig economy and those who are not [15]
2. FInd subset who are worried about delta variants [26a]

a. Compare proportion who are gig economy with those who are not

```
make_plots(wrangled, "emp_before_gig", "vrnts_con", title = "Concern for Delta Variants")
```

```
## $emp_before_gig
## NULL
```

5.6 - 5.7

5.6)Respondents who felt unsafe in their neighborhoods were dissatisfied with other community services [32]

Find proportion of respondents who felt unsafe in their neighborhood [17] Run binary distribution of who did and did not feel unsafe over the following categories from question 32: Emergency medical services Maintenance of parks and recreational facilities Police responsiveness to calls or complaints Prevents of local crime / safety Group respondents by whether or not they were dissatisfied with one of the above four listed neighborhood services Compare those who did and did not feel unsafe

5.7)Respondents who are dissatisfied with housing code enforcement are more likely to feel unsafe in their neighborhood[32, 17]

Find proportion who felt unsafe in neighborhood Find subset who are dissatisfied with housing code enforcement Compare proportion who did and did not feel unsafe depending on dissatisfaction with housing code enforcement

```
rate_neigh <- select(wrangled, starts_with("rate_neigh") & (ends_with("good") | ends_with("bad"))) %>%

lapply(rate_neigh, function(item) {
  make_plots(wrangled, "diff_neigh", item,
             title = item)
})
```

```
## [[1]]
## [[1]]$diff_neigh
## [[1]]$diff_neigh$plot
```

Rate_neigh_code_bad by Diff_neigh

Not 'Felt Unsafe In Your Neighborhood'   46% 418/902

Felt Unsafe In Your Neighborhood   62% 323/518

0%   25%   50%   75%   100%
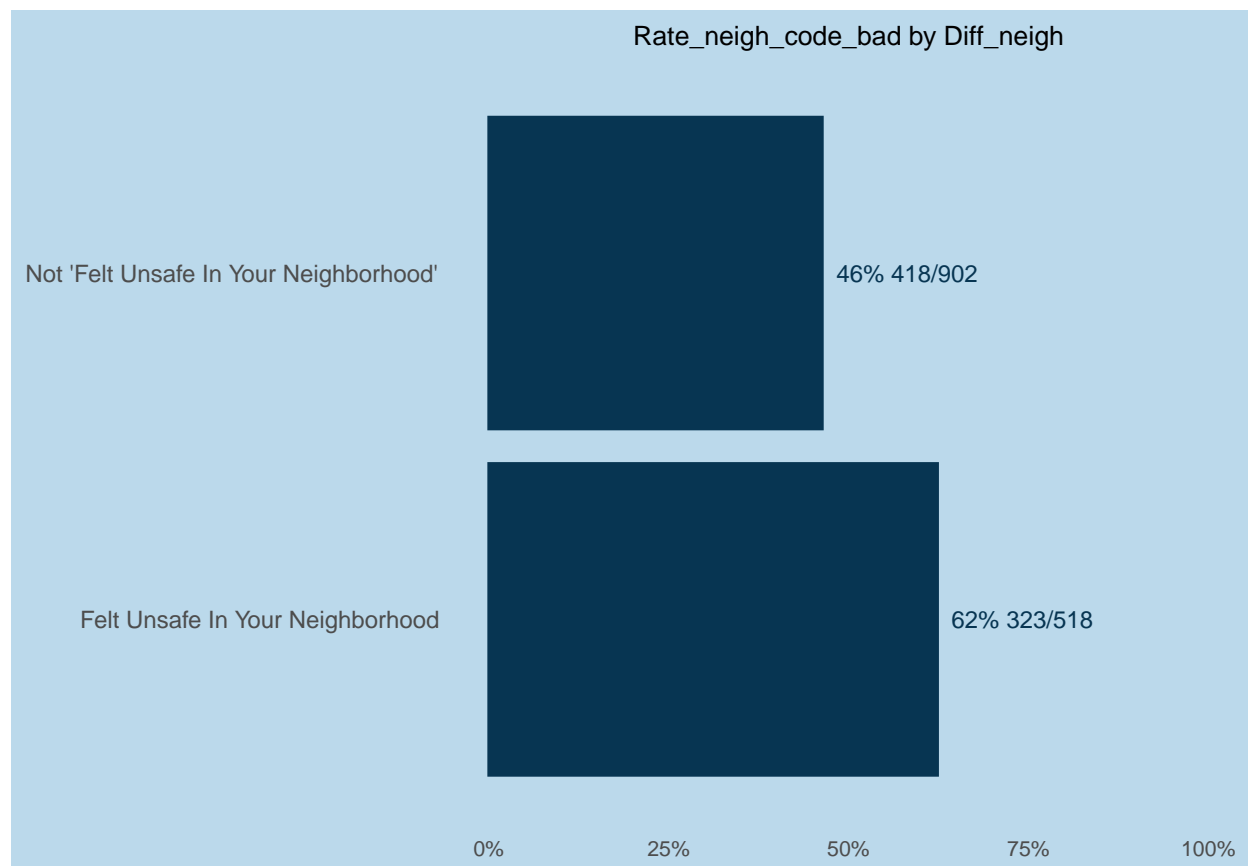
```
##
## [[1]]$diff_neigh$p.values
## [[1]]$diff_neigh$p.values$rate_neigh_code_bad
##                                      not 'felt unsafe in your neighborhood'
## not 'felt unsafe in your neighborhood'                                   NA
## felt unsafe in your neighborhood                                    8.4e-09
##                                           felt unsafe in your neighborhood
## not 'felt unsafe in your neighborhood'                              8.4e-09
## felt unsafe in your neighborhood                                         NA
##
##
##
##
## [[2]]
## [[2]]$diff_neigh
## [[2]]$diff_neigh$plot
```

Rate_neigh_code_good by Diff_neigh

Felt Unsafe In Your Neighborhood   13% 67/518

Not 'Felt Unsafe In Your Neighborhood'   26% 232/902

| 0% | 25% | 50% | 75% | 100% |
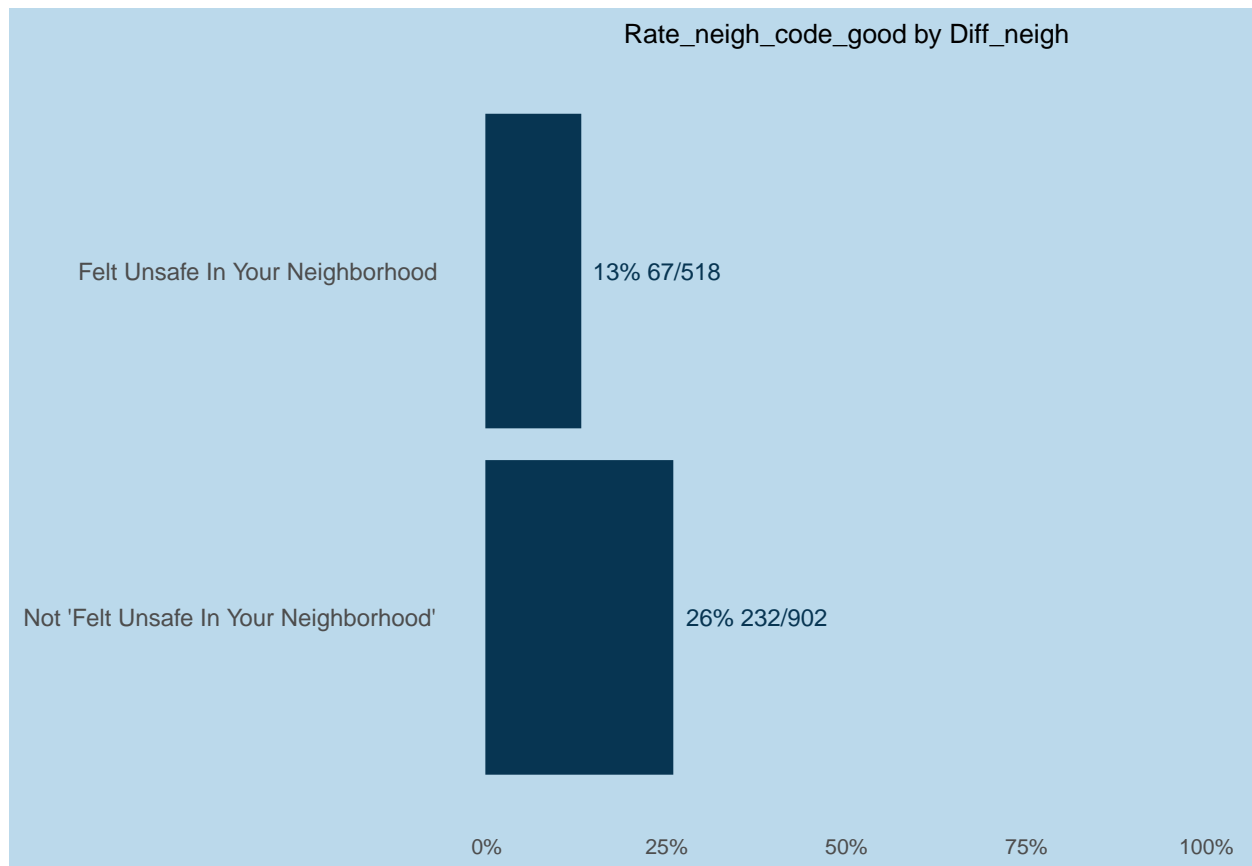
```
## 
## [[2]]$diff_neigh$p.values
## [[2]]$diff_neigh$p.values$rate_neigh_code_good
##                                          felt unsafe in your neighborhood
## felt unsafe in your neighborhood                                       NA
## not 'felt unsafe in your neighborhood'                            1.9e-08
##                                        not 'felt unsafe in your neighborhood'
## felt unsafe in your neighborhood                                      1.9e-08
## not 'felt unsafe in your neighborhood'                                     NA
## 
## 
## 
## 
## [[3]]
## [[3]]$diff_neigh
## NULL
## 
## 
## [[4]]
## [[4]]$diff_neigh
## [[4]]$diff_neigh$plot
```

Rate_neigh_pol_good by Diff_neigh

Felt Unsafe In Your Neighborhood   27% 142/518

Not 'Felt Unsafe In Your Neighborhood'   36% 324/902

0%   25%   50%   75%   100%
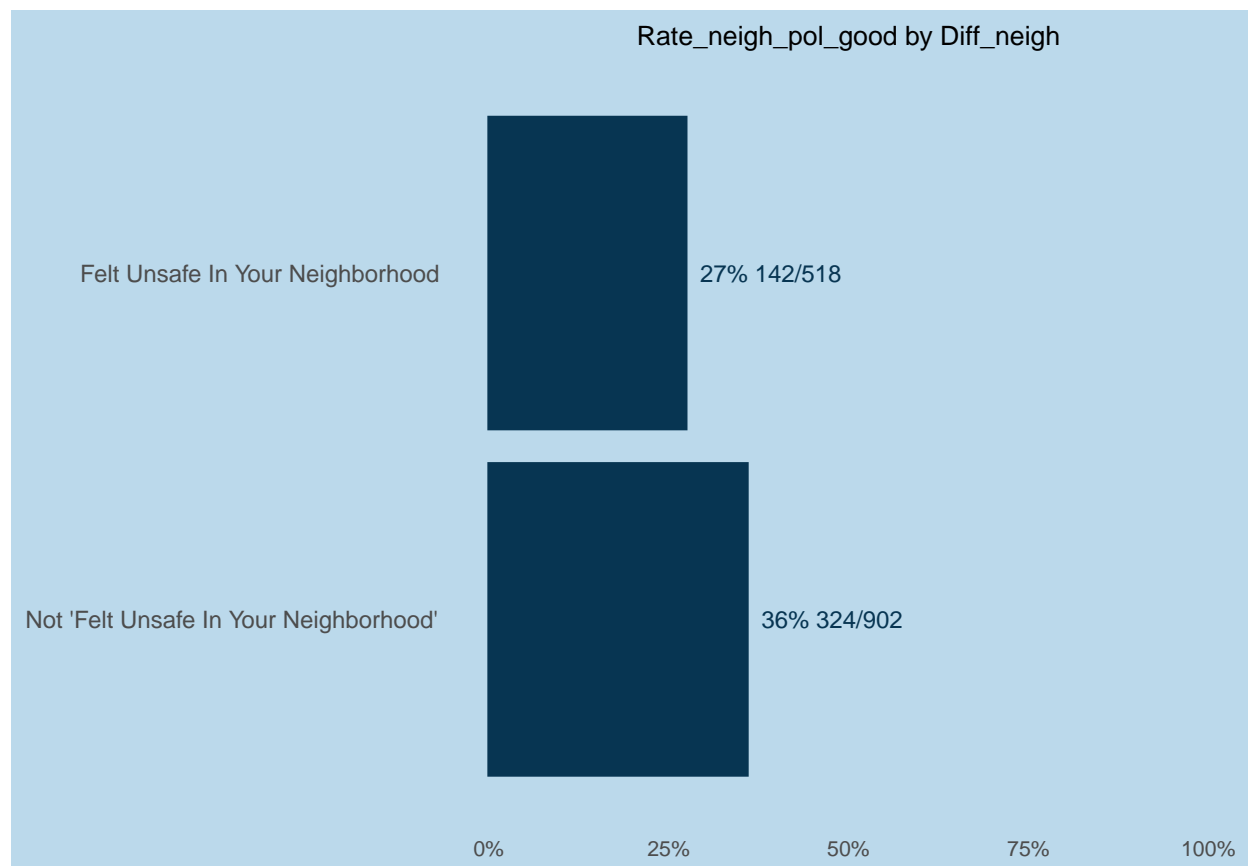
```
##
## [[4]]$diff_neigh$p.values
## [[4]]$diff_neigh$p.values$rate_neigh_pol_good
##                                       felt unsafe in your neighborhood
## felt unsafe in your neighborhood                                    NA
## not 'felt unsafe in your neighborhood'                          0.0012
##                                    not 'felt unsafe in your neighborhood'
## felt unsafe in your neighborhood                                   0.0012
## not 'felt unsafe in your neighborhood'                                 NA
##
##
##
##
## [[5]]
## [[5]]$diff_neigh
## [[5]]$diff_neigh$plot
```

Rate_neigh_pre_bad by Diff_neigh

Not 'Felt Unsafe In Your Neighborhood'   44% 401/902

Felt Unsafe In Your Neighborhood   64% 330/518

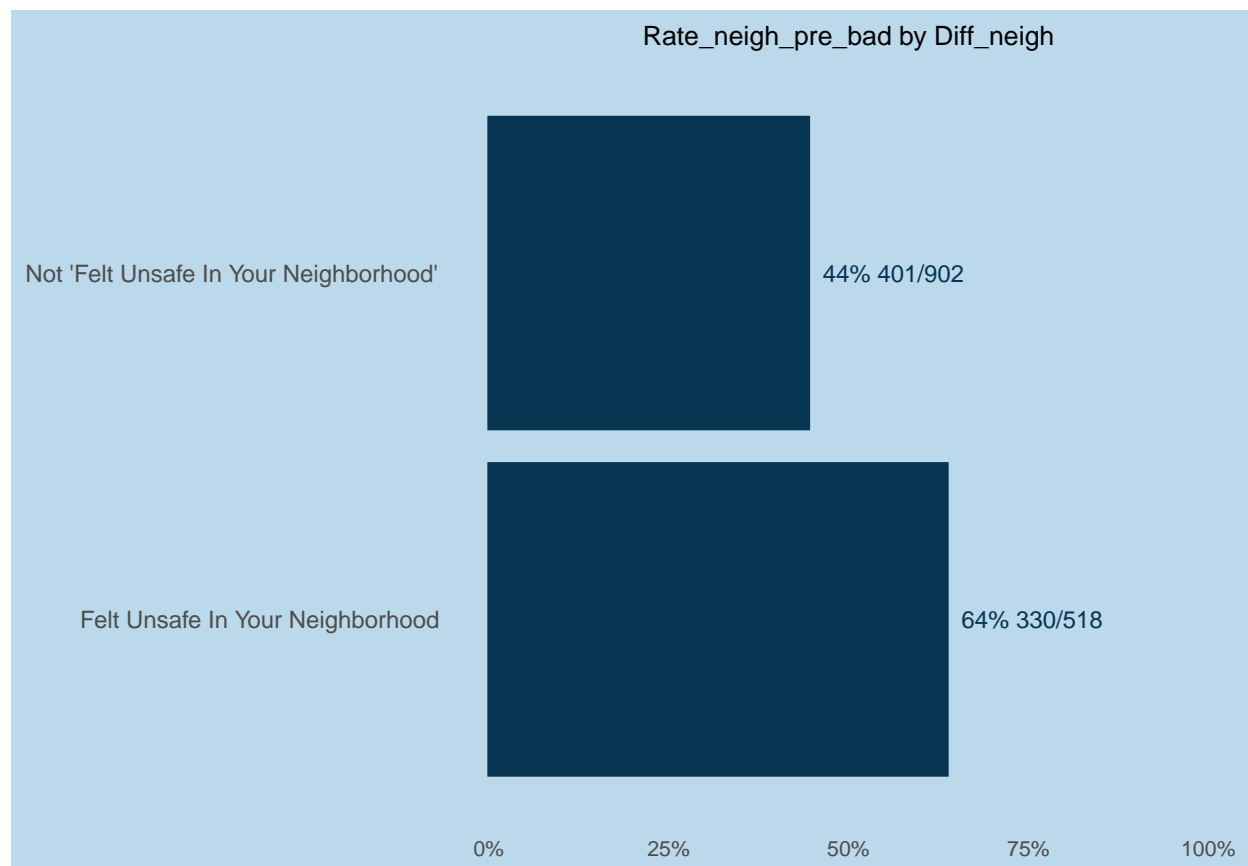0%   25%   50%   75%   100%

```
##
## [[5]]$diff_neigh$p.values
## [[5]]$diff_neigh$p.values$rate_neigh_pre_bad
##                                       not 'felt unsafe in your neighborhood'
## not 'felt unsafe in your neighborhood'                                    NA
## felt unsafe in your neighborhood                                     4.2e-12
##                                          felt unsafe in your neighborhood
## not 'felt unsafe in your neighborhood'                            4.2e-12
## felt unsafe in your neighborhood                                       NA
##
##
##
##
## [[6]]
## [[6]]$diff_neigh
## [[6]]$diff_neigh$plot
```

Rate_neigh_pre_good by Diff_neigh

Felt Unsafe In Your Neighborhood   13% 66/518

Not 'Felt Unsafe In Your Neighborhood'   27% 243/902

```
0%        25%        50%        75%        100%
```
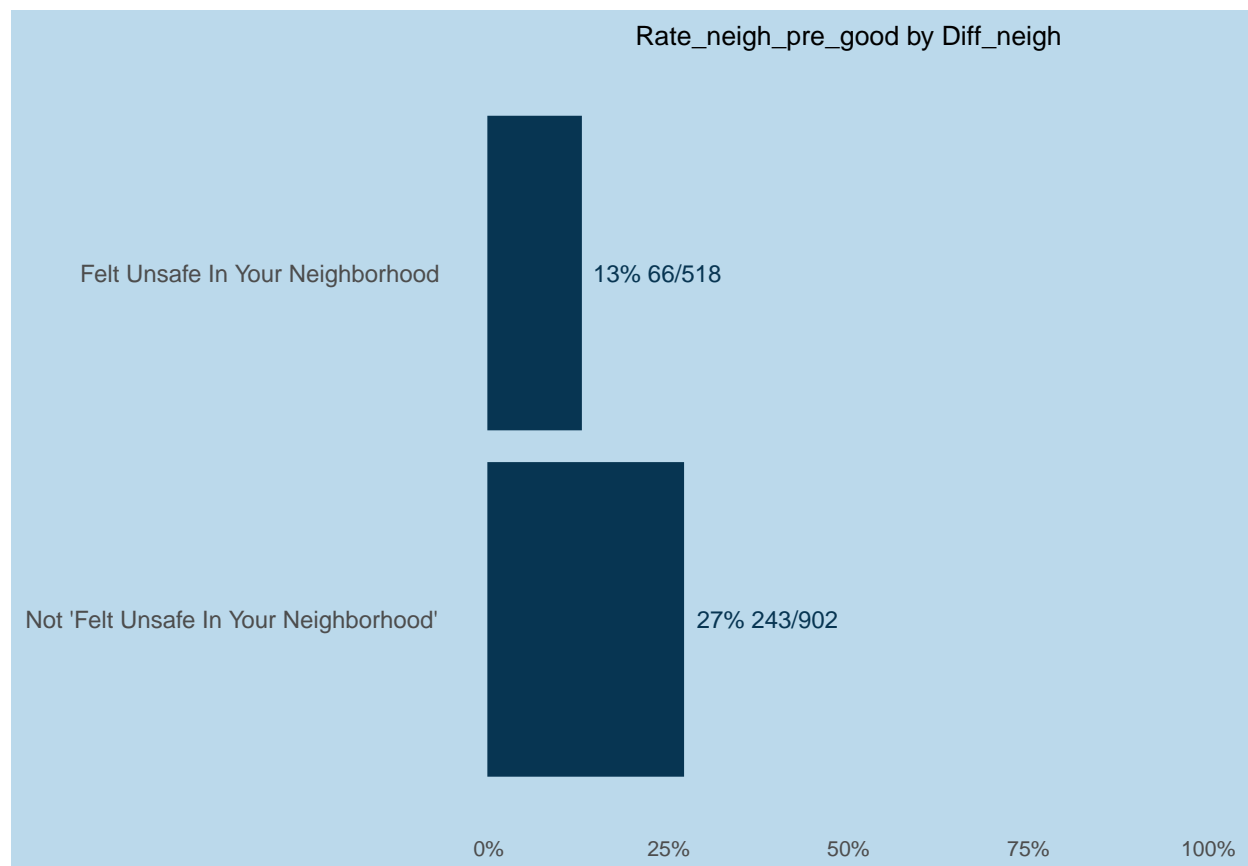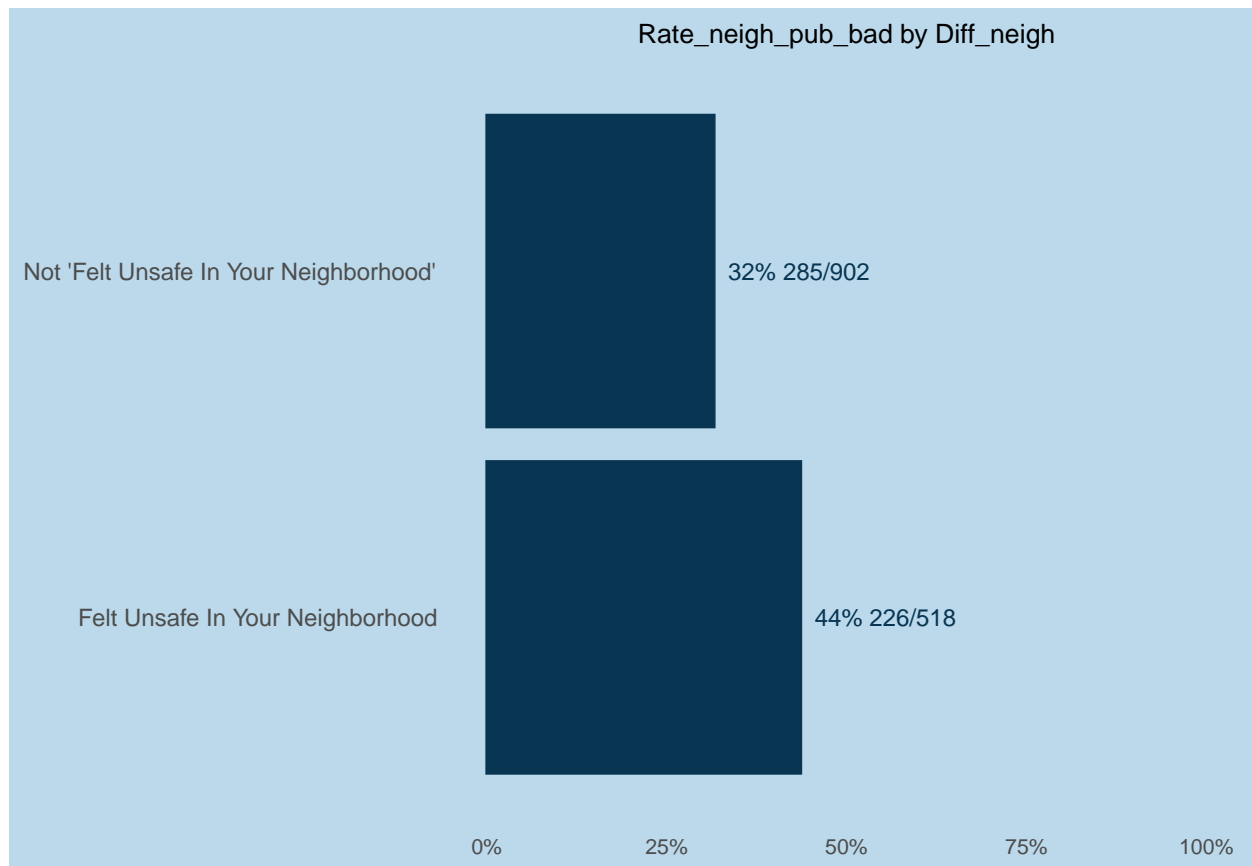
```
##
## [[6]]$diff_neigh$p.values
## [[6]]$diff_neigh$p.values$rate_neigh_pre_good
##                                     felt unsafe in your neighborhood
## felt unsafe in your neighborhood                                  NA
## not 'felt unsafe in your neighborhood'                        6.6e-10
##                               not 'felt unsafe in your neighborhood'
## felt unsafe in your neighborhood                              6.6e-10
## not 'felt unsafe in your neighborhood'                             NA
##
##
##
##
## [[7]]
## [[7]]$diff_neigh
## [[7]]$diff_neigh$plot
```

Rate_neigh_pub_bad by Diff_neigh

Not 'Felt Unsafe In Your Neighborhood'   32% 285/902

Felt Unsafe In Your Neighborhood   44% 226/518

0%   25%   50%   75%   100%
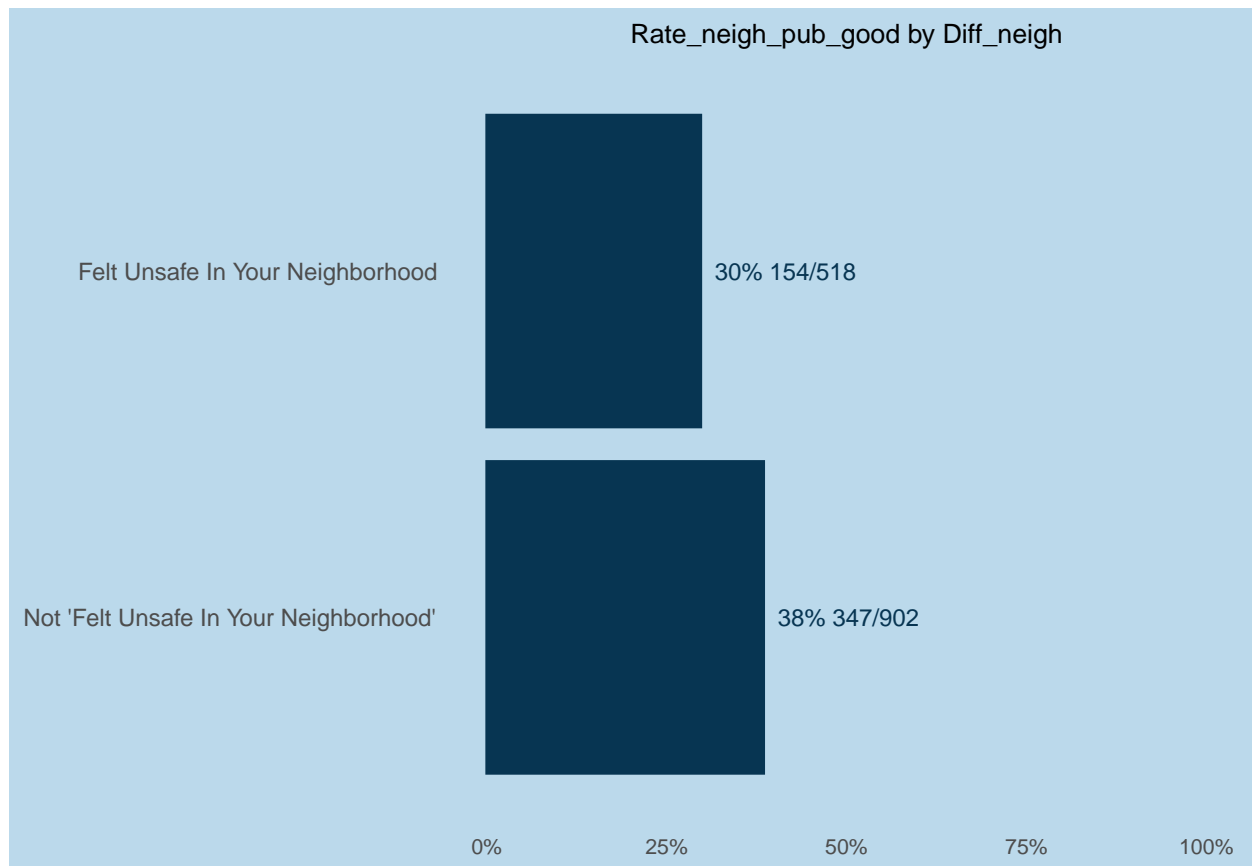
```
##
## [[7]]$diff_neigh$p.values
## [[7]]$diff_neigh$p.values$rate_neigh_pub_bad
##                                    not 'felt unsafe in your neighborhood'
## not 'felt unsafe in your neighborhood'                                NA
## felt unsafe in your neighborhood                                7.1e-06
##                                      felt unsafe in your neighborhood
## not 'felt unsafe in your neighborhood'                       7.1e-06
## felt unsafe in your neighborhood                                  NA
##
##
##
##
## [[8]]
## [[8]]$diff_neigh
## [[8]]$diff_neigh$plot
```

Rate_neigh_pub_good by Diff_neigh

Felt Unsafe In Your Neighborhood   30% 154/518

Not 'Felt Unsafe In Your Neighborhood'   38% 347/902

0%   25%   50%   75%   100%

```
##
## [[8]]$diff_neigh$p.values
## [[8]]$diff_neigh$p.values$rate_neigh_pub_good
##                                               felt unsafe in your neighborhood
## felt unsafe in your neighborhood                                            NA
## not 'felt unsafe in your neighborhood'                                  0.0011
##                                        not 'felt unsafe in your neighborhood'
## felt unsafe in your neighborhood                                       0.0011
## not 'felt unsafe in your neighborhood'                                     NA
##
##
##
##
## [[9]]
## [[9]]$diff_neigh
## NULL
##
##
## [[10]]
## [[10]]$diff_neigh
## [[10]]$diff_neigh$plot
```

Rate_neigh_rec_good by Diff_neigh
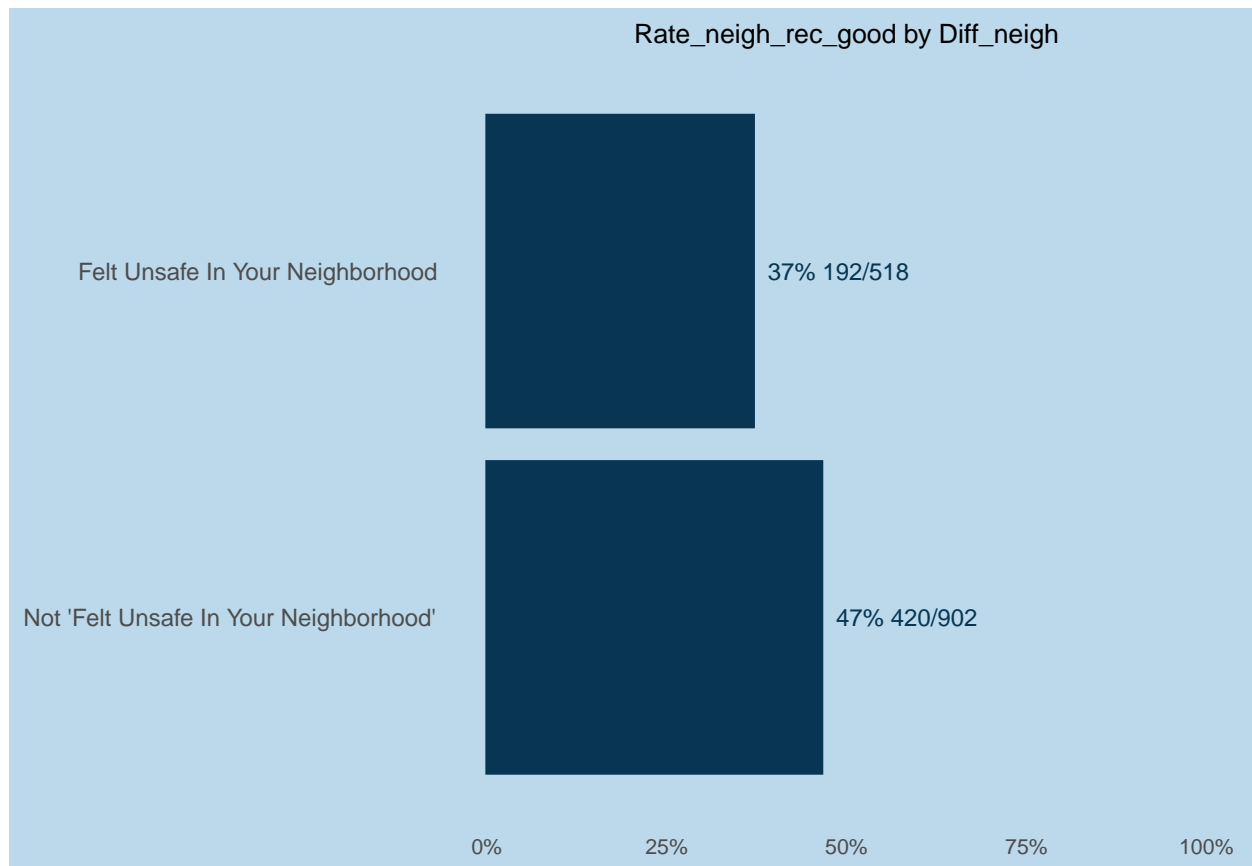
```
##
## [[10]]$diff_neigh$p.values
## [[10]]$diff_neigh$p.values$rate_neigh_rec_good
##                                           felt unsafe in your neighborhood
## felt unsafe in your neighborhood                                        NA
## not 'felt unsafe in your neighborhood'                             0.00062
##                                      not 'felt unsafe in your neighborhood'
## felt unsafe in your neighborhood                                    0.00062
## not 'felt unsafe in your neighborhood'                                   NA
```

5.8, 5.10

5.8)Respondents of certain races are more likely to experience abuse / violence / discrimination [34, 35]

Run binary distribution by race

5.10)Respondents who have a low income (at or below median income) are more likely to experience violence [13, 34]

1. Find proportion who faced abuse or violence [34]
2. Find subset who are below median income[13]

a. Compare and contrast with group who are above median income within the larger proportion

```
wrangled$inc_be_med
```

```
## <labelled<integer>[2145]>
##    [1]  1  0  0  0  0  1  1  1  0  1  0  1  1  1  1  1  1  1  1  1  1  1  1  1
##   [25]  1  1  0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
##   [49]  1  1  1  0  1  1  1  1  1  0  0  1  0  1  1  1  1  1  1  1  1  1  0  1
##   [73]  0  0  1  1  0  1  1  0  1  1  0  0  1  0  1  0  1  0  1  1  1  1  0  1
##   [97]  0  1  0  1  1  1  0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
##  [121]  1  0  1  1  1  1  1  1  1  1  1  0  1  1  1  1  0  1 NA NA NA NA  1  1
##  [145]  1  1 NA  1  1  1  0  0  0  1  1  1  1  1  1  0  1  0  0  0  0  0  1  1
##  [169]  1  0  0  1  0  0  1  1  0  0  0  0  1  1  0  1  0  0  1  1  1  0  1  1
##  [193]  0  1  0  1  1  1  0  0  0  0  1  1  1  0  1  1  1  1  0  0  1  0  1  0
##  [217]  1  1  1  1  1  1  1  1  1  0  1  0  0  1  1  1  1  0  0  1  1  0  1  0
##  [241]  0  1  0  1  0  1  0  1  1  0  0  0  1  1  1  1  1  1  0  1  0  0  0  0
##  [265]  0  1  1  0  0  0  0  1  1  1  0  1  0  0  0  0  1  0  0  0  0  0  0  1
##  [289]  0  0  0  1  0  0  0  1  1  0  1  1  1  1  1  0  1  1  0  0  1  1  1  1
##  [313]  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  0  1
##  [337]  1  0  0  1  0  0  1  0  0  0  1  0  1  0  1  0  0  1  1  1  0  1  0  1
##  [361]  0  0  0  1  1  1  1  0  0  1  1  0  1  1  1  0  1  1  0  1  0  1  0  1
##  [385]  0  1  0  1  0  0  1  1  1  0  0  1  0  1  1  1  1  0  1  1  1  1  1  1
##  [409]  1  0  1  1  1  1  1  1  0  1  1  1  0  1  1  0  1  0  1  1 NA NA NA  1
##  [433]  1  0 NA  1  1  1  1  1  1  1  1  1  1  1  1  1  0  0  1  1  1  0  1  1
##  [457]  0  1  1  0  1  1  1  1 NA  1  1  1  1  1  1  0  0  1  1  0  1  1 NA  1
##  [481]  1  0  0  0  1  1  0  1  1  0  1  1  1 NA  0  1  1  1  1  1  1  1  0  1
##  [505]  1  1  1  1  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  0  0  1  1  0
##  [529]  1  1  0  0  0  0  1  1  0  0  0  1  0  1  1  0  1  1  0  0  0  0  0  0
##  [553]  0  0  0  1  0  0  0  0  0  0  0  0  0  0  1  0  0  1  0  0  0  0  0  0
##  [577]  1  0  0  0  0  1  0  0  0  0  0  1  0  0  1  0  0  0  1  1  1  0  1  1
##  [601]  0  1  1  0  0  1  1  0  1  1  1  0  0  0  1  1  0  1  1  1  1  0  0  1
##  [625]  1  1  0  0  0  0  0  0  1  1  0  0  0  1  1  0  0  1  0  0  1  0  1  1
##  [649]  1  0  0  0  1  1  1  1  1  1  0  1  1 NA  1  1  0  1  0  1  1  1  1  1
##  [673]  1  1  0  0  0  1  0  0  0  1  1  1  1  0  1  0  1  1  0  1  1  0  0  1
##  [697]  0  0  0  1  0  0  0  0  0  0  1  1  1  0  0  0  1  1  0  0  0  1  1  0
##  [721]  0  1  1  0  0  1  1  1  0  1  0  1  1  0  1  1  1  0  1  1  0  1  1  1
##  [745]  1  1  1  0  1  0  1  0  1  1  1  0  1  1  0  1  0  1  1  1  1  1  0  0
##  [769]  1  1  0  1  1  1  0  0  1  1  1  0  0  1  0  0  1  0  0  1  1  1  0  1
##  [793]  0  1  0  0  0  0  0  0  0  0  0  0  1  1  1  1  0  0  1  1  1  0  1  1
##  [817]  0  0  1  1  1  1  0  1  0  0  0  0  1  1  0  1  0  1  1  0  1  0  1  1
##  [841]  0  1  1  0  1  1  0  1  1  1  1  1  0  0  1  1  1  1  1  1  0  1  0  0
##  [865]  0  0  0  1  1  0  1  1  1  1  0  1  0  0  1  0  1  0  0  0  0  1  1  1
##  [889]  1  0  1  0  1  0  1  0  0  1  1  0  1  1  1  1  1  1  1  1  0  1  1
##  [913]  1  0  1  0  0  0  1  1  0  0  1  1  1  1  1  1  1  1  1  0  1  1  0
##  [937]  1  0  1  1  1  0  0  1  1  1  0  1  1  1  0  1  1  1  1  1  1  1  1  1
##  [961]  1  0  1  1  1  1  1  1  1  1  1  1  1  1  0  0  1  1  0  1  1  1  1  0
##  [985]  0  1  0  0  0  0  0  0  1  0  0  0  1  1  0  1  0  1  0  1  0  0  0  0
## [1009]  1  0  0  1  0  1  0  1  1  1  1 NA  1  1  0  1  0  1  0  0  0  0  1  1
## [1033]  1  0  0  0  0  1  0  0  1  1  1  1  1  0  1  0  0  1  1  1  1  0  1  0
## [1057]  0  0  1  1  0  0  0  0  1  1  1  0  1  1  0  0  0  1  0  0  0  0  1  1
## [1081]  0  1  0  1  0  1  1  0  0  0  1  1  1  0  1  0  1  0  1  0  1  0  1  1
## [1105]  0  1  0  0  0  1  0  1  1  1  1  0  1  0  0  1  0  1  1  1  0  0  0  0
## [1129]  0  1  0  1  0  0  0  0  1  1  1  1  1  1  0  1  1  0  1  0  1  1  0  1  0
## [1153]  0  1  1  1 NA  1  0  0  1  1  1  1  0  1  0  0 NA  1  1  0  1  1  1  1
```

```
## [1177]  0  0  0  1  0  1  0  0  0  1  0  1  1  0  0  0  1  1  1  1  1  1  1  1
## [1201]  0  0  0  0  1  0  0  1  1  1  1  1  1  1  1  0  0  0 NA  0  0  0  0  0
## [1225]  0  0  0  1  0  0  0  1  1  0  0  0  0  1 NA  1  0  0  1  0  0  1  0  1
## [1249]  1  1  0  1  0  0  1 NA  1  1  1  1  0  1  0  0  0  0  1  1  0  0  0  1
## [1273]  1  0  0  1  0  0  1  1  1  0  1  1  1  0  1  1  0  1  0  0  1  0  1  1
## [1297]  0  0  1  0  1 NA NA  1  1  0  1  1 NA  0  1  1  0  0  1  0  1  0 NA  1
## [1321]  1  0  1  1  0  0  1  0  0  0  0  1  0  1  0  1  0  0  1  0  0  1  0  0
## [1345]  1  1  1  0  0  0  1  0  1  1  0 NA  0  0  0  0  0  0  1  1  0  1  1  1
## [1369]  0  1  1  1  1  0  0  0  0  0  0  0  0  1  1  1  1  0 NA  0  1  0  0  0
## [1393] NA  0  1  1  1  0  0  0  1  0  1 NA  0  0  1  0  1  1  1  0  1  1  1  1
## [1417] NA  0 NA  0  1  0  1  1  0  0  1  0  1  1  1  1  0  1  1  1  1  1  1  1
## [1441] NA  1  1  1  1  1  1  0  0  0  0  1  1 NA  0  1  1 NA  0  0  1  1  0  1
## [1465]  1  0  1  1  1  1  1  1  0  0  1  1  1  1  1  1  1  1  0  1  1  0  1  1
## [1489]  0  1  1 NA  1 NA  1  1  0  0  0  0 NA NA  0 NA  1 NA  1 NA NA  1  0  0
## [1513] NA NA  1  0  1  1 NA NA NA  1  1 NA  1  0  0  0  0  0  0  0  1  1  1  1
## [1537]  1  0  1  0  0  1  1  1  0  0  0  1 NA  1  0  0  1  1  0  1  1  0  0  1
## [1561]  0  1  0  1  1  1  0  1  0  0  0  1  0  0  1  0  1  0  0  1  1  1  0  0
## [1585]  1  1  1  1  1  0  0  0  0  1  1  0  0  1  0  0  0  1  1  0  1  0  0  1
## [1609]  1  1  0  1  1  1  0  1  1  1  0  1  1  1  1  1  0  1  1  0  0  1  0  1
## [1633]  1  0  1  0  0  1  0  1  1  0  0  1  1  1  0  0  1  1  1  0  0  1  0  0
## [1657]  1  1  1  1  1  0  1  0  0  1  1  1  1  1  1  0  1  1  0  1  1  1  1  0
## [1681]  1  0  1  1  0  1  1  0  1  1  0  1  1  1  0  1  0  1  1  1  0  1  1  0
## [1705]  0  1  1  1  1  1  0  1  1  1  1  1  1  0  0  1  0  0  0  1  1  1  0  1
## [1729]  1  1  1  1  1  1  1  0  1  0  0  1  1  0  0  1  0  0  0  1  0  1  1  0
## [1753]  1  0  1  1  0  0  0  0  0  0  1  1  1  1  0  0  1  0  0  0  1  0  0  1
## [1777]  1  0  1  1  1  1  1  0  0  0  0  0  0  1  0  0  1  1  0  1  0  1  0  1
## [1801]  0  1  0  0  0  0  0  0  1  1  0  1  1  0  1  1  1  0  1  1  1  1  0  1
## [1825]  1  1  0  0  1  0  1  1  1  1  0  1  0  0  0  0  1  1  0  1  1  1  1  0
## [1849]  0  0  1  0  1  1  0  1  1  0  1  0  0  0  1  0  1  0  1  1  1  1  0  0
## [1873]  1  0  1  0  0  0  1  0  1  0  1  0  1  0  0  1  0  0  0  0  0  0  0  1
## [1897]  0  0  1  1  0  0  1  1  0  1  0  0  0  0  0  0  1  0  0  1  0  1  1  0  0
## [1921]  1  0  0  0  1  1  0  0  0  0  0  0  0  0  1  1  1  0  0  1  0  1  1  1
## [1945]  0  1  1  0  0  0  0  1  1  1  0  0  0  1  0  1  1  0  0  0  0  0  1  1
## [1969]  1  0  1  0  0  0  0  1  1  1  0  1  1  1  0  1  1  0  1  1  0  0  1  1
## [1993]  1  1  1  0  0  1  1  1  0  1  0  0  1  1  1  0  1  0  1  0  0  1  1  1
## [2017]  0  0  0  1  1  0  1  1  1  1  1  0  1  1  0  1  0  1  1  0  1  1  1  1
## [2041]  1  0  1  0  0  0  1  0  1  1  0  1  0  1  1  1  0  0  0  1  0  1  0  1
## [2065]  0  0  0  0  1  1  1  1  1  1  0  1  1  0  0  1  1  0  1  0  0  1  0  1
## [2089]  0  1  1  1  0  1  0  1  1  1  1  1  1  0  0  1  1  1  0  0  1  0  0  0
## [2113]  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  1  0  1  0  0  0  0  0  1
## [2137]  0  0  0  0  0  0  0  0  0
##
## Labels:
##  value                                            label
##      1      at or below median income level before and after
##      0 above median income either before or after the start
```
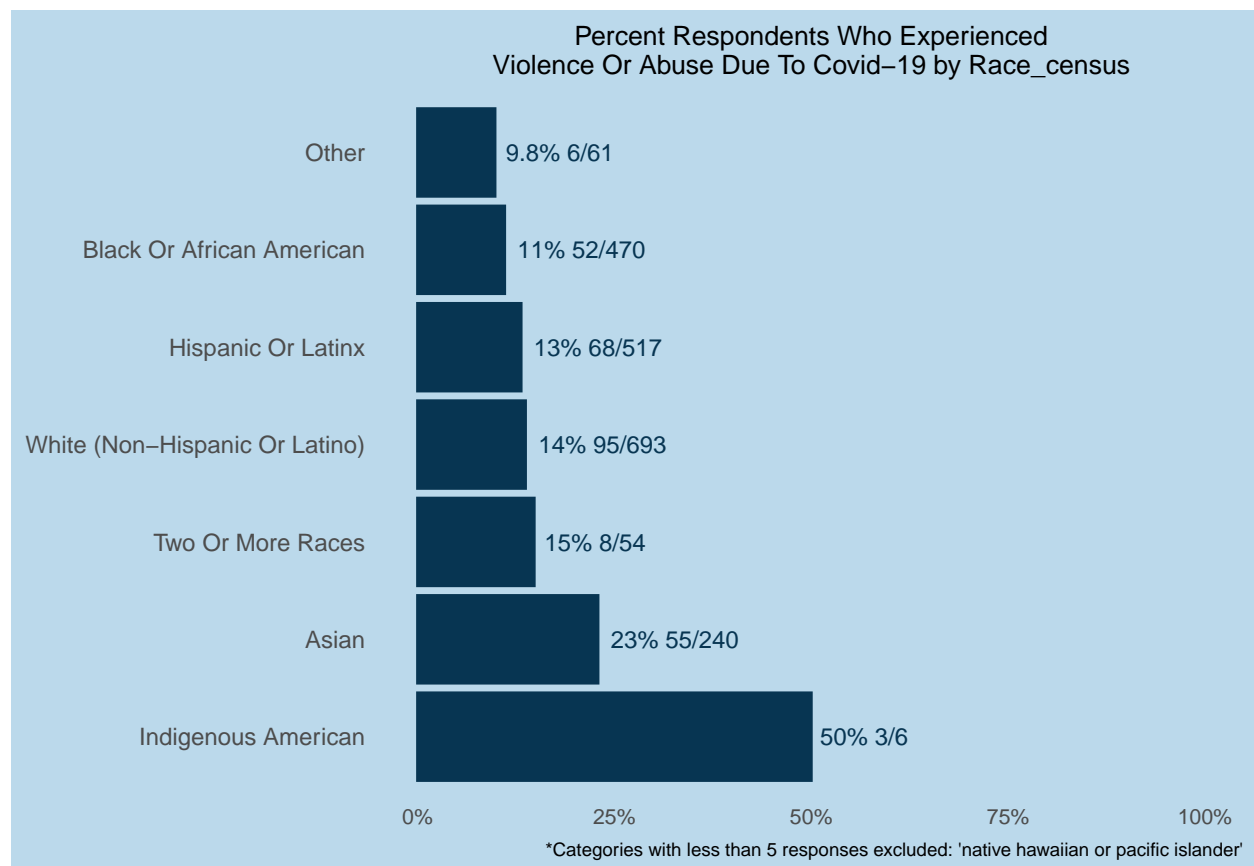
```
make_plots(wrangled, c("race_census", "inc_be_med_before", "inc_be_med"), "exp_ab_or_vi", title = "Perce
```

```
## $race_census
## $race_census$plot
```

Percent Respondents Who Experienced
Violence Or Abuse Due To Covid−19 by Race_census

Race_census	Percent
Other	9.8% 6/61
Black Or African American	11% 52/470
Hispanic Or Latinx	13% 68/517
White (Non−Hispanic Or Latino)	14% 95/693
Two Or More Races	15% 8/54
Asian	23% 55/240
Indigenous American	50% 3/6

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'

```
## 
## $race_census$p.values
## $race_census$p.values$exp_ab_or_vi
##                                 other black or african american
## other                            NA                          NA
## black or african american        NA                          NA
## hispanic or latinx                NA                          NA
## white (non-hispanic or latino)    NA                          NA
## two or more races                 NA                          NA
## asian                             NA                     4.8e-05
## Indigenous American               NA                          NA
##                                 hispanic or latinx
## other                                           NA
## black or african american                       NA
## hispanic or latinx                              NA
## white (non-hispanic or latino)                  NA
## two or more races                               NA
## asian                                        0.001
## Indigenous American                             NA
##                                 white (non-hispanic or latino) two or more races
## other                                                       NA               NA
## black or african american                                   NA               NA
## hispanic or latinx                                          NA               NA
## white (non-hispanic or latino)                              NA               NA
## two or more races                                           NA               NA
## asian                                                   0.0012               NA
```
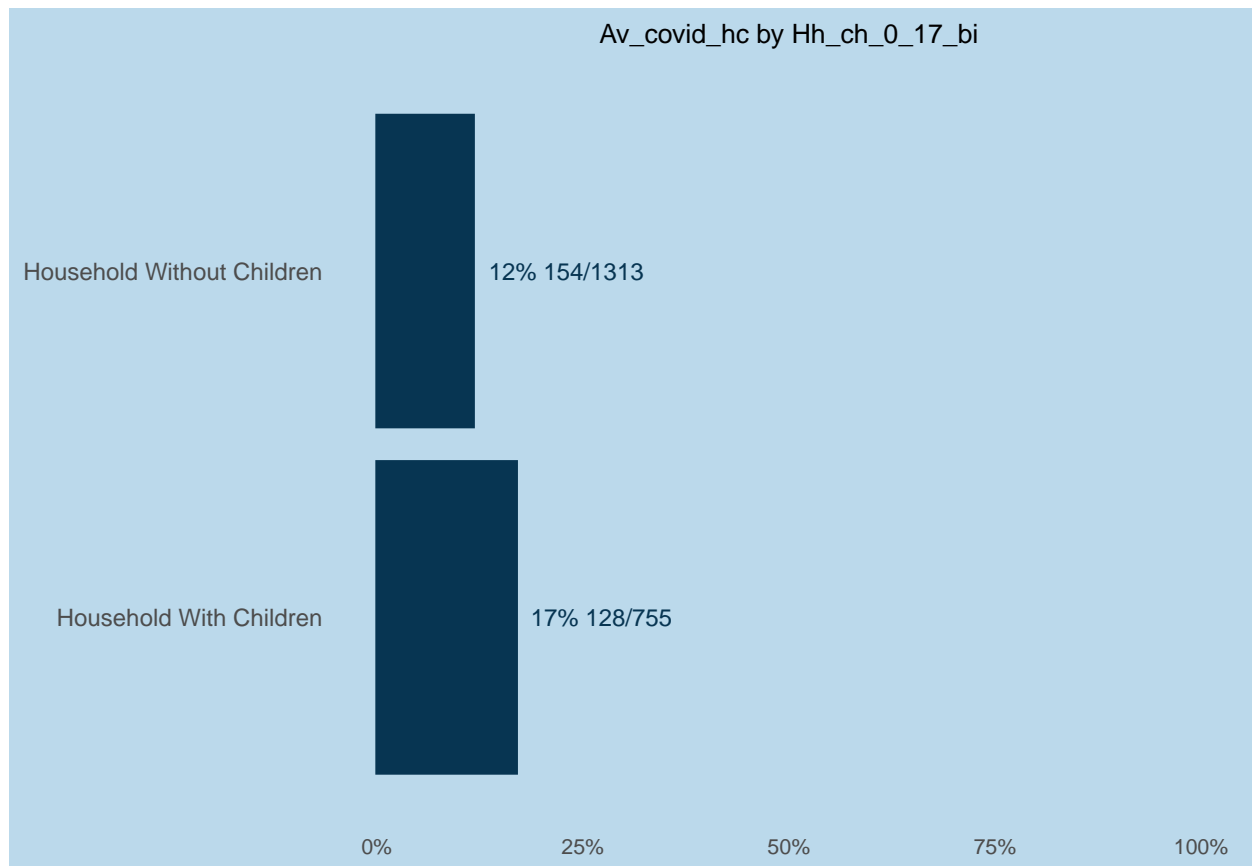
```
## Indigenous American                                        NA                    NA
##                                    asian Indigenous American
## other                               NA                  NA
## black or african american        4.8e-05               NA
## hispanic or latinx               1.0e-03               NA
## white (non-hispanic or latino) 1.2e-03               NA
## two or more races                 NA                  NA
## asian                             NA                  NA
## Indigenous American               NA                  NA
##
##
##
## $inc_be_med_before
## NULL
##
## $inc_be_med
## NULL
```

5.9) Distribution over each activity/place which has been avoided due to safety concern

1. Run sub demographic distribution over each activity/place which has been avoided
2. Run over responses over each population

```r
av_covid <- wrangled %>% select(starts_with("av_covid_") & !ends_with("text")) %>% colnames()

lapply(av_covid, function(av) {
  make_plots(wrangled, demographics, av, title = av)
})
```

```
## [[1]]
## [[1]]$borough
## NULL
##
## [[1]]$gen
## NULL
##
## [[1]]$race_census
## NULL
##
## [[1]]$hh_ch_0_17_bi
## [[1]]$hh_ch_0_17_bi$plot
```

Av_covid_hc by Hh_ch_0_17_bi

Household Without Children — 12% 154/1313

Household With Children — 17% 128/755

0%   25%   50%   75%   100%

```
##
## [[1]]$hh_ch_0_17_bi$p.values
## [[1]]$hh_ch_0_17_bi$p.values$av_covid_hc
##                            household without children household with children
## household without children                        NA                   0.0011
## household with children                       0.0011                       NA
##
##
##
## [[1]]$hh_sn_65_bi
## NULL
##
## [[1]]$inc_dist
## NULL
##
##
## [[2]]
## [[2]]$borough
## NULL
##
## [[2]]$gen
## NULL
##
## [[2]]$race_census
## NULL
##
```

```
## [[2]]$hh_ch_0_17_bi
## NULL
##
## [[2]]$hh_sn_65_bi
## NULL
##
## [[2]]$inc_dist
## NULL
##
##
## [[3]]
## [[3]]$borough
## [[3]]$borough$plot
```
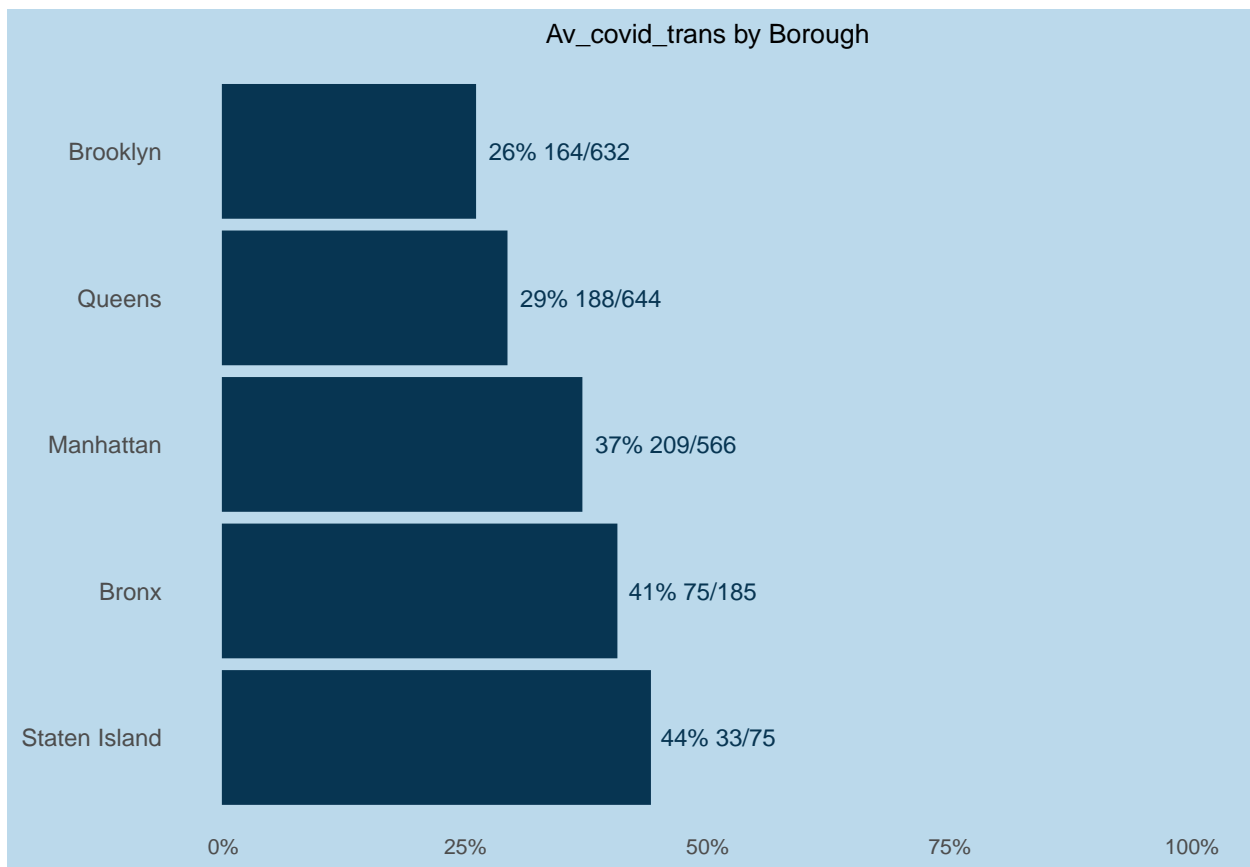


```
##
## [[3]]$borough$p.values
## [[3]]$borough$p.values$av_covid_trans
##               brooklyn queens manhattan   bronx staten island
## brooklyn            NA     NA   5.5e-05 0.00018        0.0016
## queens              NA     NA   5.2e-03 0.00460           NA
## manhattan      5.5e-05 0.0052        NA      NA           NA
## bronx          1.8e-04 0.0046        NA      NA           NA
## staten island  1.6e-03     NA        NA      NA           NA
##
##
```
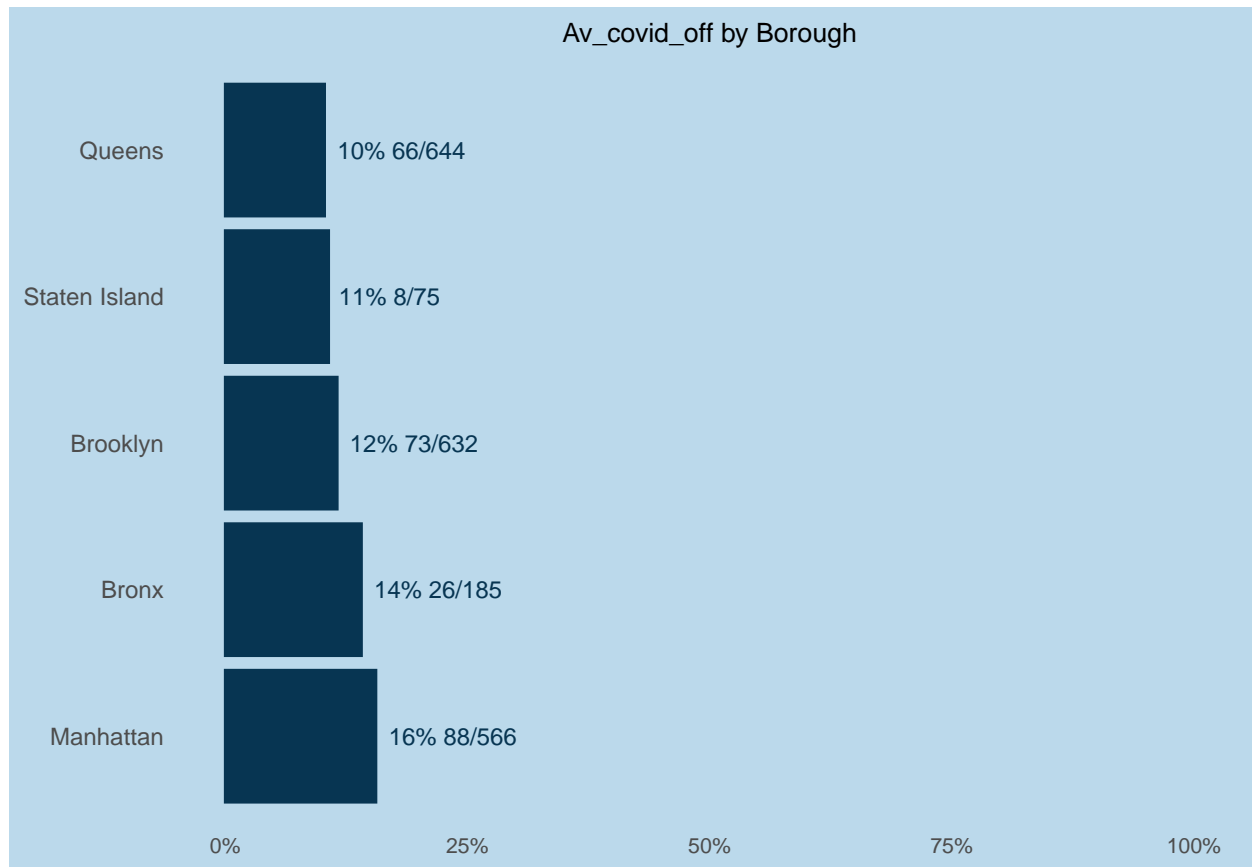
```
##
## [[3]]$gen
## [[3]]$gen$plot
```
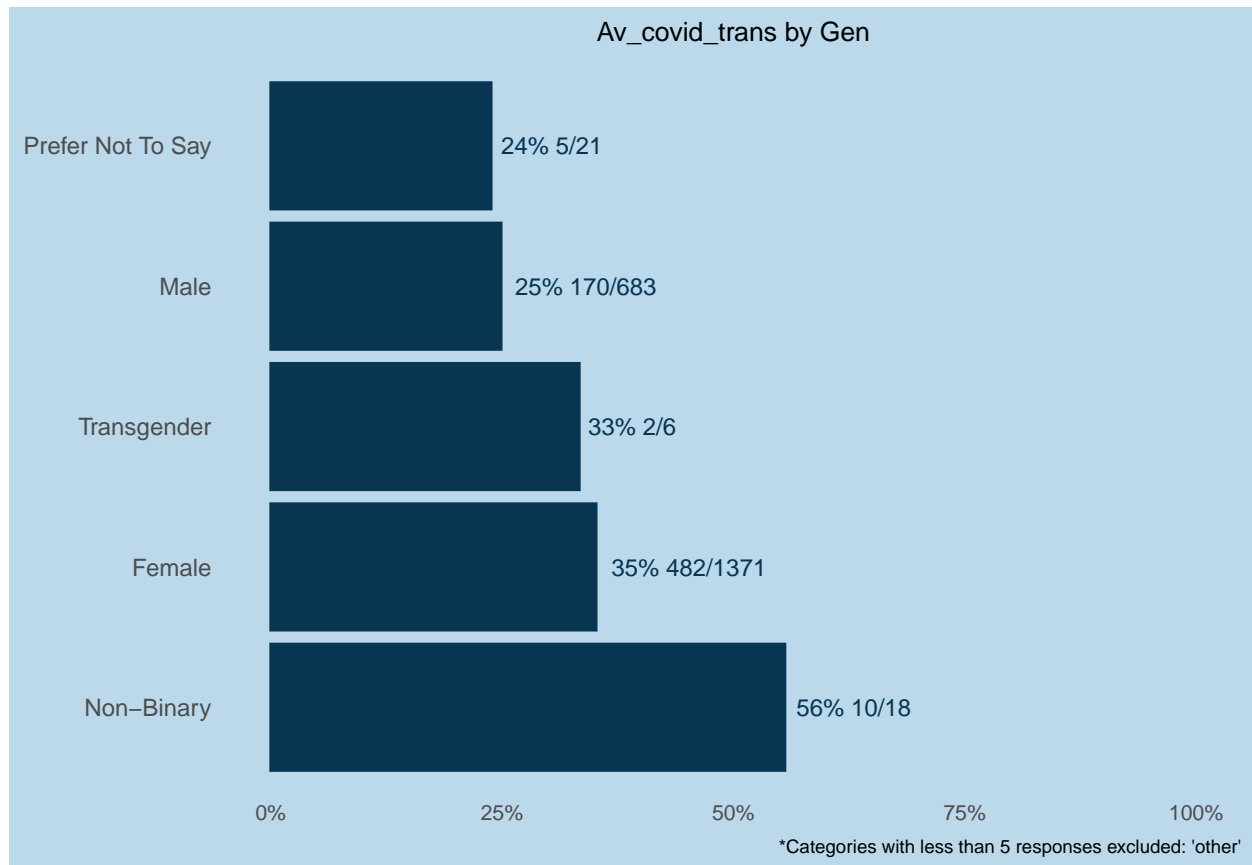


```
##
## [[3]]$gen$p.values
## [[3]]$gen$p.values$av_covid_trans
##                    prefer not to say     male transgender  female non-binary
## prefer not to say                 NA       NA          NA      NA        NA
## male                              NA       NA          NA 3.2e-06        NA
## transgender                       NA       NA          NA      NA        NA
## female                            NA 3.2e-06          NA      NA        NA
## non-binary                        NA       NA          NA      NA        NA
##
##
##
## [[3]]$race_census
## NULL
##
## [[3]]$hh_ch_0_17_bi
## NULL
##
## [[3]]$hh_sn_65_bi
## NULL
##
```

```
## [[3]]$inc_dist
## NULL
##
##
## [[4]]
## [[4]]$borough
## [[4]]$borough$plot
```


Av_covid_off by Borough

```
##
## [[4]]$borough$p.values
## [[4]]$borough$p.values$av_covid_off
##               queens staten island brooklyn bronx manhattan
## queens            NA            NA       NA    NA    0.0075
## staten island     NA            NA       NA    NA        NA
## brooklyn          NA            NA       NA    NA        NA
## bronx             NA            NA       NA    NA        NA
## manhattan     0.0075            NA       NA    NA        NA
##
##
##
## [[4]]$gen
## NULL
##
## [[4]]$race_census
## NULL
```

```
## 
## [[4]]$hh_ch_0_17_bi
## NULL
## 
## [[4]]$hh_sn_65_bi
## NULL
## 
## [[4]]$inc_dist
## NULL
## 
## 
## [[5]]
## [[5]]$borough
## [[5]]$borough$plot
```
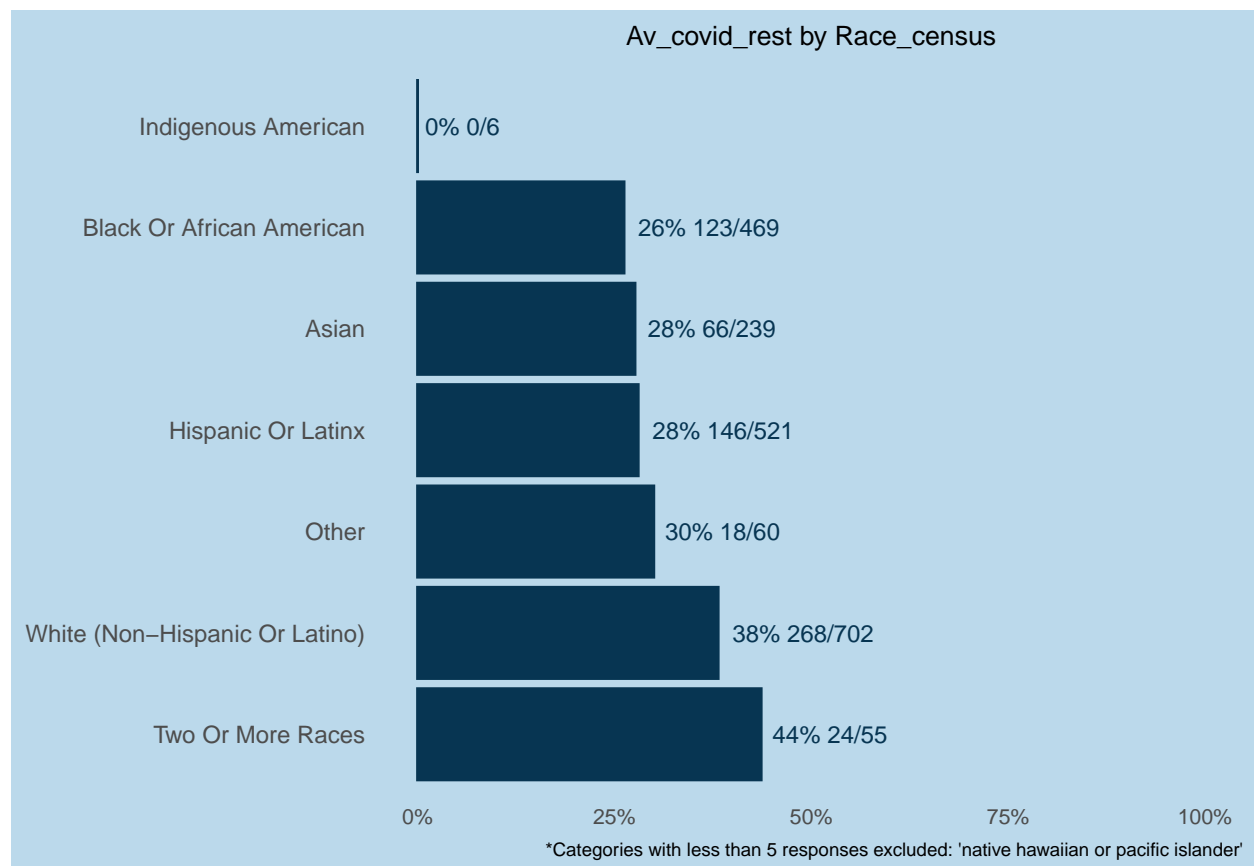

Av_covid_rest by Borough
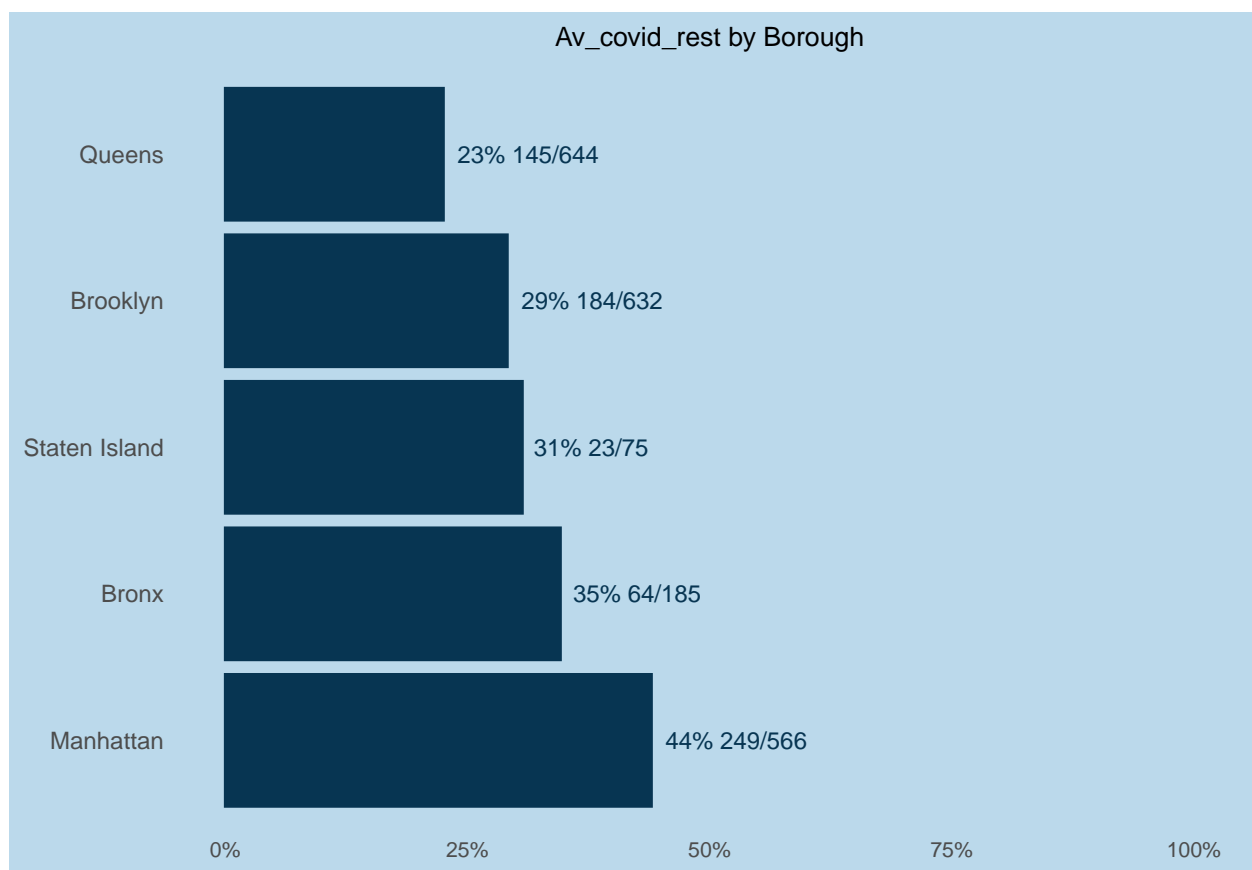
```
## 
## [[5]]$borough$p.values
## [[5]]$borough$p.values$av_covid_rest
##               queens brooklyn staten island  bronx manhattan
## queens            NA  8.5e-03            NA 0.0012   2.9e-15
## brooklyn     8.5e-03       NA            NA     NA   1.2e-07
## staten island     NA       NA            NA     NA        NA
## bronx        1.2e-03       NA            NA     NA        NA
## manhattan    2.9e-15  1.2e-07            NA     NA        NA
## 
```

```
##
##
## [[5]]$gen
## [[5]]$gen$plot
```
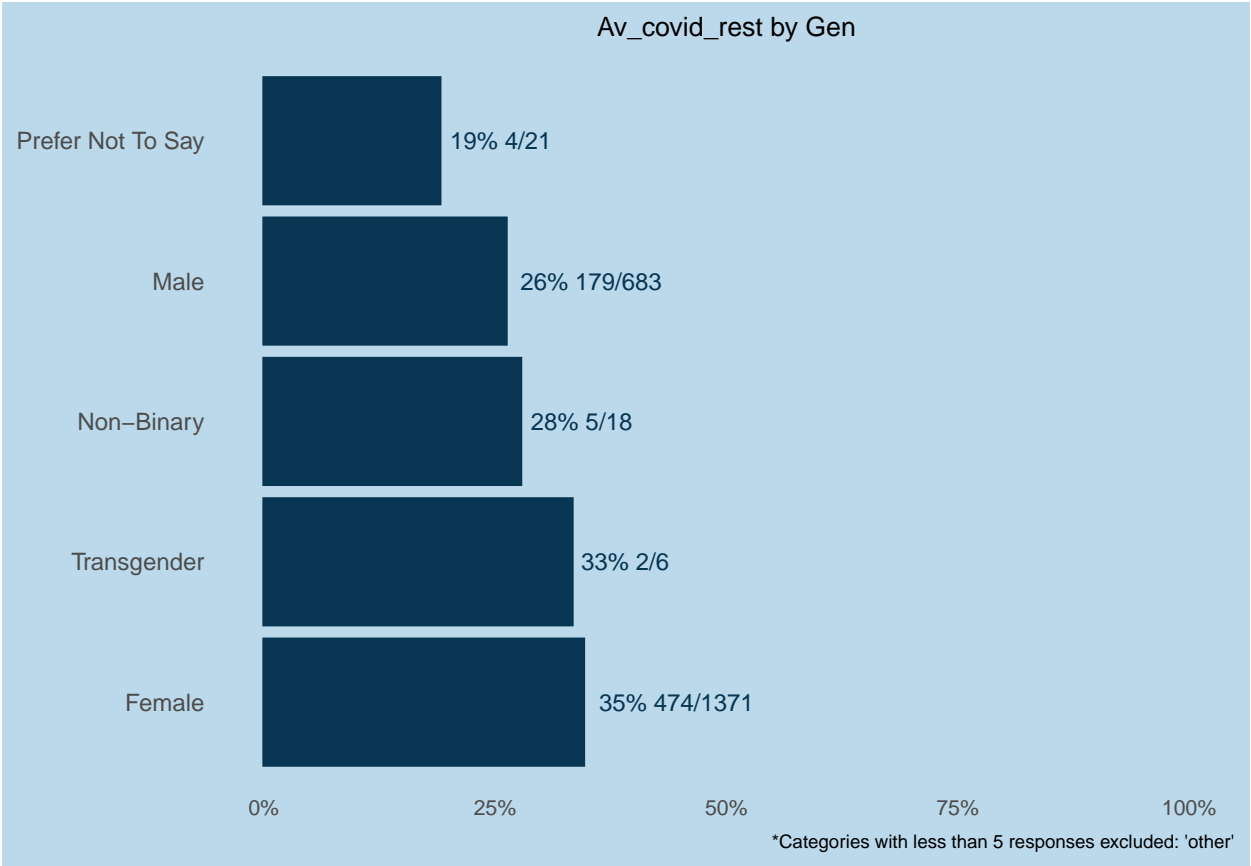


```
##
## [[5]]$gen$p.values
## [[5]]$gen$p.values$av_covid_rest
##                      prefer not to say    male non-binary transgender  female
## prefer not to say                   NA      NA        NA          NA      NA
## male                                NA      NA        NA          NA 0.00015
## non-binary                          NA      NA        NA          NA      NA
## transgender                         NA      NA        NA          NA      NA
## female                              NA 0.00015        NA          NA      NA
##
##
##
## [[5]]$race_census
## [[5]]$race_census$plot
```

Av_covid_rest by Race_census

Indigenous American — 0% 0/6
Black Or African American — 26% 123/469
Asian — 28% 66/239
Hispanic Or Latinx — 28% 146/521
Other — 30% 18/60
White (Non–Hispanic Or Latino) — 38% 268/702
Two Or More Races — 44% 24/55

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
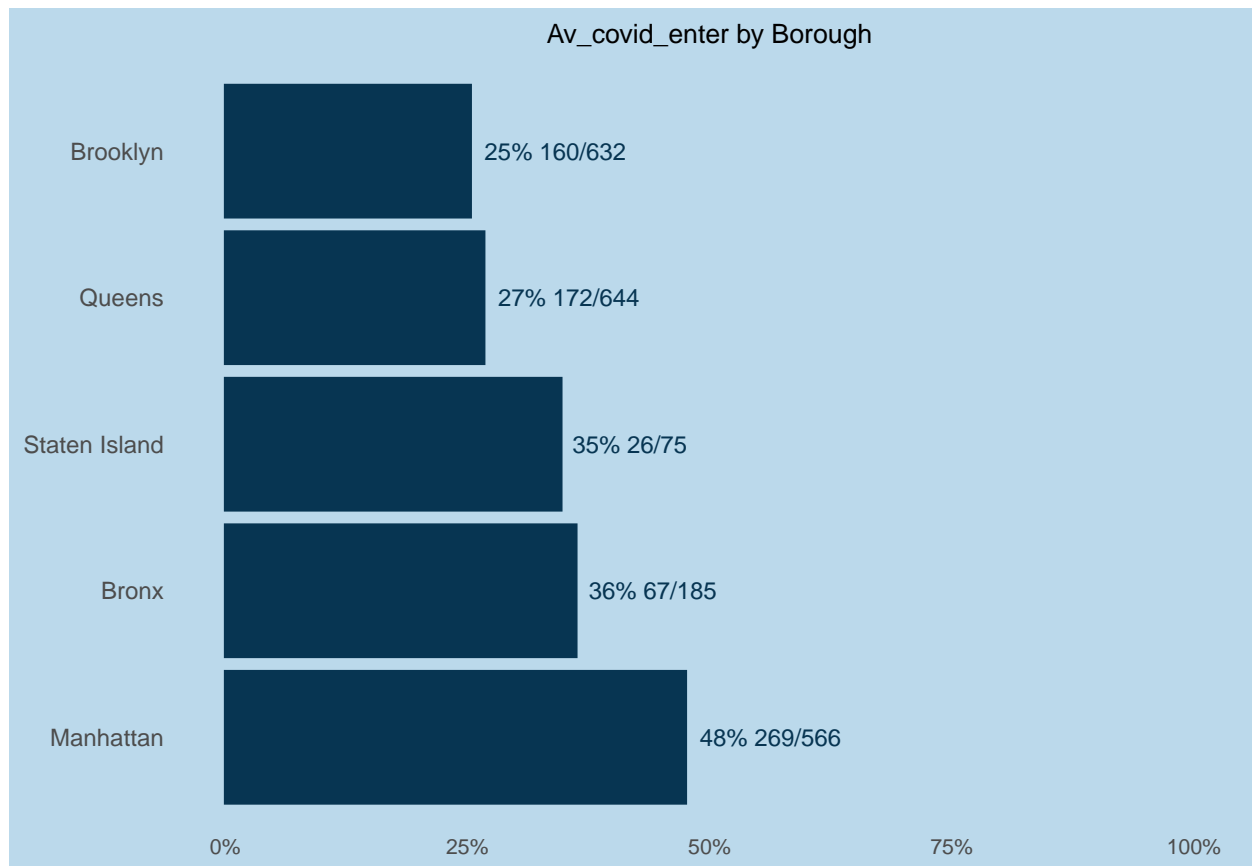
```
## 
## [[5]]$race_census$p.values
## [[5]]$race_census$p.values$av_covid_rest
##                              Indigenous American black or african american
## Indigenous American                           NA                        NA
## black or african american                     NA                        NA
## asian                                         NA                        NA
## hispanic or latinx                            NA                        NA
## other                                         NA                        NA
## white (non-hispanic or latino)                NA                   2.8e-05
## two or more races                             NA                   1.0e-02
##                               asian hispanic or latinx other
## Indigenous American              NA                 NA    NA
## black or african american        NA                 NA    NA
## asian                            NA                 NA    NA
## hispanic or latinx               NA                 NA    NA
## other                            NA                 NA    NA
## white (non-hispanic or latino) 0.0041            0.00026   NA
## two or more races                NA                 NA    NA
##                               white (non-hispanic or latino) two or more races
## Indigenous American                                       NA               NA
## black or african american                            2.8e-05             0.01
## asian                                                4.1e-03               NA
## hispanic or latinx                                   2.6e-04               NA
## other                                                     NA               NA
## white (non-hispanic or latino)                            NA               NA
```
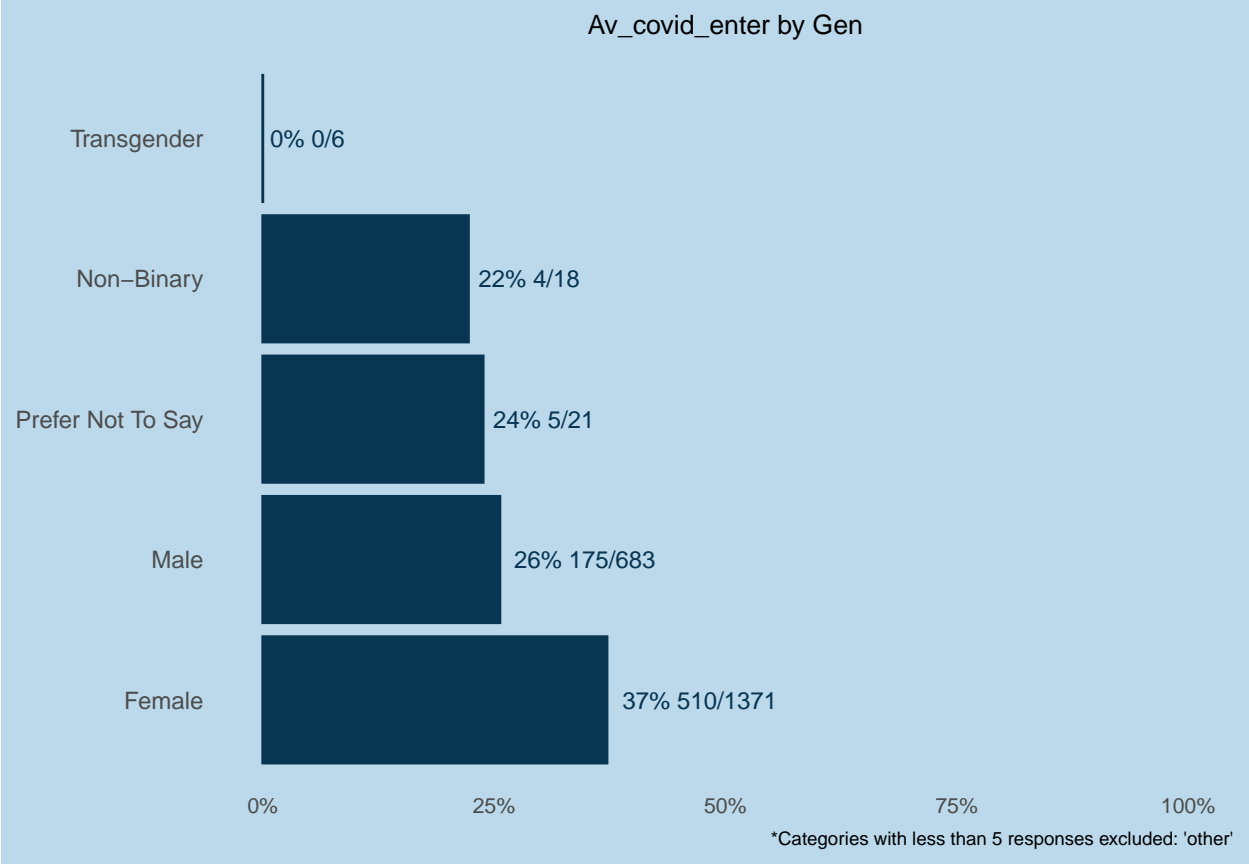
```
## two or more races                                          NA              NA
##
##
##
## [[5]]$hh_ch_0_17_bi
## NULL
##
## [[5]]$hh_sn_65_bi
## [[5]]$hh_sn_65_bi$plot
```
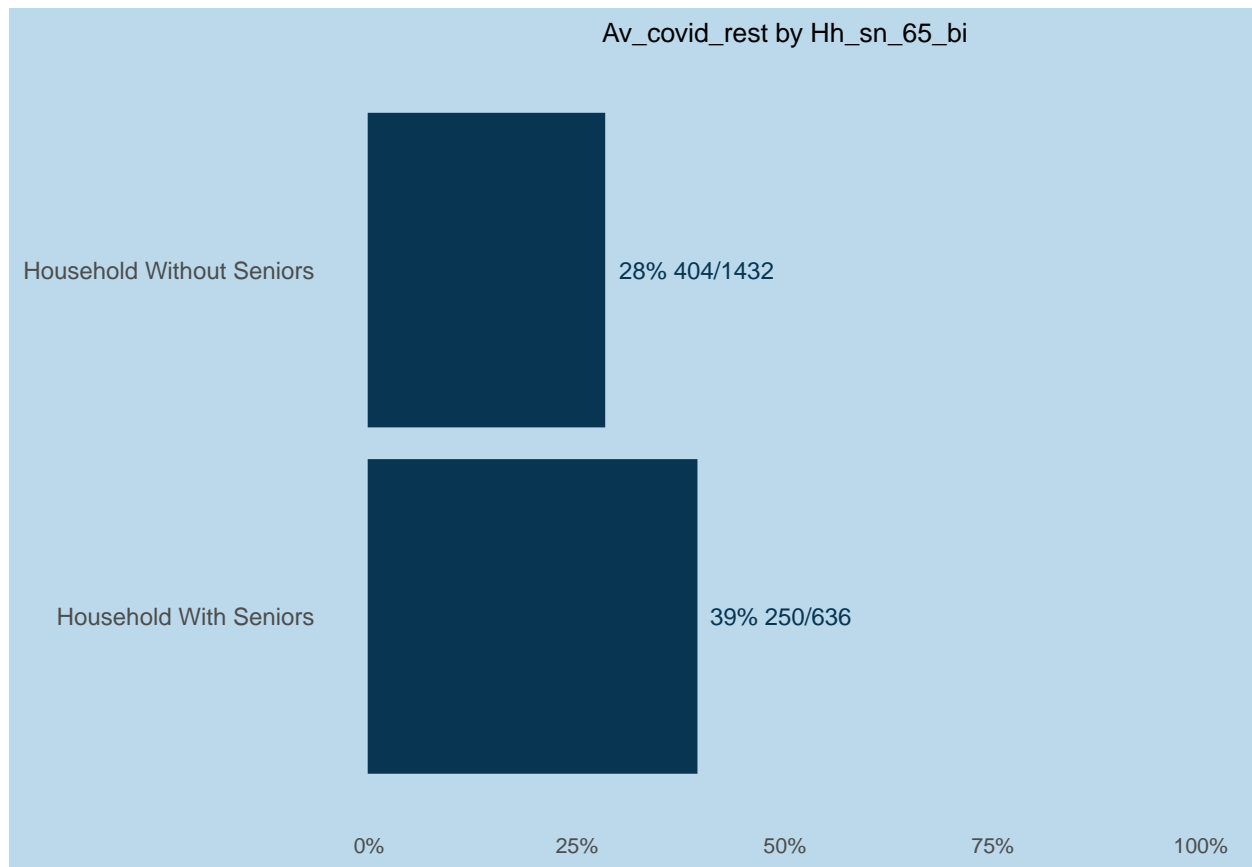


```
##
## [[5]]$hh_sn_65_bi$p.values
## [[5]]$hh_sn_65_bi$p.values$av_covid_rest
##                          household without seniors household with seniors
## household without seniors                     NA                 7.2e-07
## household with seniors                    7.2e-07                     NA
##
##
##
## [[5]]$inc_dist
## NULL
##
##
## [[6]]
## [[6]]$borough
## [[6]]$borough$plot
```
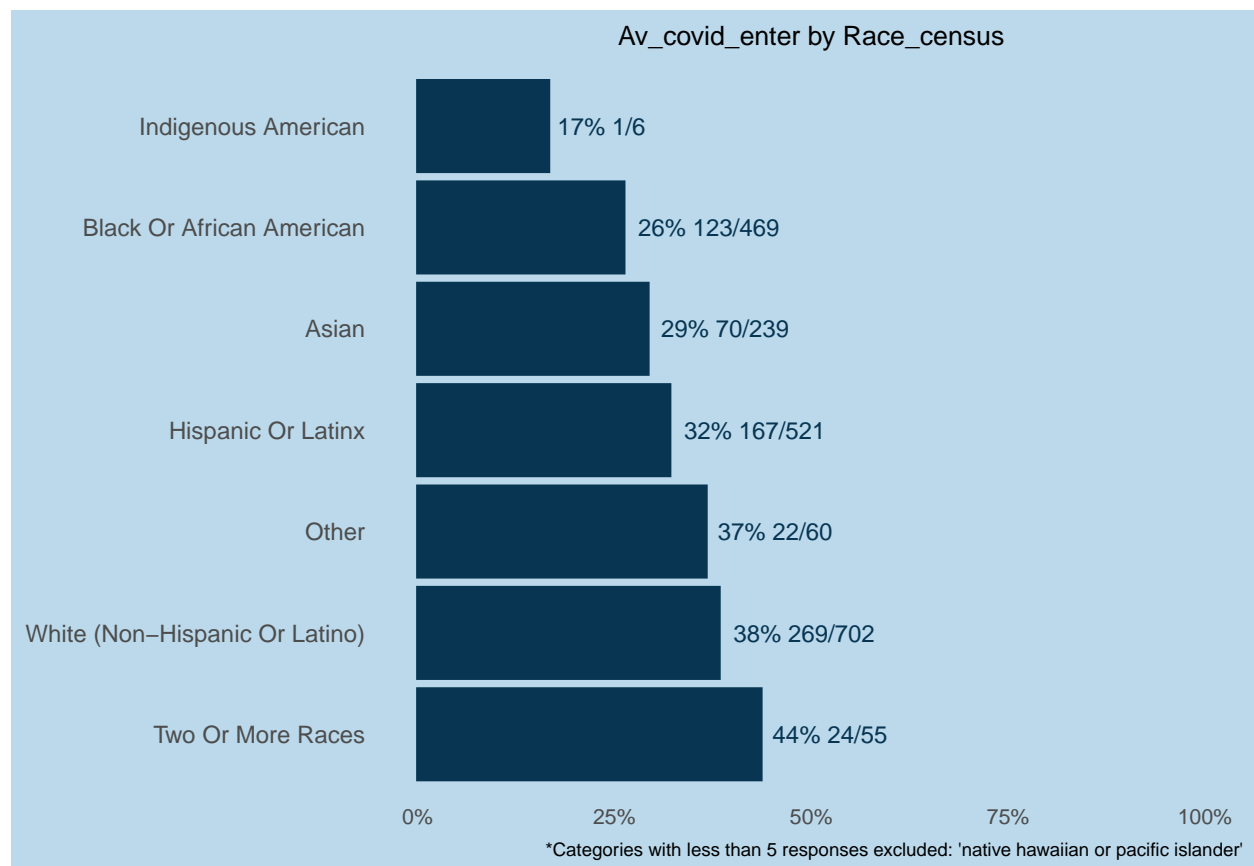
Av_covid_enter by Borough

Brooklyn   25% 160/632

Queens   27% 172/644

Staten Island   35% 26/75

Bronx   36% 67/185

Manhattan   48% 269/566

0% 25% 50% 75% 100%

```
##
## [[6]]$borough$p.values
## [[6]]$borough$p.values$av_covid_enter
##               brooklyn  queens staten island  bronx manhattan
## brooklyn            NA      NA            NA 0.0048   1.9e-15
## queens              NA      NA            NA     NA   9.5e-14
## staten island       NA      NA            NA     NA        NA
## bronx          4.8e-03      NA            NA     NA   9.3e-03
## manhattan      1.9e-15 9.5e-14            NA 0.0093        NA
##
##
##
## [[6]]$gen
## [[6]]$gen$plot
```

Av_covid_enter by Gen

Transgender — 0% 0/6

Non–Binary — 22% 4/18

Prefer Not To Say — 24% 5/21

Male — 26% 175/683

Female — 37% 510/1371

0%   25%   50%   75%   100%

*Categories with less than 5 responses excluded: 'other'
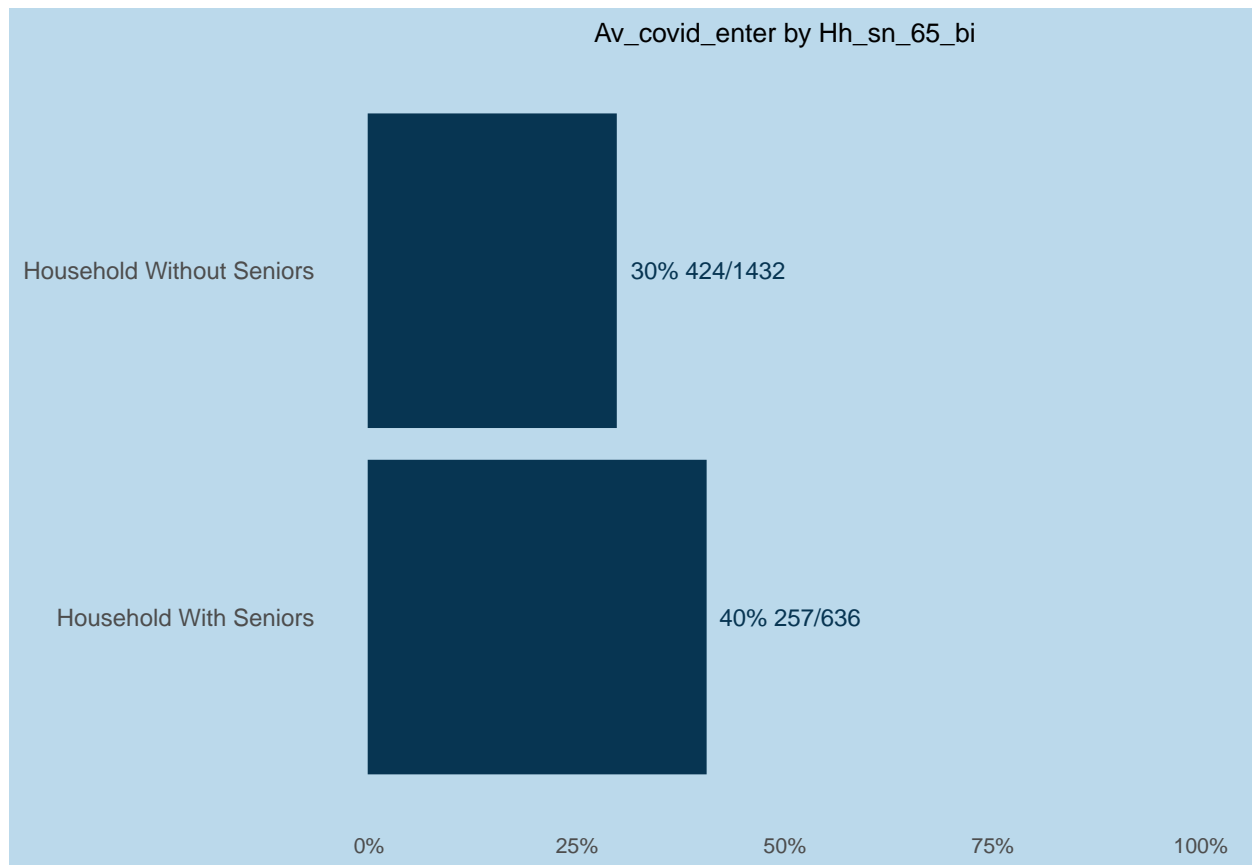
```
## 
## [[6]]$gen$p.values
## [[6]]$gen$p.values$av_covid_enter
##                   transgender non-binary prefer not to say     male   female
## transgender                NA         NA                NA       NA       NA
## non-binary                 NA         NA                NA       NA       NA
## prefer not to say          NA         NA                NA       NA       NA
## male                       NA         NA                NA       NA 2.1e-07
## female                     NA         NA                NA 2.1e-07       NA
## 
## 
## 
## [[6]]$race_census
## [[6]]$race_census$plot
```

39

Av_covid_enter by Race_census

Race	Value
Indigenous American	17% 1/6
Black Or African American	26% 123/469
Asian	29% 70/239
Hispanic Or Latinx	32% 167/521
Other	37% 22/60
White (Non–Hispanic Or Latino)	38% 269/702
Two Or More Races	44% 24/55

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
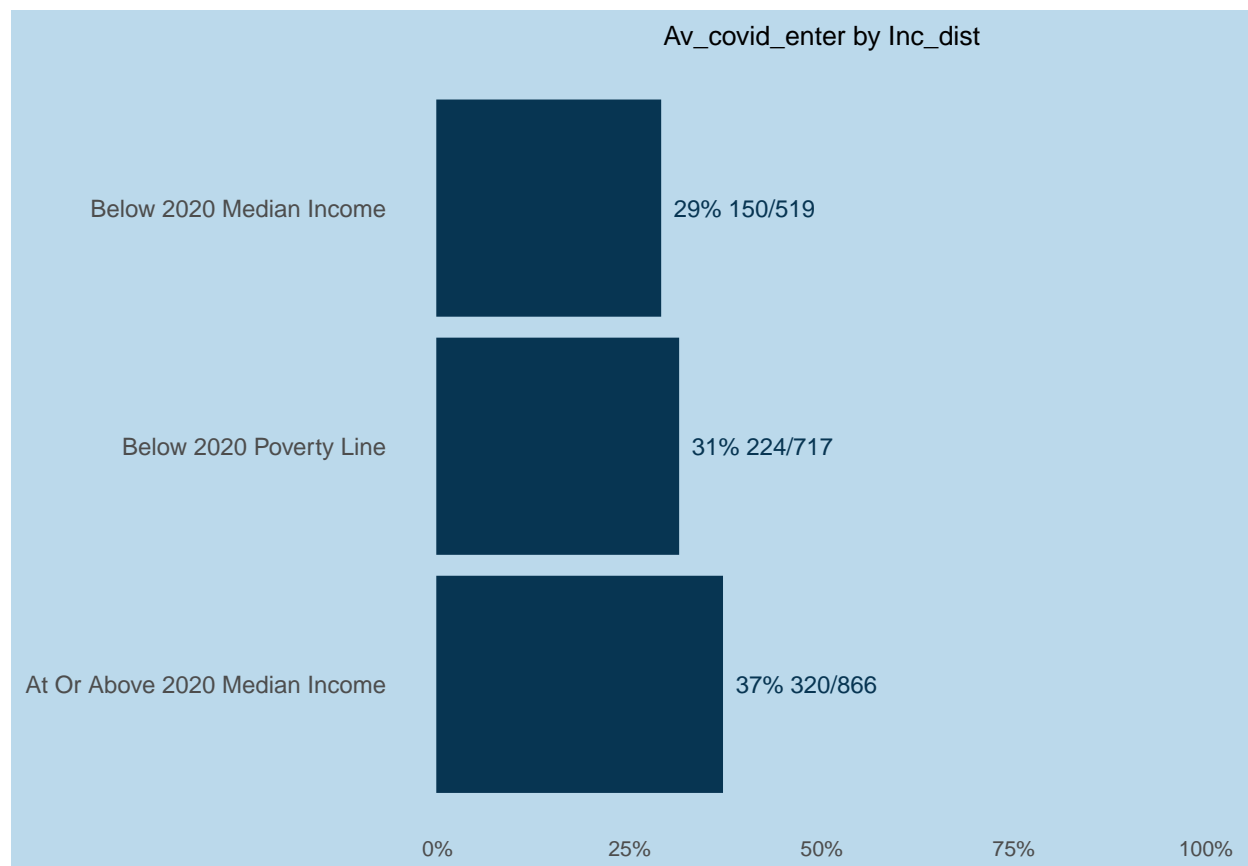
```
##
## [[6]]$race_census$p.values
## [[6]]$race_census$p.values$av_covid_enter
##                                Indigenous American black or african american
## Indigenous American                             NA                         NA
## black or african american                      NA                         NA
## asian                                          NA                         NA
## hispanic or latinx                             NA                         NA
## other                                          NA                         NA
## white (non-hispanic or latino)                 NA                    2.3e-05
## two or more races                              NA                    1.0e-02
##                                asian hispanic or latinx other
## Indigenous American              NA                 NA    NA
## black or african american        NA                 NA    NA
## asian                            NA                 NA    NA
## hispanic or latinx               NA                 NA    NA
## other                            NA                 NA    NA
## white (non-hispanic or latino)   NA                 NA    NA
## two or more races                NA                 NA    NA
##                                white (non-hispanic or latino) two or more races
## Indigenous American                                        NA                NA
## black or african american                            2.3e-05              0.01
## asian                                                     NA                NA
## hispanic or latinx                                        NA                NA
## other                                                     NA                NA
## white (non-hispanic or latino)                            NA                NA
```
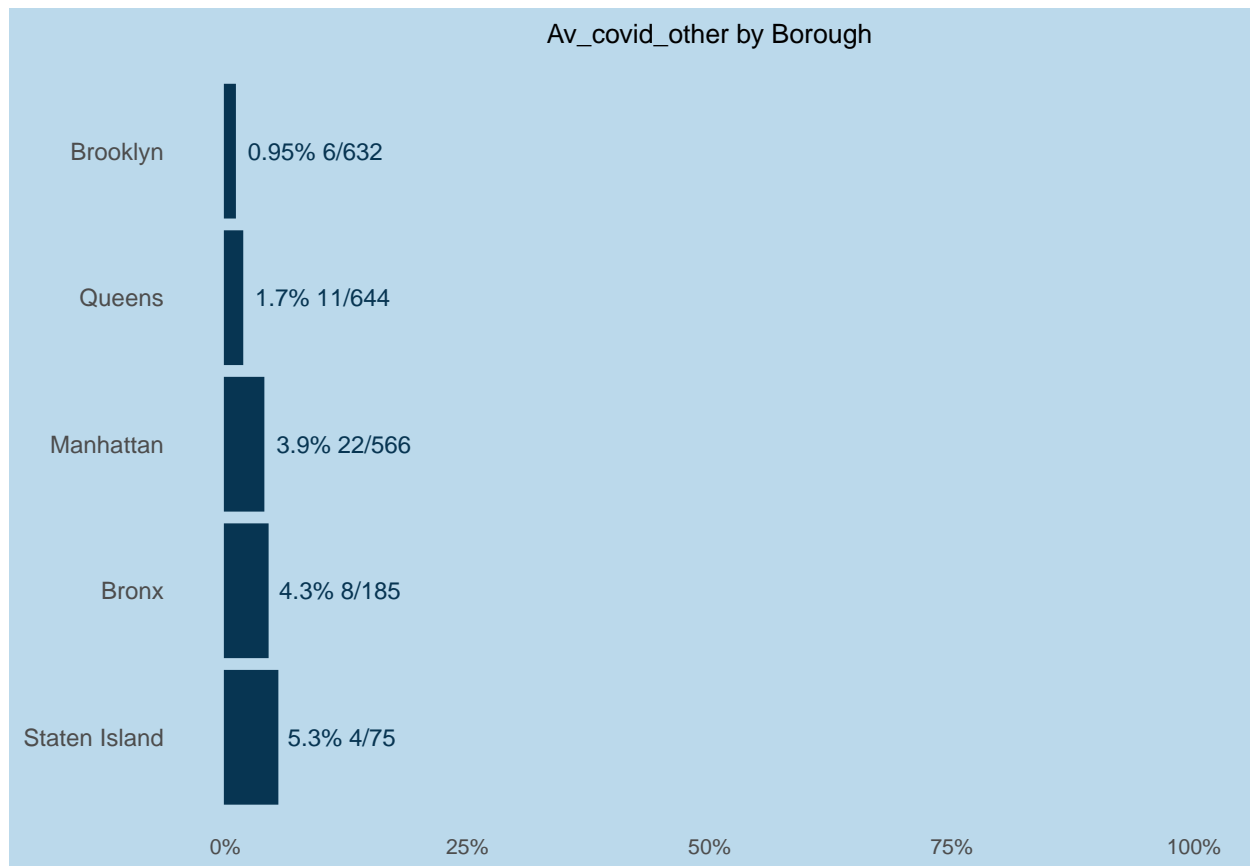
```
## two or more races                                              NA                NA
##
##
##
## [[6]]$hh_ch_0_17_bi
## NULL
##
## [[6]]$hh_sn_65_bi
## [[6]]$hh_sn_65_bi$plot
```


Av_covid_enter by Hh_sn_65_bi

Household Without Seniors   30% 424/1432

Household With Seniors   40% 257/636

0%   25%   50%   75%   100%
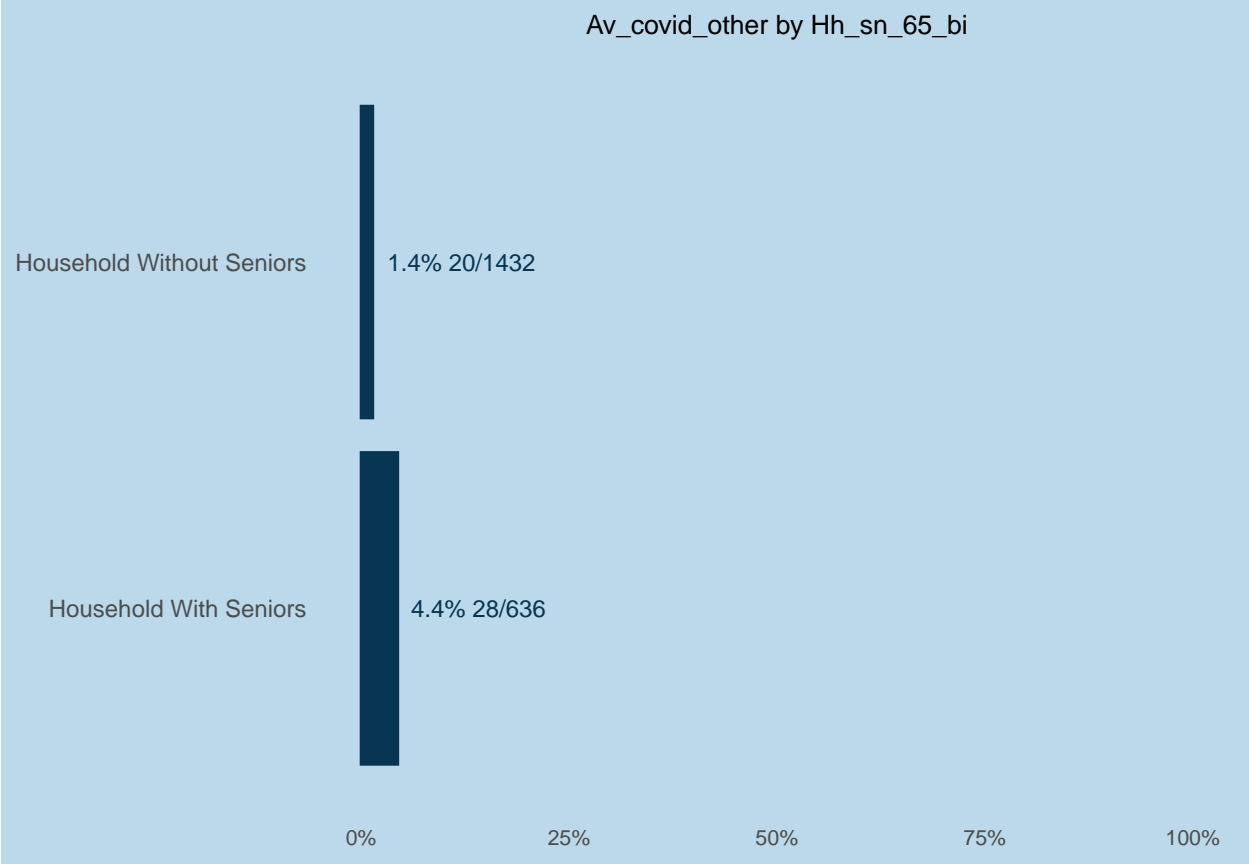
```
##
## [[6]]$hh_sn_65_bi$p.values
## [[6]]$hh_sn_65_bi$p.values$av_covid_enter
##                          household without seniors household with seniors
## household without seniors                       NA                1.8e-06
## household with seniors                     1.8e-06                     NA
##
##
##
## [[6]]$inc_dist
## [[6]]$inc_dist$plot
```
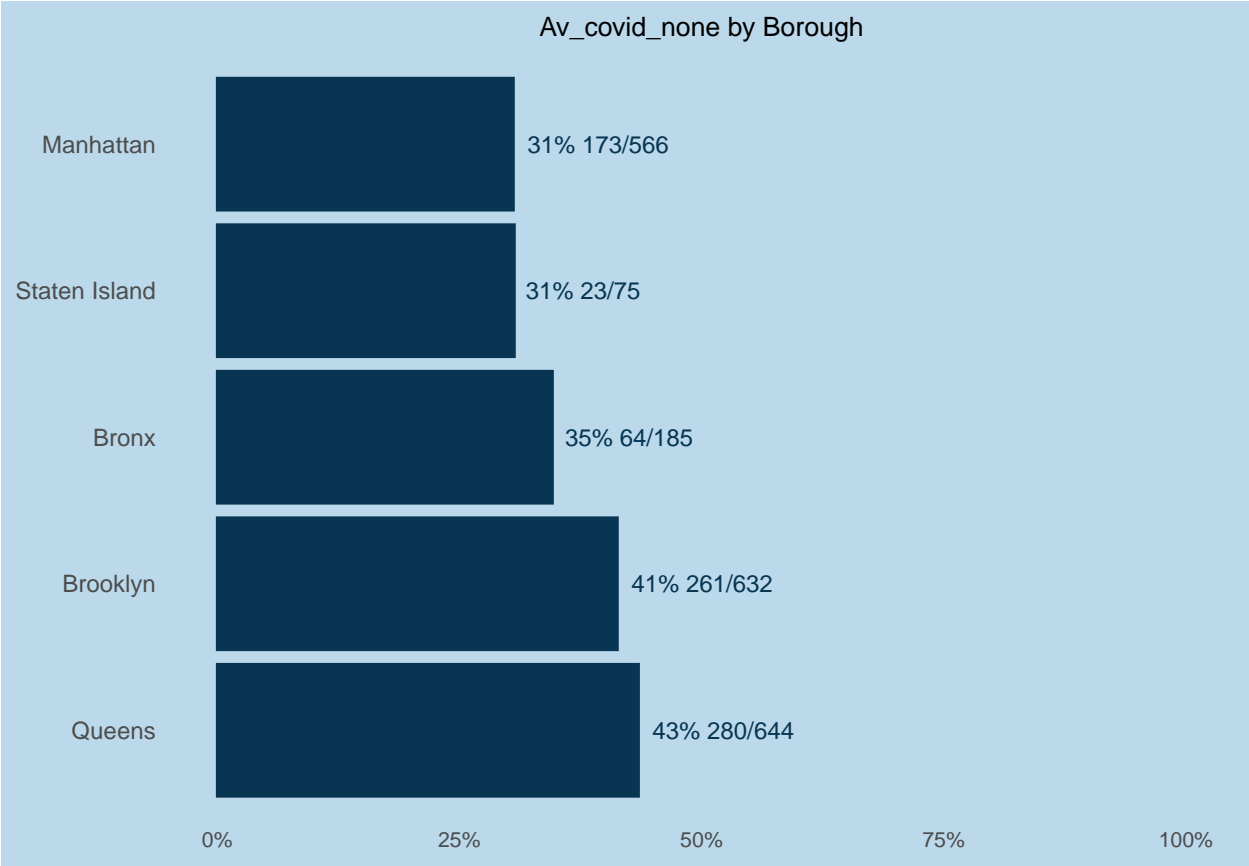
Av_covid_enter by Inc_dist

Below 2020 Median Income		29% 150/519
Below 2020 Poverty Line		31% 224/717
At Or Above 2020 Median Income		37% 320/866

0%   25%   50%   75%   100%

```
## 
## [[6]]$inc_dist$p.values
## [[6]]$inc_dist$p.values$av_covid_enter
##                              below 2020 median income below 2020 poverty line
## below 2020 median income                           NA                      NA
## below 2020 poverty line                            NA                      NA
## at or above 2020 median income                 0.0027                      NA
##                              at or above 2020 median income
## below 2020 median income                             0.0027
## below 2020 poverty line                                  NA
## at or above 2020 median income                           NA
## 
## 
## 
## 
## [[7]]
## [[7]]$borough
## [[7]]$borough$plot
```

Av_covid_other by Borough

Brooklyn	0.95% 6/632
Queens	1.7% 11/644
Manhattan	3.9% 22/566
Bronx	4.3% 8/185
Staten Island	5.3% 4/75

0%   25%   50%   75%   100%
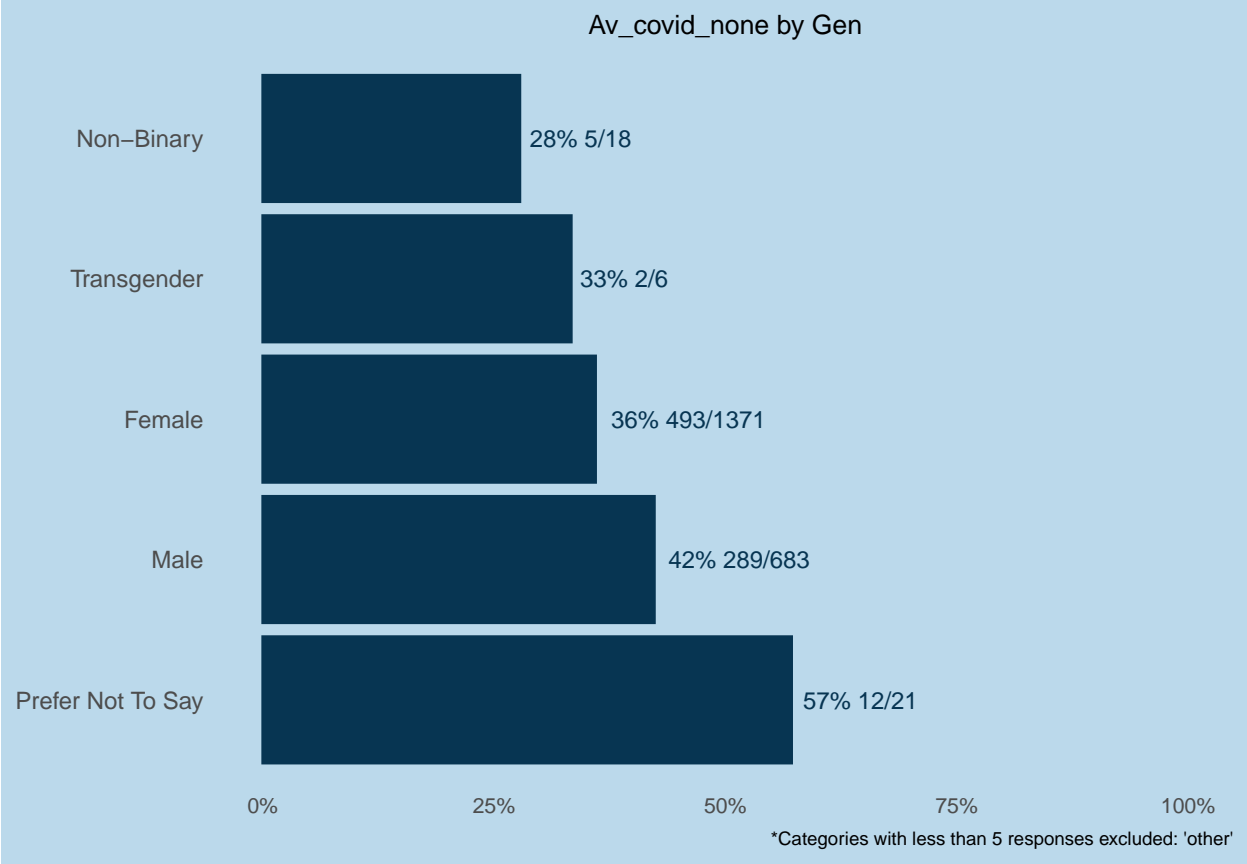
```
## 
## [[7]]$borough$p.values
## [[7]]$borough$p.values$av_covid_other
##                 brooklyn queens manhattan bronx staten island
## brooklyn              NA     NA    0.0015    NA            NA
## queens               NA     NA        NA    NA            NA
## manhattan        0.0015     NA        NA    NA            NA
## bronx                NA     NA        NA    NA            NA
## staten island        NA     NA        NA    NA            NA
## 
## 
## 
## [[7]]$gen
## NULL
## 
## [[7]]$race_census
## NULL
## 
## [[7]]$hh_ch_0_17_bi
## NULL
## 
## [[7]]$hh_sn_65_bi
## [[7]]$hh_sn_65_bi$plot
```

Av_covid_other by Hh_sn_65_bi

Household Without Seniors   1.4% 20/1432

Household With Seniors   4.4% 28/636

0%   25%   50%   75%   100%

```
##
## [[7]]$hh_sn_65_bi$p.values
## [[7]]$hh_sn_65_bi$p.values$av_covid_other
##                           household without seniors household with seniors
## household without seniors                        NA                5.6e-05
## household with seniors                      5.6e-05                     NA
##
##
##
## [[7]]$inc_dist
## NULL
##
##
## [[8]]
## [[8]]$borough
## [[8]]$borough$plot
```

Av_covid_none by Borough

Manhattan 31% 173/566

Staten Island 31% 23/75

Bronx 35% 64/185

Brooklyn 41% 261/632

Queens 43% 280/644

```
##
## [[8]]$borough$p.values
## [[8]]$borough$p.values$av_covid_none
##               manhattan staten island bronx brooklyn  queens
## manhattan            NA            NA    NA  0.00015 4.8e-06
## staten island        NA            NA    NA       NA      NA
## bronx                NA            NA    NA       NA      NA
## brooklyn        1.5e-04            NA    NA       NA      NA
## queens          4.8e-06            NA    NA       NA      NA
##
##
##
## [[8]]$gen
## [[8]]$gen$plot
```

Av_covid_none by Gen

Non–Binary — 28% 5/18

Transgender — 33% 2/6

Female — 36% 493/1371

Male — 42% 289/683

Prefer Not To Say — 57% 12/21

0%   25%   50%   75%   100%

*Categories with less than 5 responses excluded: 'other'

```
## 
## [[8]]$gen$p.values
## [[8]]$gen$p.values$av_covid_none
##                 non-binary transgender female  male prefer not to say
## non-binary              NA          NA     NA    NA                NA
## transgender             NA          NA     NA    NA                NA
## female                  NA          NA     NA 0.006                NA
## male                    NA          NA  0.006    NA                NA
## prefer not to say       NA          NA     NA    NA                NA
## 
## 
## 
## [[8]]$race_census
## NULL
## 
## [[8]]$hh_ch_0_17_bi
## NULL
## 
## [[8]]$hh_sn_65_bi
## NULL
## 
## [[8]]$inc_dist
## NULL
```