poa_access_gov

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7.1)People who had difficulty accessing social services or benefits [21]

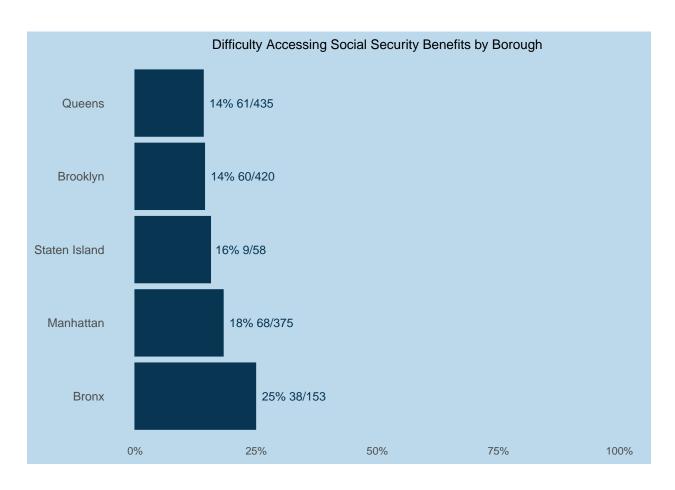
- 1. Run distribution over population
- 2. Run distribution by sub-demographics (a-k)
- a. Compare and find gaps (test unequal proportions)

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

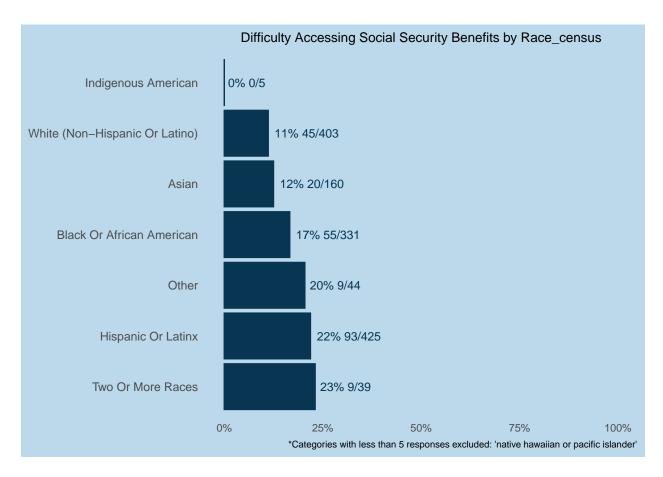
## [1] 0.1637752

make_plots(wrangled, demographics, "diff_ss", title = "Difficulty accessing Social security benefits")

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

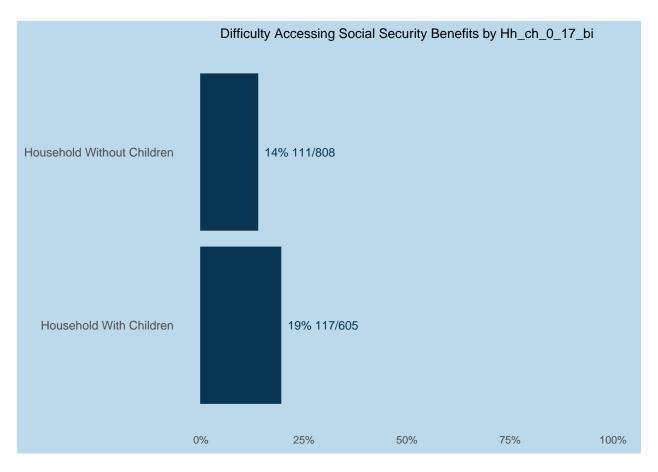


```
##
## $borough$p.values
## $borough$p.values$diff_ss
                 queens brooklyn staten island manhattan bronx
                                                      NA 0.0032
## queens
                    NA
                              NA
                                            NA
## brooklyn
                     NA
                              NA
                                            NA
                                                      NA 0.0045
## staten island
                              NA
                                            NA
                    NA
                                                      NA
                                                             NA
## manhattan
                    NA
                              NA
                                            NA
                                                      NA
                                                             NA
## bronx
                 0.0032
                         0.0045
                                            NA
                                                      NA
                                                             NA
##
##
##
## $gen
## NULL
##
## $race_census
## $race_census$plot
```

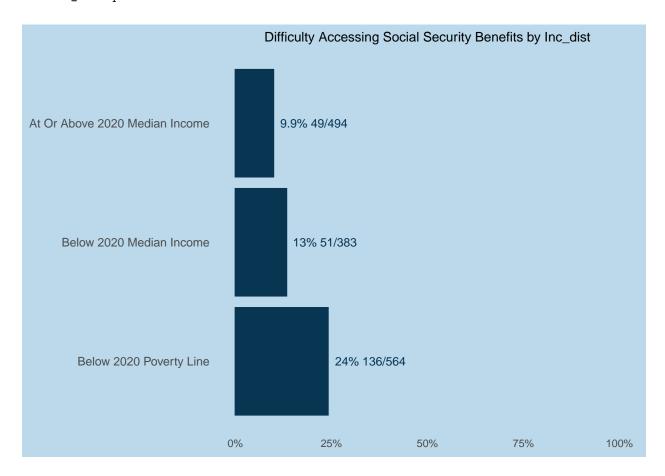


```
##
## $race_census$p.values
## $race_census$p.values$diff_ss
                                   Indigenous American
## Indigenous American
                                                    NA
## white (non-hispanic or latino)
                                                    NA
## asian
                                                    NA
## black or african american
                                                    NA
## other
                                                    NA
## hispanic or latinx
                                                    NA
## two or more races
                                                    NA
                                   white (non-hispanic or latino) asian
##
## Indigenous American
                                                                NA
## white (non-hispanic or latino)
                                                                NA
                                                                      NA
## asian
                                                                NA
                                                                      NA
## black or african american
                                                                NA
                                                                      NA
## other
                                                                NA
                                                                      NA
                                                           5.3e-05
## hispanic or latinx
                                                                      NA
## two or more races
                                   black or african american other
## Indigenous American
## white (non-hispanic or latino)
                                                          NA
                                                                 NA
## asian
                                                          NA
                                                                 NA
## black or african american
                                                          NA
                                                                 NA
## other
                                                                 NA
## hispanic or latinx
                                                           NA
                                                                 NA
```

```
## two or more races
                                                         NA
##
                                  hispanic or latinx two or more races
## Indigenous American
                                                  NA
## white (non-hispanic or latino)
                                             5.3e-05
                                                                     NA
## asian
                                                                     NA
## black or african american
                                                  NA
                                                                     NA
## other
                                                  NA
                                                                     NA
## hispanic or latinx
## two or more races
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```



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



```
## $inc_dist$p.values
## $inc_dist$p.values$diff_ss
                                  at or above 2020 median income
## at or above 2020 median income
## below 2020 median income
                                                               NA
## below 2020 poverty line
                                                          2.2e-09
                                  below 2020 median income below 2020 poverty line
## at or above 2020 median income
                                                         NA
                                                                             2.2e-09
## below 2020 median income
                                                                             6.0e-05
                                                         NA
## below 2020 poverty line
                                                      6e-05
                                                                                  NA
```

7.2) Households with children in public schools are more likely to give higher ratings to neighborhood public schools [32, 26]

- 1. Run binary distribution for overall rating of neighborhood schools Not Poor=Excellent, Good Poor=Fair, Poor
- 2. Find subset of population which are hhs with children in each binary category

a. Compare the strength of the subset with non-hhs with children in each subset

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

## [1] 3.081301

mean(wrangled$rate_neigh_pub_good, na.rm = TRUE)

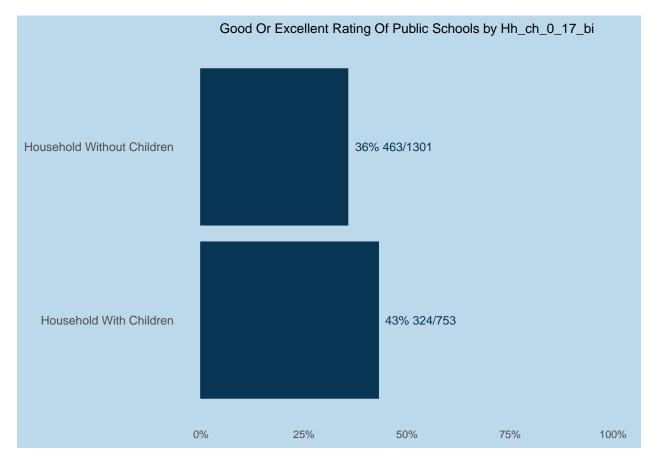
## [1] 0.3797226

mean(wrangled$rate_neigh_pub_bad, na.rm = TRUE)

## [1] 0.3438546

make_plots(wrangled, "hh_ch_0_17_bi", "rate_neigh_pub_good", title = "Good or Excellent Rating of Publi"

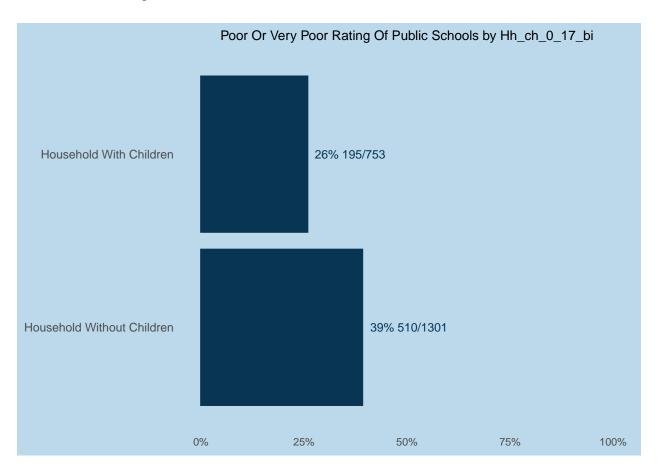
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```



```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$rate_neigh_pub_good
## household without children household with children
## household without children NA 0.00098
## household with children 0.00098 NA
```

make_plots(wrangled, "hh_ch_0_17_bi", "rate_neigh_pub_bad", title = "Poor or Very Poor Rating of Public

```
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```



7.3) Attitude towards Police Responsiveness

- 1. Run binary distribution over the overall rating of Police responsiveness (as described in 7.3)
- 2. Run distribution by sub-demographics

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

[1] 3.155906

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

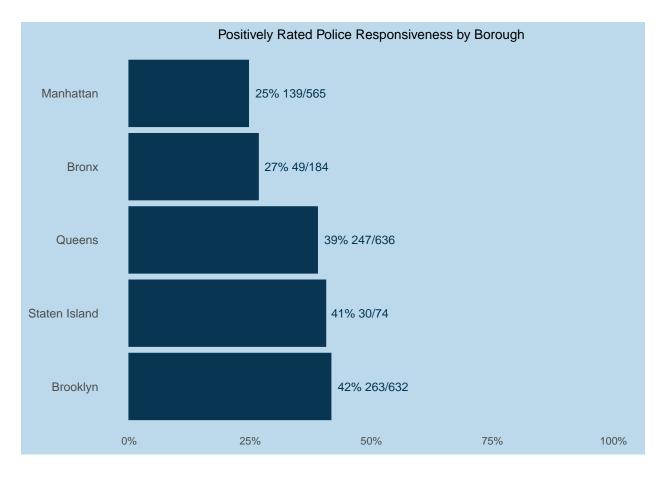
## [1] 0.3481588

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

[1] 0.3988522

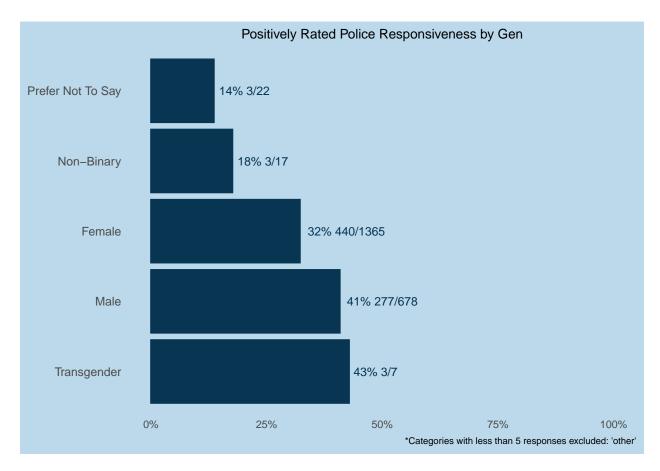
make_plots(wrangled, demographics, "rate_neigh_pol_good", title = "Positively Rated Police Responsivene

- ## \$borough
- ## \$borough\$plot



##											
##	<pre>\$borough\$p.values</pre>										
##	<pre>\$borough\$p.values\$rate_neigh_pol_good</pre>										
##		${\tt manhattan}$	bronx	queens	${\tt staten}$	island	brooklyn				
##	manhattan	NA	NA	1.9e-07		0.0054	7.3e-10				
##	bronx	NA	NA	3.2e-03		NA	3.2e-04				
##	queens	1.9e-07	0.00320	NA		NA	NA				
##	staten island	5.4e-03	NA	NA		NA	NA				
##	brooklyn	7.3e-10	0.00032	NA		NA	NA				

```
##
##
## $gen
## $gen$plot
```

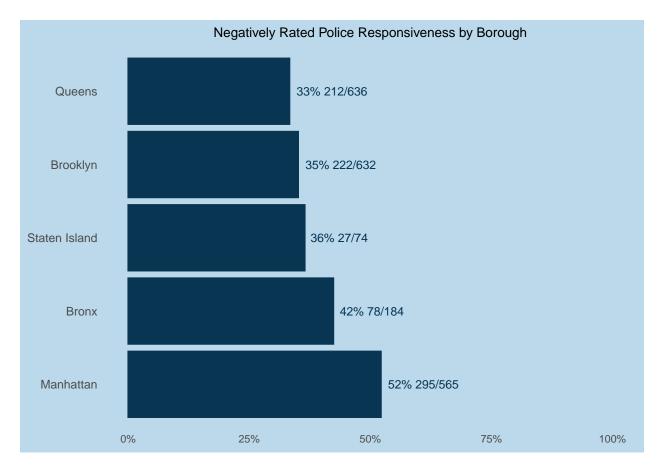


```
##
## $gen$p.values
## $gen$p.values$rate_neigh_pol_good
                     prefer not to say non-binary female
                                                               male transgender
## prefer not to say
                                     NA
                                                NA
                                                        NA
                                                                 NA
                                                                             NA
## non-binary
                                     NA
                                                NA
                                                        NA
                                                                 NA
                                                                             NA
## female
                                     NA
                                                NA
                                                        NA 0.00015
                                                                             NA
## male
                                     NA
                                                NA 0.00015
                                                                 NA
                                                                             NA
## transgender
                                     NA
                                                NA
                                                        NA
                                                                 NA
                                                                             NA
##
##
##
## $race_census
## NULL
## $hh_ch_0_17_bi
## NULL
##
## $hh_sn_65_bi
```

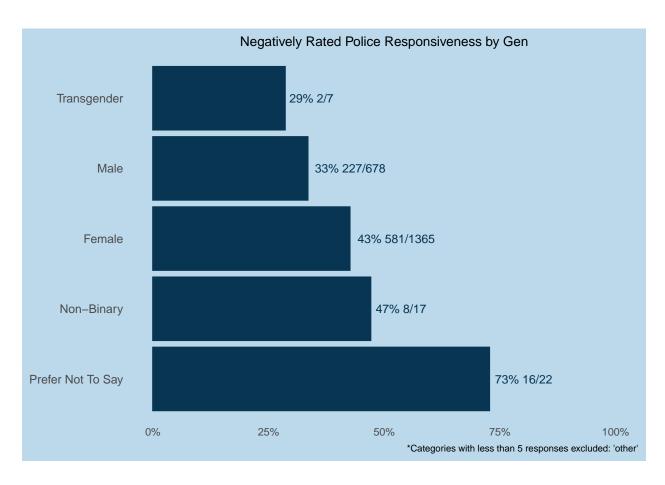
```
## NULL
##
## $inc_dist
## NULL
```

make_plots(wrangled, demographics, "rate_neigh_pol_bad", title = "Negatively Rated Police Responsivenes

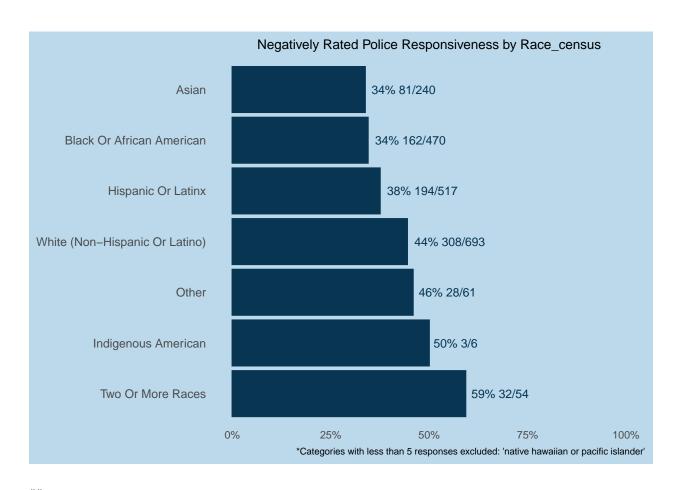
\$borough
\$borough\$plot



```
##
## $borough$p.values
## $borough$p.values$rate_neigh_pol_bad
##
                 queens brooklyn staten island bronx manhattan
## queens
                                                      5.6e-11
                              NA
                                           NA
                                                 NA
## brooklyn
                     NA
                              NA
                                           NA
                                               NA
                                                      3.7e-09
## staten island
                     NA
                              NA
                                           NA
                                                 NA
                                                           NA
## bronx
                              NA
                                           NA
                                                 NA
                                                           NA
                     NA
## manhattan 5.6e-11 3.7e-09
                                           NA
                                                 NA
                                                           NA
##
##
##
## $gen
## $gen$plot
```

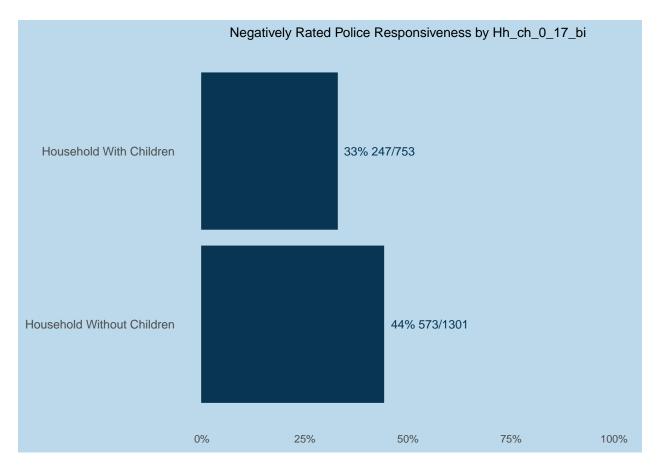


```
##
## $gen$p.values
## $gen$p.values$rate_neigh_pol_bad
                    transgender
                                   male female non-binary prefer not to say
## transgender
                             NA
                                     NA
                                            NA
                                                       NA
                                                                         NA
                                     NA 9.4e-05
                                                       NA
                                                                    0.00035
## male
                             NA
                                                                    0.00890
## female
                             NA 9.4e-05
                                            NA
                                                       NA
## non-binary
                            NA
                                     NA
                                                       NA
                                                                         NA
## prefer not to say
                             NA 3.5e-04 8.9e-03
                                                       NA
                                                                         NA
##
##
##
## $race_census
## $race_census$plot
```



```
##
## $race_census$p.values
## $race_census$p.values$rate_neigh_pol_bad
                                     asian black or african american
## asian
                                        NA
                                                                   NA
## black or african american
                                        NA
                                                                   NA
## hispanic or latinx
                                        NA
                                                                   NA
## white (non-hispanic or latino) 0.00480
                                                             0.00083
## other
                                                                   NA
## Indigenous American
                                        NA
                                                                   NA
## two or more races
                                   0.00088
                                                             0.00062
                                   hispanic or latinx
## asian
## black or african american
                                                   NA
## hispanic or latinx
                                                   NA
## white (non-hispanic or latino)
                                                   NA
## other
                                                   NA
## Indigenous American
                                                   NA
## two or more races
                                               0.0031
##
                                  white (non-hispanic or latino) other
                                                          0.00480
## asian
                                                          0.00083
## black or african american
                                                                      NA
## hispanic or latinx
                                                                      NA
## white (non-hispanic or latino)
                                                                NA
                                                                      NA
## other
                                                                NA
                                                                      NA
## Indigenous American
                                                                NA
                                                                      NA
```

```
## two or more races
                                                              NA
##
                                  Indigenous American two or more races
                                                                0.00088
## asian
                                                   NA
## black or african american
                                                   NA
                                                                0.00062
                                                                0.00310
## hispanic or latinx
                                                   NA
## white (non-hispanic or latino)
                                                   NA
                                                                     NA
## Indigenous American
                                                   NA
## two or more races
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

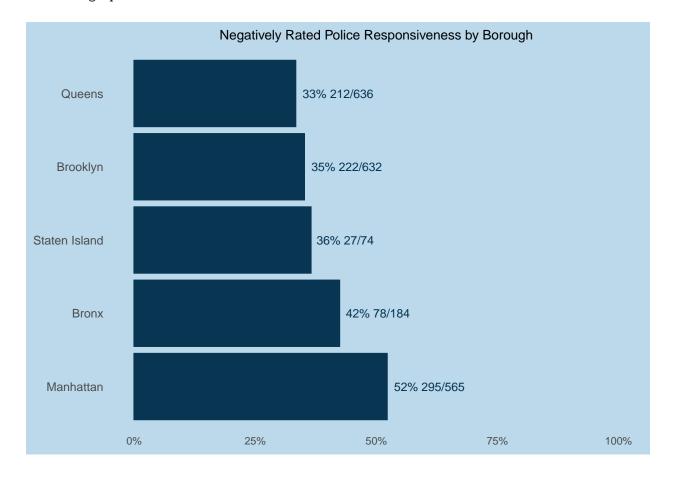


```
## NULL
##
## $inc_dist
## NULL
```

7.4)Respondents from the Bronx (high crime rate as compared to to other boroughs) are more likely to rate Police Responsiveness as poor [32, 2]

- 1. Run binary distribution for overall rating of Police responsiveness (as described in 7.2)
- 2. Find subset of population who are from Bronx in both the category responsenses
- a. Compare and contrast the responses between the Bronx and on-Bronx population

\$borough
\$borough\$plot



##

\$borough\$p.values

```
## $borough$p.values$rate_neigh_pol_bad
##
                  queens brooklyn staten island bronx manhattan
## queens
                      NA
                               NA
## brooklyn
                      NA
                                                   NA
                                                        3.7e-09
                               NA
                                             NA
## staten island
                      NA
                               NA
                                             NA
                                                   NA
                                                             NA
## bronx
                      NA
                               NA
                                             NA
                                                   NA
                                                             NA
## manhattan
                 5.6e-11 3.7e-09
                                                             NA
```

7.5)Respondents from low income brackets (at or below median income) are more likely to rate neighbourhood safety poorly

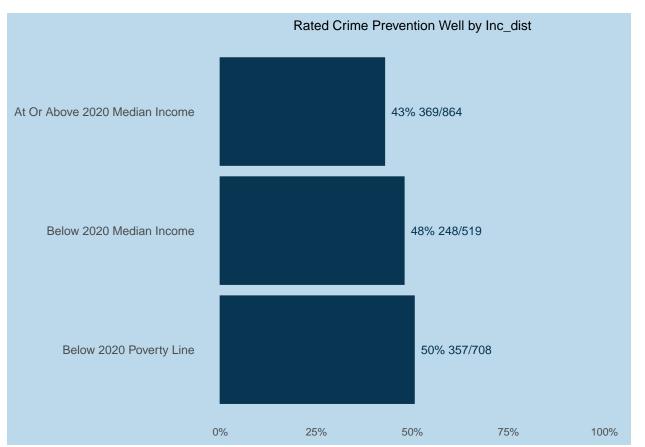
- 3. Run binary distribution for overall rating of Police responsiveness (as described in 7.3)
- 4. Find subset of population who are from above median income in both the category responsenses
- b. Compare and contrast the responses between high and low income population

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

## [1] 3.27164

make_plots(wrangled, "inc_dist", "rate_neigh_pre_bad", title = "Rated Crime Prevention Well")

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

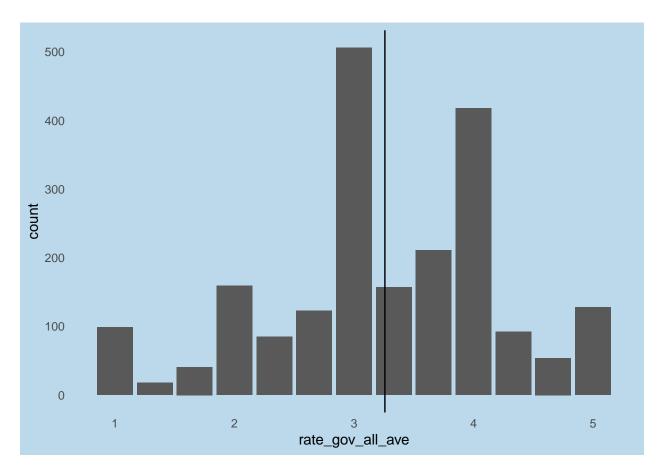


```
##
## $inc_dist$p.values
## $inc_dist$p.values$rate_neigh_pre_bad
##
                                  at or above 2020 median income
## at or above 2020 median income
## below 2020 median income
                                                               NA
## below 2020 poverty line
                                                           0.0027
                                  below 2020 median income below 2020 poverty line
## at or above 2020 median income
                                                         NA
                                                                              0.0027
## below 2020 median income
                                                         NA
                                                                                  NA
## below 2020 poverty line
                                                         NA
                                                                                  NA
make_plots(wrangled, "inc_dist", "rate_neigh_pre_good", title = "Rated Crime Prevention Poorly")
## $inc_dist
## NULL
```

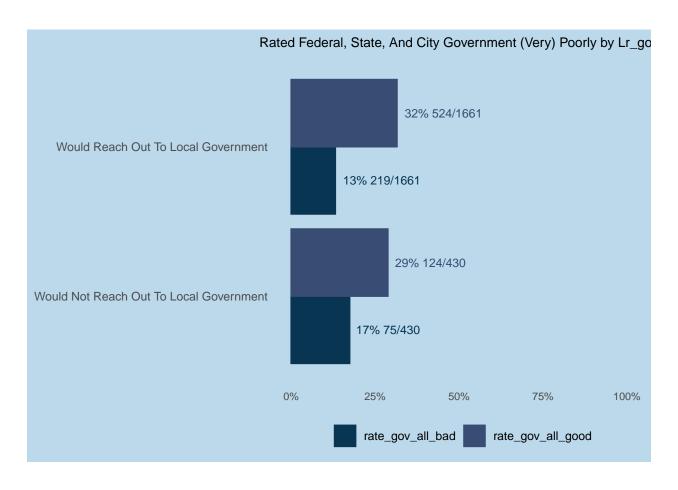
7.6) People who rated city/state/federal government response to the pandemic well were more likely to indicate they would turn to the government if they needed help

- 1. Find respondents who rated city/state/federal government response as good or excellent [31]
- a. Find proportion of subset who indicated they would use the government for at least one need [33]
- b. Find proportion not in subset who indicated they would use the government for at least one need and compare (test unequal proportions)

```
prop_rate_above_ave <- mean(wrangled$rate_gov_all_ave, na.rm = TRUE)
mean_val <- mean(6 - wrangled %>% select(rate_gov_fed, rate_gov_sta, rate_gov_cit) %>% unlist, na.rm = wrangled %>% ggplot(aes(x = rate_gov_all_ave)) + geom_bar() + geom_vline(xintercept = mean_val)
```



\$lr_gov
\$lr_gov\$plot



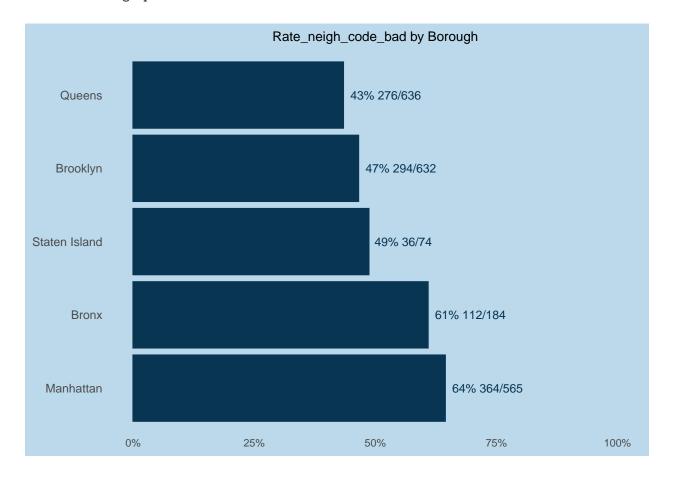
```
##
## $lr_gov$p.values
## $lr_gov$p.values$rate_gov_all_bad
                                            would reach out to local government
## would reach out to local government
                                                                             NA
## would not reach out to local government
##
                                           would not reach out to local government
## would reach out to local government
                                                                                 NA
## would not reach out to local government
                                                                                 NA
##
## $lr_gov$p.values$rate_gov_all_good
                                           would not reach out to local government
## would not reach out to local government
## would reach out to local government
                                                                                 NA
                                            would reach out to local government
## would not reach out to local government
                                                                             NA
## would reach out to local government
                                                                             NA
```

7.7) Run distribution over the rating of each neighborhood service

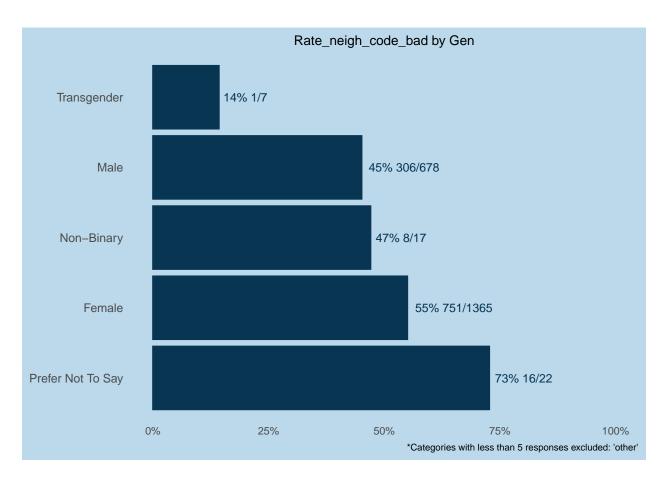
1. Run binary distribution for overall rating of all neighborhood services as done for police responsiveness in 7.2

```
rate_neigh <- select(wrangled, starts_with("rate_neigh") & (ends_with("good") | ends_with("bad"))) %>%
lapply(rate_neigh, function(item) {
   make_plots(wrangled, demographics, item, title = item)
})
```

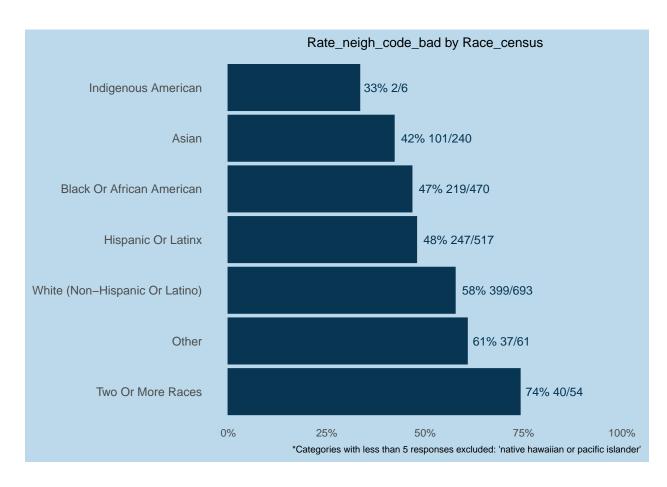
```
## [[1]] $borough
## [[1]] $borough $plot
```



```
##
## [[1]]$borough$p.values
## [[1]]$borough$p.values$rate_neigh_code_bad
                 queens brooklyn staten island
##
                                                 bronx manhattan
                     NA
                              NA
                                           NA 4.2e-05
                                                        4.7e-13
## queens
                                           NA 8.3e-04
                                                        7.4e-10
                     NA
                              NA
## brooklyn
## staten island
                     NA
                              NA
                                            NA
                                                    NA
                                                             NA
## bronx
         4.2e-05 8.3e-04
                                            NA
                                                    NA
                                                             NA
## manhattan
                4.7e-13 7.4e-10
                                            NA
                                                    NA
                                                             NA
##
##
##
## [[1]]$gen
## [[1]]$gen$plot
```

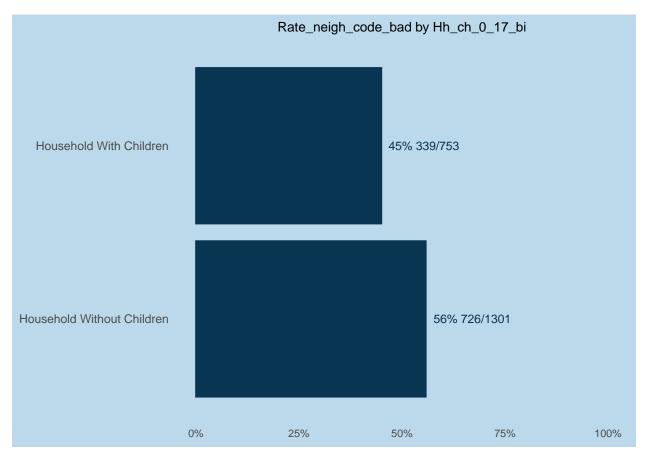


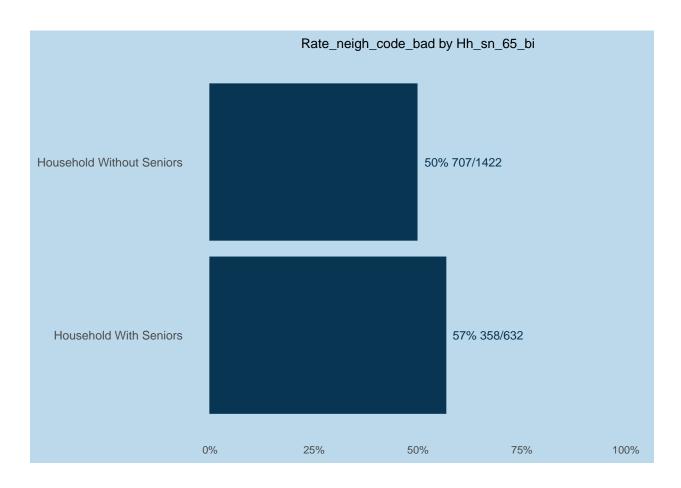
```
##
## [[1]]$gen$p.values
## [[1]]$gen$p.values$rate_neigh_code_bad
                     transgender
                                    male non-binary female prefer not to say
## transgender
                              NA
                                      NA
                                                 NA
                                                         NA
                                                                            NA
                                      NA
                                                 NA 3.1e-05
## male
                              NA
                                                                            NA
                              NA
## non-binary
                                      NA
                                                 NA
                                                         NA
                                                                            NA
## female
                              NA 3.1e-05
                                                 NA
                                                         NA
                                                                            NA
## prefer not to say
                              NA
                                      NA
                                                 NA
                                                         NA
                                                                            NA
##
##
##
## [[1]]$race_census
## [[1]]$race_census$plot
```

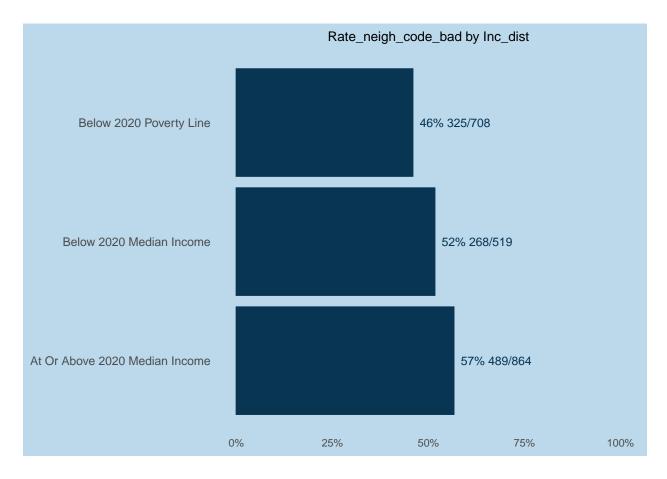


```
##
## [[1]]$race_census$p.values
## [[1]]$race_census$p.values$rate_neigh_code_bad
                                   Indigenous American
                                                         asian
## Indigenous American
                                                    NA
                                                            NA
## asian
                                                    NA
                                                            NA
## black or african american
                                                            NA
                                                    NA
## hispanic or latinx
                                                            NA
## white (non-hispanic or latino)
                                                    NA 4.6e-05
## other
## two or more races
                                                    NA 4.1e-05
                                   black or african american hispanic or latinx
##
## Indigenous American
                                                          NA
## asian
                                                                              NA
## black or african american
                                                          NA
                                                                              NA
## hispanic or latinx
                                                          NA
                                                                              NA
## white (non-hispanic or latino)
                                                     0.00029
                                                                         0.00089
## other
                                                          NA
                                                                              NA
## two or more races
                                                     0.00023
                                                                         0.00041
##
                                   white (non-hispanic or latino) other
## Indigenous American
                                                               NA
## asian
                                                          4.6e-05
                                                                     NΑ
## black or african american
                                                          2.9e-04
                                                                     NA
## hispanic or latinx
                                                          8.9e-04
                                                                     NA
## white (non-hispanic or latino)
                                                               NA
                                                                     NA
## other
                                                               NA
                                                                     NA
```

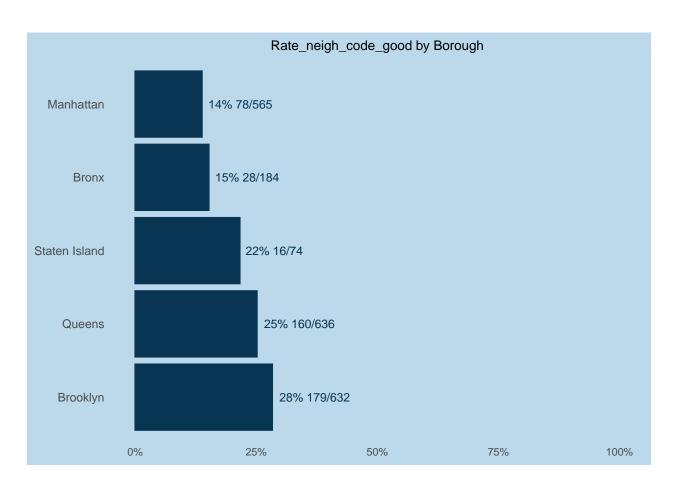
```
## two or more races
                                                               NA
                                                                     NA
##
                                  two or more races
## Indigenous American
## asian
                                            4.1e-05
                                            2.3e-04
## black or african american
## hispanic or latinx
                                            4.1e-04
## white (non-hispanic or latino)
## other
                                                 NA
## two or more races
                                                 NA
##
##
##
## [[1]]$hh_ch_0_17_bi
## [[1]]$hh_ch_0_17_bi$plot
```



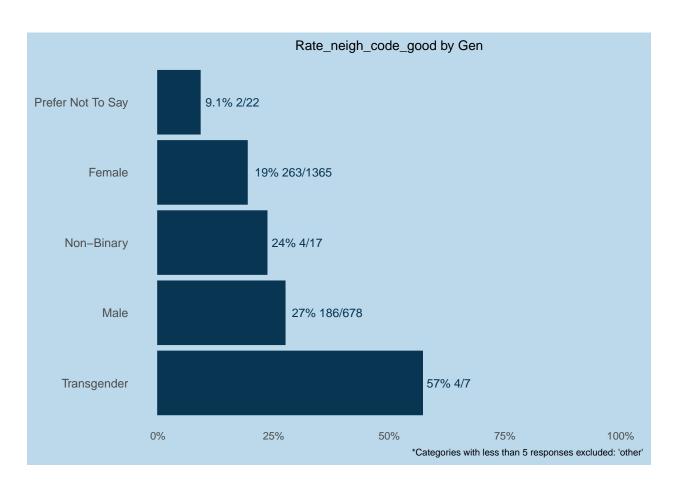




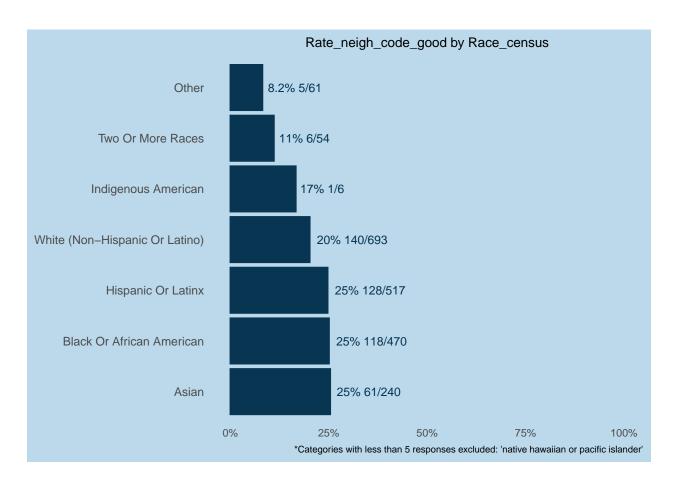
```
##
## [[1]]$inc_dist$p.values
## [[1]]$inc_dist$p.values$rate_neigh_code_bad
                                  below 2020 poverty line below 2020 median income
## below 2020 poverty line
                                                        NA
                                                                                 NA
## below 2020 median income
                                                        NA
                                                                                 NA
## at or above 2020 median income
                                                     3e-05
                                                                                 NA
                                  at or above 2020 median income
## below 2020 poverty line
                                                            3e-05
## below 2020 median income
                                                               NA
## at or above 2020 median income
                                                               NA
##
##
##
##
## [[2]]
## [[2]]$borough
## [[2]]$borough$plot
```



```
##
## [[2]]$borough$p.values
## [[2]]$borough$p.values$rate_neigh_code_good
                manhattan bronx staten island queens brooklyn
                       NA
                               NA
                                            NA 1.2e-06 1.6e-09
## manhattan
## bronx
                       NA
                               NA
                                            NA 6.4e-03 4.7e-04
## staten island
                       NA
                               NA
                                            NA
                                                    NA
                                                             NA
                 1.2e-06 0.00640
## queens
                                             NA
                                                    NA
                                                             NA
## brooklyn
                 1.6e-09 0.00047
                                             NA
                                                    NA
                                                             NA
##
##
## [[2]]$gen
## [[2]]$gen$plot
```

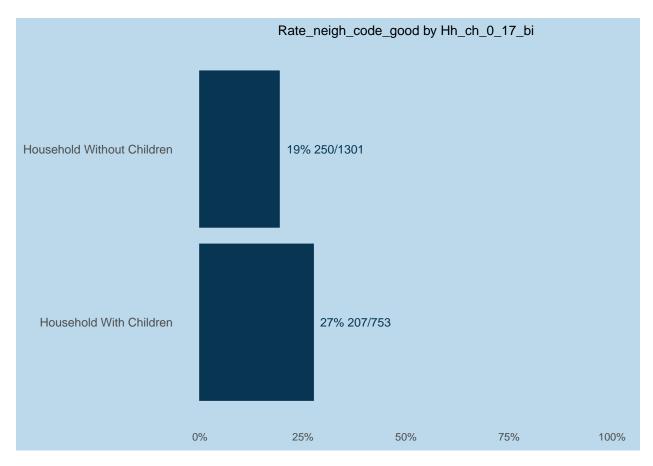


```
##
## [[2]]$gen$p.values
## [[2]]$gen$p.values$rate_neigh_code_good
                     prefer not to say female non-binary
                                                              male transgender
## prefer not to say
                                    NA
                                            NA
                                                       NA
                                                                NA
                                                                            NA
## female
                                            NA
                                                        NA 3.5e-05
                                                                            NA
                                    NA
                                                       NA
                                                                            NA
## non-binary
                                    NA
                                            NA
                                                                NA
## male
                                    NA 3.5e-05
                                                        NA
                                                                NA
                                                                            NA
## transgender
                                    NA
                                            NA
                                                        NA
                                                                NA
                                                                            NA
##
##
##
## [[2]]$race_census
## [[2]]$race_census$plot
```

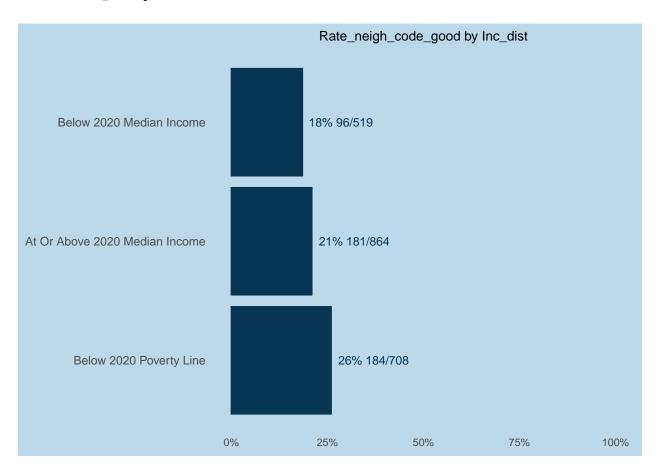


##									
##	[[2]]\$race_census\$p.values								
##	[[2]]\$race_census\$p.values\$rate_neigh_code_good								
##		other	two	or	${\tt more}$	races	Indi	genous	American
##	other	NA				NA			NA
##	two or more races	NA				NA			NA
##	Indigenous American	NA				NA			NA
##	white (non-hispanic or latino)	NA				NA			NA
##	hispanic or latinx	0.0060				NA			NA
##	black or african american	0.0054				NA			NA
##	asian	0.0063				NA			NA
##		white (non-hispanic or latino)							
##	other						N	ΙA	
##	two or more races						N	ΙA	
##	Indigenous American						N	ΙA	
##	white (non-hispanic or latino)						N	ΙA	
##	hispanic or latinx						N	ΙA	
##	black or african american						N	ΙA	
##	asian						N	ΙA	
##		hispani	ic or	: la	atinx	black	or a	frican	american
##	other			(0.006				0.0054
##	two or more races				NA				NA
##	Indigenous American				NA				NA
##	white (non-hispanic or latino)				NA				NA
##	hispanic or latinx				NA				NA
##	black or african american				NA				NA

```
## asian
                                                   NA
                                                                              NA
##
                                   asian
                                   0.0063
## other
## two or more races
                                      NA
## Indigenous American
## white (non-hispanic or latino)
## hispanic or latinx
## black or african american
                                      NA
## asian
##
##
##
## [[2]]$hh_ch_0_17_bi
## [[2]]$hh_ch_0_17_bi$plot
```

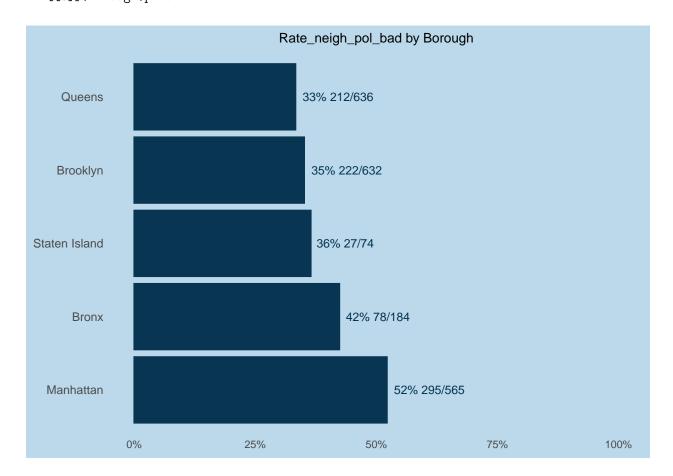


```
## NULL
##
## [[2]]$inc_dist
## [[2]]$inc_dist$plot
```

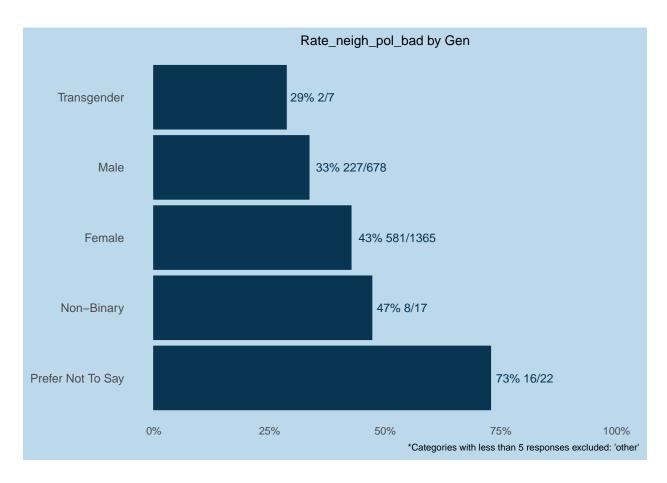


```
## [[2]]$inc_dist$p.values
## [[2]]$inc_dist$p.values$rate_neigh_code_good
                                  below 2020 median income
## below 2020 median income
## at or above 2020 median income
                                                         NA
## below 2020 poverty line
                                                     0.0025
##
                                  at or above 2020 median income
## below 2020 median income
## at or above 2020 median income
                                                               NA
## below 2020 poverty line
                                                               NA
##
                                  below 2020 poverty line
## below 2020 median income
                                                    0.0025
## at or above 2020 median income
                                                        NA
## below 2020 poverty line
                                                        NA
##
##
##
## [[3]]
```

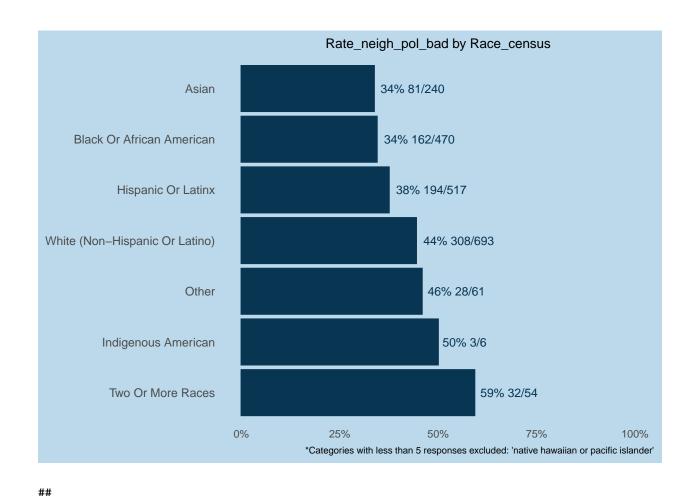
[[3]]\$borough ## [[3]]\$borough\$plot



## ##	[[3]]\$borough\$	Sp.values	3						
##	[[3]]\$borough\$p.values\$rate_neigh_pol_bad								
##		queens	brooklyn	staten	island	${\tt bronx}$	manhattan		
##	queens	NA	NA		NA	NA	5.6e-11		
##	brooklyn	NA	NA		NA	NA	3.7e-09		
##	${\tt staten \ island}$	NA	NA		NA	NA	NA		
##	bronx	NA	NA		NA	NA	NA		
##	manhattan	5.6e-11	3.7e-09		NA	NA	NA		
##									
##									
##									
##	[[3]]\$gen								
##	[[3]]\$gen\$plot								

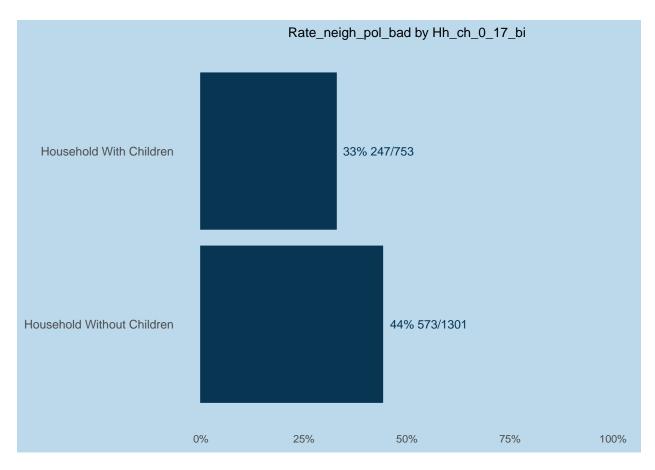


```
##
## [[3]]$gen$p.values
## [[3]]$gen$p.values$rate_neigh_pol_bad
                    transgender male female non-binary prefer not to say
## transgender
                             NA
                                    NA
                                            NA
                                                       NA
                                                                         NA
                                     NA 9.4e-05
                                                       NA
                                                                    0.00035
## male
                             NA
                                                                    0.00890
## female
                             NA 9.4e-05
                                            NA
                                                       NA
## non-binary
                            NA
                                     NA
                                                       NA
                                                                         NA
## prefer not to say
                             NA 3.5e-04 8.9e-03
                                                       NA
                                                                         NA
##
##
## [[3]]$race_census
## [[3]]$race_census$plot
```

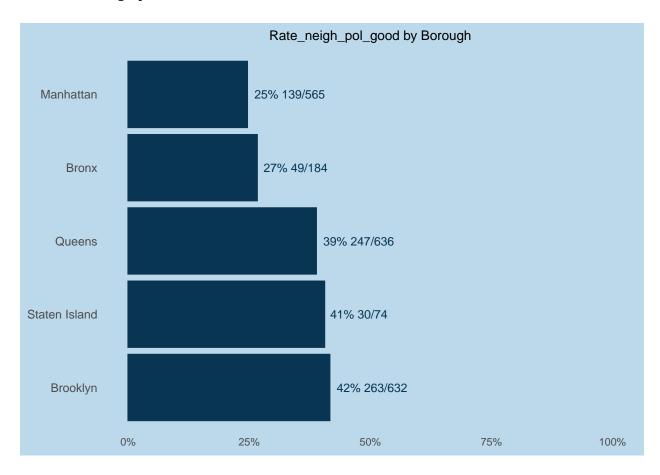


```
## [[3]]$race_census$p.values
## [[3]]$race_census$p.values$rate_neigh_pol_bad
                                     asian black or african american
## asian
                                        NA
                                                                   NA
## black or african american
                                        NA
                                                                   NA
## hispanic or latinx
                                        NA
                                                                  NA
## white (non-hispanic or latino) 0.00480
                                                             0.00083
## other
                                                                   NA
## Indigenous American
                                        NA
                                                                  NA
                                   0.00088
## two or more races
                                                             0.00062
                                   hispanic or latinx
## asian
## black or african american
                                                   NA
## hispanic or latinx
                                                   NA
## white (non-hispanic or latino)
                                                   NA
## other
                                                   NA
## Indigenous American
                                                   NA
## two or more races
                                               0.0031
##
                                  white (non-hispanic or latino) other
                                                          0.00480
## asian
                                                          0.00083
## black or african american
                                                                      NA
## hispanic or latinx
                                                                      NA
## white (non-hispanic or latino)
                                                               NA
                                                                      NA
## other
                                                               NA
                                                                      NA
## Indigenous American
                                                               NA
                                                                      NA
```

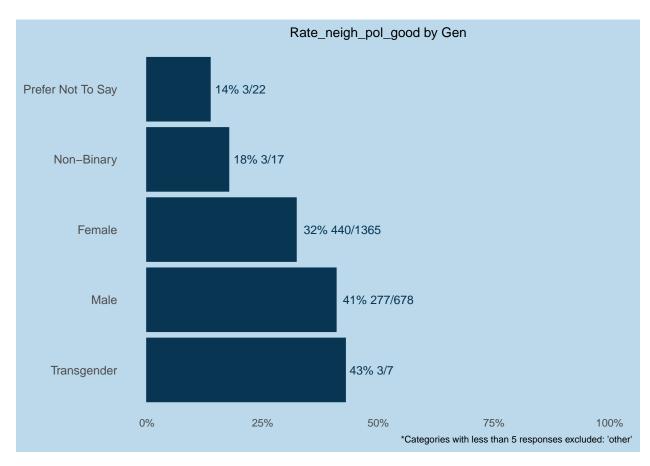
```
## two or more races
                                                              NA
##
                                  Indigenous American two or more races
## asian
                                                                0.00088
                                                   NA
## black or african american
                                                   NA
                                                                0.00062
                                                                0.00310
## hispanic or latinx
                                                   NA
## white (non-hispanic or latino)
                                                   NA
                                                                     NA
## Indigenous American
                                                   NA
## two or more races
##
##
##
## [[3]]$hh_ch_0_17_bi
## [[3]]$hh_ch_0_17_bi$plot
```



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



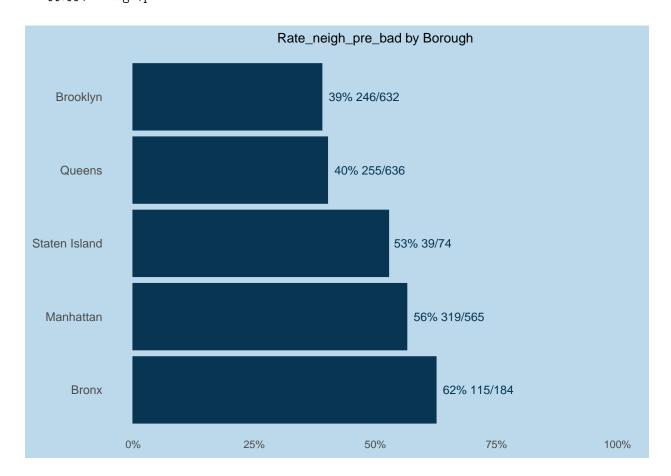
```
##
## [[4]]$borough$p.values
## [[4]]$borough$p.values$rate_neigh_pol_good
                manhattan bronx queens staten island brooklyn
## manhattan
                              NA 1.9e-07 0.0054 7.3e-10
                      NA
## bronx
                       NA
                              NA 3.2e-03
                                                   NA 3.2e-04
## queens
                 1.9e-07 0.00320
                                      NA
                                                   NA
                                                            NA
## staten island 5.4e-03
                                      NA
                                                   NA
                                                            NA
                              NA
## brooklyn
                 7.3e-10 0.00032
                                      NA
                                                   NA
                                                            NA
##
##
##
## [[4]]$gen
## [[4]]$gen$plot
```



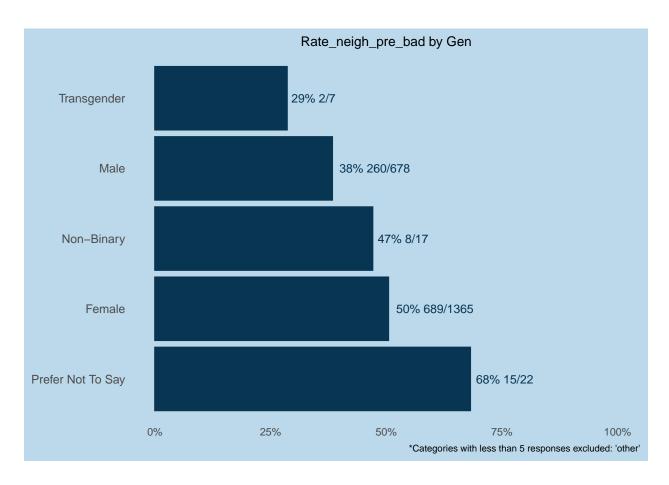
```
##
## [[4]]$gen$p.values
## [[4]]$gen$p.values$rate_neigh_pol_good
                     prefer not to say non-binary female
                                                              male transgender
## prefer not to say
                                     NA
                                                        NA
                                                                NA
                                                                             NA
                                                NA
## non-binary
                                                NA
                                                        NA
                                                                NA
                                                                             NA
                                     NA
## female
                                     NA
                                                NA
                                                        NA 0.00015
                                                                             NA
                                                NA 0.00015
## male
                                     NA
                                                                NA
                                                                             NA
## transgender
                                     NA
                                                NA
                                                        NA
                                                                NA
                                                                             NA
##
##
##
## [[4]]$race_census
## NULL
## [[4]]$hh_ch_0_17_bi
## NULL
##
## [[4]]$hh_sn_65_bi
## NULL
##
## [[4]]$inc_dist
## NULL
##
##
## [[5]]
```

[[5]]\$borough

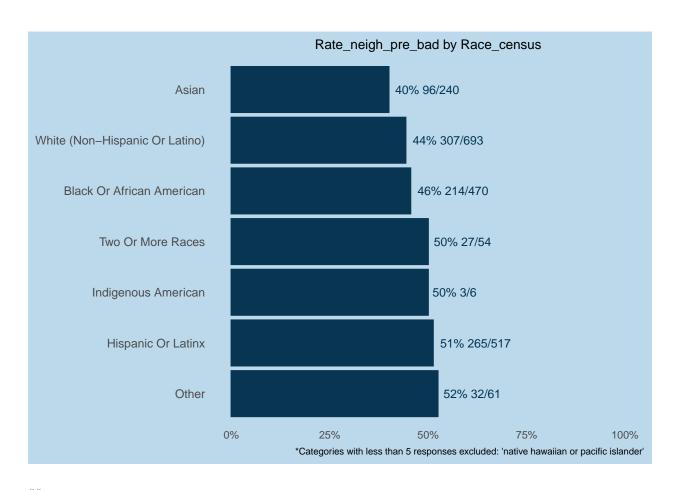
[[5]]\$borough\$plot



```
##
## [[5]]$borough$p.values
## [[5]]$borough$p.values$rate_neigh_pre_bad
                brooklyn queens staten island manhattan
##
                                                           bronx
                                                 1.9e-09 2.4e-08
## brooklyn
                      NA
                              NA
                                           NA
## queens
                      NA
                              NA
                                            NA
                                                  2.0e-08 1.2e-07
## staten island
                      NA
                              NA
                                            NA
                                                       NA
                                                               NA
                 1.9e-09 2.0e-08
                                            NA
                                                       NA
                                                               NA
## manhattan
## bronx
                 2.4e-08 1.2e-07
                                            NA
                                                       NA
                                                              NA
##
##
##
## [[5]]$gen
## [[5]]$gen$plot
```

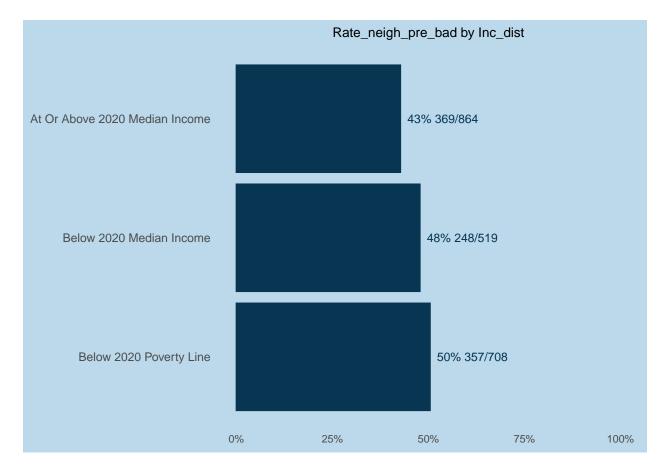


```
##
## [[5]]$gen$p.values
## [[5]]$gen$p.values$rate_neigh_pre_bad
                     transgender
                                  male non-binary female prefer not to say
## transgender
                             NA
                                      NA
                                                 NA
                                                         NA
                                                                           NA
                                      NA
                                                 NA 2.9e-07
                                                                       0.0094
## male
                             NA
                             NA
## non-binary
                                      NA
                                                 NA
                                                         NA
                                                                           NA
## female
                             NA 2.9e-07
                                                 NA
                                                         NA
                                                                           NA
## prefer not to say
                             NA 9.4e-03
                                                 NA
                                                         NA
                                                                           NA
##
##
##
## [[5]]$race_census
## [[5]]$race_census$plot
```



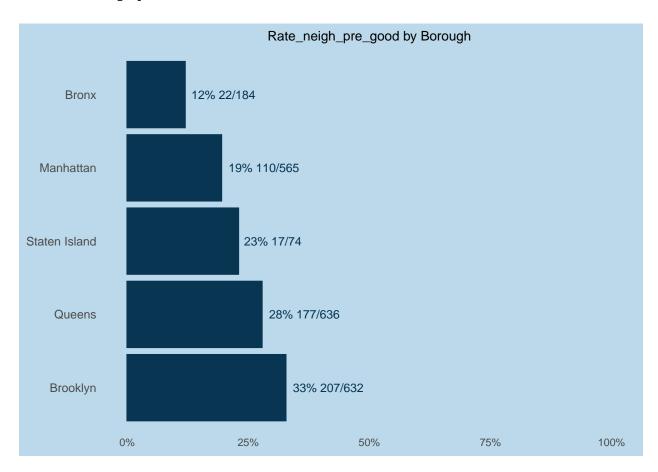
##										
##	[[5]]\$race_census\$p.values									
##	[[5]]\$race_census\$p.values\$rate	e_nei	gh.	_pre_b	oad					
##		asia	n 1	white	(non-	hispanic	or	latino)		
##	asian	N	Α					NA		
##	white (non-hispanic or latino)	N	Α					NA		
##	black or african american	N	Α					NA		
##	Indigenous American	N	Α					NA		
##	two or more races	N	Α					NA		
##	hispanic or latinx	0.00	5					NA		
##	other	N	Α					NA		
##		blac	k (or afı	rican	american	Ind	igenous	Ameri	can
##	asian					NA				NA
##	white (non-hispanic or latino)					NA				ΝA
##	black or african american					NA				ΝA
##	Indigenous American					NA				ΝA
##	two or more races					NA				ΝA
	hispanic or latinx					NA				NA
##	other					NA				NA
##		two	or	more	races	hispanio	c or		other	
	asian				NA			0.005	NA	
##	white (non-hispanic or latino)				NA			NA	NA	
##	black or african american				NA			NA	NA	
##	Indigenous American				NA			NA	NA	
##	two or more races				NA			NA	NA	
##	hispanic or latinx				NA			NA	NA	

```
## other
## other
##
##
##
##
## [[5]]$hh_ch_0_17_bi
## NULL
##
## [[5]]$hh_sn_65_bi
## NULL
##
## [[5]]$inc_dist
## [[5]]$inc_dist
## [[5]]$inc_dist$plot
```

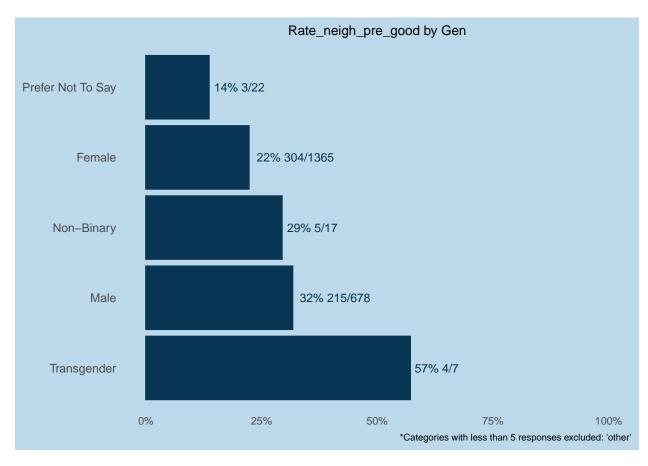


```
## [[5]]$inc_dist$p.values
## [[5]]$inc_dist$p.values$rate_neigh_pre_bad
##
                                  at or above 2020 median income
## at or above 2020 median income
                                                               NA
## below 2020 median income
                                                               NA
                                                           0.0027
## below 2020 poverty line
                                  below 2020 median income below 2020 poverty line
## at or above 2020 median income
                                                                             0.0027
                                                        NA
## below 2020 median income
                                                         NA
## below 2020 poverty line
                                                        NA
                                                                                 NA
##
```

```
##
##
##
[[6]]
## [[6]]$borough
## [[6]]$borough$plot
```

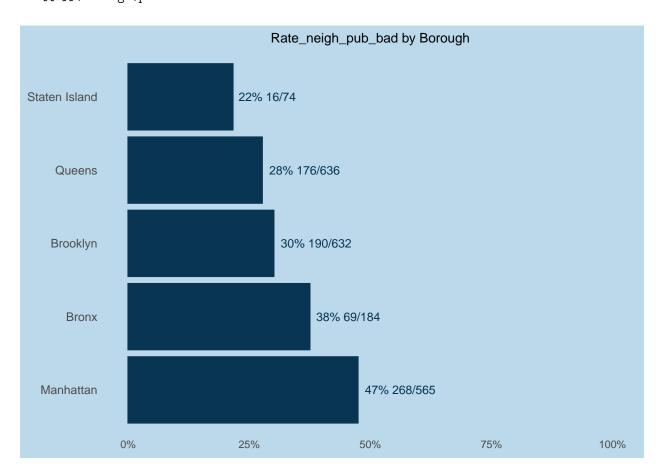


```
##
## [[6]]$borough$p.values
## [[6]]$borough$p.values$rate_neigh_pre_good
##
                 bronx manhattan staten island queens brooklyn
                                           NA 1.5e-05 5.6e-08
## bronx
                              NA
                                           NA 8.9e-04 2.8e-07
## manhattan
                    NA
                              NA
## staten island
                    NA
                              NA
                                           NA
                                                   NA
                                                           NA
## queens 1.5e-05 8.9e-04
                                           NA
                                                   NA
                                                           NA
## brooklyn 5.6e-08
                         2.8e-07
                                           NA
                                                   NA
                                                           NA
##
##
##
## [[6]]$gen
## [[6]]$gen$plot
```

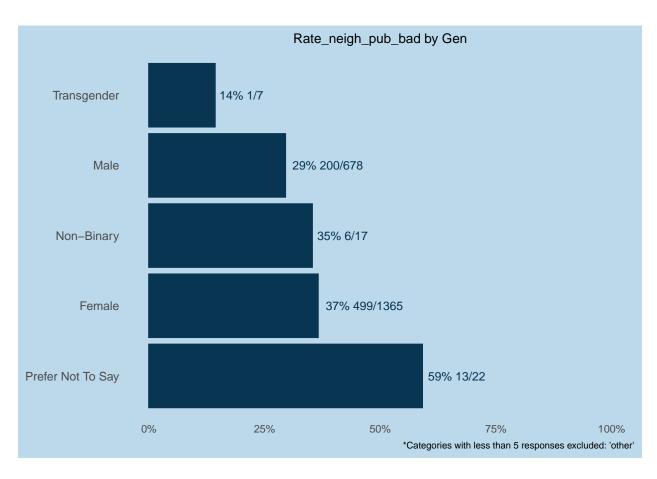


```
##
## [[6]]$gen$p.values
## [[6]]$gen$p.values$rate_neigh_pre_good
                     prefer not to say female non-binary
                                                              male transgender
## prefer not to say
                                     NA
                                             NA
                                                                NA
                                                                             NA
                                                        NA
## female
                                     NA
                                             NA
                                                        NA 5.1e-06
                                                                             NA
## non-binary
                                     NA
                                             NA
                                                        NA
                                                                NA
                                                                             NA
                                     NA 5.1e-06
## male
                                                        NA
                                                                NA
                                                                             NA
## transgender
                                     NA
                                             NA
                                                        NA
                                                                NA
                                                                             NA
##
##
##
## [[6]]$race_census
## NULL
## [[6]]$hh_ch_0_17_bi
## NULL
##
## [[6]]$hh_sn_65_bi
## NULL
##
## [[6]]$inc_dist
## NULL
##
##
## [[7]]
```

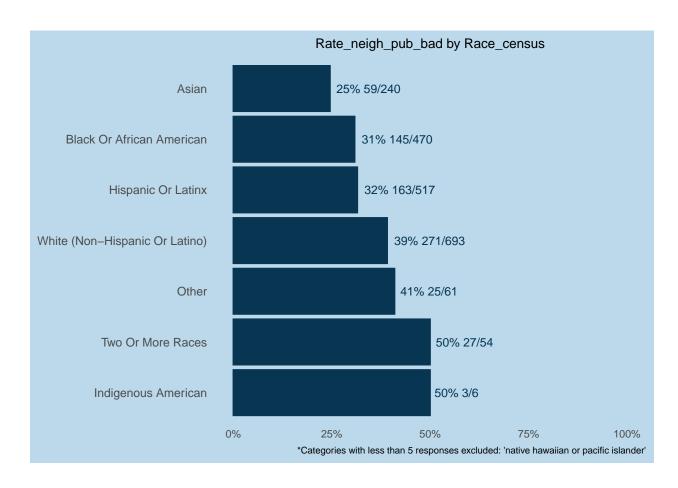
[[7]]\$borough ## [[7]]\$borough\$plot



	[[7]]\$borough\$] [[7]]\$borough\$]	-	_neigh_pı	ıb_bad		
##	:	staten island	queens	brooklyn	${\tt bronx}$	manhattan
##	staten island	NA	NA	NA	NA	4.6e-05
##	queens	NA	NA	NA	NA	2.2e-12
##	brooklyn	NA	NA	NA	NA	9.8e-10
##	bronx	NA	NA	NA	NA	NA
##	manhattan	4.6e-05	2.2e-12	9.8e-10	NA	NA
##						
##						
##						
##	[[7]]\$gen					
##	[[7]]\$gen\$plot					

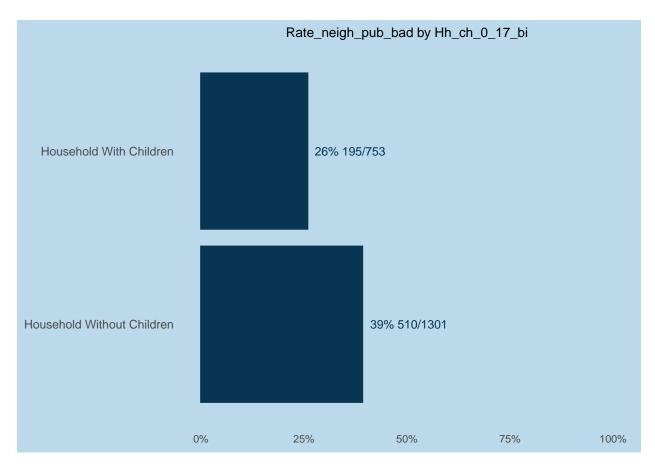


```
##
## [[7]]$gen$p.values
## [[7]]$gen$p.values$rate_neigh_pub_bad
                     transgender male non-binary female prefer not to say
                                     NA
## transgender
                              NA
                                                NA
                                                       NA
                                                                         NA
                              NA
                                     NA
                                                NA 0.0018
                                                                     0.0063
## male
                              NA
## non-binary
                                     NA
                                                NA
                                                       NA
                                                                         NA
                              NA 0.0018
## female
                                                NA
                                                       NA
                                                                         NA
## prefer not to say
                              NA 0.0063
                                                NA
                                                       NA
                                                                         NA
##
##
##
## [[7]]$race_census
## [[7]]$race_census$plot
```

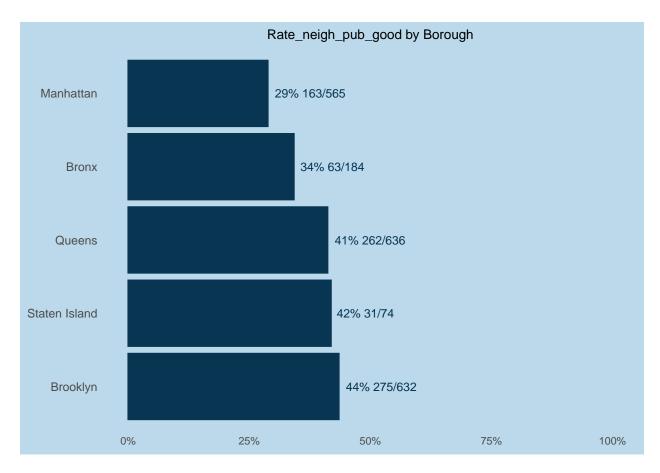


```
##
## [[7]]$race_census$p.values
## [[7]]$race_census$p.values$rate_neigh_pub_bad
                                     asian black or african american
## asian
                                        NA
                                                                   NA
## black or african american
                                        NA
                                                                   NA
## hispanic or latinx
                                        NA
                                                                  NA
## white (non-hispanic or latino) 0.00007
                                                              0.0048
## other
                                                                   NA
## Indigenous American
                                        NA
                                                                  NA
                                   0.00039
## two or more races
                                                              0.0073
##
                                   hispanic or latinx
## asian
                                                   NA
## black or african american
                                                   NA
## hispanic or latinx
                                                   NA
## white (non-hispanic or latino)
                                               0.0079
## other
                                                   NA
## Indigenous American
                                                   NA
## two or more races
                                               0.0096
##
                                  white (non-hispanic or latino) other
                                                          0.00007
## asian
## black or african american
                                                          0.00480
                                                                      NA
## hispanic or latinx
                                                          0.00790
                                                                      NA
## white (non-hispanic or latino)
                                                                      NA
                                                                NA
## other
                                                                NA
                                                                      NA
## Indigenous American
                                                                NA
                                                                      NA
```

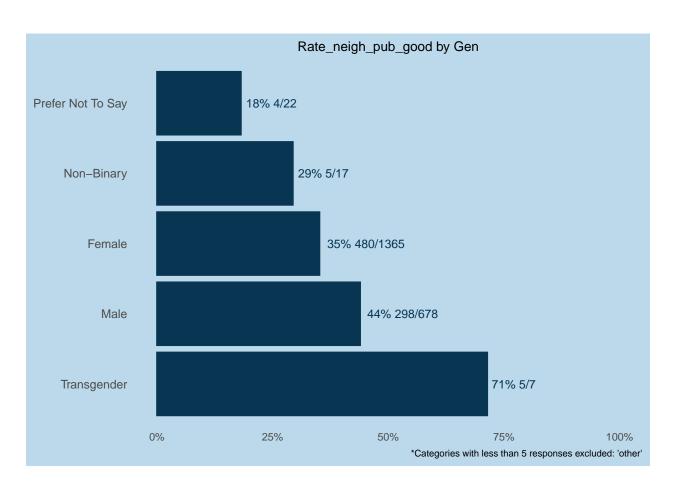
```
## two or more races
                                                               NA
##
                                  Indigenous American two or more races
## asian
                                                                0.00039
                                                   NA
## black or african american
                                                   NA
                                                                0.00730
                                                   NA
                                                                0.00960
## hispanic or latinx
## white (non-hispanic or latino)
                                                   NA
                                                                     NA
## Indigenous American
                                                                     NA
                                                   NA
## two or more races
##
##
##
## [[7]]$hh_ch_0_17_bi
## [[7]]$hh_ch_0_17_bi$plot
```



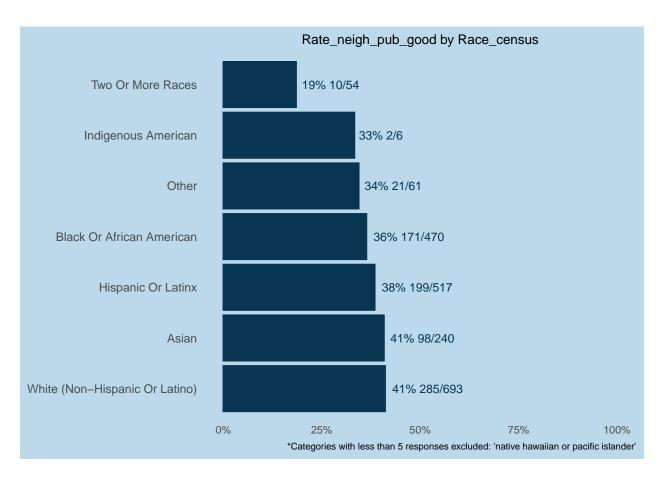
```
## NULL
##
## [[7]]$inc_dist
## NULL
##
## [[8]]
## [[8]]$borough
## [[8]]$borough$plot
```



```
##
## [[8]]$borough$p.values
## [[8]]$borough$p.values$rate_neigh_pub_good
                manhattan bronx queens staten island brooklyn
## manhattan
                            NA 1.1e-05
                                                        2e-07
                      NA
                                                  NA
## bronx
                       NA
                            NA
                                    NA
                                                  NA
                                                          NA
                                    NA
## queens
                  1.1e-05
                            NA
                                                  NA
                                                          NA
## staten island
                      NA
                            NA
                                    NA
                                                  NA
                                                          NA
## brooklyn 2.0e-07
                            NA
                                    NA
                                                  NA
                                                          NA
##
##
##
## [[8]]$gen
## [[8]]$gen$plot
```

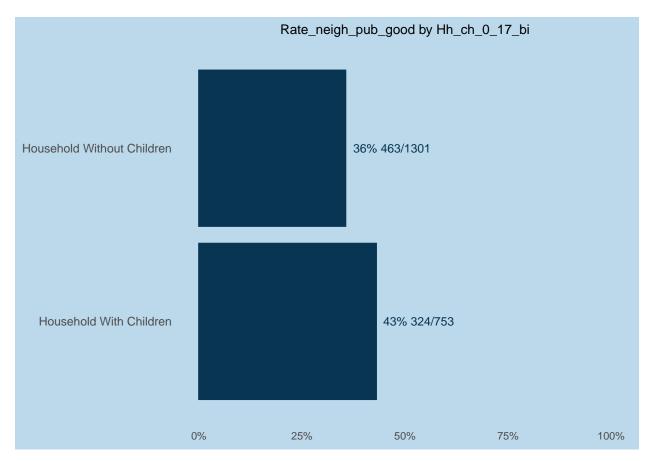


```
##
## [[8]]$gen$p.values
## [[8]]$gen$p.values$rate_neigh_pub_good
                     prefer not to say non-binary female
                                                              male transgender
## prefer not to say
                                    NA
                                               NA
                                                        NA
                                                                NA
                                                                            NA
## non-binary
                                    NA
                                               NA
                                                        NA
                                                                NA
                                                                            NA
                                               NA
                                                        NA 0.00014
                                                                            NA
## female
                                    NA
                                               NA 0.00014
## male
                                    NA
                                                                NA
                                                                            NA
## transgender
                                    NA
                                               NA
                                                        NA
                                                                NA
                                                                            NA
##
##
## [[8]]$race_census
## [[8]]$race_census$plot
```

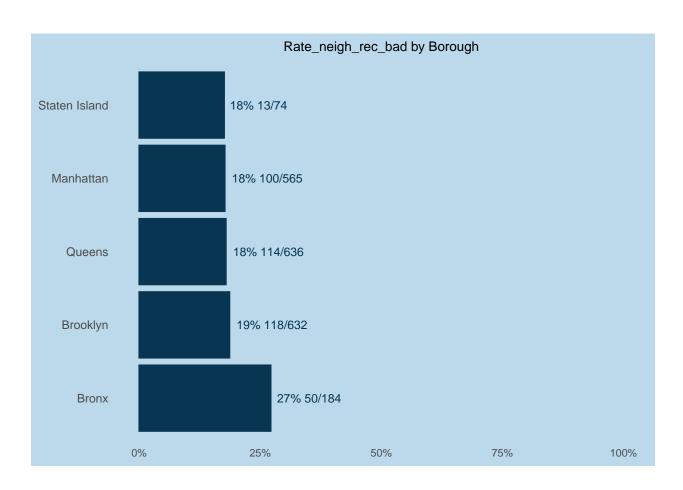


##								
##	[[8]]\$race_census\$p.values							
##	[[8]]\$race_census\$p.values\$rate	e_neigh	_pub_go	ood				
##		two or	more r	aces	Indigenou	ıs Americ	can	other
##	two or more races			NA			NA	NA
##	Indigenous American			NA			NA	NA
##	other			NA			NA	NA
##	black or african american			NA			NA	NA
##	hispanic or latinx		0.	0059			NA	NA
##	asian		0.	0035			NA	NA
##	white (non-hispanic or latino)		0.	0018			NA	NA
##		black	or afri	ican a	american h	nispanic	or	latinx
##	two or more races				NA			0.0059
##	Indigenous American				NA			NA
##	other				NA			NA
##	black or african american				NA			NA
##	hispanic or latinx				NA			NA
##	asian				NA			NA
##	<pre>white (non-hispanic or latino)</pre>				NA			NA
##		asian	white	(non-	-hispanic	or latir	10)	
##	two or more races	0.0035				0.00)18	
##	Indigenous American	NA					NA	
##	other	NA					NA	
##	black or african american	NA					NA	
##	hispanic or latinx	NA					NA	
##	asian	NA					NA	

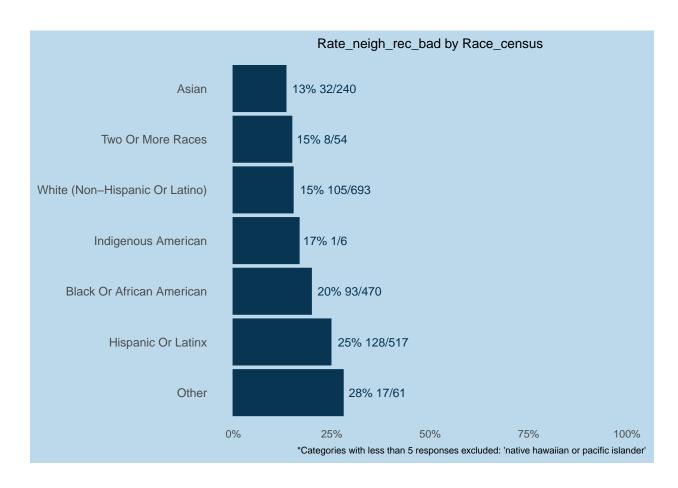
```
## white (non-hispanic or latino) NA NA
##
##
##
##
[[8]]$hh_ch_0_17_bi
## [[8]]$hh_ch_0_17_bi$plot
```



```
## [[8]]$hh_ch_0_17_bi$p.values
## [[8]]$hh_ch_0_17_bi$p.values$rate_neigh_pub_good
                              household without children household with children
## household without children
                                                       NA
                                                                          0.00098
## household with children
                                                  0.00098
                                                                               NA
##
##
##
## [[8]]$hh_sn_65_bi
## NULL
## [[8]]$inc_dist
## NULL
##
##
## [[9]]
## [[9]]$borough
## [[9]]$borough$plot
```

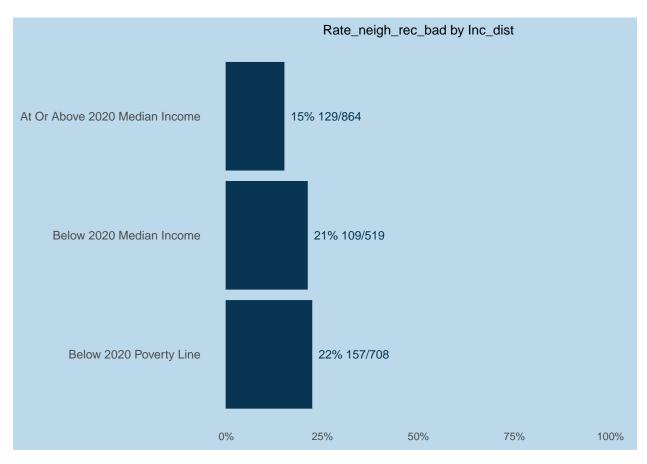


```
##
## [[9]]$borough$p.values
## [[9]]$borough$p.values$rate_neigh_rec_bad
                 staten island manhattan queens brooklyn bronx
## staten island
                                      NA
                                                      NA
                            NA
                                             NA
                                                              NA
## manhattan
                                      NA
                                             NA
                                                      NA 0.0073
                            NA
                                                      NA 0.0079
## queens
                            NA
                                      NA
                                             NA
## brooklyn
                            NA
                                      NA
                                             NA
                                                      NA
                                                              NA
## bronx
                            NA
                                  0.0073 0.0079
                                                      NA
                                                              NA
##
##
##
## [[9]]$gen
## NULL
##
## [[9]]$race_census
## [[9]]$race_census$plot
```

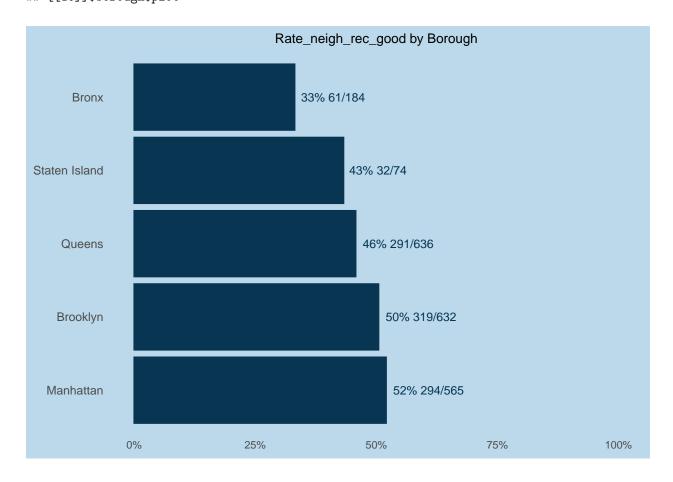


```
##
## [[9]]$race_census$p.values
## [[9]]$race_census$p.values$rate_neigh_rec_bad
                                     asian two or more races
## asian
                                        NA
                                                          NA
## two or more races
                                        NA
                                                          NA
## white (non-hispanic or latino)
                                                          NA
                                        NA
## Indigenous American
                                        NA
                                                          NA
## black or african american
                                        NA
                                                          NA
## hispanic or latinx
                                   0.00049
## other
                                        NA
                                                          NA
##
                                   white (non-hispanic or latino)
## asian
## two or more races
                                                                ΝA
## white (non-hispanic or latino)
                                                                NA
## Indigenous American
                                                                NA
## black or african american
                                                                NA
                                                           3.8e-05
## hispanic or latinx
## other
##
                                   Indigenous American black or african american
## asian
                                                    NA
                                                                               NA
## two or more races
                                                    NA
                                                                               NA
## white (non-hispanic or latino)
                                                    NA
                                                                               NA
## Indigenous American
                                                    NA
                                                                               NA
## black or african american
                                                    NA
                                                                               NA
## hispanic or latinx
                                                    NA
                                                                               NA
```

```
## other
                                                   NA
                                                                              NA
##
                                  hispanic or latinx other
                                             4.9e-04
## asian
## two or more races
                                                  NA
                                                        NA
                                            3.8e-05
## white (non-hispanic or latino)
                                                        NA
## Indigenous American
                                                  NA
                                                        NA
## black or african american
                                                  NA
                                                        NA
## hispanic or latinx
                                                  NA
                                                        NA
## other
                                                  NA
##
##
##
## [[9]]$hh_ch_0_17_bi
## NULL
##
## [[9]]$hh_sn_65_bi
## NULL
##
## [[9]]$inc_dist
## [[9]]$inc_dist$plot
```

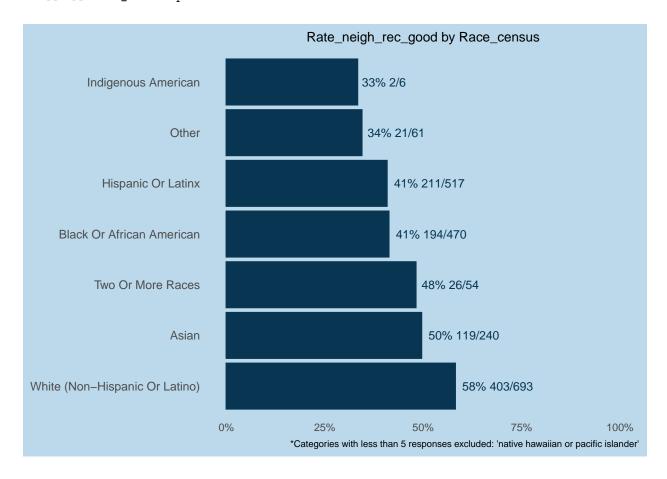


```
## at or above 2020 median income
                                                              NA
## below 2020 median income
                                                         0.00480
                                                         0.00027
## below 2020 poverty line
##
                                below 2020 median income below 2020 poverty line
## at or above 2020 median income
                                                    0.0048
                                                                           0.00027
## below 2020 median income
                                                        NA
                                                                                 NA
## below 2020 poverty line
                                                        NA
                                                                                 NA
##
##
##
## [[10]]
## [[10]]$borough
## [[10]]$borough$plot
```



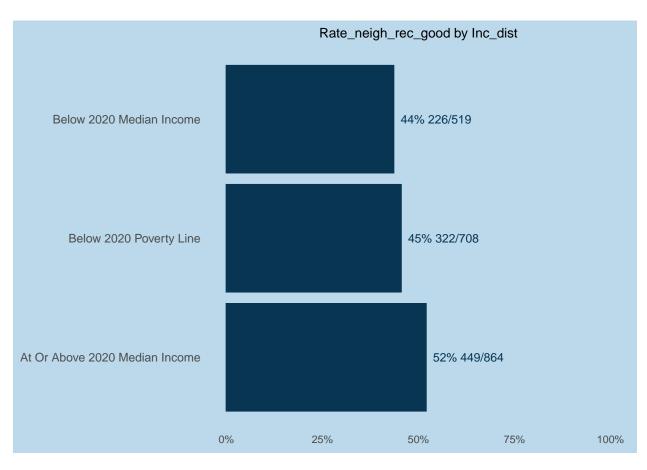
##							
##	[[10]]\$borough	n\$p.value	es				
##	[[10]]\$borough	n\$p.value	es\$rate	_neigh_n	rec_good	i	
##		bronx	${\tt staten}$	island	queens	${\tt brooklyn}$	manhattan
##	bronx	NA		NA	0.0031	4.9e-05	1.2e-05
##	${\tt staten \ island}$	NA		NA	NA	NA	NA
##	queens	3.1e-03		NA	NA	NA	NA
##	brooklyn	4.9e-05		NA	NA	NA	NA
##	manhattan	1.2e-05		NA	NA	NA	NA
##							

```
##
##
## [[10]]$gen
## NULL
##
## [[10]]$race_census
## [[10]]$race_census$plot
```



##									
##	[[10]]\$race_census\$p.values								
##	[[10]]\$race_census\$p.values\$rate	te_neigh	_rec_go	od					
##		Indigen	ous Ame	rican	other	hispa	anic	or lat	inx
##	Indigenous American			NA	NA				NA
##	other			NA	NA				NA
##	hispanic or latinx			NA	NA				NA
##	black or african american			NA	NA				NA
##	two or more races			NA	NA				NA
##	asian			NA	NA				NA
##	<pre>white (non-hispanic or latino)</pre>			NA	0.00057			3.4e	-09
##		black or	r afric	an am	erican t	wo or	more	races	
##	Indigenous American				NA			NA	
##	other				NA			NA	
##	hispanic or latinx				NA			NA	
##	black or african american				NA			NA	
##	two or more races				NA			NA	

```
NA
## asian
                                                          NA
## white (non-hispanic or latino)
                                                     2.3e-08
                                                                             NΑ
                                   asian white (non-hispanic or latino)
## Indigenous American
                                                                 5.7e-04
## other
## hispanic or latinx
                                      NA
                                                                 3.4e-09
## black or african american
                                      NA
                                                                 2.3e-08
## two or more races
                                      NA
                                                                      NA
## asian
                                                                      NA
## white (non-hispanic or latino)
                                      NA
                                                                      NA
##
##
## [[10]]$hh_ch_0_17_bi
## NULL
##
## [[10]]$hh_sn_65_bi
## NULL
## [[10]]$inc_dist
## [[10]]$inc_dist$plot
```



```
##
## [[10]]$inc_dist$p.values
## [[10]]$inc_dist$p.values$rate_neigh_rec_good
```

```
## below 2020 median income below 2020 poverty line
## below 2020 poverty line
## at or above 2020 median income
## below 2020 median income

## at or above 2020 median income
## below 2020 median income
## below 2020 poverty line
## at or above 2020 median income

## at or above 2020 median income

NA
## at or above 2020 median income

NA
```

7.8 - 7.9

7.8) Respondents who experienced a reduced income were more likely to rate government response poorly [12 & 13]

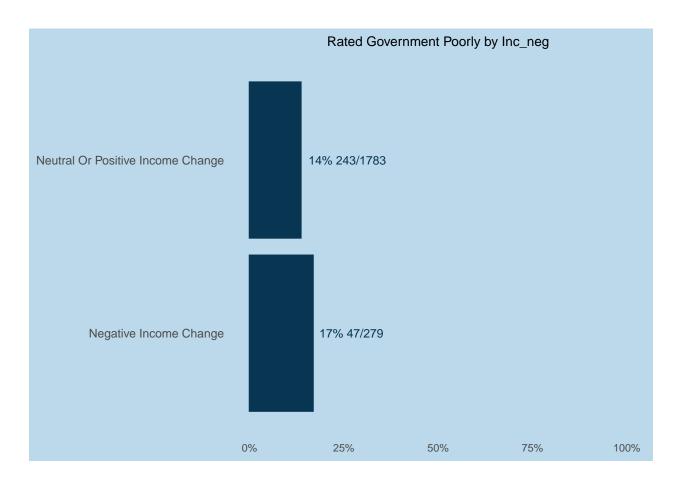
- 1. Run binary distribution over rating government response question Poor=Poor or Very Poor Not Poor=Good, Excellent, Average
- 2. Find proportion which rated government response poorly [31] Poorly=Poor or Very Poor
- a. Find subset of population who witnessed a reduced income
- b. Compare with others who did not

7.9) Respondents who faced housing insecurity were more like to rate government response poorly [21, 31]

- 1.Find proportion of households who faced housing security [21]
- 2. Find subset of population who rated government response poorly and compare with

other grou

```
## $inc_neg
## $inc_neg$plot
```



```
##
## $inc_neg$p.values
## $inc_neg$p.values$rate_gov_all_bad
                                       neutral or positive income change
## neutral or positive income change
                                                                        NA
## negative income change
                                                                        NA
##
                                       negative income change
\hbox{\it \#\# neutral or positive income change}
                                                            NA
## negative income change
                                                            NA
##
##
##
## $house_insec
## $house_insec$plot
```

