# poa other

Arielle Herman

4/10/2022

## Contents

Other

## 8.1)Households with income above the median are most likely to give high ratings to the response of State & Federal Government
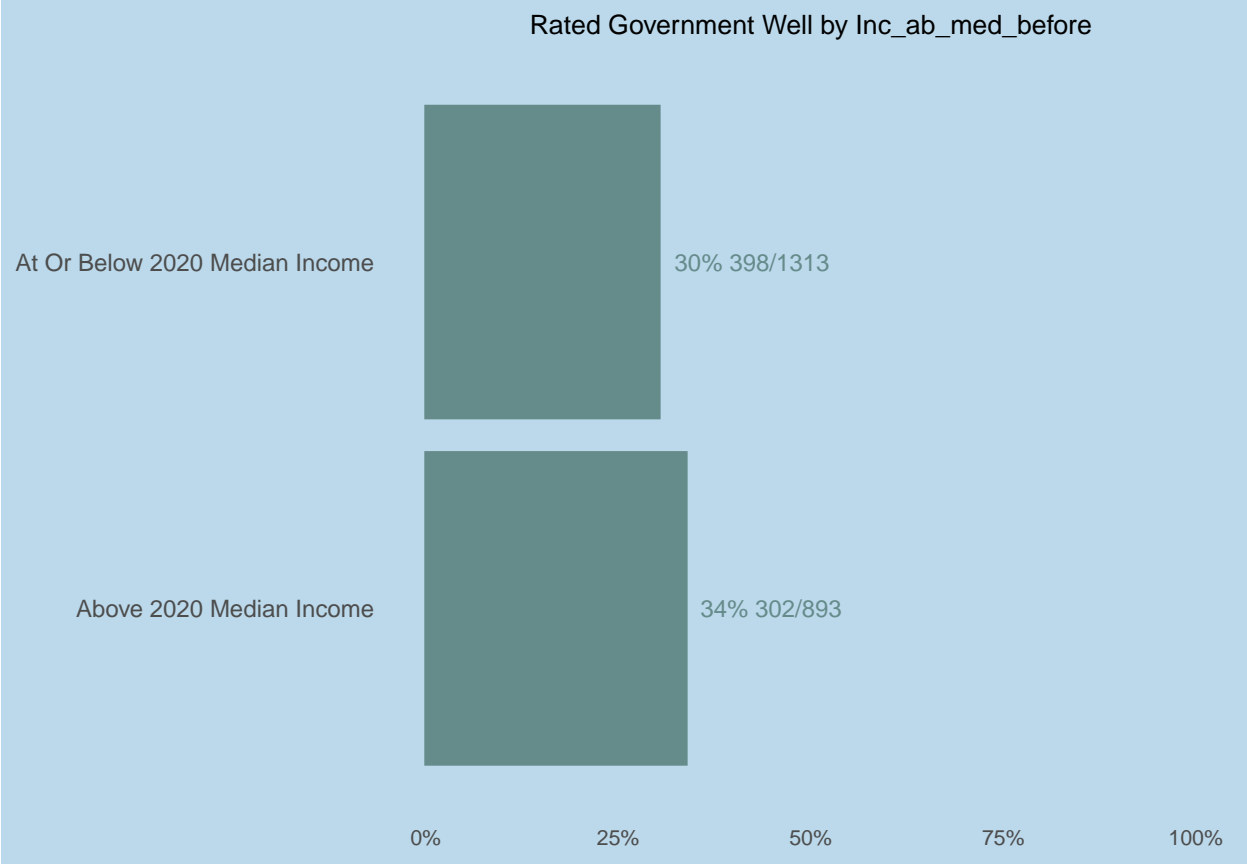
1. Find proportion of people who gave a high rating to State & Federal Government [31]

   a. Find subset of population who have above median income [13]
   b. Compare the groups below and above median income groups on the basis of their participation in political advocacy.

```
wrangled %>% summarize(across(contains("inc_ab_med"), mean, na.rm = TRUE))
```

```
## # A tibble: 1 x 3
##   inc_ab_med_before inc_ab_med_after inc_ab_med
##             <dbl>            <dbl>      <dbl>
## 1             0.402            0.390      0.358
```
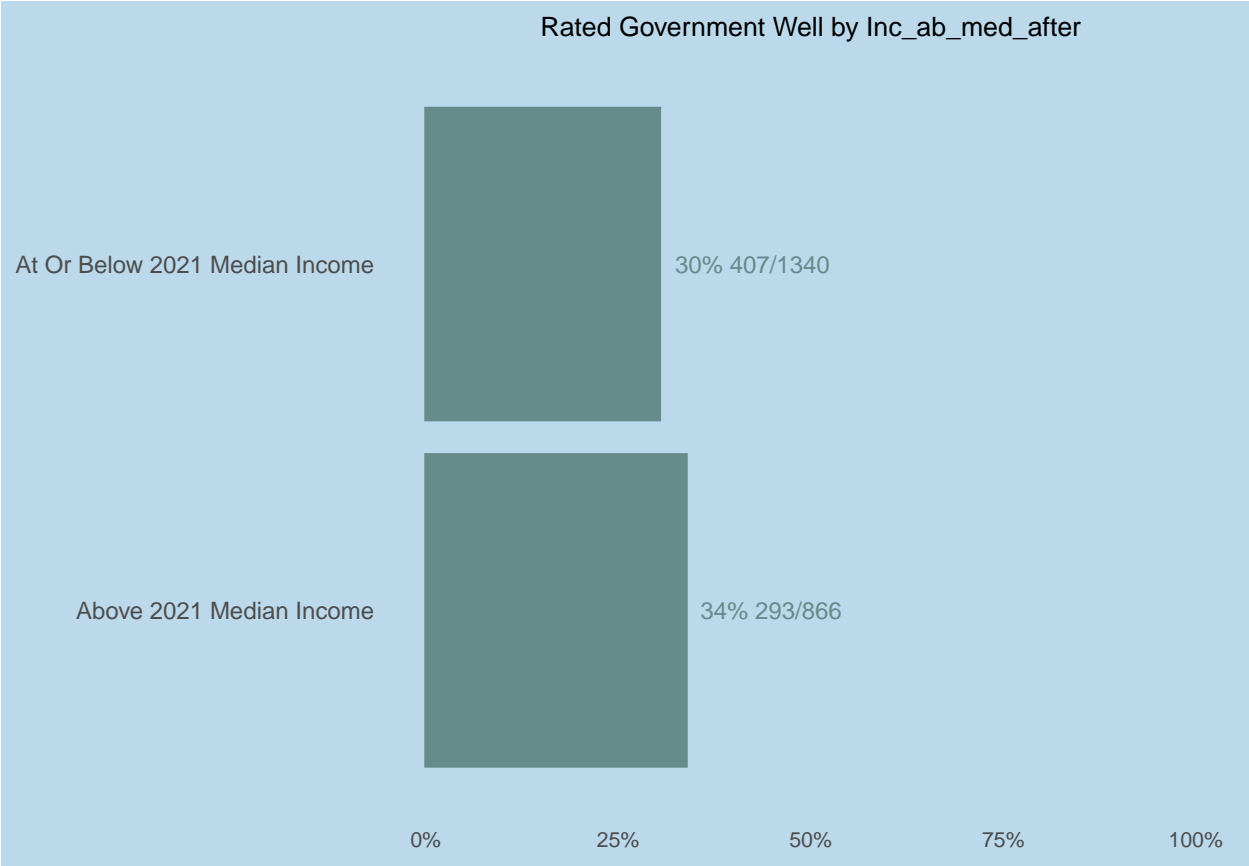
```
make_plots(wrangled, c("inc_ab_med_before", "inc_ab_med_after", "inc_ab_med"), "rate_gov_all_good", titl
```

```
## $inc_ab_med_before
## $inc_ab_med_before$plot
```

Rated Government Well by Inc_ab_med_before

At Or Below 2020 Median Income — 30% 398/1313

Above 2020 Median Income — 34% 302/893

0%   25%   50%   75%   100%

```
##
## $inc_ab_med_before$p.values
## $inc_ab_med_before$p.values$rate_gov_all_good
##                               at or below 2020 median income
## at or below 2020 median income                           NA
## above 2020 median income                                 NA
##                               above 2020 median income
## at or below 2020 median income                  NA
## above 2020 median income                        NA
##
##
##
## $inc_ab_med_after
## $inc_ab_med_after$plot
```

Rated Government Well by Inc_ab_med_after

At Or Below 2021 Median Income       30% 407/1340

Above 2021 Median Income       34% 293/866

0%     25%     50%     75%     100%

```
##
## $inc_ab_med_after$p.values
## $inc_ab_med_after$p.values$rate_gov_all_good
##                                   at or below 2021 median income
## at or below 2021 median income                               NA
## above 2021 median income                                     NA
##                                      above 2021 median income
## at or below 2021 median income                            NA
## above 2021 median income                                  NA
##
##
##
## $inc_ab_med
## $inc_ab_med$plot
```

3

Rated Government Well by Inc_ab

At Or Below Median Income Level Either Before Or After The Start Of The Pandemic — 30% 425/1412

Above Median Income Level Before And After The Start Of The Pandemic — 35% 275/794

0%   25%   50%   75%   100%
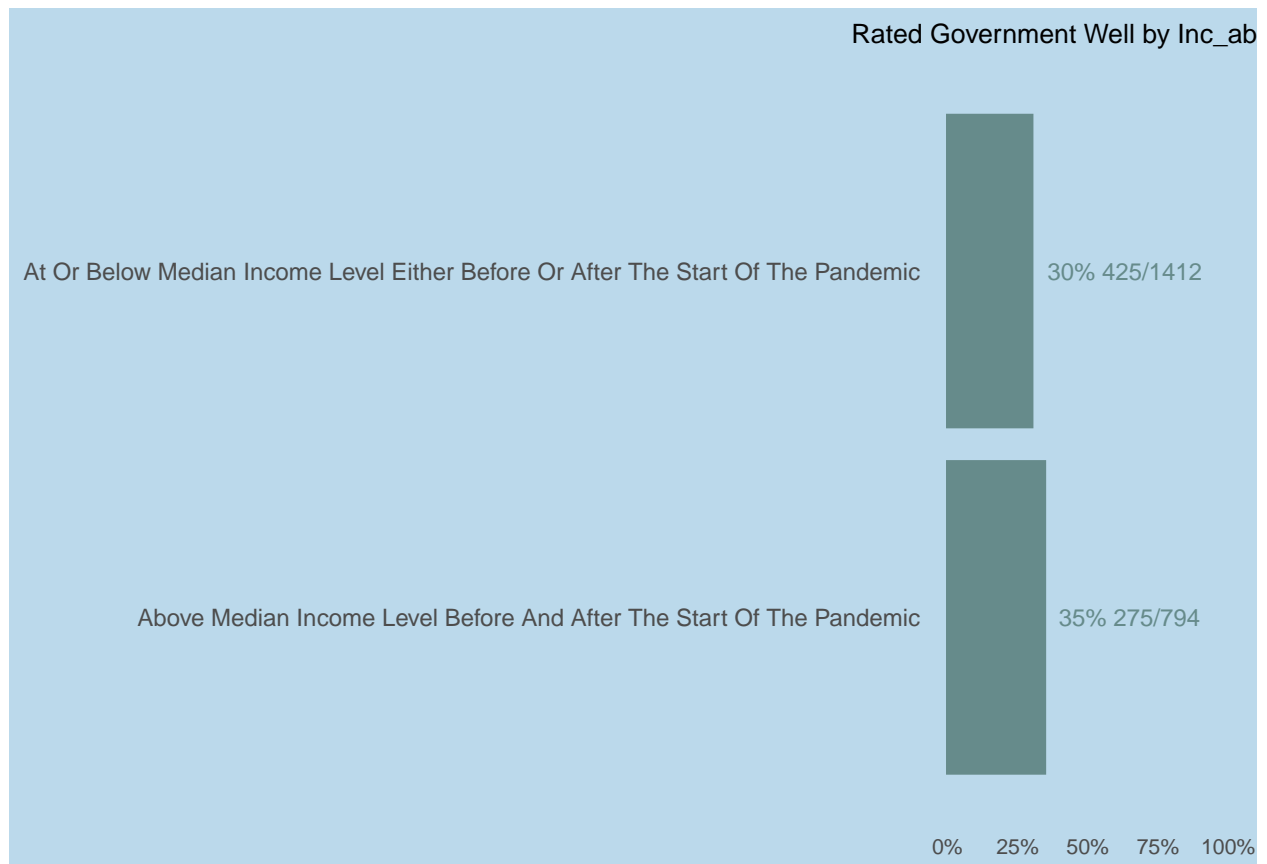
```
##
## $inc_ab_med$p.values
## $inc_ab_med$p.values$rate_gov_all_good
##                                                                              at or below median
## at or below median income level either before or after the start of the pandemic
## above median income level before and after the start of the pandemic
##                                                                              above median income
## at or below median income level either before or after the start of the pandemic
## above median income level before and after the start of the pandemic
```

## 8.2)People with below median income were more likely to give low ratings to the responses of dr State & Federal Government

1.Find proportion of people who gave a low rating to State & Federal Government [31] a. Find subset of population who have below median income [13] b. Compare the groups below and above median income groups on the basis on their participation in political advocacy.

```
wrangled %>% summarize(across(contains("inc_be_med"), mean, na.rm = TRUE))
```

```
## # A tibble: 1 x 3
##   inc_be_med_before inc_be_med_after inc_be_med
##             <dbl>            <dbl>      <dbl>
## 1             0.598            0.610      0.565
```

```
make_plots(wrangled, "inc_be_med", "rate_gov_all_bad", title = "Rated Government (Very) Poorly")
```

```
## $inc_be_med
## $inc_be_med$plot
```



Rated Government (Very) Poorly by Inc_be_med

Above Median Income Either Before Or After The Start    11% 107/965

At Or Below Median Income Level Before And After    16% 200/1241

0%    25%    50%    75%    100%
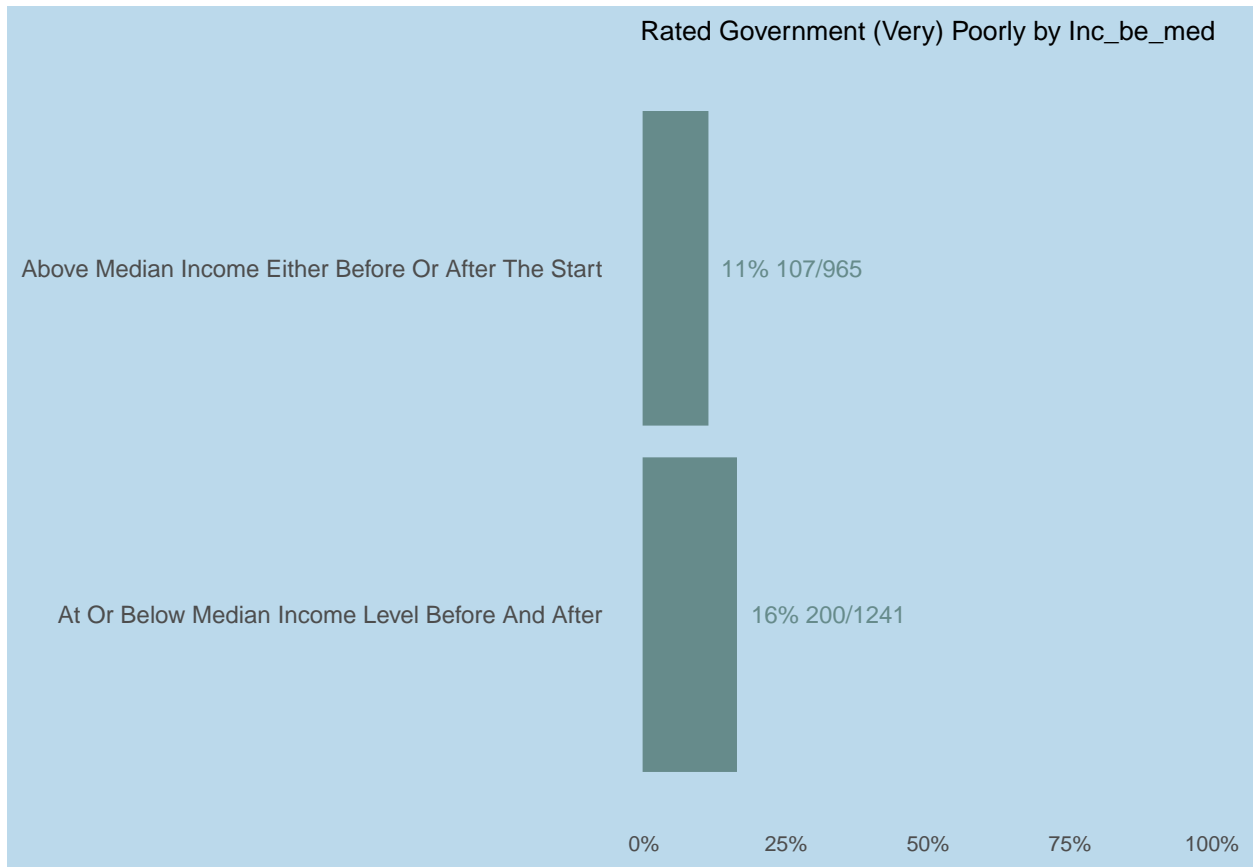
```
##
## $inc_be_med$p.values
## $inc_be_med$p.values$rate_gov_all_bad
##                                                        above median income either before or after the s
## above median income either before or after the start
## at or below median income level before and after                                                    0.(
##                                                        at or below median income level before and afte
## above median income either before or after the start                                             0.00089
## at or below median income level before and after                                                      N.
```

## 8.3)Find source of aid for all these requirements[33]

1. Find proportion of respondents which look towards other sources for each of these categories

  (i) Local Transport
  (ii) Utilities
 (iii) Healthcare (iv)Food

(iv) Clean Water

vi) Adultcare (vii)Childcare (viii)Stress or Emotional Support

2. Run distribution over each help source from Government, Friends and Family, Community Organizations, Corporate/Business, Faith-Based
3. Run sub demographics by each category

```
wrangled %>% select(starts_with("lr_"))
```

```
## # A tibble: 2,315 x 60
##    lr_stress          lr_stress_fb    lr_stress_np lr_stress_gov  lr_stress_corp
##    <chr>                <int+lbl>        <int+lbl>     <int+lbl>        <int+lbl>
##  1 community non-p~ 0 [not 'faith~ 1 [community n~ 0 [not 'gove~ 0 [not 'corpor~
##  2 community non-p~ 0 [not 'faith~ 1 [community n~ 0 [not 'gove~ 0 [not 'corpor~
##  3 friends/family   0 [not 'faith~ 0 [not 'commun~ 0 [not 'gove~ 0 [not 'corpor~
##  4 community non-p~ 0 [not 'faith~ 1 [community n~ 1 [governmen~ 1 [corporate/b~
##  5 friends/family   0 [not 'faith~ 0 [not 'commun~ 0 [not 'gove~ 0 [not 'corpor~
##  6 community non-p~ 0 [not 'faith~ 1 [community n~ 0 [not 'gove~ 0 [not 'corpor~
##  7 community non-p~ 0 [not 'faith~ 1 [community n~ 1 [governmen~ 1 [corporate/b~
##  8 friends/family   0 [not 'faith~ 0 [not 'commun~ 0 [not 'gove~ 0 [not 'corpor~
##  9 friends/family   0 [not 'faith~ 0 [not 'commun~ 0 [not 'gove~ 0 [not 'corpor~
## 10 friends/family   0 [not 'faith~ 0 [not 'commun~ 0 [not 'gove~ 0 [not 'corpor~
## # ... with 2,305 more rows, and 55 more variables: lr_stress_fam <int+lbl>,
## #   lr_stress_idk <int+lbl>, lr_trans <chr>, lr_trans_fb <int+lbl>,
## #   lr_trans_np <int+lbl>, lr_trans_gov <int+lbl>, lr_trans_corp <int+lbl>,
## #   lr_trans_fam <int+lbl>, lr_trans_idk <int+lbl>, lr_food <chr>,
## #   lr_food_fb <int+lbl>, lr_food_np <int+lbl>, lr_food_gov <int+lbl>,
## #   lr_food_corp <int+lbl>, lr_food_fam <int+lbl>, lr_food_idk <int+lbl>,
## #   lr_wtr <chr>, lr_wtr_fb <int+lbl>, lr_wtr_np <int+lbl>, ...
```

```
df <- wrangled %>% mutate(across(starts_with("lr_") & is.labelled, as.integer)) %>%
  pivot_longer(is.integer & starts_with("lr_")) %>%
  select(name,value) %>%
  mutate(name = str_replace(name, "lr_", "")) %>%
  filter(str_detect(name, "_")) %>%
  separate(name, into = c("area", "resource")) %>%
  group_by(area, resource) %>%
  summarize(n = sum(value, na.rm = TRUE)) %>%
  group_by(area) %>% #mutate(denom = sum(n)) %>%
  arrange(area, desc(n)) %>%
  #filter(row_number() <= 1) #%>%
  ungroup() %>% data.frame()
```

```
plot_1 <- ggplot(df, aes(x = resource, y = n)) + geom_bar(stat = "identity") + facet_wrap(~area, ncol =

plot_1
```

6
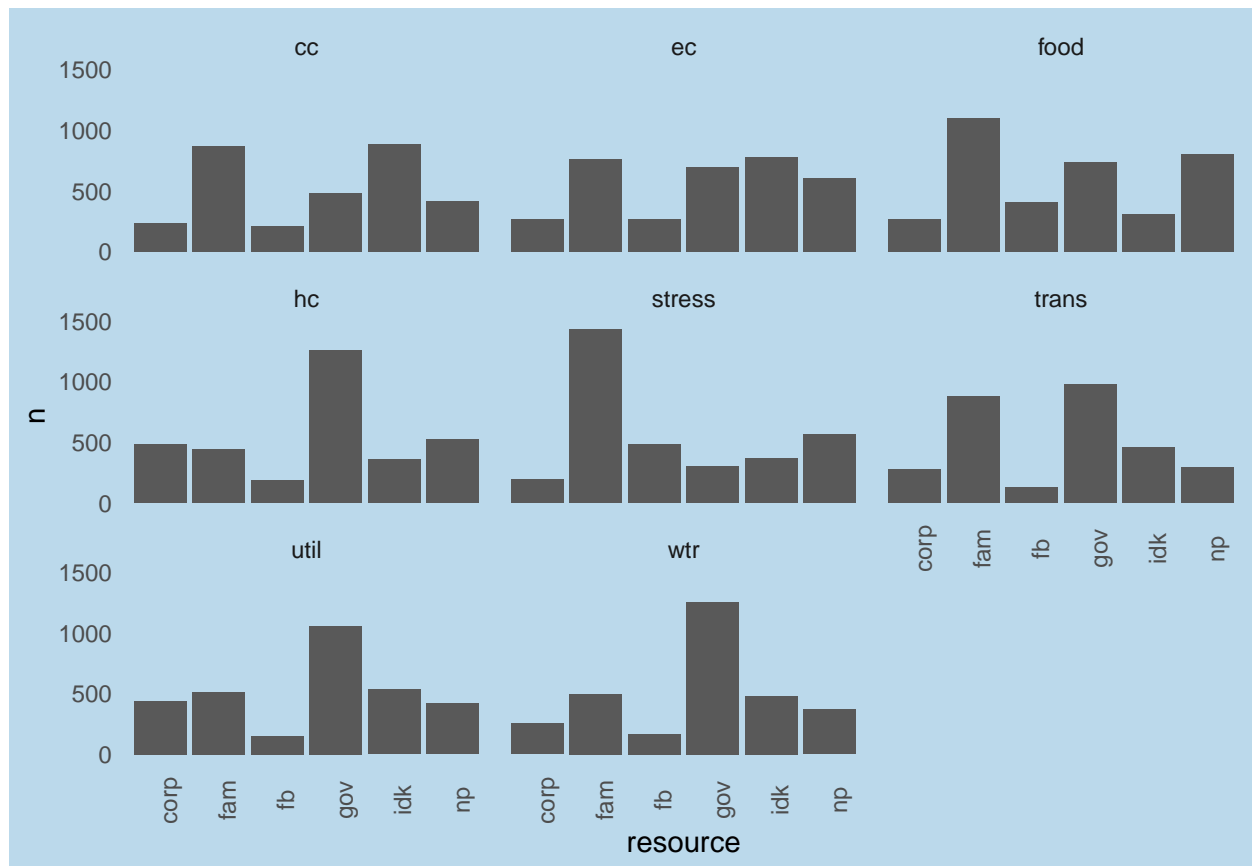
```
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_cc_corp", "lr_cc_fam", "lr_cc_fb", "lr_cc_g
```

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

Lr_cc by Borough
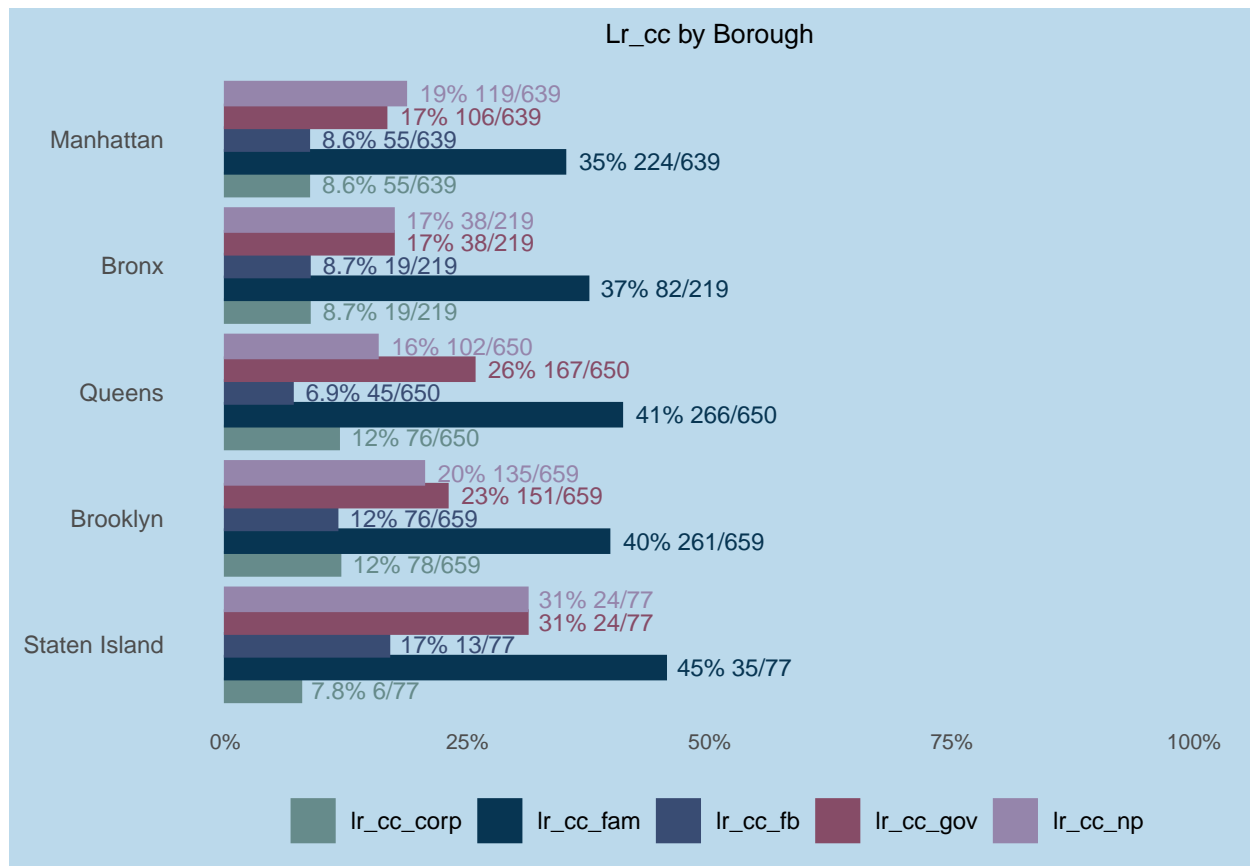
```
##
## $borough$p.values
## $borough$p.values$lr_cc_corp
##               staten island manhattan bronx queens brooklyn
## staten island            NA        NA    NA     NA       NA
## manhattan                NA        NA    NA     NA       NA
## bronx                    NA        NA    NA     NA       NA
## queens                   NA        NA    NA     NA       NA
## brooklyn                 NA        NA    NA     NA       NA
##
## $borough$p.values$lr_cc_fam
##               manhattan bronx brooklyn queens staten island
## manhattan            NA    NA       NA     NA            NA
## bronx                NA    NA       NA     NA            NA
## brooklyn             NA    NA       NA     NA            NA
## queens               NA    NA       NA     NA            NA
## staten island        NA    NA       NA     NA            NA
##
## $borough$p.values$lr_cc_fb
##               queens manhattan bronx brooklyn staten island
## queens            NA        NA    NA   0.0054        0.0047
## manhattan         NA        NA    NA       NA            NA
## bronx             NA        NA    NA       NA            NA
## brooklyn      0.0054        NA    NA       NA            NA
## staten island 0.0047        NA    NA       NA            NA
##
```

```
## $borough$p.values$lr_cc_gov
##               manhattan bronx brooklyn  queens staten island
## manhattan            NA    NA   0.0053 8.4e-05         0.0029
## bronx                NA    NA       NA      NA             NA
## brooklyn        5.3e-03    NA       NA      NA             NA
## queens          8.4e-05    NA       NA      NA             NA
## staten island   2.9e-03    NA       NA      NA             NA
##
## $borough$p.values$lr_cc_np
##               queens bronx manhattan brooklyn staten island
## queens            NA    NA        NA       NA        0.0012
## bronx             NA    NA        NA       NA            NA
## manhattan         NA    NA        NA       NA            NA
## brooklyn          NA    NA        NA       NA            NA
## staten island 0.0012    NA        NA       NA            NA
##
##
##
## $gen
## NULL
##
## $race_census
## $race_census$plot
```



```
##
```
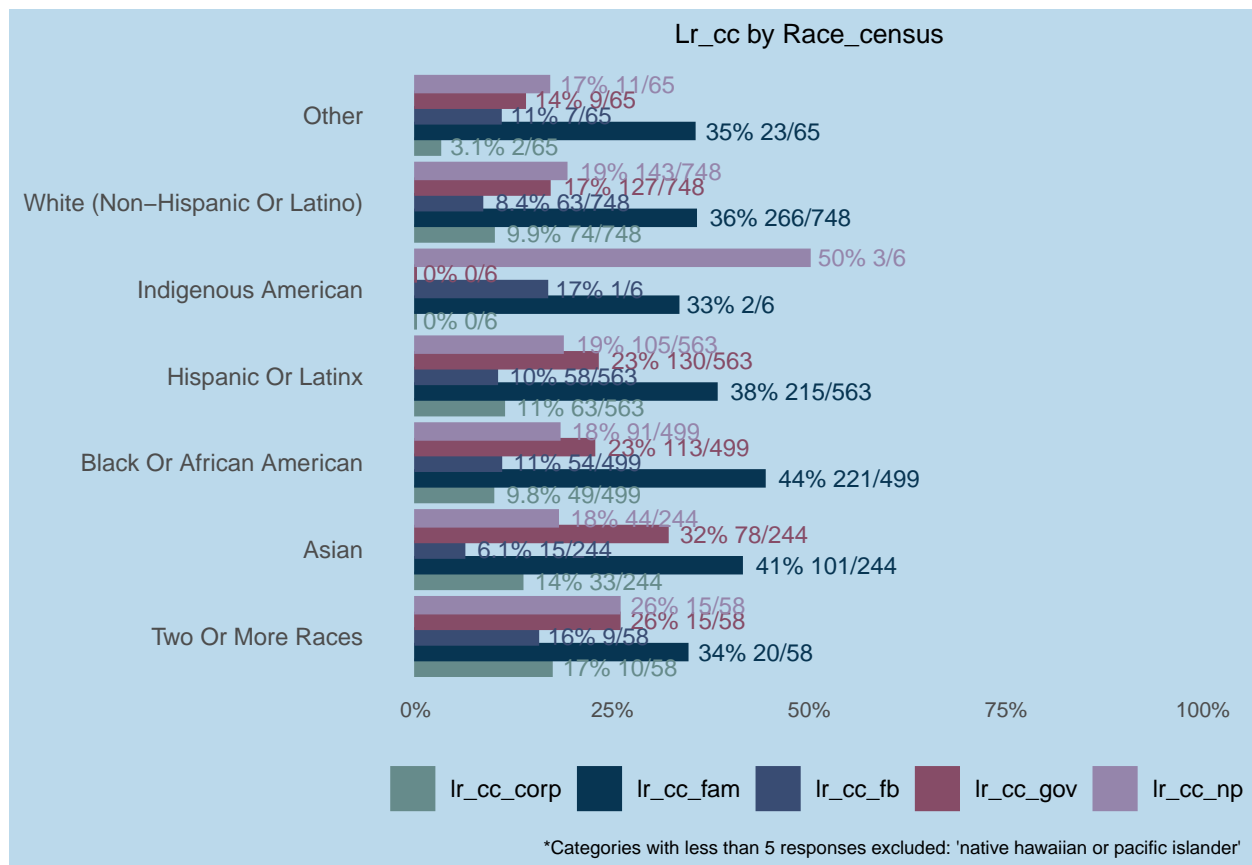
```
## $race_census$p.values
## $race_census$p.values$lr_cc_corp
##                                Indigenous American other
## Indigenous American                            NA    NA
## other                                          NA    NA
## black or african american                      NA    NA
## white (non-hispanic or latino)                 NA    NA
## hispanic or latinx                             NA    NA
## asian                                          NA    NA
## two or more races                              NA    NA
##                                black or african american
## Indigenous American                                   NA
## other                                                 NA
## black or african american                             NA
## white (non-hispanic or latino)                        NA
## hispanic or latinx                                    NA
## asian                                                 NA
## two or more races                                     NA
##                                white (non-hispanic or latino)
## Indigenous American                                        NA
## other                                                      NA
## black or african american                                 NA
## white (non-hispanic or latino)                            NA
## hispanic or latinx                                        NA
## asian                                                     NA
## two or more races                                         NA
##                                hispanic or latinx asian two or more races
## Indigenous American                            NA    NA                NA
## other                                          NA    NA                NA
## black or african american                      NA    NA                NA
## white (non-hispanic or latino)                 NA    NA                NA
## hispanic or latinx                             NA    NA                NA
## asian                                          NA    NA                NA
## two or more races                              NA    NA                NA
##
## $race_census$p.values$lr_cc_fam
##                                Indigenous American two or more races other
## Indigenous American                            NA                NA    NA
## two or more races                              NA                NA    NA
## other                                          NA                NA    NA
## white (non-hispanic or latino)                 NA                NA    NA
## hispanic or latinx                             NA                NA    NA
## asian                                          NA                NA    NA
## black or african american                      NA                NA    NA
##                                white (non-hispanic or latino)
## Indigenous American                                        NA
## two or more races                                          NA
## other                                                      NA
## white (non-hispanic or latino)                            NA
## hispanic or latinx                                        NA
## asian                                                     NA
## black or african american                             0.0024
##                                hispanic or latinx asian
## Indigenous American                            NA    NA
```

```
## two or more races                                 NA    NA
## other                                              NA    NA
## white (non-hispanic or latino)                     NA    NA
## hispanic or latinx                                 NA    NA
## asian                                              NA    NA
## black or african american                          NA    NA
##                              black or african american
## Indigenous American                                       NA
## two or more races                                         NA
## other                                                     NA
## white (non-hispanic or latino)                        0.0024
## hispanic or latinx                                        NA
## asian                                                     NA
## black or african american                                NA
##
## $race_census$p.values$lr_cc_fb
##                              asian white (non-hispanic or latino)
## asian                          NA                             NA
## white (non-hispanic or latino) NA                             NA
## hispanic or latinx             NA                             NA
## other                          NA                             NA
## black or african american      NA                             NA
## two or more races              NA                             NA
## Indigenous American            NA                             NA
##                              hispanic or latinx other
## asian                                        NA    NA
## white (non-hispanic or latino)               NA    NA
## hispanic or latinx                           NA    NA
## other                                        NA    NA
## black or african american                    NA    NA
## two or more races                            NA    NA
## Indigenous American                          NA    NA
##                              black or african american two or more races
## asian                                                NA                NA
## white (non-hispanic or latino)                       NA                NA
## hispanic or latinx                                   NA                NA
## other                                                NA                NA
## black or african american                            NA                NA
## two or more races                                    NA                NA
## Indigenous American                                  NA                NA
##                              Indigenous American
## asian                                        NA
## white (non-hispanic or latino)               NA
## hispanic or latinx                           NA
## other                                        NA
## black or african american                    NA
## two or more races                            NA
## Indigenous American                          NA
##
## $race_census$p.values$lr_cc_gov
##                              Indigenous American   other
## Indigenous American                          NA    NA
## other                                        NA    NA
## white (non-hispanic or latino)               NA    NA
```

11

```
## black or african american                              NA     NA
## hispanic or latinx                                      NA     NA
## two or more races                                       NA     NA
## asian                                                   NA 0.0063
##                                   white (non-hispanic or latino)
## Indigenous American                                                NA
## other                                                             NA
## white (non-hispanic or latino)                                    NA
## black or african american                                         NA
## hispanic or latinx                                            7.2e-03
## two or more races                                                 NA
## asian                                                         8.2e-07
##                                   black or african american hispanic or latinx
## Indigenous American                                      NA                 NA
## other                                                    NA                 NA
## white (non-hispanic or latino)                           NA             0.0072
## black or african american                                NA                 NA
## hispanic or latinx                                       NA                 NA
## two or more races                                        NA                 NA
## asian                                                0.0083             0.0100
##                                   two or more races    asian
## Indigenous American                              NA       NA
## other                                            NA 6.3e-03
## white (non-hispanic or latino)                   NA 8.2e-07
## black or african american                        NA 8.3e-03
## hispanic or latinx                               NA 1.0e-02
## two or more races                                NA       NA
## asian                                            NA       NA
##
## $race_census$p.values$lr_cc_np
##                                   other asian black or african american
## other                              NA    NA                          NA
## asian                              NA    NA                          NA
## black or african american          NA    NA                          NA
## hispanic or latinx                 NA    NA                          NA
## white (non-hispanic or latino)     NA    NA                          NA
## two or more races                  NA    NA                          NA
## Indigenous American                NA    NA                          NA
##                                   hispanic or latinx
## other                                             NA
## asian                                             NA
## black or african american                         NA
## hispanic or latinx                                NA
## white (non-hispanic or latino)                    NA
## two or more races                                 NA
## Indigenous American                               NA
##                                   white (non-hispanic or latino) two or more races
## other                                                         NA                NA
## asian                                                         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
## Indigenous American                                          NA                NA
```
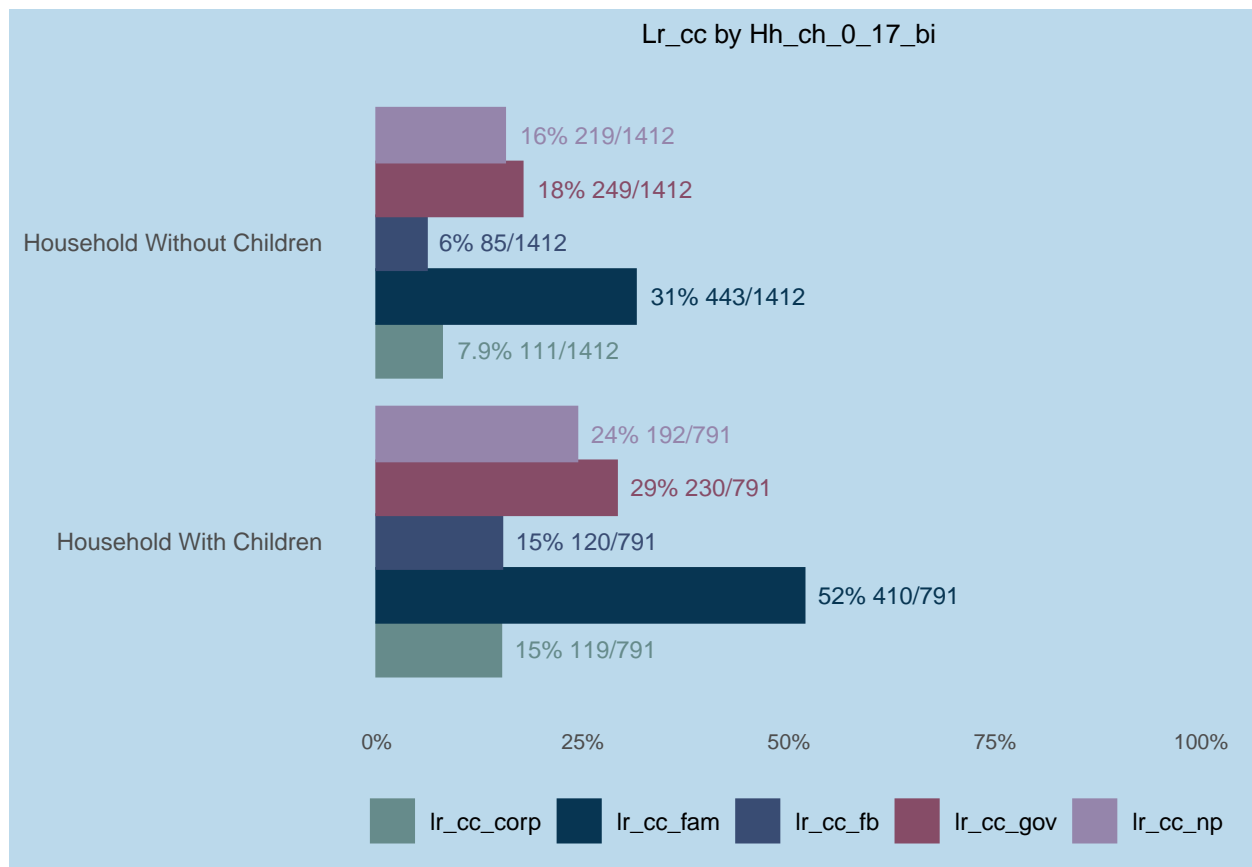
```
##                          Indigenous American
## other                                     NA
## asian                                     NA
## black or african american                NA
## hispanic or latinx                       NA
## white (non-hispanic or latino)           NA
## two or more races                        NA
## Indigenous American                      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$lr_cc_corp
##                          household without children household with children
## household without children                      NA                 1.8e-07
## household with children                    1.8e-07                      NA
##
## $hh_ch_0_17_bi$p.values$lr_cc_fam
##                          household without children household with children
## household without children                      NA                 4.9e-21
## household with children                    4.9e-21                      NA
```

```
##
## $hh_ch_0_17_bi$p.values$lr_cc_fb
##                              household without children household with children
## household without children                          NA                 2.3e-12
## household with children                        2.3e-12                      NA
##
## $hh_ch_0_17_bi$p.values$lr_cc_gov
##                              household without children household with children
## household without children                          NA                 5.9e-10
## household with children                        5.9e-10                      NA
##
## $hh_ch_0_17_bi$p.values$lr_cc_np
##                              household without children household with children
## household without children                          NA                 5.5e-07
## household with children                        5.5e-07                      NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```
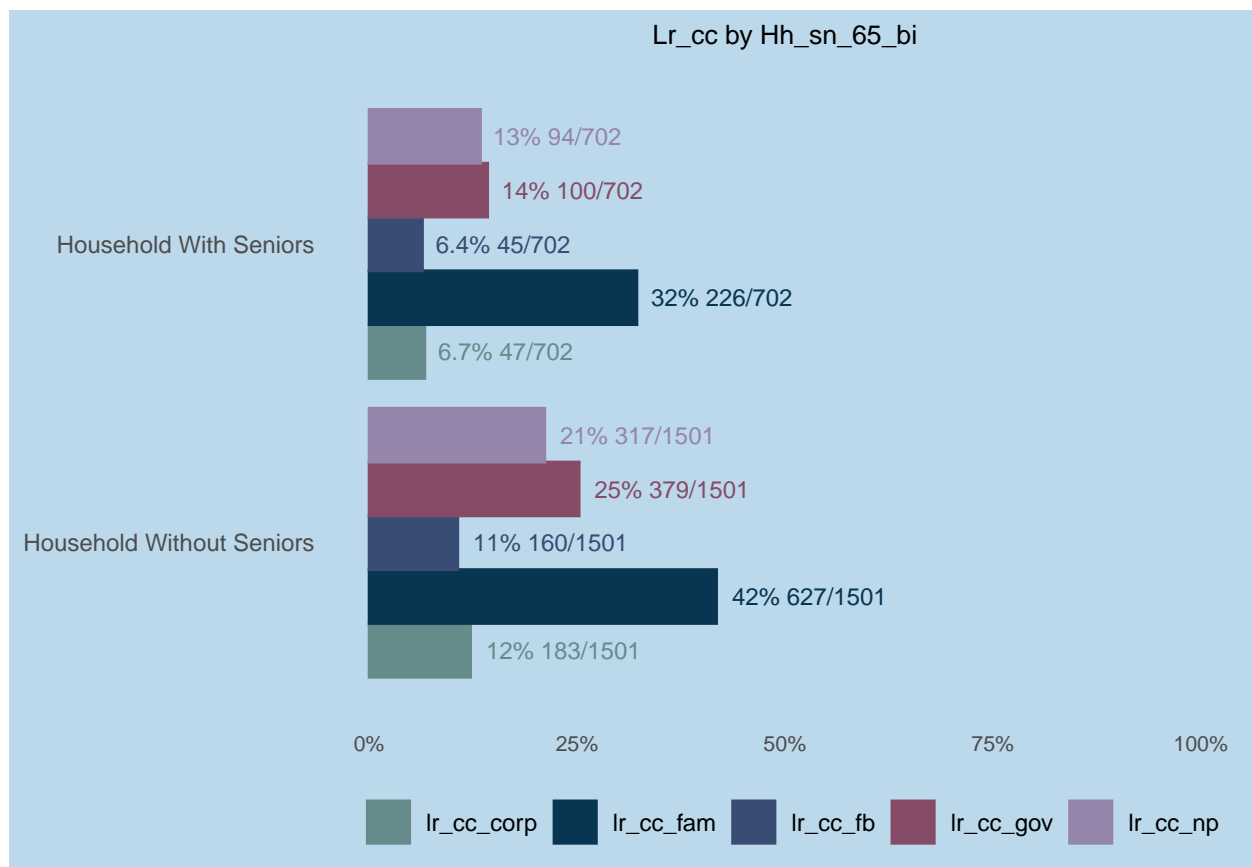


```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_cc_corp
##                              household with seniors household without seniors
```

```
## household with seniors                              NA                    0.00011
## household without seniors                      0.00011                        NA
##
## $hh_sn_65_bi$p.values$lr_cc_fam
##                          household with seniors household without seniors
## household with seniors                      NA                    2.1e-05
## household without seniors                2.1e-05                        NA
##
## $hh_sn_65_bi$p.values$lr_cc_fb
##                          household with seniors household without seniors
## household with seniors                      NA                     0.0018
## household without seniors                 0.0018                        NA
##
## $hh_sn_65_bi$p.values$lr_cc_gov
##                          household with seniors household without seniors
## household with seniors                      NA                    7.5e-09
## household without seniors                7.5e-09                        NA
##
## $hh_sn_65_bi$p.values$lr_cc_np
##                          household with seniors household without seniors
## household with seniors                      NA                    1.9e-05
## household without seniors                1.9e-05                        NA
##
##
##
## $inc_dist
## $inc_dist$plot
```

Lr_cc by Inc_dist

Below 2020 Poverty Line
- 18% 136/769
- 22% 173/769
- 8.6% 66/769
- 33% 254/769
- 8.3% 64/769

Below 2020 Median Income
- 18% 98/544
- 22% 121/544
- 9.6% 52/544
- 39% 214/544
- 10% 55/544

At Or Above 2020 Median Income
- 20% 184/931
- 21% 192/931
- 9.7% 90/931
- 43% 400/931
- 12% 115/931

Legend: lr_cc_corp, lr_cc_fam, lr_cc_fb, lr_cc_gov, lr_cc_np
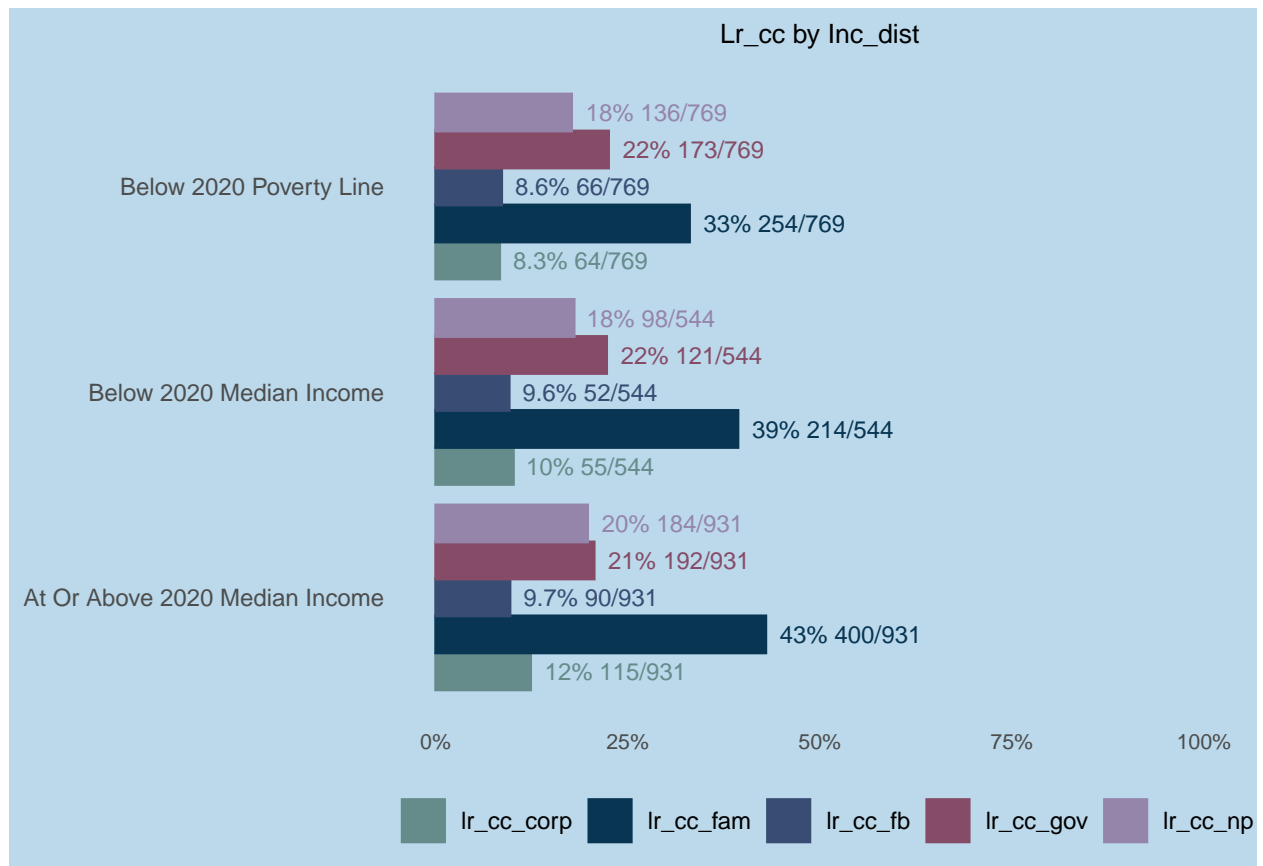
```
##
## $inc_dist$p.values
## $inc_dist$p.values$lr_cc_corp
##                               below 2020 poverty line below 2020 median income
## below 2020 poverty line                            NA                       NA
## below 2020 median income                           NA                       NA
## at or above 2020 median income                 0.0089                       NA
##                               at or above 2020 median income
## below 2020 poverty line                               0.0089
## below 2020 median income                                  NA
## at or above 2020 median income                            NA
##
## $inc_dist$p.values$lr_cc_fam
##                               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                3.5e-05                       NA
##                               at or above 2020 median income
## below 2020 poverty line                              3.5e-05
## below 2020 median income                                  NA
## at or above 2020 median income                            NA
##
## $inc_dist$p.values$lr_cc_fb
##                               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                                        NA                      NA
##                                     at or above 2020 median income
## below 2020 poverty line                                        NA
## below 2020 median income                                        NA
## at or above 2020 median income                                        NA
##
## $inc_dist$p.values$lr_cc_gov
##                                     at or above 2020 median income
## at or above 2020 median income                                        NA
## below 2020 median income                                        NA
## below 2020 poverty line                                        NA
##                                     below 2020 median income below 2020 poverty line
## at or above 2020 median income                                        NA                      NA
## below 2020 median income                                        NA                      NA
## below 2020 poverty line                                        NA                      NA
##
## $inc_dist$p.values$lr_cc_np
##                                     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                                        NA                      NA
##                                     at or above 2020 median income
## below 2020 poverty line                                        NA
## below 2020 median income                                        NA
## at or above 2020 median income                                        NA
```

```r
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_ec_corp", "lr_ec_fam", "lr_ec_fb", "lr_ec_
```

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

Lr_ec by Borough

Bronx
- 23% 51/219 (lr_ec_np)
- 23% 51/219 (lr_ec_gov)
- 11% 24/219 (lr_ec_fb)
- 28% 62/219 (lr_ec_fam)
- 9.1% 20/219 (lr_ec_corp)

Queens
- 22% 141/650
- 34% 222/650
- 8% 52/650
- 34% 218/650
- 12% 80/650

Brooklyn
- 26% 174/659
- 31% 205/659
- 14% 92/659
- 33% 220/659
- 13% 84/659

Manhattan
- 33% 212/639
- 31% 195/639
- 13% 83/639
- 36% 229/639
- 12% 77/639

Staten Island
- 34% 26/77
- 30% 23/77
- 21% 16/77
- 44% 34/77
- 13% 10/77

Legend: lr_ec_corp | lr_ec_fam | lr_ec_fb | lr_ec_gov | lr_ec_np
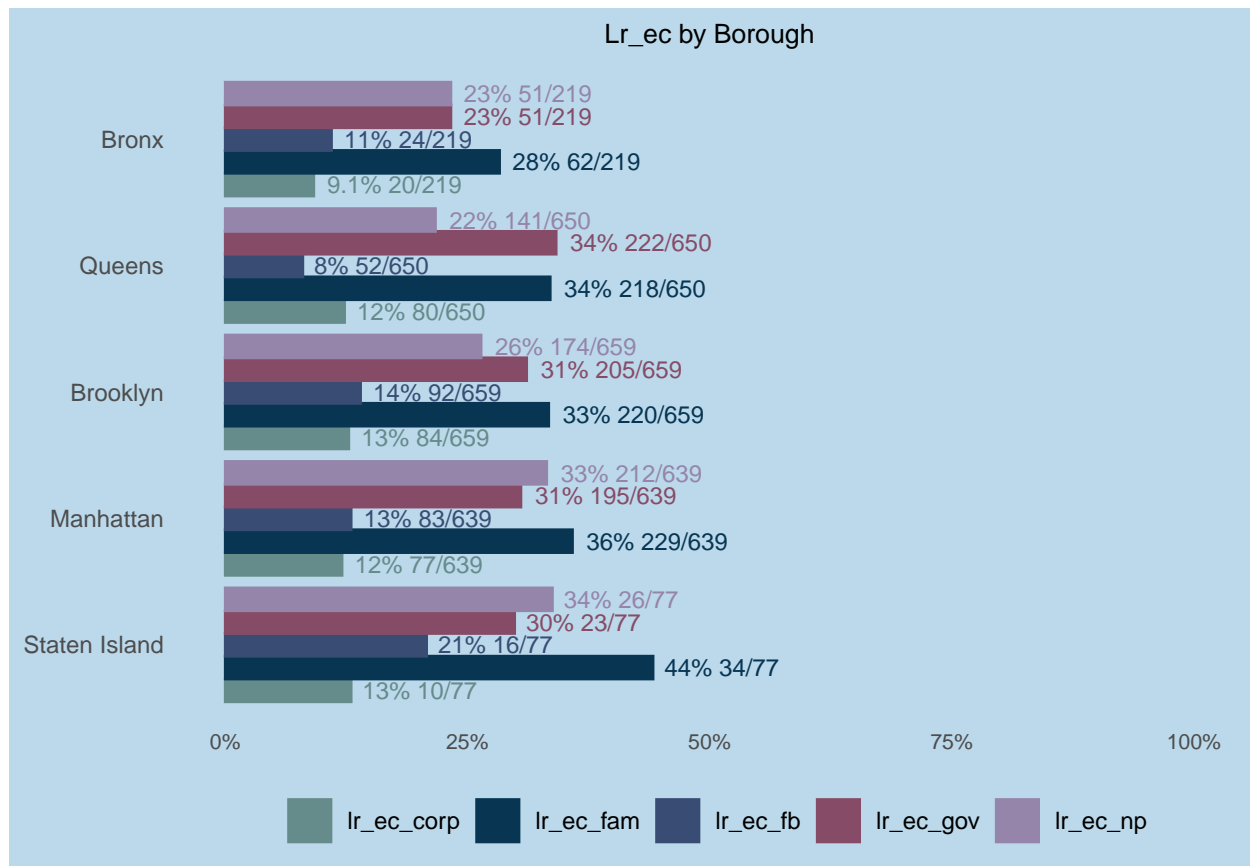
```
##
## $borough$p.values
## $borough$p.values$lr_ec_corp
##               bronx manhattan queens brooklyn staten island
## bronx            NA        NA     NA       NA            NA
## manhattan        NA        NA     NA       NA            NA
## queens           NA        NA     NA       NA            NA
## brooklyn         NA        NA     NA       NA            NA
## staten island    NA        NA     NA       NA            NA
##
## $borough$p.values$lr_ec_fam
##               bronx brooklyn queens manhattan staten island
## bronx            NA       NA     NA        NA            NA
## brooklyn         NA       NA     NA        NA            NA
## queens           NA       NA     NA        NA            NA
## manhattan        NA       NA     NA        NA            NA
## staten island    NA       NA     NA        NA            NA
##
## $borough$p.values$lr_ec_fb
##                queens bronx manhattan brooklyn staten island
## queens            NA    NA    0.0046   0.00079      0.00059
## bronx             NA    NA        NA        NA            NA
## manhattan    0.00460    NA        NA        NA            NA
## brooklyn     0.00079    NA        NA        NA            NA
## staten island 0.00059   NA        NA        NA            NA
##
```

```
## $borough$p.values$lr_ec_gov
##                bronx staten island manhattan brooklyn queens
## bronx             NA           NA        NA       NA 0.0036
## staten island     NA           NA        NA       NA     NA
## manhattan         NA           NA        NA       NA     NA
## brooklyn          NA           NA        NA       NA     NA
## queens        0.0036           NA        NA       NA     NA
##
## $borough$p.values$lr_ec_np
##               queens  bronx brooklyn manhattan staten island
## queens            NA     NA       NA   5.1e-06            NA
## bronx             NA     NA       NA   7.9e-03            NA
## brooklyn          NA     NA       NA   9.1e-03            NA
## manhattan    5.1e-06 0.0079   0.0091        NA            NA
## staten island     NA     NA       NA        NA            NA
##
##
##
## $gen
## $gen$plot
```
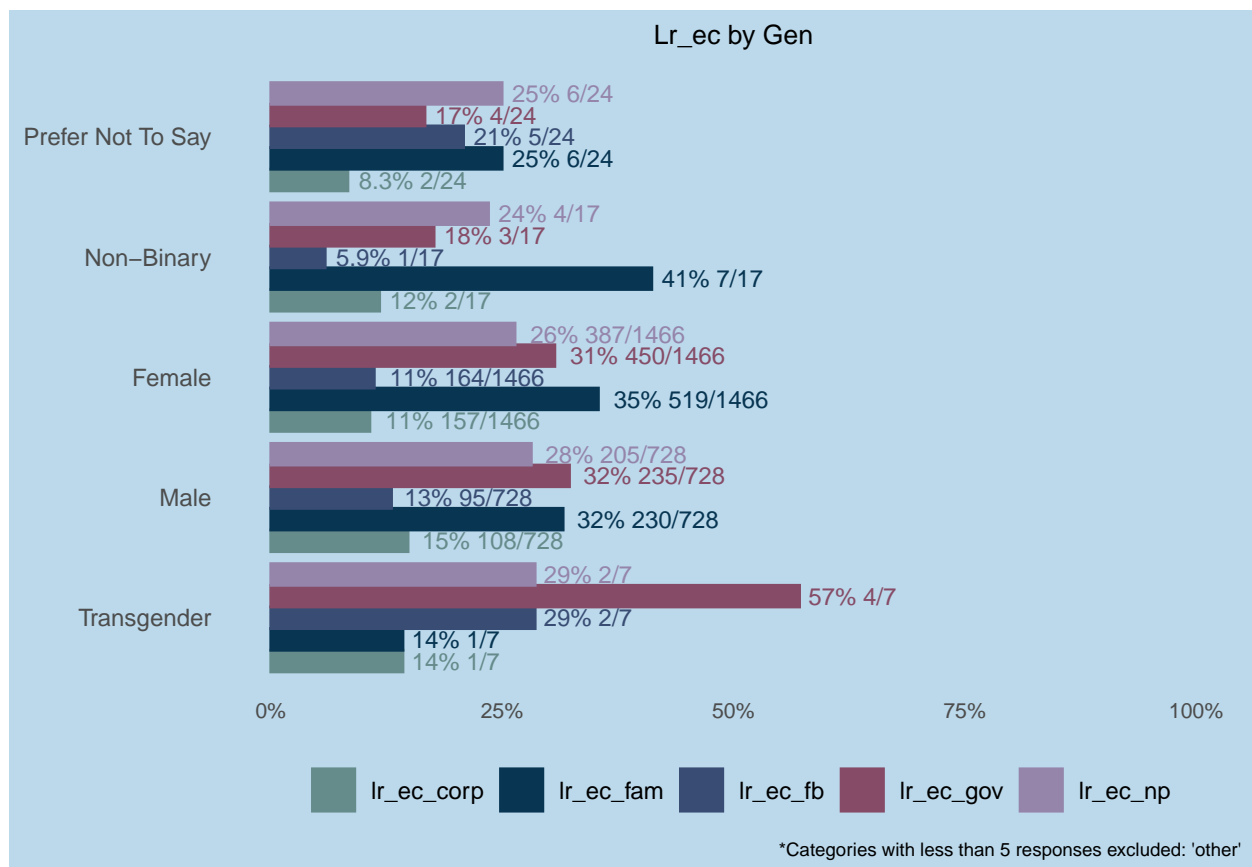


```
##
## $gen$p.values
## $gen$p.values$lr_ec_corp
##                  prefer not to say female non-binary transgender    male
```

```
## prefer not to say               NA   NA       NA       NA    NA
## female                           NA   NA       NA       NA 0.0065
## non-binary                       NA   NA       NA       NA    NA
## transgender                      NA   NA       NA       NA    NA
## male                             NA 0.0065     NA       NA    NA
##
## $gen$p.values$lr_ec_fam
##                 transgender prefer not to say male female non-binary
## transgender              NA                NA   NA     NA         NA
## prefer not to say        NA                NA   NA     NA         NA
## male                     NA                NA   NA     NA         NA
## female                   NA                NA   NA     NA         NA
## non-binary               NA                NA   NA     NA         NA
##
## $gen$p.values$lr_ec_fb
##                 non-binary female male prefer not to say transgender
## non-binary              NA     NA   NA                NA          NA
## female                  NA     NA   NA                NA          NA
## male                    NA     NA   NA                NA          NA
## prefer not to say       NA     NA   NA                NA          NA
## transgender             NA     NA   NA                NA          NA
##
## $gen$p.values$lr_ec_gov
##                 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   NA          NA
## male                           NA         NA     NA   NA          NA
## transgender                    NA         NA     NA   NA          NA
##
## $gen$p.values$lr_ec_np
##                 non-binary prefer not to say female male transgender
## non-binary              NA                NA     NA   NA          NA
## prefer not to say       NA                NA     NA   NA          NA
## female                  NA                NA     NA   NA          NA
## male                    NA                NA     NA   NA          NA
## transgender             NA                NA     NA   NA          NA
##
##
##
## $race_census
## $race_census$plot
```

Lr_ec by Race_census

Legend: lr_ec_corp, lr_ec_fam, lr_ec_fb, lr_ec_gov, lr_ec_np

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
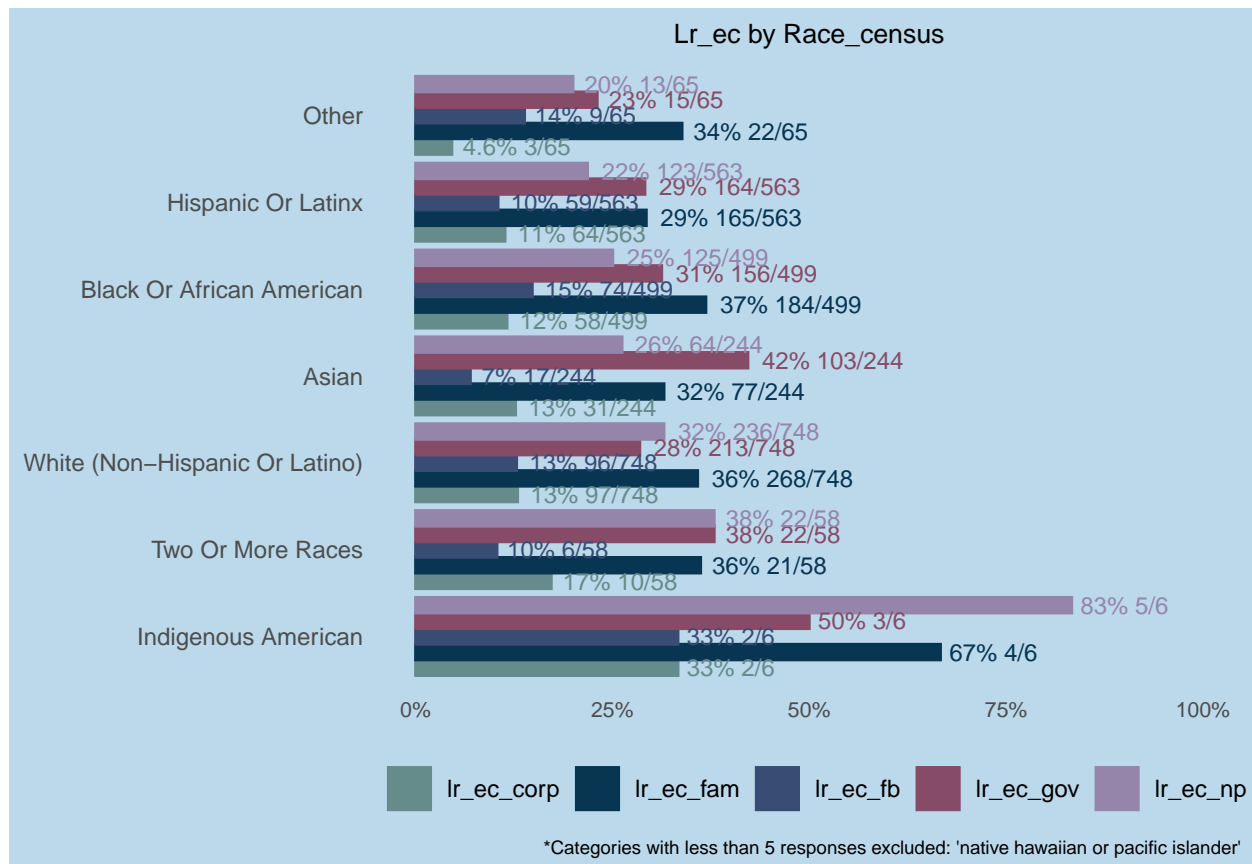
```
## 
## $race_census$p.values
## $race_census$p.values$lr_ec_corp
##                               other hispanic or latinx
## other                          NA                   NA
## hispanic or latinx             NA                   NA
## black or african american      NA                   NA
## asian                          NA                   NA
## white (non-hispanic or latino) NA                   NA
## two or more races              NA                   NA
## Indigenous American            NA                   NA
##                               black or african american asian
## other                                                NA    NA
## hispanic or latinx                                   NA    NA
## black or african american                            NA    NA
## asian                                                NA    NA
## white (non-hispanic or latino)                       NA    NA
## two or more races                                    NA    NA
## Indigenous American                                  NA    NA
##                               white (non-hispanic or latino) two or more races
## other                                                     NA                NA
## hispanic or latinx                                        NA                NA
## black or african american                                 NA                NA
## asian                                                     NA                NA
## white (non-hispanic or latino)                            NA                NA
## two or more races                                         NA                NA
```

```
## Indigenous American                                                NA              NA
##                                 Indigenous American
## other                                          NA
## hispanic or latinx                             NA
## black or african american                      NA
## asian                                          NA
## white (non-hispanic or latino)                 NA
## two or more races                              NA
## Indigenous American                            NA
##
## $race_census$p.values$lr_ec_fam
##                                 hispanic or latinx asian other
## hispanic or latinx                              NA    NA    NA
## asian                                           NA    NA    NA
## other                                           NA    NA    NA
## white (non-hispanic or latino)                  NA    NA    NA
## two or more races                               NA    NA    NA
## black or african american                       NA    NA    NA
## Indigenous American                             NA    NA    NA
##                                 white (non-hispanic or latino) two or more races
## hispanic or latinx                                          NA               NA
## asian                                                       NA               NA
## other                                                       NA               NA
## white (non-hispanic or latino)                              NA               NA
## two or more races                                           NA               NA
## black or african american                                   NA               NA
## Indigenous American                                         NA               NA
##                                 black or african american Indigenous American
## hispanic or latinx                                     NA                  NA
## asian                                                  NA                  NA
## other                                                  NA                  NA
## white (non-hispanic or latino)                         NA                  NA
## two or more races                                      NA                  NA
## black or african american                              NA                  NA
## Indigenous American                                    NA                  NA
##
## $race_census$p.values$lr_ec_fb
##                                  asian two or more races hispanic or latinx
## asian                               NA               NA                 NA
## two or more races                   NA               NA                 NA
## hispanic or latinx                  NA               NA                 NA
## white (non-hispanic or latino)      NA               NA                 NA
## other                               NA               NA                 NA
## black or african american       0.0032               NA                 NA
## Indigenous American                 NA               NA                 NA
##                                 white (non-hispanic or latino) other
## asian                                                       NA    NA
## two or more races                                           NA    NA
## hispanic or latinx                                          NA    NA
## white (non-hispanic or latino)                              NA    NA
## other                                                       NA    NA
## black or african american                                   NA    NA
## Indigenous American                                         NA    NA
##                                 black or african american Indigenous American
```

```
## asian                                         0.0032                NA
## two or more races                                 NA                NA
## hispanic or latinx                                NA                NA
## white (non-hispanic or latino)                    NA                NA
## other                                             NA                NA
## black or african american                         NA                NA
## Indigenous American                               NA                NA
##
## $race_census$p.values$lr_ec_gov
##                                 other white (non-hispanic or latino)
## other                             NA                              NA
## white (non-hispanic or latino)    NA                              NA
## hispanic or latinx                NA                              NA
## black or african american         NA                              NA
## two or more races                 NA                              NA
## asian                         0.0074                          8.8e-05
## Indigenous American               NA                              NA
##                                 hispanic or latinx black or african american
## other                                           NA                        NA
## white (non-hispanic or latino)                  NA                        NA
## hispanic or latinx                              NA                        NA
## black or african american                       NA                        NA
## two or more races                               NA                        NA
## asian                                      0.00039                    0.0042
## Indigenous American                             NA                        NA
##                                 two or more races   asian Indigenous American
## other                                          NA 7.4e-03                  NA
## white (non-hispanic or latino)                 NA 8.8e-05                  NA
## hispanic or latinx                             NA 3.9e-04                  NA
## black or african american                      NA 4.2e-03                  NA
## two or more races                              NA      NA                  NA
## asian                                          NA      NA                  NA
## Indigenous American                            NA      NA                  NA
##
## $race_census$p.values$lr_ec_np
##                                 other hispanic or latinx
## other                             NA                 NA
## hispanic or latinx                NA                 NA
## black or african american         NA                 NA
## asian                             NA                 NA
## white (non-hispanic or latino)    NA            0.00012
## two or more races                 NA            0.00950
## Indigenous American               NA                 NA
##                                 black or african american asian
## other                                                  NA    NA
## hispanic or latinx                                     NA    NA
## black or african american                              NA    NA
## asian                                                  NA    NA
## white (non-hispanic or latino)                         NA    NA
## two or more races                                      NA    NA
## Indigenous American                                    NA    NA
##                                 white (non-hispanic or latino) two or more races
## other                                                       NA                NA
## hispanic or latinx                                     0.00012            0.0095
```
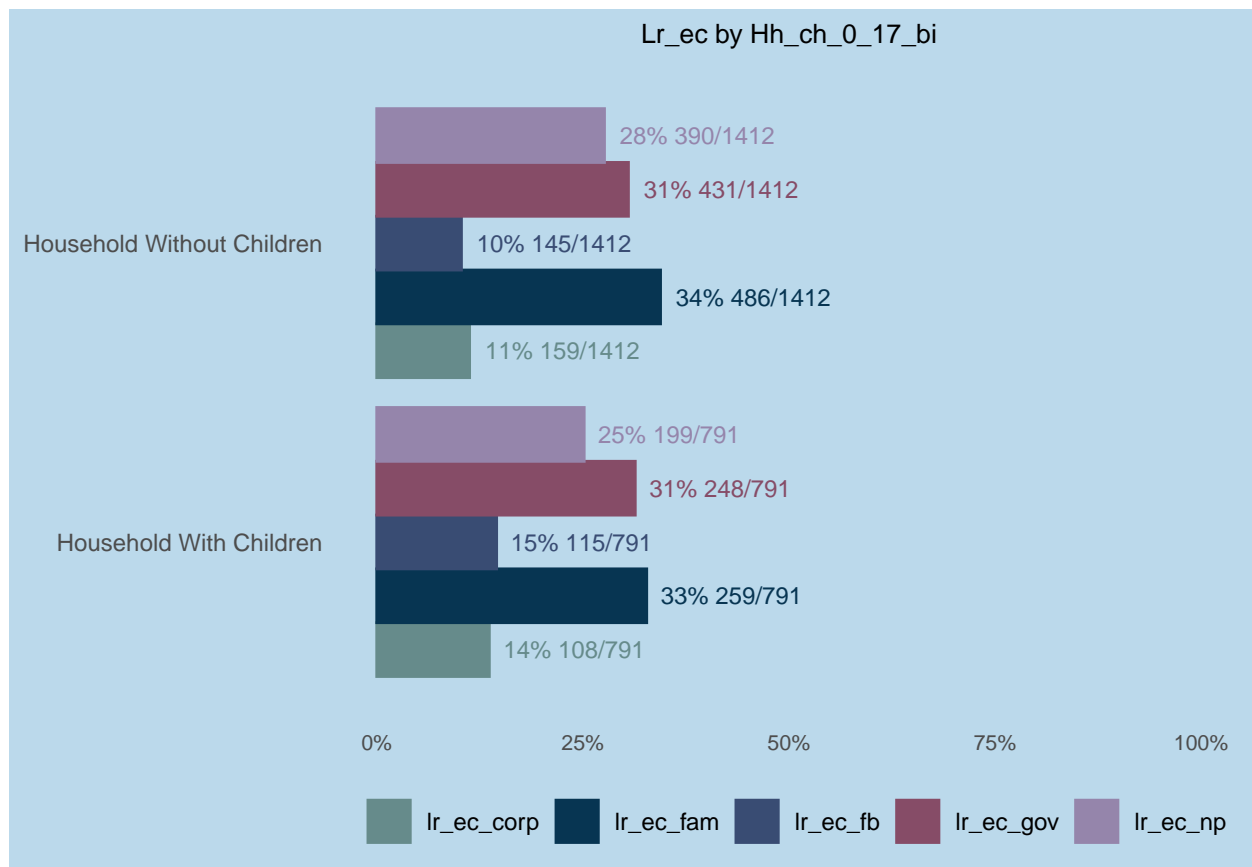
```
## black or african american                                    NA              NA
## asian                                                         NA              NA
## white (non-hispanic or latino)                                NA              NA
## two or more races                                             NA              NA
## Indigenous American                                           NA              NA
##                                     Indigenous American
## other                                              NA
## hispanic or latinx                                 NA
## black or african american                          NA
## asian                                              NA
## white (non-hispanic or latino)                     NA
## two or more races                                  NA
## Indigenous American                                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$lr_ec_corp
##                              household without children household with children
## household without children                         NA                       NA
## household with children                            NA                       NA
```

```
## 
## $hh_ch_0_17_bi$p.values$lr_ec_fam
##                           household with children household without children
## household with children                        NA                         NA
## household without children                     NA                         NA
## 
## $hh_ch_0_17_bi$p.values$lr_ec_fb
##                           household without children household with children
## household without children                        NA                  0.0036
## household with children                       0.0036                      NA
## 
## $hh_ch_0_17_bi$p.values$lr_ec_gov
##                           household without children household with children
## household without children                        NA                      NA
## household with children                           NA                      NA
## 
## $hh_ch_0_17_bi$p.values$lr_ec_np
##                           household with children household without children
## household with children                        NA                         NA
## household without children                     NA                         NA
## 
## 
## 
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```
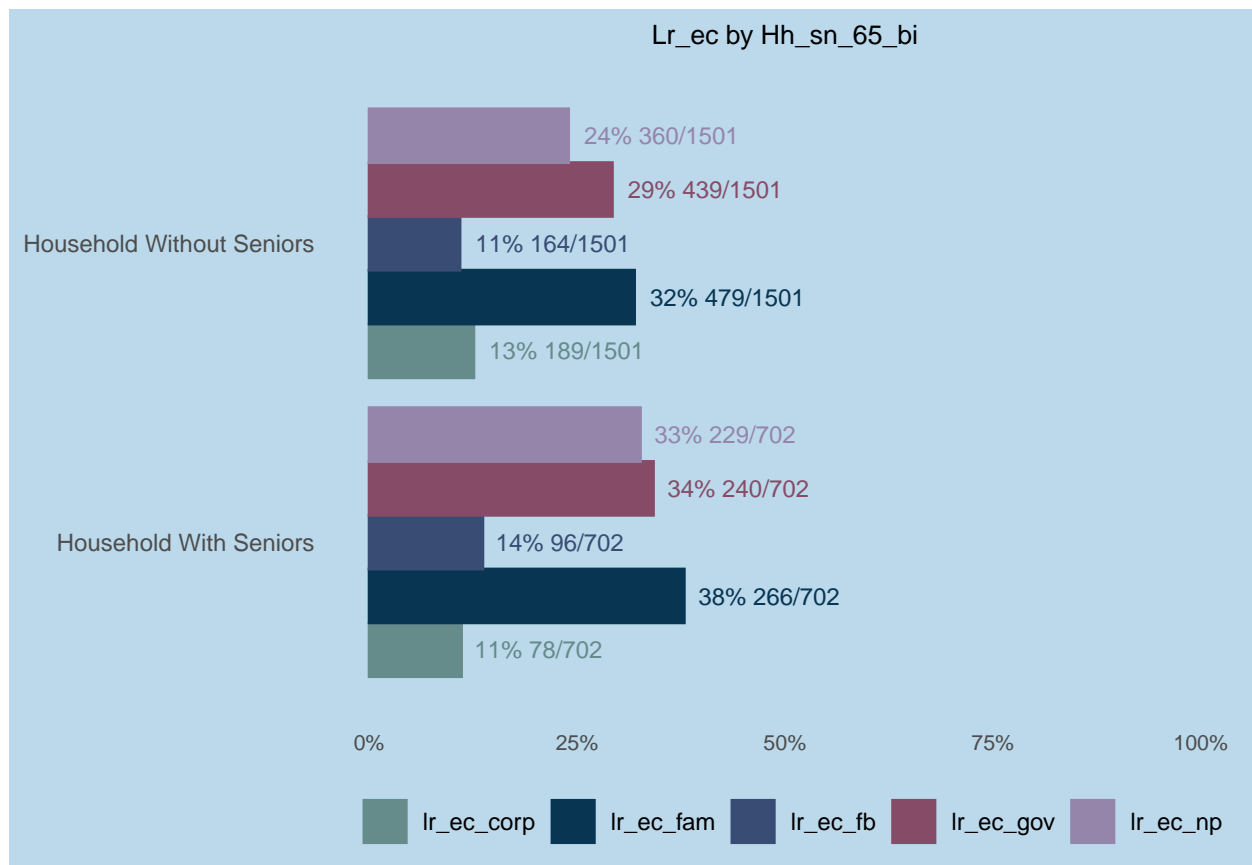
```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_ec_corp
##                          household with seniors household without seniors
## household with seniors                       NA                       NA
## household without seniors                    NA                       NA
##
## $hh_sn_65_bi$p.values$lr_ec_fam
##                          household without seniors household with seniors
## household without seniors                       NA                 0.0066
## household with seniors                      0.0066                     NA
##
## $hh_sn_65_bi$p.values$lr_ec_fb
##                          household without seniors household with seniors
## household without seniors                       NA                     NA
## household with seniors                          NA                     NA
##
## $hh_sn_65_bi$p.values$lr_ec_gov
##                          household without seniors household with seniors
## household without seniors                       NA                     NA
## household with seniors                          NA                     NA
##
## $hh_sn_65_bi$p.values$lr_ec_np
##                          household without seniors household with seniors
## household without seniors                       NA                 2.5e-05
## household with seniors                     2.5e-05                     NA
##
##
##
## $inc_dist
## $inc_dist$plot
```

Lr_ec by Inc_dist
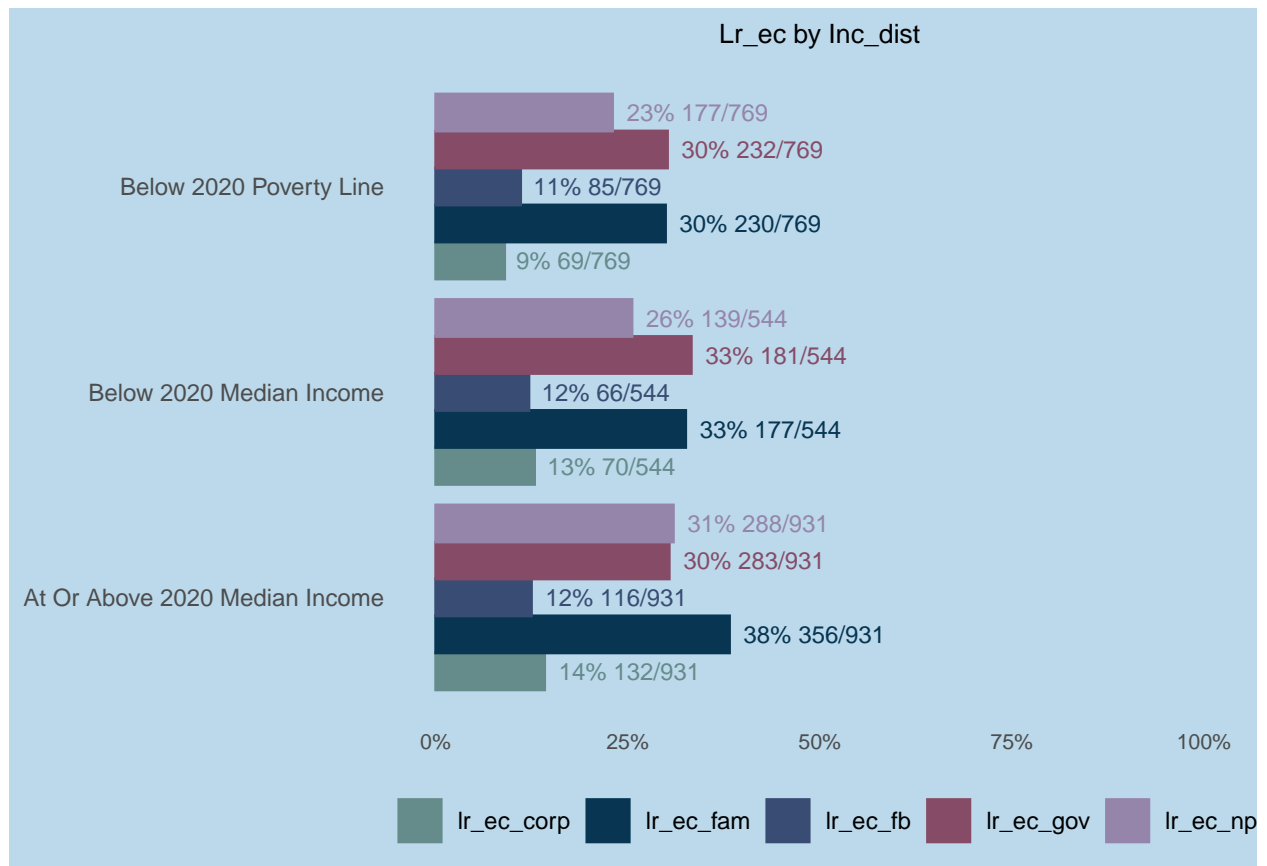
```
##
## $inc_dist$p.values
## $inc_dist$p.values$lr_ec_corp
##                                below 2020 poverty line below 2020 median income
## below 2020 poverty line                            NA                        NA
## below 2020 median income                           NA                        NA
## at or above 2020 median income                 0.0012                        NA
##                                at or above 2020 median income
## below 2020 poverty line                                  0.0012
## below 2020 median income                                     NA
## at or above 2020 median income                               NA
##
## $inc_dist$p.values$lr_ec_fam
##                                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                0.00039                        NA
##                                at or above 2020 median income
## below 2020 poverty line                                 0.00039
## below 2020 median income                                     NA
## at or above 2020 median income                               NA
##
## $inc_dist$p.values$lr_ec_fb
##                                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                                 NA                       NA
##                                  at or above 2020 median income
## below 2020 poverty line                                NA
## below 2020 median income                               NA
## at or above 2020 median income                         NA
##
## $inc_dist$p.values$lr_ec_gov
##                                  below 2020 poverty line
## below 2020 poverty line                              NA
## at or above 2020 median income                       NA
## below 2020 median income                             NA
##                                  at or above 2020 median income
## below 2020 poverty line                                NA
## at or above 2020 median income                         NA
## below 2020 median income                               NA
##                                  below 2020 median income
## below 2020 poverty line                               NA
## at or above 2020 median income                        NA
## below 2020 median income                              NA
##
## $inc_dist$p.values$lr_ec_np
##                                  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                  0.00033                       NA
##                                  at or above 2020 median income
## below 2020 poverty line                              0.00033
## below 2020 median income                                  NA
## at or above 2020 median income                           NA
```

```r
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_food_corp", "lr_food_fam", "lr_food_fb", ")
```

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

Lr_food by Borough
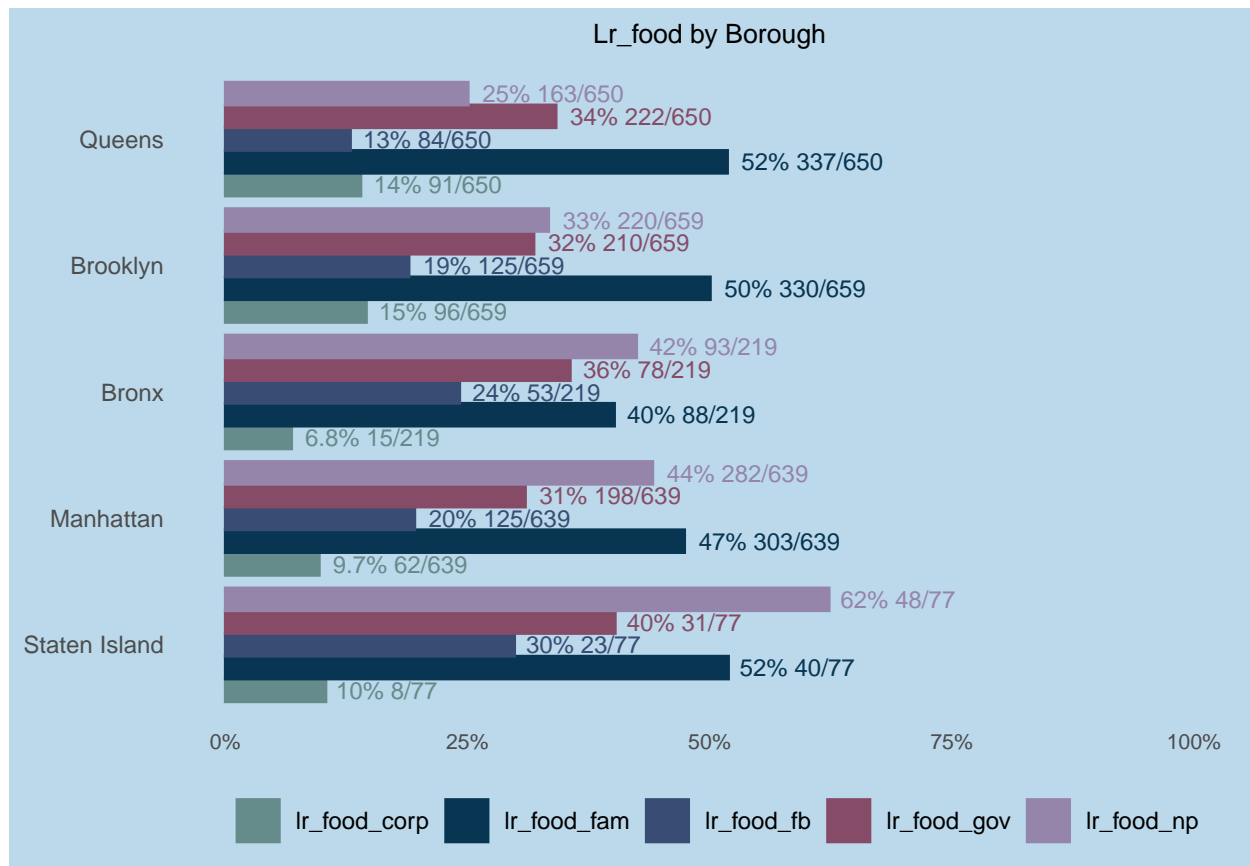
```
##
## $borough$p.values
## $borough$p.values$lr_food_corp
##                 bronx manhattan staten island queens brooklyn
## bronx              NA        NA            NA 0.0074   0.0042
## manhattan          NA        NA            NA     NA   0.0095
## staten island      NA        NA            NA     NA       NA
## queens         0.0074        NA            NA     NA       NA
## brooklyn       0.0042    0.0095            NA     NA       NA
##
## $borough$p.values$lr_food_fam
##                 bronx manhattan brooklyn queens staten island
## bronx              NA        NA       NA 0.0036            NA
## manhattan          NA        NA       NA     NA            NA
## brooklyn           NA        NA       NA     NA            NA
## queens         0.0036        NA       NA     NA            NA
## staten island      NA        NA       NA     NA            NA
##
## $borough$p.values$lr_food_fb
##                queens brooklyn manhattan   bronx staten island
## queens             NA   0.0036    0.0016 0.00012       0.00015
## brooklyn       0.00360       NA        NA      NA            NA
## manhattan      0.00160       NA        NA      NA            NA
## bronx          0.00012       NA        NA      NA            NA
## staten island  0.00015       NA        NA      NA            NA
##
```

```
## $borough$p.values$lr_food_gov
##               manhattan brooklyn queens bronx staten island
## manhattan            NA       NA     NA    NA            NA
## brooklyn             NA       NA     NA    NA            NA
## queens               NA       NA     NA    NA            NA
## bronx                NA       NA     NA    NA            NA
## staten island        NA       NA     NA    NA            NA
##
## $borough$p.values$lr_food_np
##               queens brooklyn   bronx manhattan staten island
## queens            NA  1.2e-03 1.6e-06   9.6e-13       2.4e-11
## brooklyn     1.2e-03       NA      NA   8.9e-05       1.1e-06
## bronx        1.6e-06       NA      NA        NA       4.1e-03
## manhattan    9.6e-13  8.9e-05      NA        NA       3.7e-03
## staten island 2.4e-11 1.1e-06 4.1e-03   3.7e-03            NA
##
##
##
## $gen
## $gen$plot
```
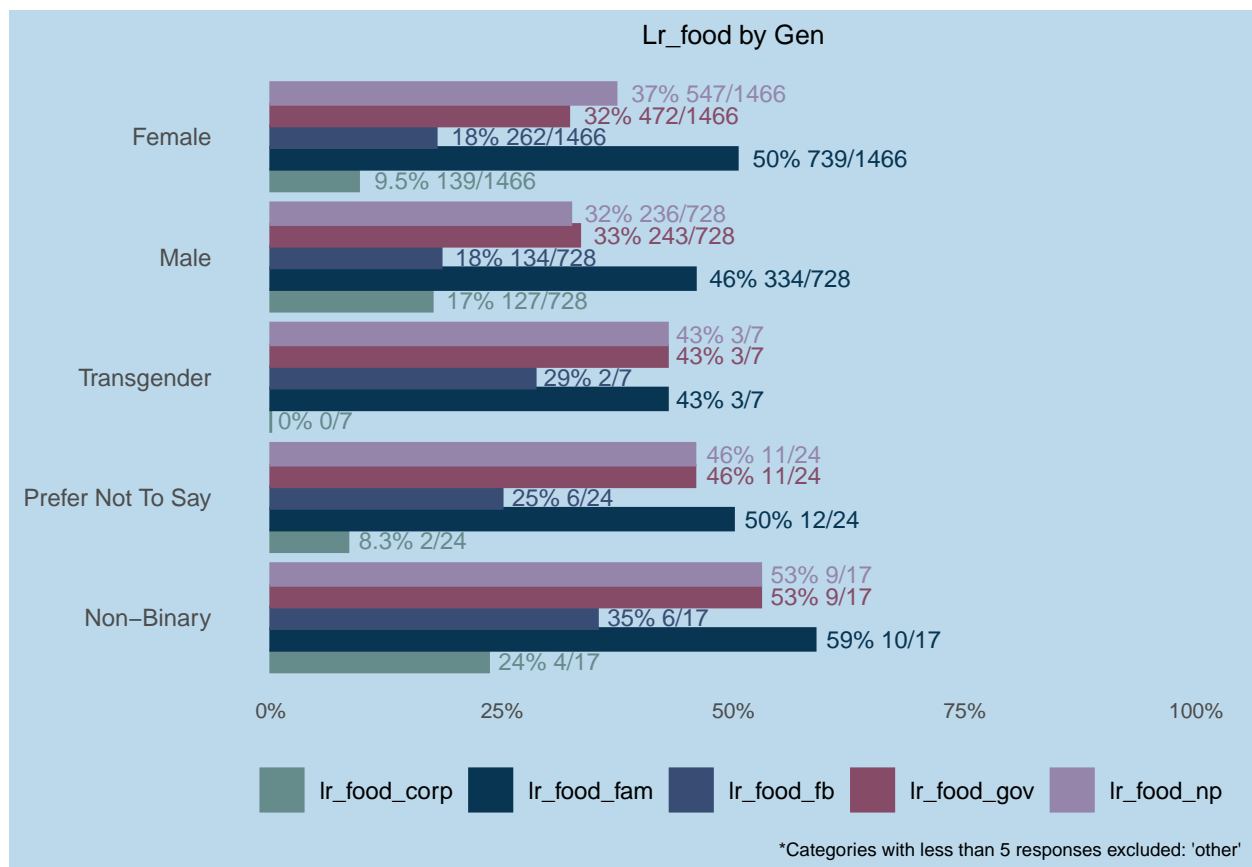


```
##
## $gen$p.values
## $gen$p.values$lr_food_corp
##                 transgender prefer not to say  female     male non-binary
```

```
## transgender            NA            NA    NA    NA        NA
## prefer not to say       NA            NA    NA    NA        NA
## female                  NA            NA    NA 1.1e-07       NA
## male                    NA            NA 1.1e-07   NA        NA
## non-binary              NA            NA    NA    NA        NA
##
## $gen$p.values$lr_food_fam
##                 transgender male prefer not to say female non-binary
## transgender              NA   NA                NA     NA         NA
## male                     NA   NA                NA     NA         NA
## prefer not to say        NA   NA                NA     NA         NA
## female                   NA   NA                NA     NA         NA
## non-binary               NA   NA                NA     NA         NA
##
## $gen$p.values$lr_food_fb
##                 female male prefer not to say transgender non-binary
## female              NA   NA                NA          NA         NA
## male                NA   NA                NA          NA         NA
## prefer not to say   NA   NA                NA          NA         NA
## transgender         NA   NA                NA          NA         NA
## non-binary          NA   NA                NA          NA         NA
##
## $gen$p.values$lr_food_gov
##                 female male transgender prefer not to say non-binary
## female              NA   NA          NA                NA         NA
## male                NA   NA          NA                NA         NA
## transgender         NA   NA          NA                NA         NA
## prefer not to say   NA   NA          NA                NA         NA
## non-binary          NA   NA          NA                NA         NA
##
## $gen$p.values$lr_food_np
##                 male female transgender prefer not to say non-binary
## male                NA   NA          NA                NA         NA
## female              NA   NA          NA                NA         NA
## transgender         NA   NA          NA                NA         NA
## prefer not to say   NA   NA          NA                NA         NA
## non-binary          NA   NA          NA                NA         NA
##
##
##
## $race_census
## $race_census$plot
```

Lr_food by Race_census

| | |
|---|---|
| Asian | 27% 65/244 / 32% 79/244 / 9% 22/244 / 49% 119/244 / 18% 43/244 |
| Black Or African American | 30% 152/499 / 34% 170/499 / 19% 96/499 / 51% 253/499 / 11% 53/499 |
| White (Non–Hispanic Or Latino) | 40% 300/748 / 28% 206/748 / 18% 135/748 / 49% 369/748 / 12% 88/748 |
| Hispanic Or Latinx | 38% 216/563 / 36% 205/563 / 21% 116/563 / 44% 249/563 / 12% 65/563 |
| Other | 37% 24/65 / 37% 24/65 / 18% 12/65 / 63% 41/65 / 9.2% 6/65 |
| Two Or More Races | 48% 28/58 / 52% 30/58 / 31% 18/58 / 60% 35/58 / 17% 10/58 |
| Indigenous American | 67% 4/6 / 50% 3/6 / 67% 4/6 / 67% 4/6 / 17% 1/6 |

Legend: lr_food_corp, lr_food_fam, lr_food_fb, lr_food_gov, lr_food

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

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

```
## asian                                                      NA
##                             Indigenous American two or more races asian
## other                                      NA               NA    NA
## black or african american                 NA               NA    NA
## hispanic or latinx                         NA               NA    NA
## white (non-hispanic or latino)            NA               NA    NA
## Indigenous American                        NA               NA    NA
## two or more races                          NA               NA    NA
## asian                                      NA               NA    NA
##
## $race_census$p.values$lr_food_fam
##                                hispanic or latinx asian
## hispanic or latinx                           NA    NA
## asian                                        NA    NA
## white (non-hispanic or latino)               NA    NA
## black or african american                    NA    NA
## two or more races                            NA    NA
## other                                    0.0059    NA
## Indigenous American                          NA    NA
##                                white (non-hispanic or latino)
## hispanic or latinx                                        NA
## asian                                                     NA
## white (non-hispanic or latino)                            NA
## black or african american                                NA
## two or more races                                         NA
## other                                                     NA
## Indigenous American                                       NA
##                                black or african american two or more races
## hispanic or latinx                                    NA                NA
## asian                                                 NA                NA
## white (non-hispanic or latino)                        NA                NA
## black or african american                             NA                NA
## two or more races                                     NA                NA
## other                                                 NA                NA
## Indigenous American                                   NA                NA
##                                other Indigenous American
## hispanic or latinx            0.0059                  NA
## asian                             NA                  NA
## white (non-hispanic or latino)    NA                  NA
## black or african american         NA                  NA
## two or more races                 NA                  NA
## other                             NA                  NA
## Indigenous American               NA                  NA
##
## $race_census$p.values$lr_food_fb
##                                 asian white (non-hispanic or latino) other
## asian                              NA                         0.0011    NA
## white (non-hispanic or latino) 1.1e-03                            NA    NA
## other                              NA                            NA    NA
## black or african american      5.1e-04                            NA    NA
## hispanic or latinx             9.1e-05                            NA    NA
## two or more races              2.3e-05                            NA    NA
## Indigenous American                NA                            NA    NA
##                                black or african american hispanic or latinx
```

```
## asian                                       0.00051               9.1e-05
## white (non-hispanic or latino)                   NA                    NA
## other                                            NA                    NA
## black or african american                        NA                    NA
## hispanic or latinx                               NA                    NA
## two or more races                                NA                    NA
## Indigenous American                              NA                    NA
##                                  two or more races Indigenous American
## asian                                       2.3e-05                  NA
## white (non-hispanic or latino)                   NA                  NA
## other                                            NA                  NA
## black or african american                        NA                  NA
## hispanic or latinx                               NA                  NA
## two or more races                                NA                  NA
## Indigenous American                              NA                  NA
##
## $race_census$p.values$lr_food_gov
##                                white (non-hispanic or latino)  asian
## white (non-hispanic or latino)                             NA     NA
## asian                                                      NA     NA
## black or african american                                 NA     NA
## hispanic or latinx                                    0.00076     NA
## other                                                      NA     NA
## Indigenous American                                        NA     NA
## two or more races                                     0.00018 0.0092
##                                black or african american hispanic or latinx
## white (non-hispanic or latino)                        NA            0.00076
## asian                                                 NA                 NA
## black or african american                             NA                 NA
## hispanic or latinx                                    NA                 NA
## other                                                 NA                 NA
## Indigenous American                                   NA                 NA
## two or more races                                     NA                 NA
##                                other Indigenous American two or more races
## white (non-hispanic or latino)    NA                  NA           0.00018
## asian                             NA                  NA           0.00920
## 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
##
## $race_census$p.values$lr_food_np
##                                 asian black or african american other
## asian                              NA                         NA    NA
## black or african american          NA                         NA    NA
## other                              NA                         NA    NA
## hispanic or latinx            0.00170                    0.00840    NA
## white (non-hispanic or latino) 0.00021                   0.00065    NA
## two or more races             0.00230                    0.00940    NA
## Indigenous American                NA                         NA    NA
##                                hispanic or latinx
## asian                                      0.0017
## black or african american                  0.0084
```

34

```
## other                                                      NA
## hispanic or latinx                                         NA
## white (non-hispanic or latino)                             NA
## two or more races                                          NA
## Indigenous American                                        NA
##                              white (non-hispanic or latino) two or more races
## asian                                           0.00021            0.0023
## black or african american                       0.00065            0.0094
## other                                                NA                NA
## hispanic or latinx                                   NA                NA
## white (non-hispanic or latino)                       NA                NA
## two or more races                                    NA                NA
## Indigenous American                                  NA                NA
##                              Indigenous American
## asian                                        NA
## black or african american                    NA
## other                                        NA
## hispanic or latinx                           NA
## white (non-hispanic or latino)               NA
## two or more races                            NA
## Indigenous American                          NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
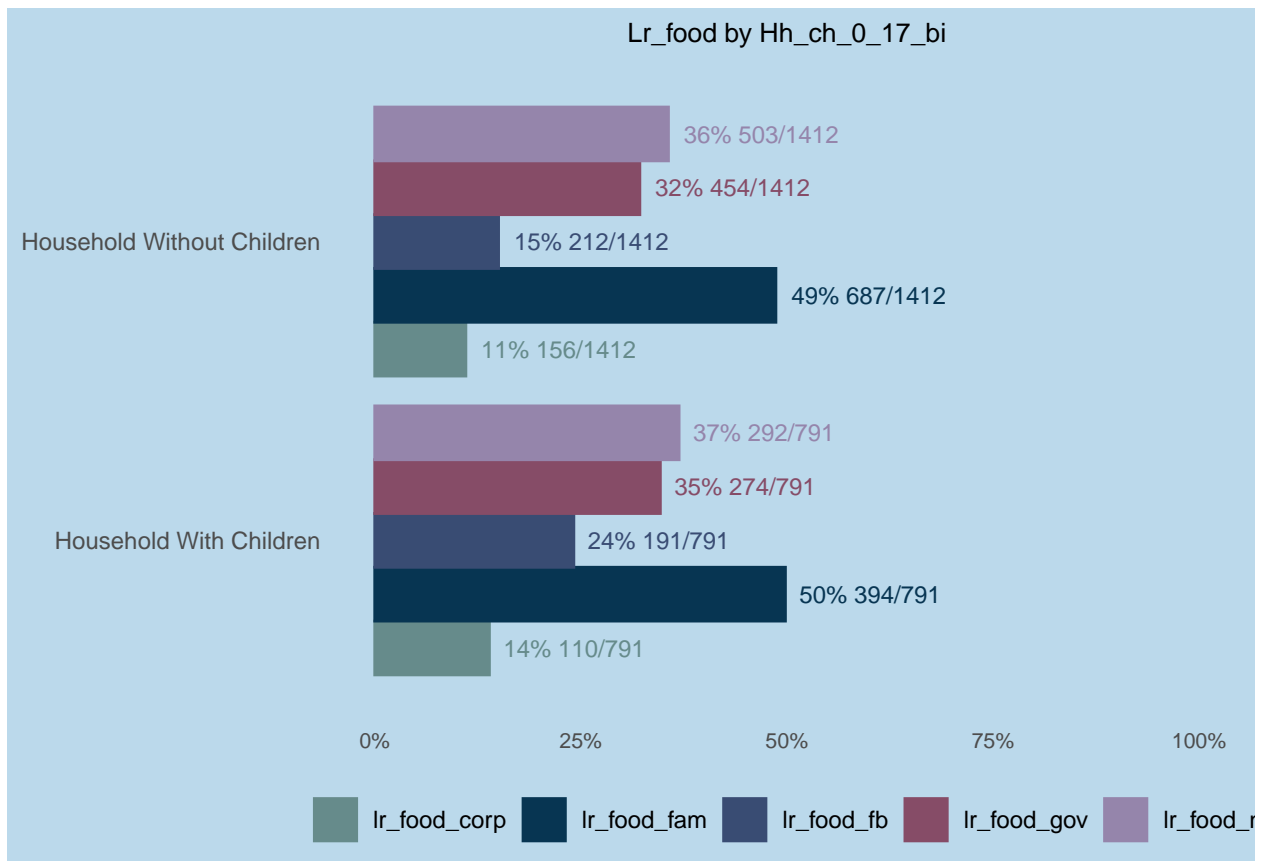


Lr_food by Hh_ch_0_17_bi

```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$lr_food_corp
##                             household without children household with children
## household without children                       NA                       NA
## household with children                          NA                       NA
##
## $hh_ch_0_17_bi$p.values$lr_food_fam
##                             household without children household with children
## household without children                       NA                       NA
## household with children                          NA                       NA
##
## $hh_ch_0_17_bi$p.values$lr_food_fb
##                             household without children household with children
## household without children                       NA                   1.4e-07
## household with children                     1.4e-07                       NA
##
## $hh_ch_0_17_bi$p.values$lr_food_gov
##                             household without children household with children
## household without children                       NA                       NA
## household with children                          NA                       NA
##
## $hh_ch_0_17_bi$p.values$lr_food_np
##                             household without children household with children
## household without children                       NA                       NA
## household with children                          NA                       NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```

Lr_food by Hh_sn_65_bi

Household With Seniors
- 38% 269/702
- 28% 199/702
- 16% 114/702
- 48% 340/702
- 9.3% 65/702

Household Without Seniors
- 35% 526/1501
- 35% 529/1501
- 19% 289/1501
- 49% 741/1501
- 13% 201/1501

Legend: lr_food_corp, lr_food_fam, lr_food_fb, lr_food_gov, lr_food_n
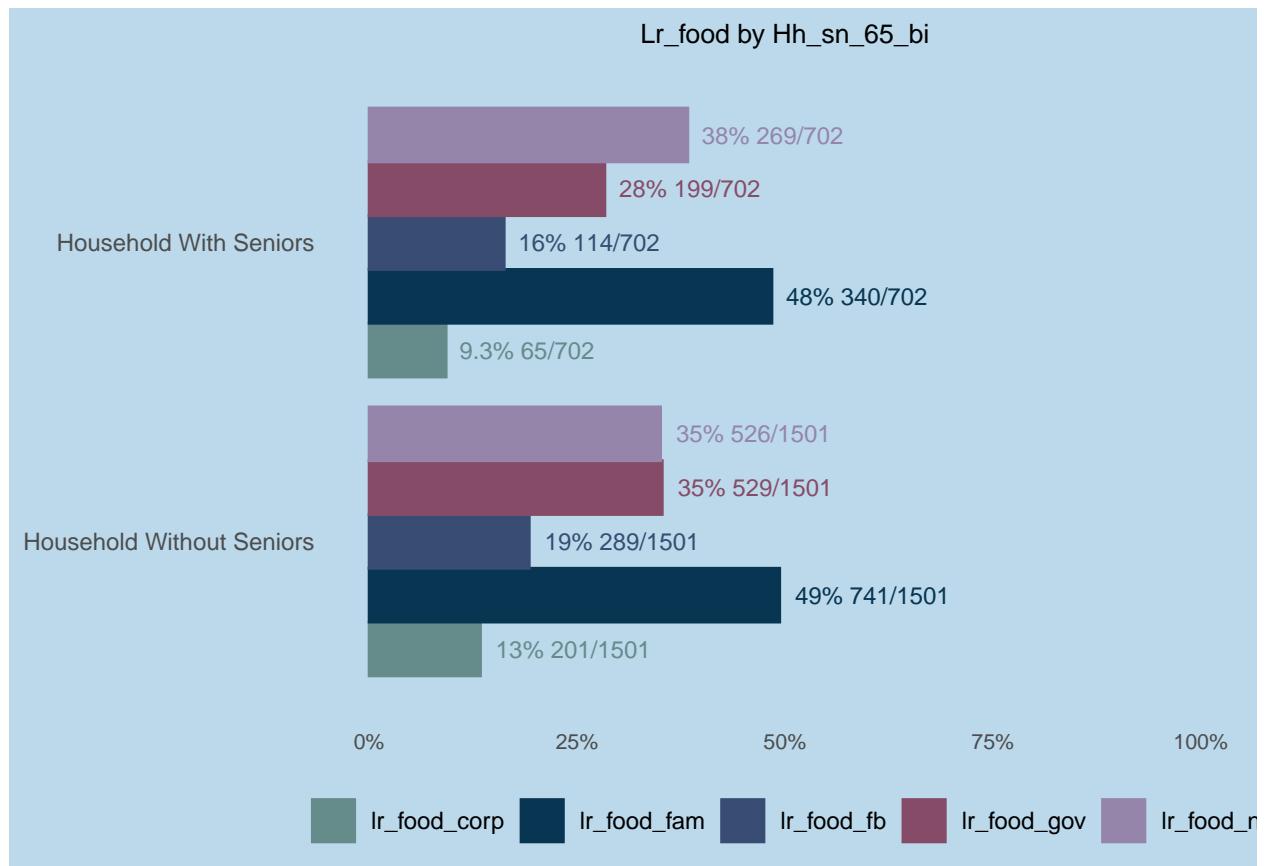
```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_food_corp
##                            household with seniors household without seniors
## household with seniors                        NA                    0.0069
## household without seniors                 0.0069                        NA
##
## $hh_sn_65_bi$p.values$lr_food_fam
##                            household with seniors household without seniors
## household with seniors                        NA                        NA
## household without seniors                     NA                        NA
##
## $hh_sn_65_bi$p.values$lr_food_fb
##                            household with seniors household without seniors
## household with seniors                        NA                        NA
## household without seniors                     NA                        NA
##
## $hh_sn_65_bi$p.values$lr_food_gov
##                            household with seniors household without seniors
## household with seniors                        NA                    0.0016
## household without seniors                 0.0016                        NA
##
## $hh_sn_65_bi$p.values$lr_food_np
##                            household without seniors household with seniors
## household without seniors                        NA                        NA
## household with seniors                           NA                        NA
```

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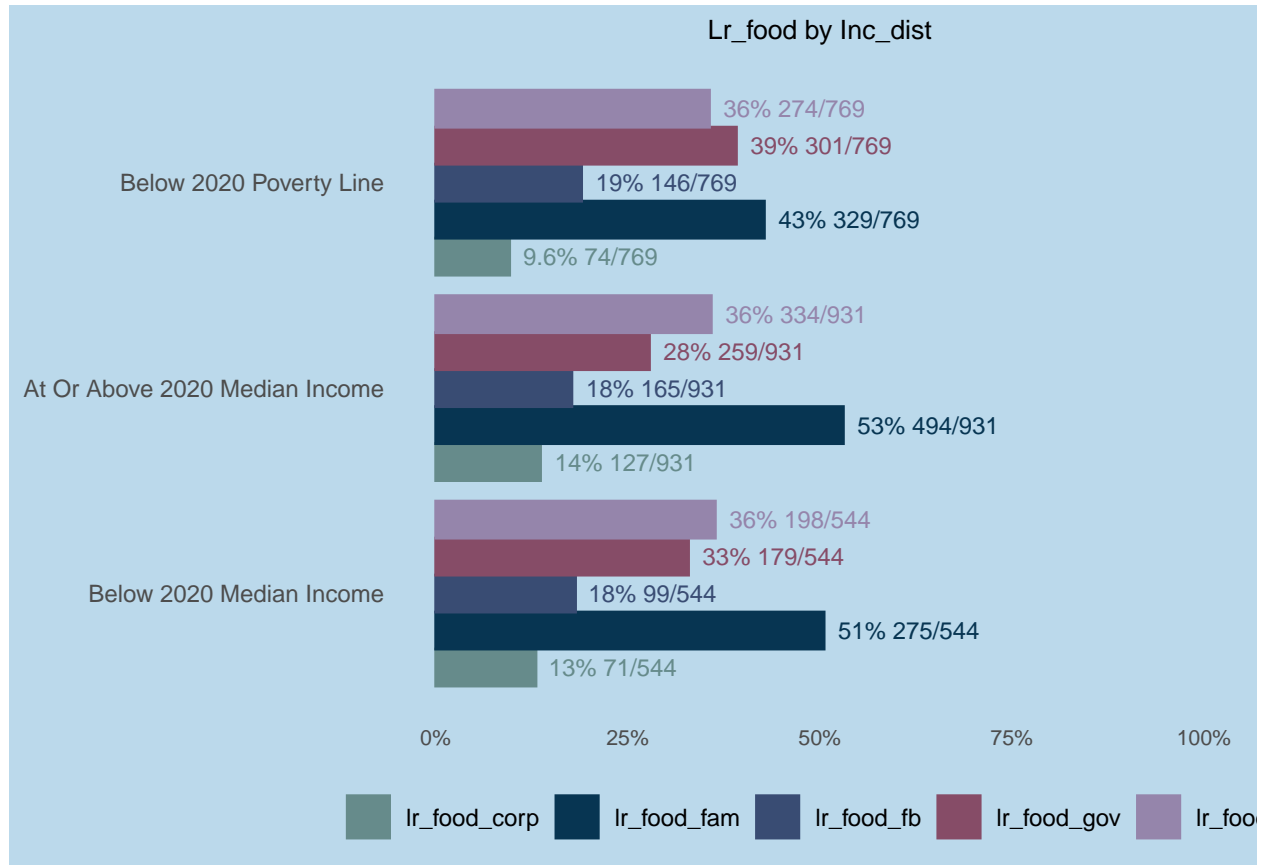


```
##
## $inc_dist$p.values
## $inc_dist$p.values$lr_food_corp
##                               below 2020 poverty line below 2020 median income
## below 2020 poverty line                            NA                       NA
## below 2020 median income                           NA                       NA
## at or above 2020 median income                     NA                       NA
##                               at or above 2020 median income
## below 2020 poverty line                                   NA
## below 2020 median income                                  NA
## at or above 2020 median income                            NA
##
## $inc_dist$p.values$lr_food_fam
##                               below 2020 poverty line below 2020 median income
## below 2020 poverty line                            NA                   0.0064
## below 2020 median income                      0.00640                       NA
## at or above 2020 median income                0.00003                       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
##
## $inc_dist$p.values$lr_food_fb
##                                 at or above 2020 median income
## at or above 2020 median income                             NA
## below 2020 median income                                   NA
## below 2020 poverty line                                    NA
##                                 below 2020 median income below 2020 poverty line
## at or above 2020 median income                       NA                       NA
## below 2020 median income                             NA                       NA
## below 2020 poverty line                              NA                       NA
##
## $inc_dist$p.values$lr_food_gov
##                                 at or above 2020 median income
## at or above 2020 median income                             NA
## below 2020 median income                                   NA
## below 2020 poverty line                                 1e-06
##                                 below 2020 median income below 2020 poverty line
## at or above 2020 median income                       NA                    1e-06
## below 2020 median income                             NA                       NA
## below 2020 poverty line                              NA                       NA
##
## $inc_dist$p.values$lr_food_np
##                                 below 2020 poverty line
## below 2020 poverty line                             NA
## at or above 2020 median income                      NA
## below 2020 median income                            NA
##                                 at or above 2020 median income
## below 2020 poverty line                                    NA
## at or above 2020 median income                             NA
## below 2020 median income                                   NA
##                                 below 2020 median income
## below 2020 poverty line                             NA
## at or above 2020 median income                      NA
## below 2020 median income                            NA
```

```r
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_hc_corp", "lr_hc_fam", "lr_hc_fb", "lr_hc_
```

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

Lr_hc by Borough
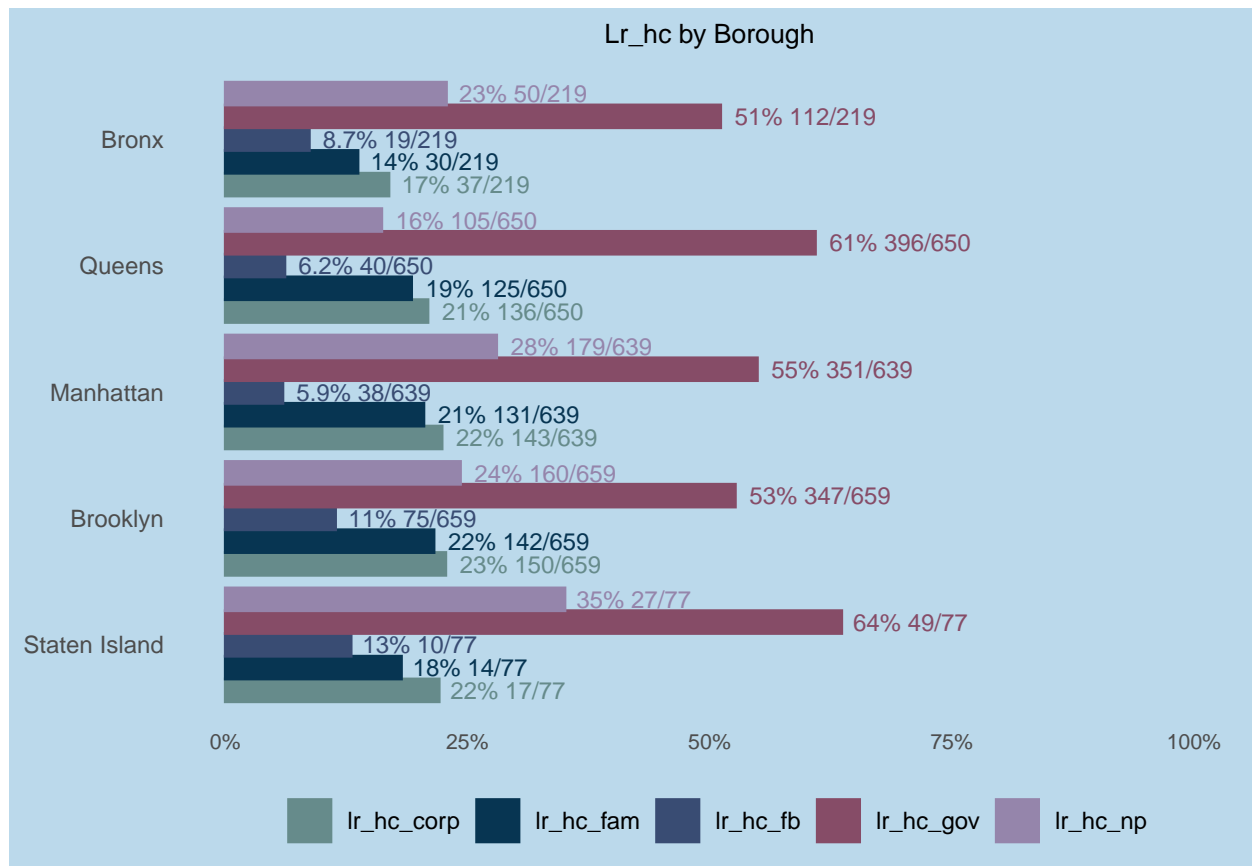
## 
## $borough$p.values
## $borough$p.values$lr_hc_corp
##                bronx queens staten island manhattan brooklyn
## bronx            NA    NA         NA        NA        NA
## queens           NA    NA         NA        NA        NA
## staten island    NA    NA         NA        NA        NA
## manhattan        NA    NA         NA        NA        NA
## brooklyn         NA    NA         NA        NA        NA
## 
## $borough$p.values$lr_hc_fam
##                bronx staten island queens manhattan brooklyn
## bronx            NA         NA       NA     NA        NA
## staten island    NA         NA       NA     NA        NA
## queens           NA         NA       NA     NA        NA
## manhattan        NA         NA       NA     NA        NA
## brooklyn         NA         NA       NA     NA        NA
## 
## $borough$p.values$lr_hc_fb
##                manhattan queens bronx brooklyn staten island
## manhattan          NA      NA     NA   0.00074       NA
## queens             NA      NA     NA   0.00120       NA
## bronx              NA      NA     NA     NA         NA
## brooklyn       0.00074 0.0012   NA     NA         NA
## staten island      NA      NA     NA     NA         NA
## 

40

```
## $borough$p.values$lr_hc_gov
##               bronx brooklyn manhattan queens staten island
## bronx            NA       NA        NA     NA            NA
## brooklyn         NA       NA        NA  0.003            NA
## manhattan        NA       NA        NA     NA            NA
## queens           NA    0.003        NA     NA            NA
## staten island    NA       NA        NA     NA            NA
##
## $borough$p.values$lr_hc_np
##                queens bronx brooklyn manhattan staten island
## queens             NA    NA  0.00033      4e-07       9.1e-05
## bronx              NA    NA       NA         NA            NA
## brooklyn      3.3e-04    NA       NA         NA            NA
## manhattan     4.0e-07    NA       NA         NA            NA
## staten island 9.1e-05    NA       NA         NA            NA
##
##
##
## $gen
## $gen$plot
```
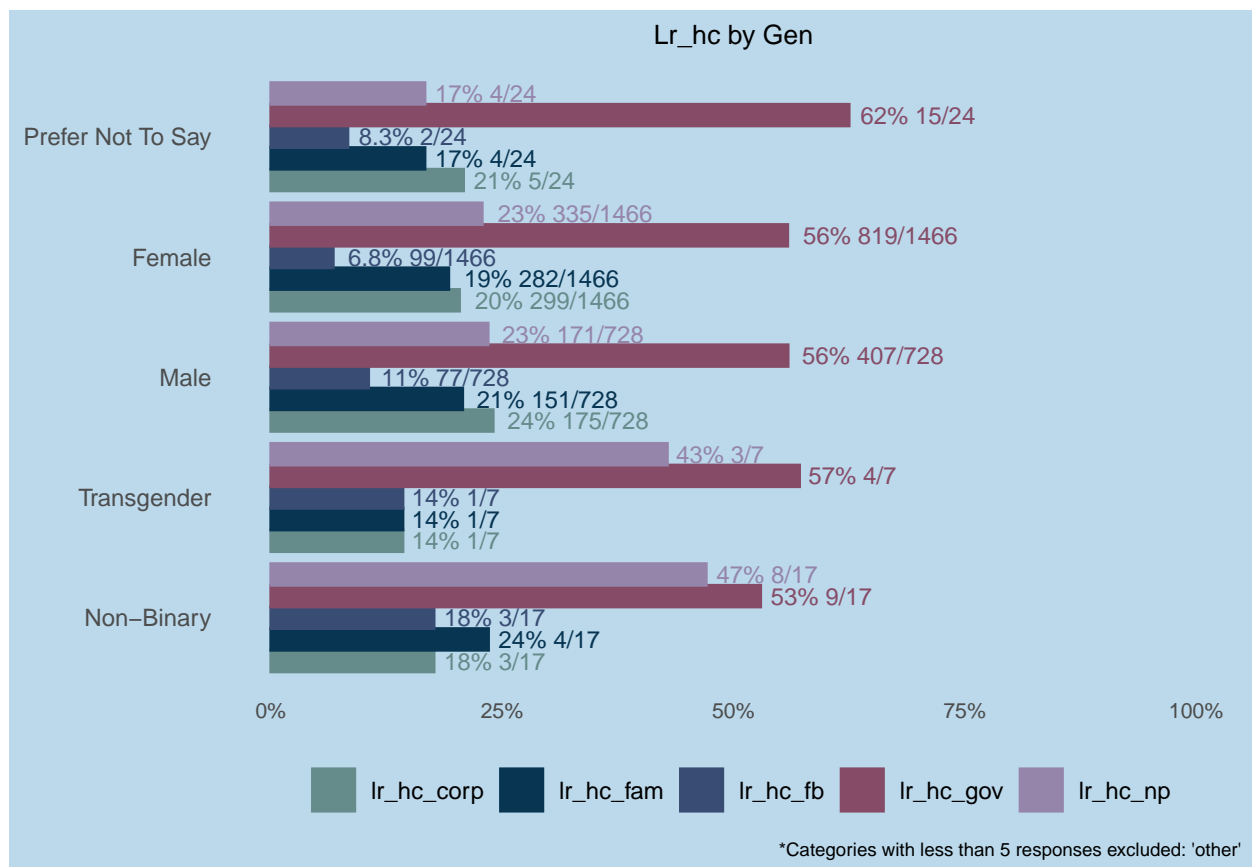


```
##
## $gen$p.values
## $gen$p.values$lr_hc_corp
##                 transgender non-binary female prefer not to say male
```

```
## transgender                NA       NA     NA              NA   NA
## non-binary                 NA       NA     NA              NA   NA
## female                     NA       NA     NA              NA   NA
## prefer not to say          NA       NA     NA              NA   NA
## male                       NA       NA     NA              NA   NA
##
## $gen$p.values$lr_hc_fam
##                  transgender prefer not to say female male non-binary
## transgender               NA                NA     NA   NA         NA
## prefer not to say         NA                NA     NA   NA         NA
## female                    NA                NA     NA   NA         NA
## male                      NA                NA     NA   NA         NA
## non-binary                NA                NA     NA   NA         NA
##
## $gen$p.values$lr_hc_fb
##                  female prefer not to say   male transgender non-binary
## female               NA                NA 0.0025          NA         NA
## prefer not to say    NA                NA     NA          NA         NA
## male             0.0025                NA     NA          NA         NA
## transgender          NA                NA     NA          NA         NA
## non-binary           NA                NA     NA          NA         NA
##
## $gen$p.values$lr_hc_gov
##                  non-binary female male transgender prefer not to say
## non-binary               NA     NA   NA          NA                NA
## female                   NA     NA   NA          NA                NA
## male                     NA     NA   NA          NA                NA
## transgender              NA     NA   NA          NA                NA
## prefer not to say        NA     NA   NA          NA                NA
##
## $gen$p.values$lr_hc_np
##                  prefer not to say female male transgender non-binary
## prefer not to say                NA     NA   NA          NA         NA
## female                           NA     NA   NA          NA         NA
## male                             NA     NA   NA          NA         NA
## transgender                      NA     NA   NA          NA         NA
## non-binary                       NA     NA   NA          NA         NA
##
##
##
## $race_census
## $race_census$plot
```

Lr_hc by Race_census

(chart showing percentages by race category)

Other: 22% 14/65, 55% 36/65, 12% 8/65, 15% 10/65, 12% 8/65

Black Or African American: 20% 100/499, 57% 282/499, 8.6% 43/499, 17% 86/499, 19% 97/499

Hispanic Or Latinx: 22% 126/563, 57% 321/563, 10% 57/563, 18% 99/563, 16% 92/563

Asian: 18% 45/244, 60% 147/244, 7% 17/244, 20% 48/244, 26% 63/244

White (Non–Hispanic Or Latino): 27% 200/748, 51% 385/748, 6.8% 51/748, 23% 173/748, 25% 186/748

Two Or More Races: 38% 22/58, 71% 41/58, 6.9% 4/58, 24% 14/58, 36% 21/58

Indigenous American: 33% 2/6, 83% 5/6, 17% 1/6, 50% 3/6, 0% 0/6

Legend: lr_hc_corp, lr_hc_fam, lr_hc_fb, lr_hc_gov, lr_hc_np

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

```
## 
## $race_census$p.values
## $race_census$p.values$lr_hc_corp
##                              Indigenous American  other hispanic or latinx
## Indigenous American                          NA     NA                  NA
## other                                        NA     NA                  NA
## hispanic or latinx                           NA     NA                  NA
## black or african american                    NA     NA                  NA
## white (non-hispanic or latino)               NA     NA             0.00024
## asian                                        NA     NA             0.00230
## two or more races                            NA 0.0037             0.00038
##                              black or african american
## Indigenous American                                 NA
## other                                               NA
## hispanic or latinx                                  NA
## black or african american                           NA
## white (non-hispanic or latino)                      NA
## asian                                               NA
## two or more races                               0.0053
##                              white (non-hispanic or latino)  asian
## Indigenous American                                      NA     NA
## other                                                    NA     NA
## hispanic or latinx                                  0.00024 0.0023
## black or african american                               NA     NA
## white (non-hispanic or latino)                          NA     NA
## asian                                                   NA     NA
```

43

```
## two or more races                                               NA     NA
##                                   two or more races
## Indigenous American                              NA
## other                                       0.00370
## hispanic or latinx                          0.00038
## black or african american                   0.00530
## white (non-hispanic or latino)                   NA
## asian                                            NA
## two or more races                               NA
##
## $race_census$p.values$lr_hc_fam
##                                   other black or african american
## other                                NA                        NA
## black or african american            NA                        NA
## hispanic or latinx                   NA                        NA
## asian                                NA                        NA
## white (non-hispanic or latino)       NA                        NA
## two or more races                    NA                        NA
## Indigenous American                  NA                        NA
##                                   hispanic or latinx asian
## other                                             NA    NA
## black or african american                         NA    NA
## hispanic or latinx                                NA    NA
## asian                                             NA    NA
## white (non-hispanic or latino)                    NA    NA
## two or more races                                 NA    NA
## Indigenous American                               NA    NA
##                                   white (non-hispanic or latino) two or more races
## other                                                         NA                NA
## black or african american                                     NA                NA
## hispanic or latinx                                            NA                NA
## asian                                                         NA                NA
## white (non-hispanic or latino)                                NA                NA
## two or more races                                             NA                NA
## Indigenous American                                           NA                NA
##                                   Indigenous American
## other                                             NA
## black or african american                         NA
## hispanic or latinx                                NA
## asian                                             NA
## white (non-hispanic or latino)                    NA
## two or more races                                 NA
## Indigenous American                               NA
##
## $race_census$p.values$lr_hc_fb
##                                   white (non-hispanic or latino) two or more races
## white (non-hispanic or latino)                                NA                NA
## two or more races                                             NA                NA
## asian                                                         NA                NA
## black or african american                                     NA                NA
## hispanic or latinx                                            NA                NA
## other                                                         NA                NA
## Indigenous American                                           NA                NA
##                                   asian black or african american
```

```
## white (non-hispanic or latino)      NA                        NA
## two or more races                   NA                        NA
## asian                               NA                        NA
## black or african american           NA                        NA
## hispanic or latinx                   NA                        NA
## other                               NA                        NA
## Indigenous American                  NA                        NA
##                                hispanic or latinx other Indigenous American
## white (non-hispanic or latino)                 NA   NA                   NA
## two or more races                              NA   NA                   NA
## asian                                          NA   NA                   NA
## black or african american                      NA   NA                   NA
## hispanic or latinx                             NA   NA                   NA
## other                                          NA   NA                   NA
## Indigenous American                            NA   NA                   NA
##
## $race_census$p.values$lr_hc_gov
##                                white (non-hispanic or latino) other
## white (non-hispanic or latino)                            NA   NA
## other                                                     NA   NA
## black or african american                                 NA   NA
## hispanic or latinx                                        NA   NA
## asian                                                     NA   NA
## two or more races                                     0.0072   NA
## Indigenous American                                       NA   NA
##                                black or african american hispanic or latinx
## white (non-hispanic or latino)                        NA                 NA
## other                                                 NA                 NA
## black or african american                             NA                 NA
## hispanic or latinx                                    NA                 NA
## asian                                                 NA                 NA
## two or more races                                     NA                 NA
## Indigenous American                                   NA                 NA
##                                asian two or more races Indigenous American
## white (non-hispanic or latino)   NA            0.0072                  NA
## other                            NA                NA                  NA
## black or african american        NA                NA                  NA
## hispanic or latinx               NA                NA                  NA
## asian                            NA                NA                  NA
## two or more races                NA                NA                  NA
## Indigenous American              NA                NA                  NA
##
## $race_census$p.values$lr_hc_np
##                                asian black or african american other
## asian                             NA                        NA    NA
## black or african american         NA                        NA    NA
## other                             NA                        NA    NA
## hispanic or latinx                NA                        NA    NA
## white (non-hispanic or latino)    NA                    0.0082    NA
## Indigenous American               NA                        NA    NA
## two or more races             0.0024                    0.0032    NA
##                                hispanic or latinx
## asian                                          NA
## black or african american                      NA
```

```
## other                                          NA
## hispanic or latinx                             NA
## white (non-hispanic or latino)                 NA
## Indigenous American                            NA
## two or more races                             NA
##                                white (non-hispanic or latino)
## asian                                         NA
## black or african american                    0.0082
## other                                         NA
## hispanic or latinx                            NA
## white (non-hispanic or latino)               NA
## Indigenous American                          NA
## two or more races                           NA
##                                Indigenous American two or more races
## asian                                        NA              0.0024
## black or african american                    NA              0.0032
## other                                        NA                  NA
## hispanic or latinx                           NA                  NA
## white (non-hispanic or latino)               NA                  NA
## Indigenous American                          NA                  NA
## two or more races                           NA                  NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
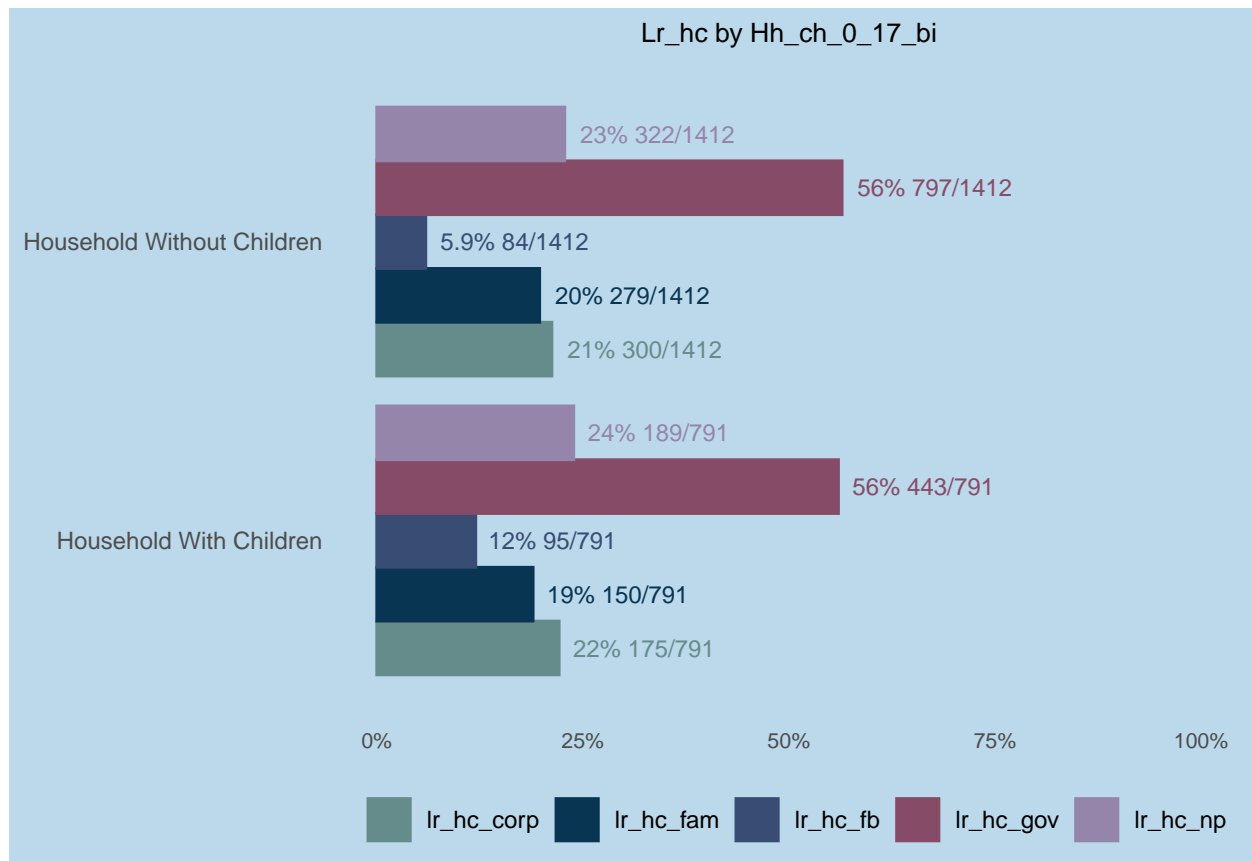
```
## 
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$lr_hc_corp
##                            household without children household with children
## household without children                        NA                       NA
## household with children                           NA                       NA
## 
## $hh_ch_0_17_bi$p.values$lr_hc_fam
##                            household with children household without children
## household with children                         NA                         NA
## household without children                      NA                         NA
## 
## $hh_ch_0_17_bi$p.values$lr_hc_fb
##                            household without children household with children
## household without children                        NA                  8.9e-07
## household with children                      8.9e-07                       NA
## 
## $hh_ch_0_17_bi$p.values$lr_hc_gov
##                            household with children household without children
## household with children                         NA                         NA
## household without children                      NA                         NA
## 
## $hh_ch_0_17_bi$p.values$lr_hc_np
##                            household without children household with children
## household without children                        NA                       NA
## household with children                           NA                       NA
## 
## 
## 
## $hh_sn_65_bi
## NULL
## 
## $inc_dist
## $inc_dist$plot
```
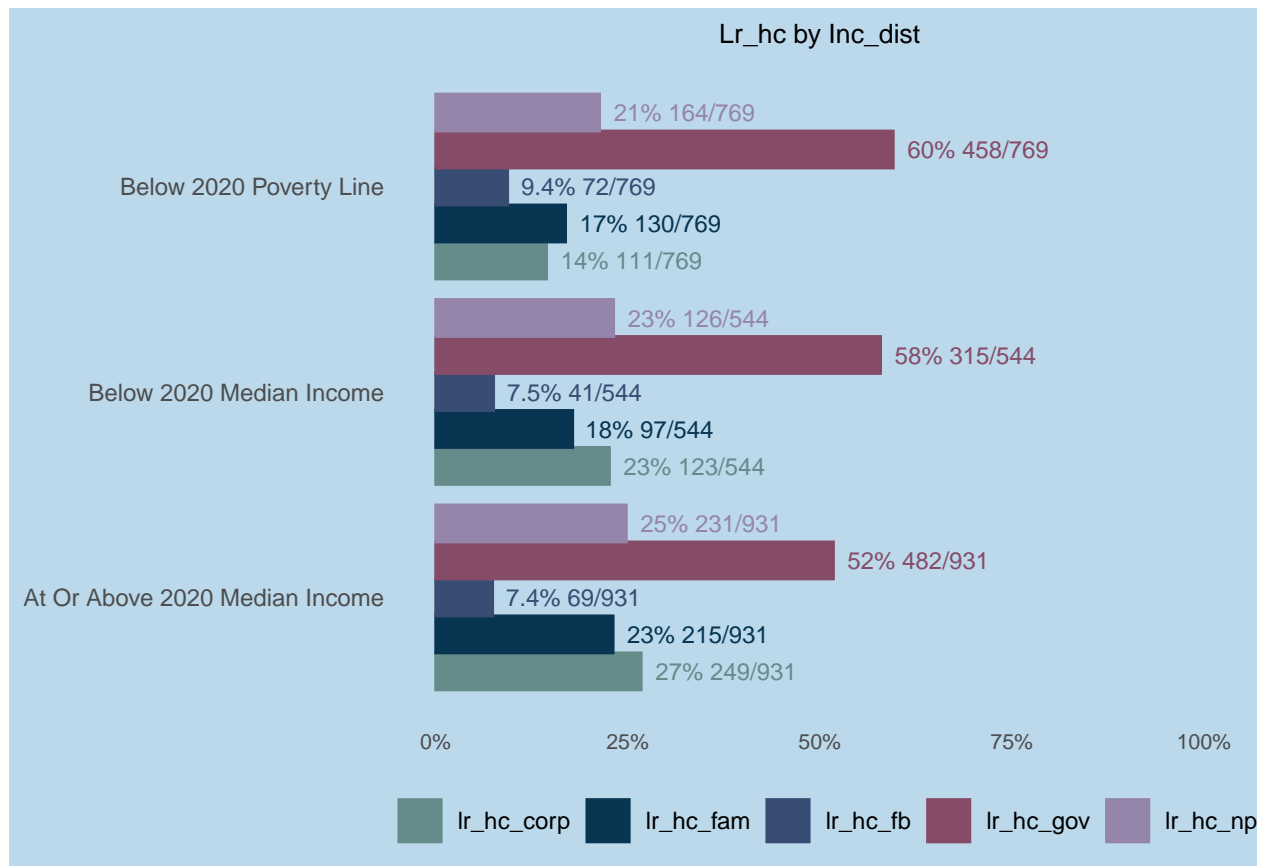
Lr_hc by Inc_dist

```
## 
## $inc_dist$p.values
## $inc_dist$p.values$lr_hc_corp
##                              below 2020 poverty line below 2020 median income
## below 2020 poverty line                          NA                   0.00018
## below 2020 median income                     1.8e-04                       NA
## at or above 2020 median income               9.1e-10                       NA
##                              at or above 2020 median income
## below 2020 poverty line                             9.1e-10
## below 2020 median income                                 NA
## at or above 2020 median income                           NA
## 
## $inc_dist$p.values$lr_hc_fam
##                              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                0.002                       NA
##                              at or above 2020 median income
## below 2020 poverty line                               0.002
## below 2020 median income                                 NA
## at or above 2020 median income                           NA
## 
## $inc_dist$p.values$lr_hc_fb
##                              at or above 2020 median income
## at or above 2020 median income                           NA
## below 2020 median income                                 NA
```

```
## below 2020 poverty line                                                  NA
##                                    below 2020 median income below 2020 poverty line
## at or above 2020 median income                          NA                       NA
## below 2020 median income                                NA                       NA
## below 2020 poverty line                                 NA                       NA
##
## $inc_dist$p.values$lr_hc_gov
##                                    at or above 2020 median income
## at or above 2020 median income                               NA
## below 2020 median income                                     NA
## below 2020 poverty line                                  0.0016
##                                    below 2020 median income below 2020 poverty line
## at or above 2020 median income                          NA                   0.0016
## below 2020 median income                                NA                       NA
## below 2020 poverty line                                 NA                       NA
##
## $inc_dist$p.values$lr_hc_np
##                                    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                       NA                       NA
##                                    at or above 2020 median income
## below 2020 poverty line                                      NA
## below 2020 median income                                     NA
## at or above 2020 median income                               NA
```

```
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_stress_corp", "lr_stress_fam", "lr_stress_
```

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

Lr_stress by Borough

Queens
- 20% 128/650
- 13% 83/650
- 21% 135/650
- 63% 411/650
- 7.4% 48/650

Bronx
- 26% 58/219
- 11% 24/219
- 27% 60/219
- 60% 131/219
- 7.3% 16/219

Brooklyn
- 26% 170/659
- 15% 96/659
- 24% 161/659
- 61% 399/659
- 9.1% 60/659

Manhattan
- 27% 173/639
- 14% 87/639
- 17% 107/639
- 68% 436/639
- 9.7% 62/639

Staten Island
- 48% 37/77
- 10% 8/77
- 30% 23/77
- 70% 54/77
- 5.2% 4/77

Legend: lr_stress_corp, lr_stress_fam, lr_stress_fb, lr_stress_gov, lr_stress_np
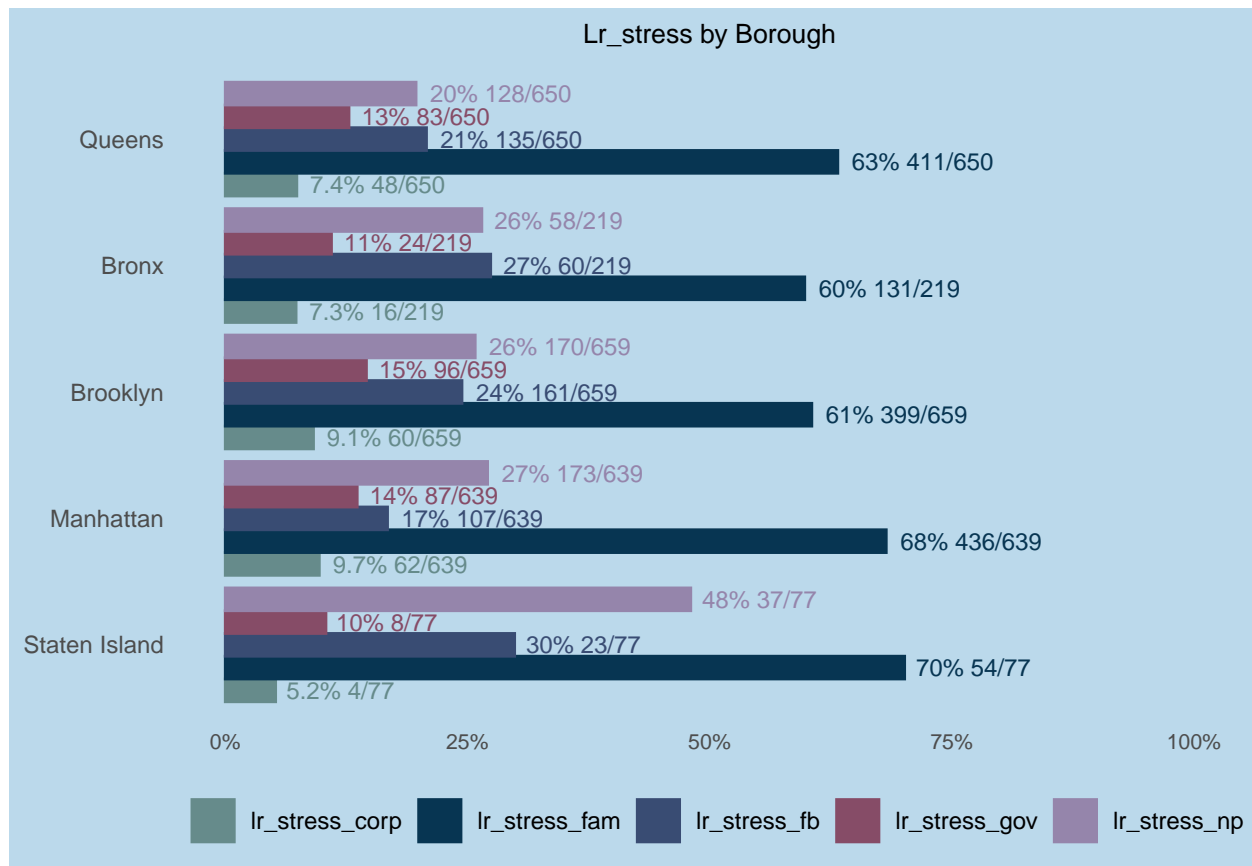
```
##
## $borough$p.values
## $borough$p.values$lr_stress_corp
##               staten island bronx queens brooklyn manhattan
## staten island            NA    NA     NA       NA        NA
## bronx                    NA    NA     NA       NA        NA
## queens                   NA    NA     NA       NA        NA
## brooklyn                 NA    NA     NA       NA        NA
## manhattan                NA    NA     NA       NA        NA
##
## $borough$p.values$lr_stress_fam
##               bronx brooklyn queens manhattan staten island
## bronx            NA       NA     NA        NA            NA
## brooklyn         NA       NA     NA    0.0046            NA
## queens           NA       NA     NA        NA            NA
## manhattan        NA   0.0046     NA        NA            NA
## staten island    NA       NA     NA        NA            NA
##
## $borough$p.values$lr_stress_fb
##               manhattan queens brooklyn   bronx staten island
## manhattan            NA     NA     8e-04 0.00085        0.0077
## queens               NA     NA        NA      NA            NA
## brooklyn        0.00080     NA        NA      NA            NA
## bronx           0.00085     NA        NA      NA            NA
## staten island   0.00770     NA        NA      NA            NA
##
```

50

```
## $borough$p.values$lr_stress_gov
##               staten island bronx queens manhattan brooklyn
## staten island          NA    NA     NA        NA       NA
## bronx                  NA    NA     NA        NA       NA
## queens                 NA    NA     NA        NA       NA
## manhattan              NA    NA     NA        NA       NA
## brooklyn               NA    NA     NA        NA       NA
##
## $borough$p.values$lr_stress_np
##               queens brooklyn   bronx manhattan staten island
## queens            NA    1e-02      NA   0.00220       4.4e-08
## brooklyn      1.0e-02      NA      NA        NA       7.0e-05
## bronx             NA      NA      NA        NA       8.2e-04
## manhattan     2.2e-03      NA      NA        NA       2.3e-04
## staten island 4.4e-08    7e-05 0.00082   0.00023            NA
##
##
##
## $gen
## $gen$plot
```
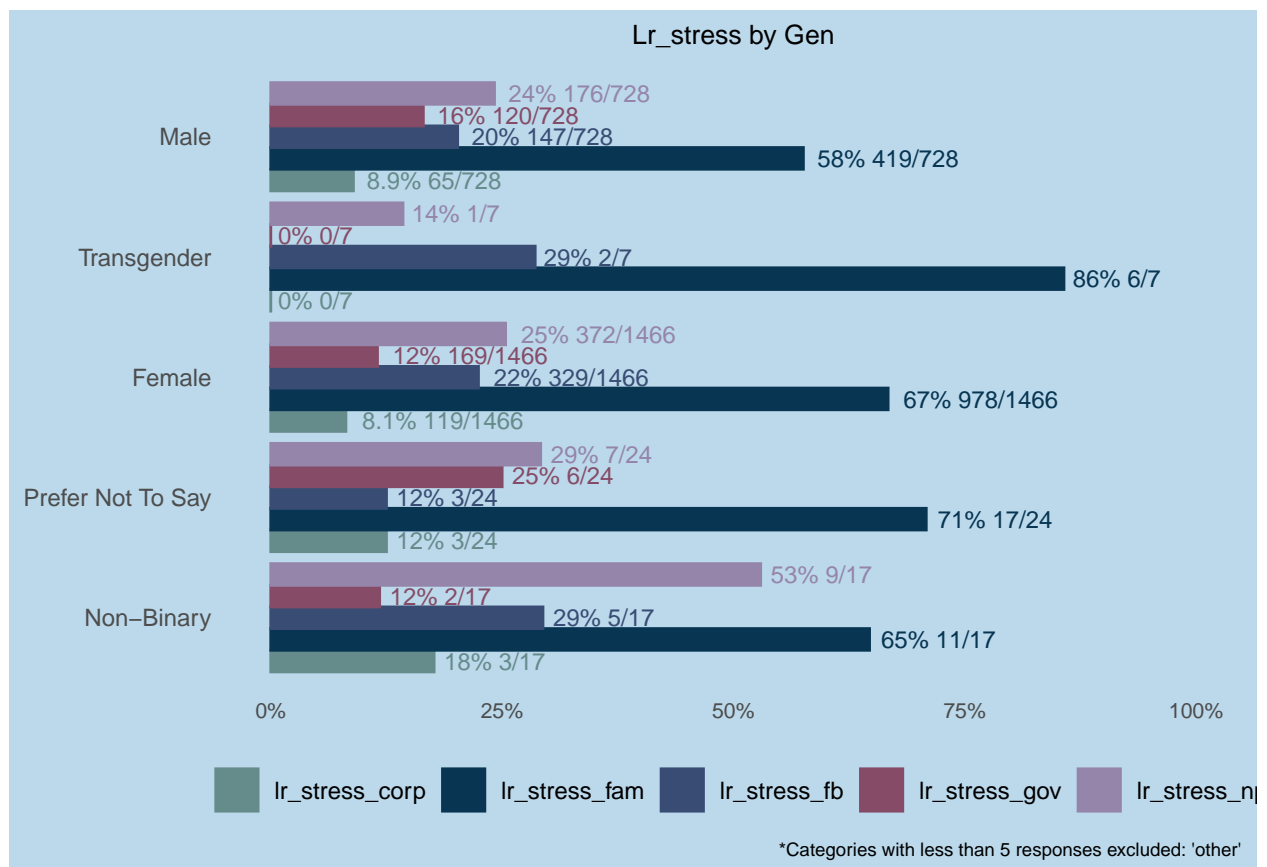


```
##
## $gen$p.values
## $gen$p.values$lr_stress_corp
##                transgender female male prefer not to say non-binary
```

```
## transgender                NA     NA   NA              NA         NA
## female                      NA     NA   NA              NA         NA
## male                        NA     NA   NA              NA         NA
## prefer not to say           NA     NA   NA              NA         NA
## non-binary                  NA     NA   NA              NA         NA
##
## $gen$p.values$lr_stress_fam
##                      male non-binary  female prefer not to say transgender
## male                   NA         NA 3.3e-05                NA          NA
## non-binary             NA         NA      NA                NA          NA
## female            3.3e-05         NA      NA                NA          NA
## prefer not to say      NA         NA      NA                NA          NA
## transgender            NA         NA      NA                NA          NA
##
## $gen$p.values$lr_stress_fb
##                   prefer not to say male female transgender non-binary
## prefer not to say                NA   NA     NA          NA         NA
## male                             NA   NA     NA          NA         NA
## female                           NA   NA     NA          NA         NA
## transgender                      NA   NA     NA          NA         NA
## non-binary                       NA   NA     NA          NA         NA
##
## $gen$p.values$lr_stress_gov
##                   transgender female non-binary   male prefer not to say
## transgender                NA     NA         NA     NA                NA
## female                     NA     NA         NA 0.0016                NA
## non-binary                 NA     NA         NA     NA                NA
## male                       NA 0.0016         NA     NA                NA
## prefer not to say          NA     NA         NA     NA                NA
##
## $gen$p.values$lr_stress_np
##                   transgender male female prefer not to say non-binary
## transgender                NA   NA     NA                NA         NA
## male                       NA   NA     NA                NA         NA
## female                     NA   NA     NA                NA         NA
## prefer not to say          NA   NA     NA                NA         NA
## non-binary                 NA   NA     NA                NA         NA
##
##
##
## $race_census
## $race_census$plot
```

Lr_stress by Race_census

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
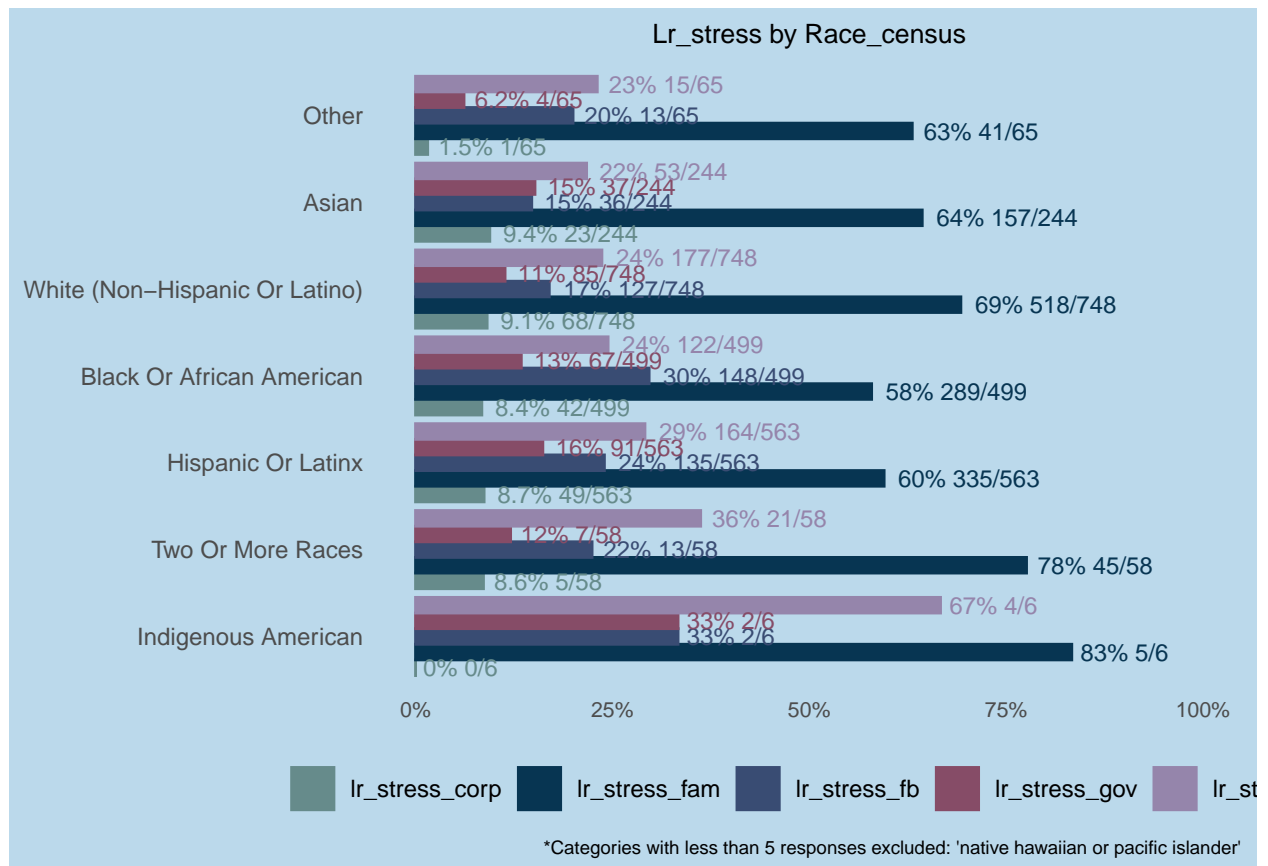
```
##
## $race_census$p.values
## $race_census$p.values$lr_stress_corp
##                              Indigenous American other
## Indigenous American                       NA    NA
## other                                     NA    NA
## black or african american                 NA    NA
## two or more races                         NA    NA
## hispanic or latinx                        NA    NA
## white (non-hispanic or latino)            NA    NA
## asian                                     NA    NA
##                              black or african american two or more races
## Indigenous American                                 NA                NA
## other                                               NA                NA
## black or african american                           NA                NA
## two or more races                                   NA                NA
## hispanic or latinx                                  NA                NA
## white (non-hispanic or latino)                      NA                NA
## asian                                               NA                NA
##                              hispanic or latinx
## Indigenous American                          NA
## other                                        NA
## black or african american                    NA
## two or more races                            NA
## hispanic or latinx                           NA
## white (non-hispanic or latino)               NA
```

53

```
## asian                                           NA
##                               white (non-hispanic or latino) asian
## Indigenous American                                       NA    NA
## other                                                     NA    NA
## black or african american                                 NA    NA
## two or more races                                         NA    NA
## hispanic or latinx                                        NA    NA
## white (non-hispanic or latino)                            NA    NA
## asian                                                     NA    NA
##
## $race_census$p.values$lr_stress_fam
##                               black or african american hispanic or latinx
## black or african american                            NA                 NA
## hispanic or latinx                                   NA                 NA
## other                                                NA                 NA
## asian                                                NA                 NA
## white (non-hispanic or latino)                  5.3e-05            0.00031
## two or more races                               5.9e-03                 NA
## Indigenous American                                  NA                 NA
##                               other asian white (non-hispanic or latino)
## black or african american        NA    NA                         5.3e-05
## hispanic or latinx               NA    NA                         3.1e-04
## other                            NA    NA                              NA
## asian                            NA    NA                              NA
## white (non-hispanic or latino)   NA    NA                              NA
## two or more races                NA    NA                              NA
## Indigenous American              NA    NA                              NA
##                               two or more races Indigenous American
## black or african american                0.0059                  NA
## hispanic or latinx                           NA                  NA
## other                                        NA                  NA
## asian                                        NA                  NA
## white (non-hispanic or latino)               NA                  NA
## two or more races                            NA                  NA
## Indigenous American                          NA                  NA
##
## $race_census$p.values$lr_stress_fb
##                               asian white (non-hispanic or latino) other
## asian                            NA                             NA    NA
## white (non-hispanic or latino)   NA                             NA    NA
## other                            NA                             NA    NA
## two or more races                NA                             NA    NA
## hispanic or latinx           4.4e-03                        2.2e-03    NA
## black or african american    1.5e-05                        1.8e-07    NA
## Indigenous American              NA                             NA    NA
##                               two or more races hispanic or latinx
## asian                                        NA             0.0044
## white (non-hispanic or latino)               NA             0.0022
## other                                        NA                 NA
## two or more races                            NA                 NA
## hispanic or latinx                           NA                 NA
## black or african american                    NA                 NA
## Indigenous American                          NA                 NA
##                               black or african american Indigenous American
```

```
## asian                                                      1.5e-05             NA
## white (non-hispanic or latino)                             1.8e-07             NA
## other                                                           NA             NA
## two or more races                                              NA             NA
## hispanic or latinx                                             NA             NA
## black or african american                                      NA             NA
## Indigenous American                                            NA             NA
##
## $race_census$p.values$lr_stress_gov
##                                other white (non-hispanic or latino)
## other                            NA                              NA
## white (non-hispanic or latino)   NA                              NA
## two or more races                NA                              NA
## black or african american        NA                              NA
## asian                            NA                              NA
## hispanic or latinx               NA                              NA
## Indigenous American              NA                              NA
##                                two or more races black or african american
## other                                        NA                         NA
## white (non-hispanic or latino)               NA                         NA
## two or more races                            NA                         NA
## black or african american                    NA                         NA
## asian                                        NA                         NA
## hispanic or latinx                           NA                         NA
## Indigenous American                          NA                         NA
##                                asian hispanic or latinx Indigenous American
## other                             NA                 NA                  NA
## white (non-hispanic or latino)    NA                 NA                  NA
## two or more races                 NA                 NA                  NA
## black or african american         NA                 NA                  NA
## asian                             NA                 NA                  NA
## hispanic or latinx                NA                 NA                  NA
## Indigenous American               NA                 NA                  NA
##
## $race_census$p.values$lr_stress_np
##                                asian other white (non-hispanic or latino)
## asian                             NA    NA                              NA
## other                             NA    NA                              NA
## white (non-hispanic or latino)    NA    NA                              NA
## black or african american         NA    NA                              NA
## hispanic or latinx                NA    NA                              NA
## two or more races                 NA    NA                              NA
## Indigenous American               NA    NA                              NA
##                                black or african american hispanic or latinx
## asian                                                 NA                 NA
## other                                                 NA                 NA
## white (non-hispanic or latino)                        NA                 NA
## black or african american                             NA                 NA
## hispanic or latinx                                    NA                 NA
## two or more races                                     NA                 NA
## Indigenous American                                   NA                 NA
##                                two or more races Indigenous American
## asian                                         NA                  NA
## other                                         NA                  NA
```
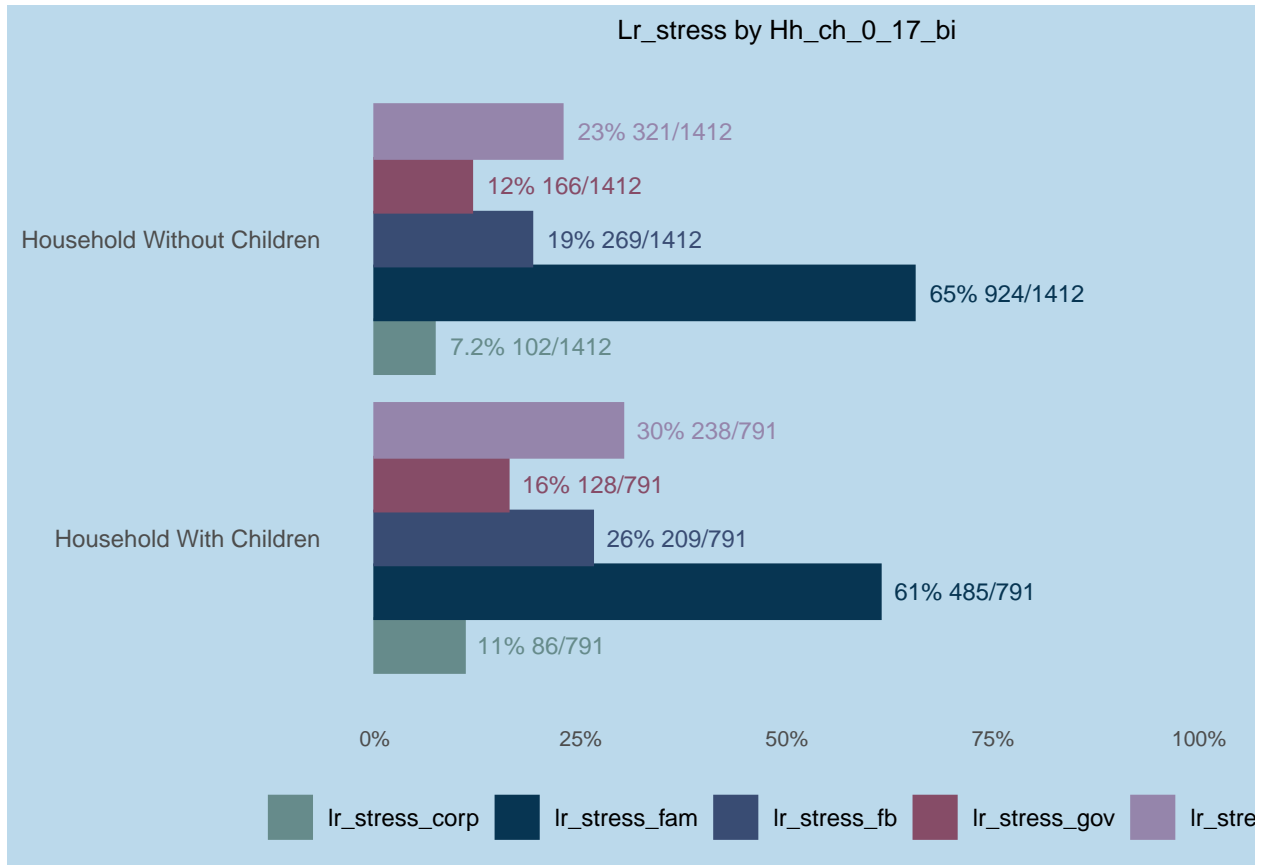
```
## white (non-hispanic or latino)                    NA                    NA
## black or african american                         NA                    NA
## hispanic or latinx                                NA                    NA
## two or more races                                 NA                    NA
## Indigenous American                               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$lr_stress_corp
##                               household without children household with children
## household without children                      NA                       0.0042
## household with children                       0.0042                         NA
##
## $hh_ch_0_17_bi$p.values$lr_stress_fam
##                               household with children household without children
## household with children                         NA                            NA
## household without children                      NA                            NA
##
## $hh_ch_0_17_bi$p.values$lr_stress_fb
##                               household without children household with children
```

```
## household without children                                    NA                  7.1e-05
## household with children                                    7.1e-05                     NA
##
## $hh_ch_0_17_bi$p.values$lr_stress_gov
##                        household without children household with children
## household without children                     NA                  0.0042
## household with children                     0.0042                     NA
##
## $hh_ch_0_17_bi$p.values$lr_stress_np
##                        household without children household with children
## household without children                     NA                 0.00017
## household with children                    0.00017                     NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_stress_corp
##                        household with seniors household without seniors
## household with seniors                     NA                        NA
## household without seniors                  NA                        NA
##
```

```
## $hh_sn_65_bi$p.values$lr_stress_fam
##                           household without seniors household with seniors
## household without seniors                       NA                     NA
## household with seniors                          NA                     NA
##
## $hh_sn_65_bi$p.values$lr_stress_fb
##                           household with seniors household without seniors
## household with seniors                       NA                       NA
## household without seniors                    NA                       NA
##
## $hh_sn_65_bi$p.values$lr_stress_gov
##                           household with seniors household without seniors
## household with seniors                       NA                   0.0066
## household without seniors                0.0066                       NA
##
## $hh_sn_65_bi$p.values$lr_stress_np
##                           household with seniors household without seniors
## household with seniors                       NA                       NA
## household without seniors                    NA                       NA
##
##
##
## $inc_dist
## $inc_dist$plot
```



Lr_stress by Inc_dist

```
##
```
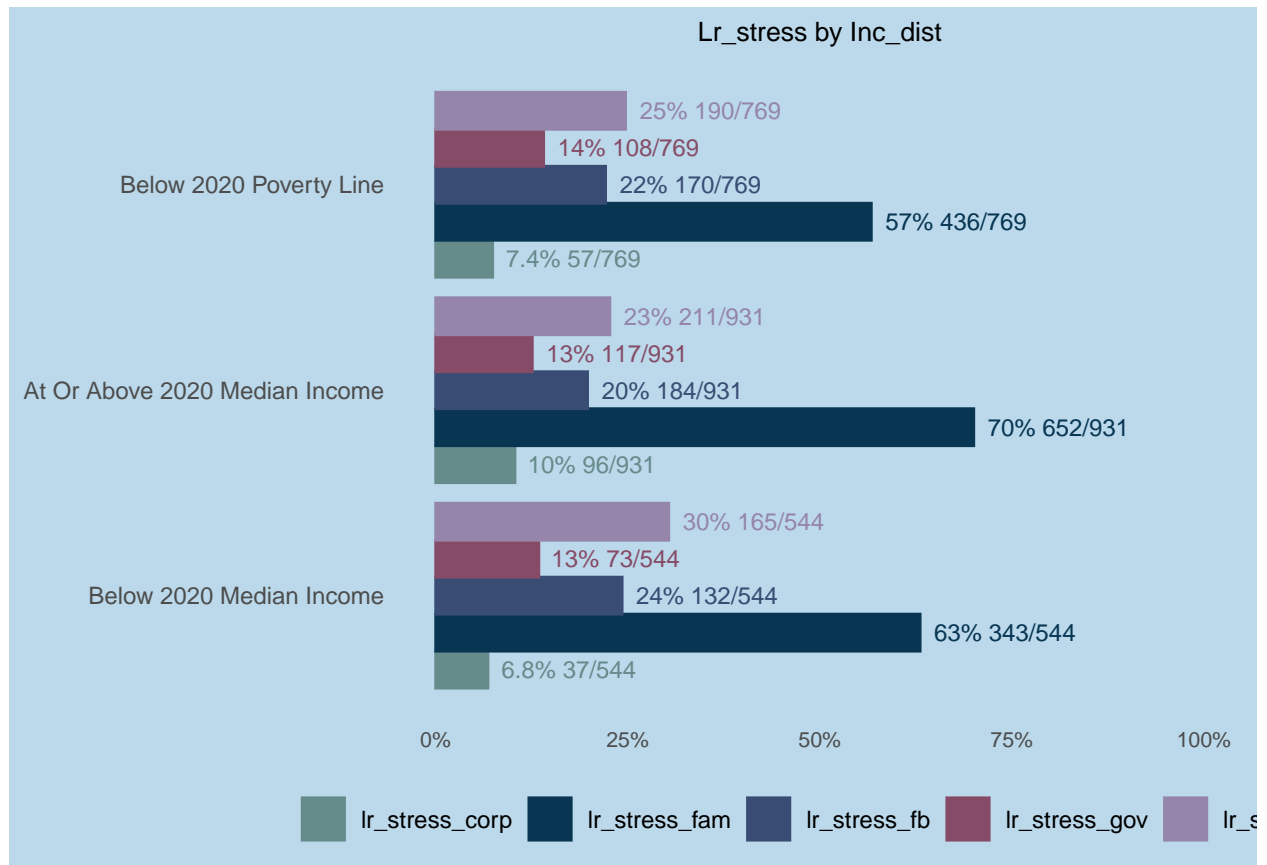
```
## $inc_dist$p.values
## $inc_dist$p.values$lr_stress_corp
##                                below 2020 median income below 2020 poverty line
## below 2020 median income                          NA                         NA
## below 2020 poverty line                           NA                         NA
## at or above 2020 median income                    NA                         NA
##                                at or above 2020 median income
## below 2020 median income                          NA
## below 2020 poverty line                           NA
## at or above 2020 median income                    NA
##
## $inc_dist$p.values$lr_stress_fam
##                                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               1.6e-08                     0.0069
##                                at or above 2020 median income
## below 2020 poverty line                      1.6e-08
## below 2020 median income                     6.9e-03
## at or above 2020 median income                    NA
##
## $inc_dist$p.values$lr_stress_fb
##                                at or above 2020 median income
## at or above 2020 median income                    NA
## below 2020 poverty line                           NA
## below 2020 median income                          NA
##                                below 2020 poverty line below 2020 median income
## at or above 2020 median income                    NA                         NA
## below 2020 poverty line                           NA                         NA
## below 2020 median income                          NA                         NA
##
## $inc_dist$p.values$lr_stress_gov
##                                at or above 2020 median income
## at or above 2020 median income                    NA
## below 2020 median income                          NA
## below 2020 poverty line                           NA
##                                below 2020 median income below 2020 poverty line
## at or above 2020 median income                    NA                         NA
## below 2020 median income                          NA                         NA
## below 2020 poverty line                           NA                         NA
##
## $inc_dist$p.values$lr_stress_np
##                                at or above 2020 median income
## at or above 2020 median income                    NA
## below 2020 poverty line                           NA
## below 2020 median income                      0.0014
##                                below 2020 poverty line below 2020 median income
## at or above 2020 median income                    NA                     0.0014
## below 2020 poverty line                           NA                         NA
## below 2020 median income                          NA                         NA
```

```r
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_trans_corp", "lr_trans_fam", "lr_trans_fb"
```

```
## $borough
```

## $borough$plot
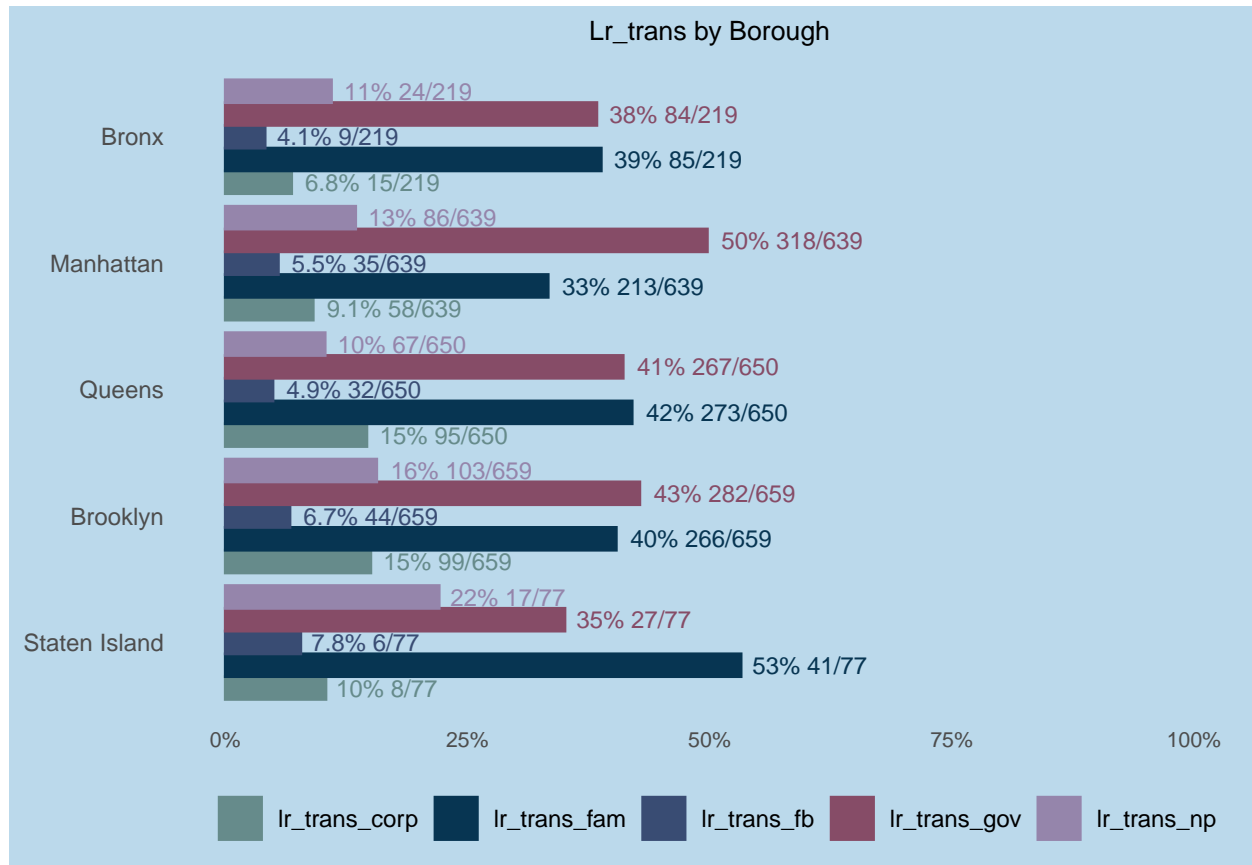


```
## 
## $borough$p.values
## $borough$p.values$lr_trans_corp
##               bronx manhattan staten island queens brooklyn
## bronx           NA        NA            NA 0.0041   0.0027
## manhattan       NA        NA            NA 0.0028   0.0014
## staten island   NA        NA            NA     NA       NA
## queens        0.0041   0.0028            NA     NA       NA
## brooklyn      0.0027   0.0014            NA     NA       NA
## 
## $borough$p.values$lr_trans_fam
##               manhattan bronx brooklyn queens staten island
## manhattan           NA    NA     0.01 0.0016       0.00089
## bronx               NA    NA       NA     NA            NA
## brooklyn        0.01000    NA       NA     NA            NA
## queens          0.00160    NA       NA     NA            NA
## staten island   0.00089    NA       NA     NA            NA
## 
## $borough$p.values$lr_trans_fb
##               bronx queens manhattan brooklyn staten island
## bronx           NA    NA        NA       NA            NA
## queens          NA    NA        NA       NA            NA
## manhattan       NA    NA        NA       NA            NA
```

```
## brooklyn          NA    NA       NA       NA          NA
## staten island     NA    NA       NA       NA          NA
##
## $borough$p.values$lr_trans_gov
##               staten island  bronx queens brooklyn manhattan
## staten island            NA     NA     NA       NA        NA
## bronx                    NA     NA     NA       NA    0.0045
## queens                   NA     NA     NA       NA    0.0021
## brooklyn                 NA     NA     NA       NA        NA
## manhattan                NA 0.0045 0.0021       NA        NA
##
## $borough$p.values$lr_trans_np
##               queens bronx manhattan brooklyn staten island
## queens            NA    NA        NA   0.0054        0.0042
## bronx             NA    NA        NA       NA            NA
## manhattan         NA    NA        NA       NA            NA
## brooklyn      0.0054    NA        NA       NA            NA
## staten island 0.0042    NA        NA       NA            NA
##
##
##
## $gen
## $gen$plot
```



##
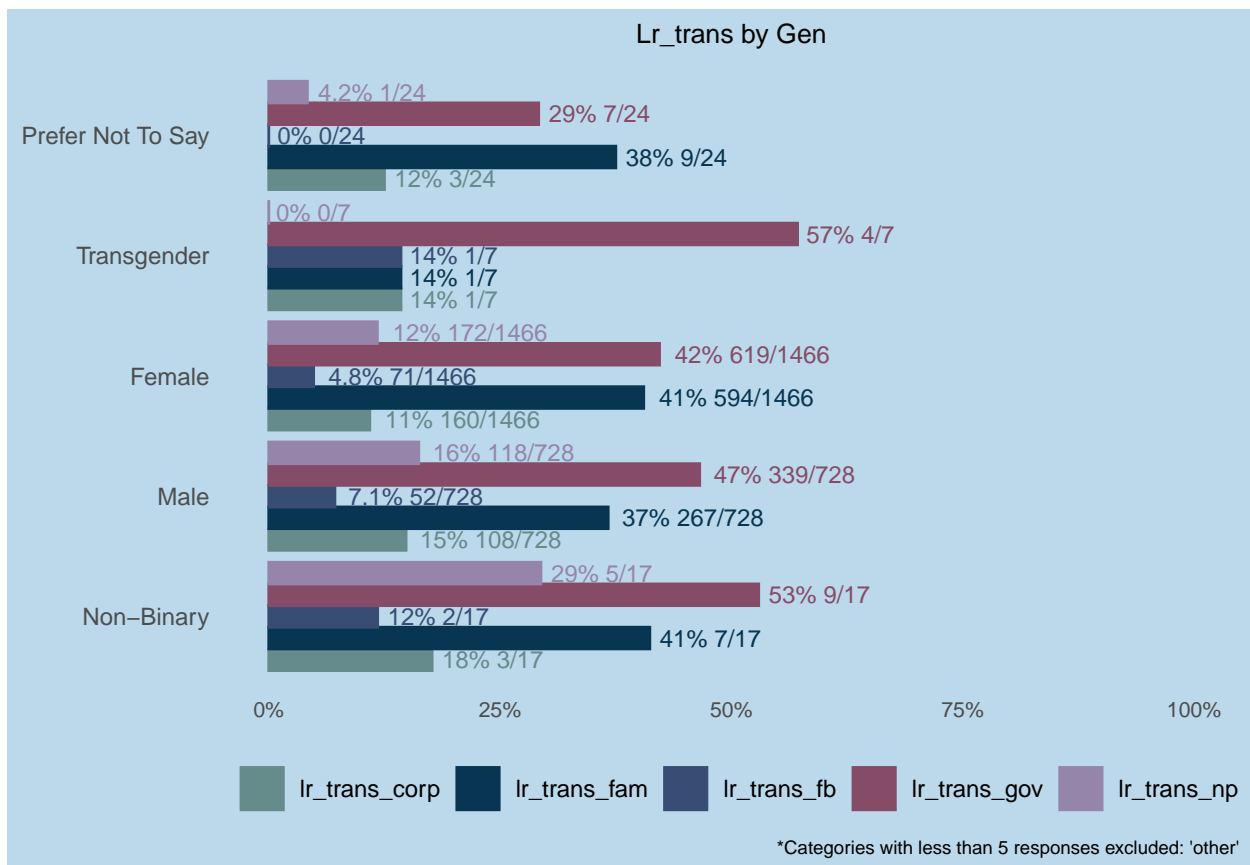
```
## $gen$p.values
## $gen$p.values$lr_trans_corp
##                     female prefer not to say transgender male non-binary
## female                 NA                 NA          NA 0.01         NA
## prefer not to say      NA                 NA          NA   NA         NA
## transgender            NA                 NA          NA   NA         NA
## male                 0.01                 NA          NA   NA         NA
## non-binary             NA                 NA          NA   NA         NA
##
## $gen$p.values$lr_trans_fam
##                     transgender male prefer not to say female non-binary
## transgender                  NA   NA                NA     NA         NA
## male                         NA   NA                NA     NA         NA
## prefer not to say            NA   NA                NA     NA         NA
## female                       NA   NA                NA     NA         NA
## non-binary                   NA   NA                NA     NA         NA
##
## $gen$p.values$lr_trans_fb
##                     prefer not to say female male non-binary transgender
## prefer not to say                  NA     NA   NA         NA          NA
## female                             NA     NA   NA         NA          NA
## male                               NA     NA   NA         NA          NA
## non-binary                         NA     NA   NA         NA          NA
## transgender                        NA     NA   NA         NA          NA
##
## $gen$p.values$lr_trans_gov
##                     prefer not to say female male non-binary transgender
## prefer not to say                  NA     NA   NA         NA          NA
## female                             NA     NA   NA         NA          NA
## male                               NA     NA   NA         NA          NA
## non-binary                         NA     NA   NA         NA          NA
## transgender                        NA     NA   NA         NA          NA
##
## $gen$p.values$lr_trans_np
##                     transgender prefer not to say female   male non-binary
## transgender                  NA                NA     NA     NA         NA
## prefer not to say            NA                NA     NA     NA         NA
## female                       NA                NA     NA 0.0044         NA
## male                         NA                NA 0.0044     NA         NA
## non-binary                   NA                NA     NA     NA         NA
##
##
##
## $race_census
## $race_census$plot
```

Lr_trans by Race_census

*Categories with less than 5 responses excluded: 'native hawaiian or pacific islander'
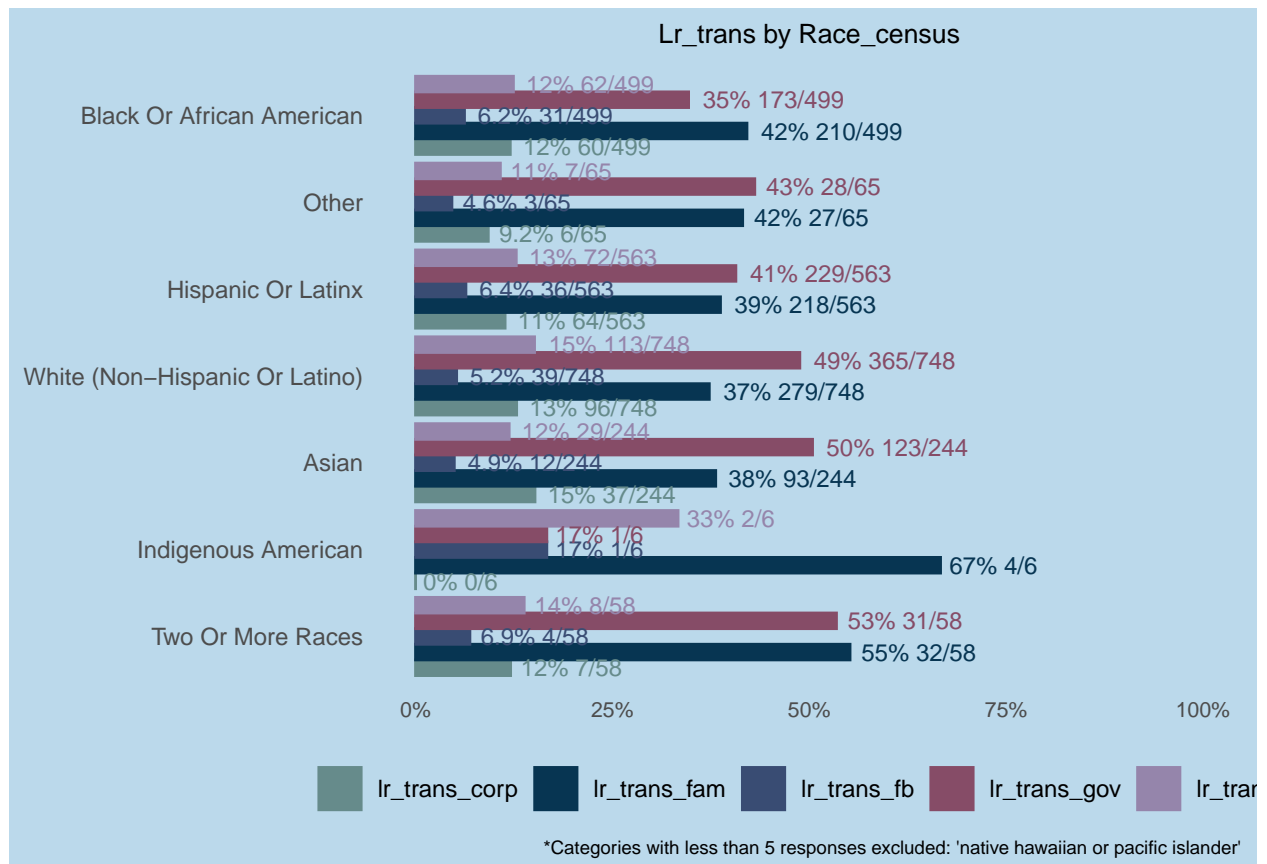
```
##
## $race_census$p.values
## $race_census$p.values$lr_trans_corp
##                              Indigenous American other hispanic or latinx
## Indigenous American                          NA    NA                  NA
## other                                        NA    NA                  NA
## hispanic or latinx                           NA    NA                  NA
## black or african american                    NA    NA                  NA
## two or more races                            NA    NA                  NA
## white (non-hispanic or latino)               NA    NA                  NA
## asian                                        NA    NA                  NA
##                              black or african american two 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
## white (non-hispanic or latino)                      NA                NA
## asian                                               NA                NA
##                              white (non-hispanic or latino) asian
## Indigenous American                                       NA    NA
## other                                                     NA    NA
## hispanic or latinx                                        NA    NA
## black or african american                                 NA    NA
## two or more races                                         NA    NA
## white (non-hispanic or latino)                            NA    NA
```

63

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

```
## other                                          NA                    NA
## asian                                           NA                    NA
## white (non-hispanic or latino)                  NA                    NA
## black or african american                       NA                    NA
## hispanic or latinx                              NA                    NA
## two or more races                               NA                    NA
## Indigenous American                             NA                    NA
##
## $race_census$p.values$lr_trans_gov
##                                Indigenous American black or african american
## Indigenous American                             NA                         NA
## black or african american                      NA                         NA
## hispanic or latinx                             NA                         NA
## other                                          NA                         NA
## white (non-hispanic or latino)                 NA                    1.1e-06
## asian                                          NA                    5.4e-05
## two or more races                              NA                    7.7e-03
##                                hispanic or latinx other
## Indigenous American                            NA    NA
## black or african american                      NA    NA
## hispanic or latinx                             NA    NA
## other                                          NA    NA
## white (non-hispanic or latino)             0.0041    NA
## asian                                          NA    NA
## two or more races                              NA    NA
##                                white (non-hispanic or latino)    asian
## Indigenous American                                        NA       NA
## black or african american                             1.1e-06 5.4e-05
## hispanic or latinx                                    4.1e-03      NA
## other                                                      NA       NA
## white (non-hispanic or latino)                             NA       NA
## asian                                                      NA       NA
## two or more races                                          NA       NA
##                                two or more races
## Indigenous American                           NA
## black or african american                 0.0077
## hispanic or latinx                            NA
## other                                         NA
## white (non-hispanic or latino)                NA
## asian                                         NA
## two or more races                             NA
##
## $race_census$p.values$lr_trans_np
##                                other asian black or african american
## other                             NA    NA                         NA
## asian                             NA    NA                         NA
## black or african american         NA    NA                         NA
## hispanic or latinx                NA    NA                         NA
## two or more races                 NA    NA                         NA
## white (non-hispanic or latino)    NA    NA                         NA
## Indigenous American               NA    NA                         NA
##                                hispanic or latinx two or more races
## other                                          NA                NA
## asian                                          NA                NA
```

```
## black or african american                                 NA                    NA
## hispanic or latinx                                          NA                    NA
## two or more races                                          NA                    NA
## white (non-hispanic or latino)                             NA                    NA
## Indigenous American                                        NA                    NA
##                                        white (non-hispanic or latino)
## other                                                              NA
## asian                                                              NA
## black or african american                                         NA
## hispanic or latinx                                                 NA
## two or more races                                                 NA
## white (non-hispanic or latino)                                    NA
## Indigenous American                                               NA
##                                        Indigenous American
## other                                                      NA
## asian                                                      NA
## black or african american                                  NA
## hispanic or latinx                                         NA
## two or more races                                         NA
## white (non-hispanic or latino)                             NA
## Indigenous American                                        NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```
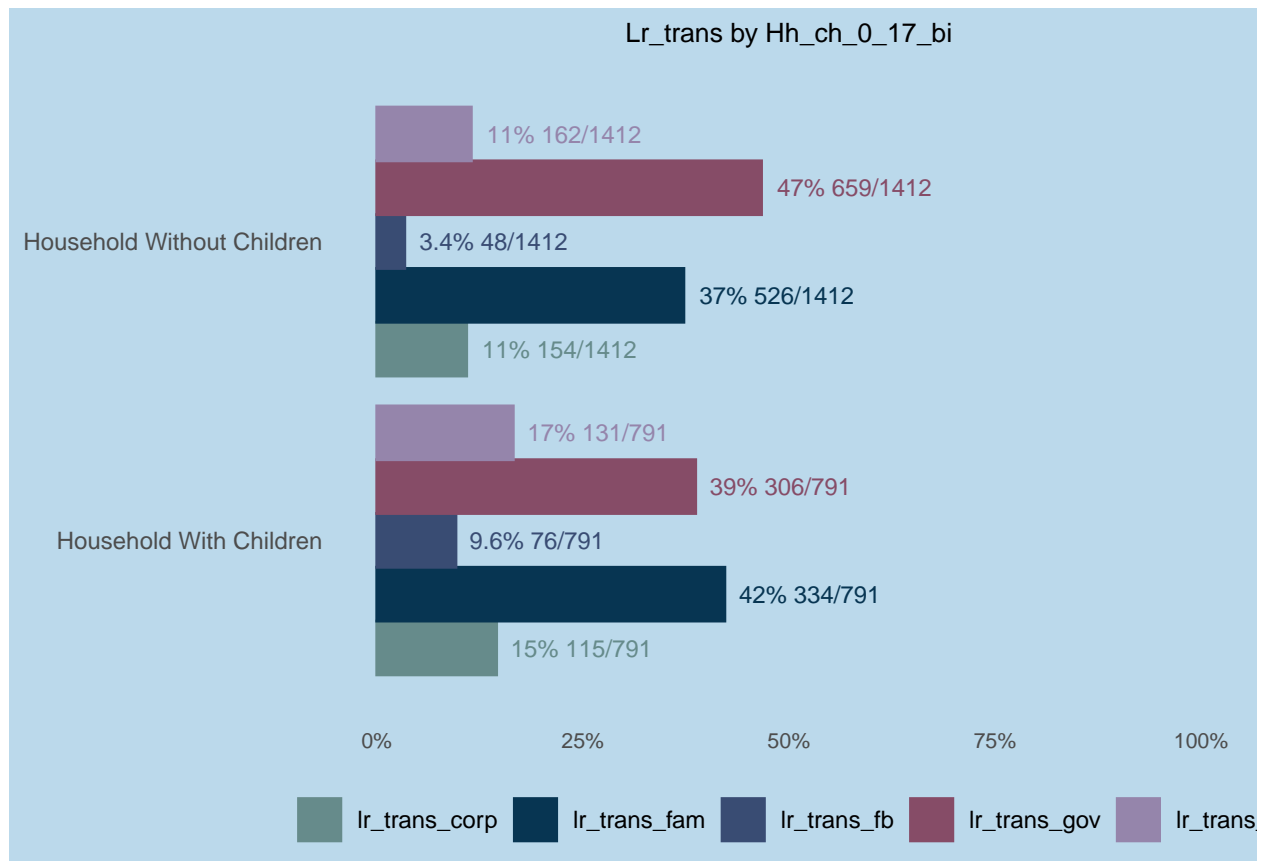
```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$lr_trans_corp
##                            household without children household with children
## household without children                        NA                       NA
## household with children                           NA                       NA
##
## $hh_ch_0_17_bi$p.values$lr_trans_fam
##                            household without children household with children
## household without children                        NA                       NA
## household with children                           NA                       NA
##
## $hh_ch_0_17_bi$p.values$lr_trans_fb
##                            household without children household with children
## household without children                        NA                  2.4e-09
## household with children                      2.4e-09                       NA
##
## $hh_ch_0_17_bi$p.values$lr_trans_gov
##                            household with children household without children
## household with children                       NA                       0.00034
## household without children               0.00034                            NA
##
## $hh_ch_0_17_bi$p.values$lr_trans_np
##                            household without children household with children
## household without children                        NA                  0.00094
## household with children                      0.00094                       NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```
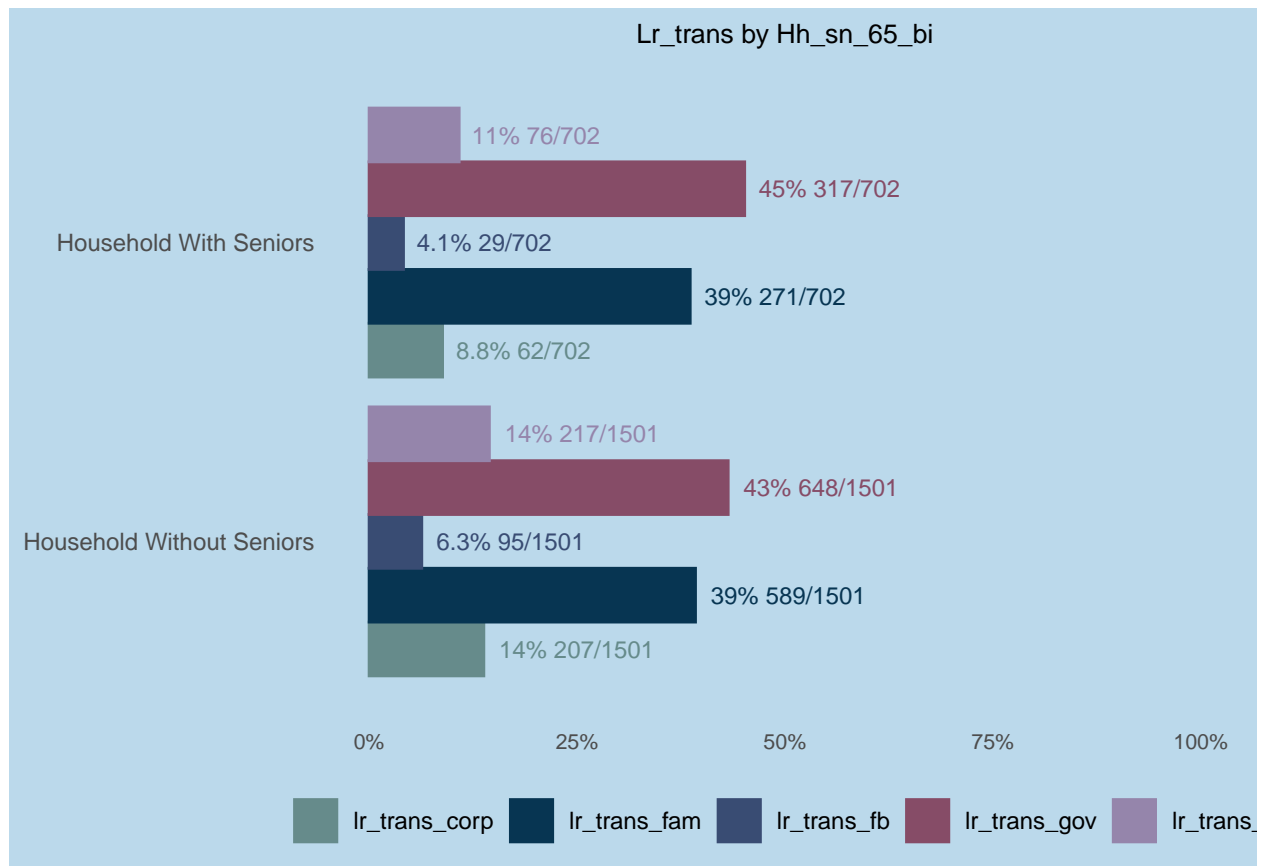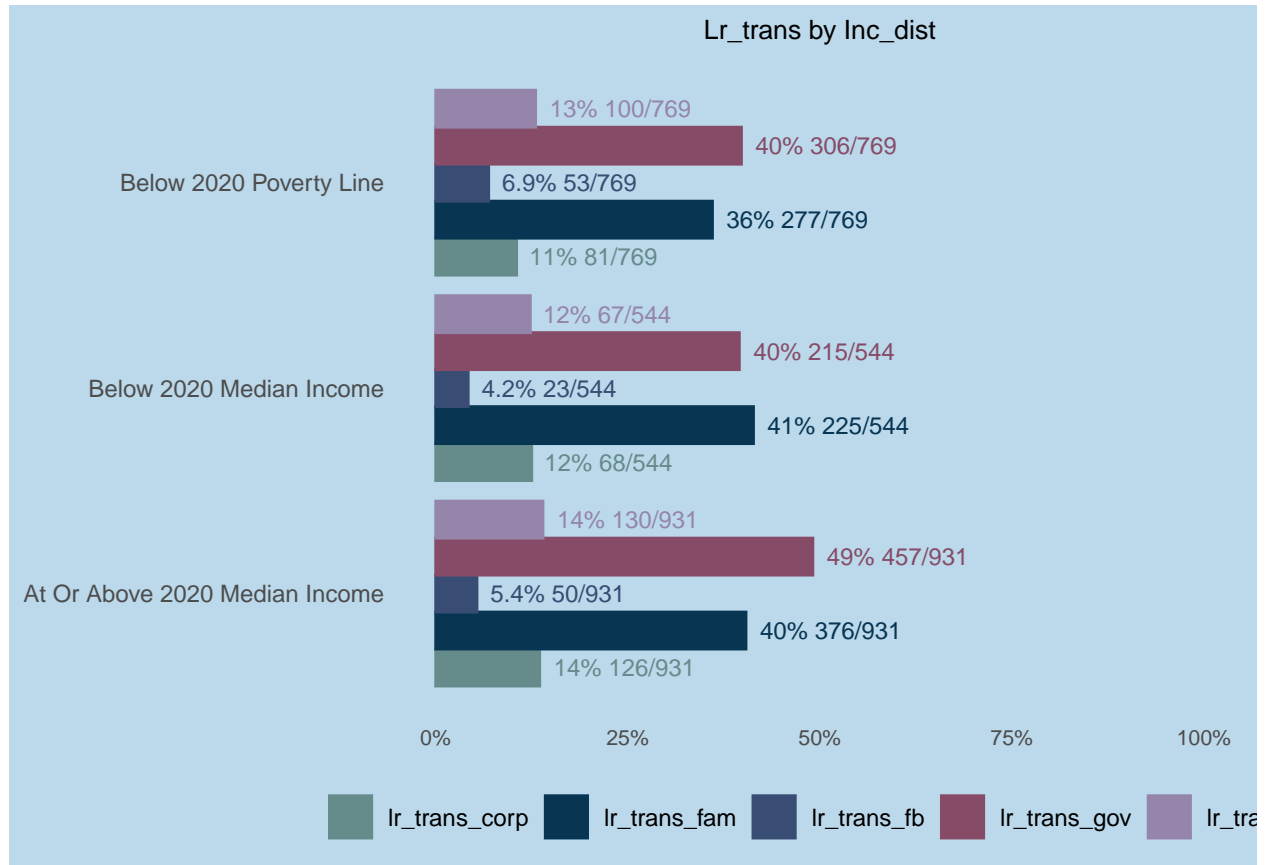
Lr_trans by Hh_sn_65_bi

Household With Seniors
- 11% 76/702
- 45% 317/702
- 4.1% 29/702
- 39% 271/702
- 8.8% 62/702

Household Without Seniors
- 14% 217/1501
- 43% 648/1501
- 6.3% 95/1501
- 39% 589/1501
- 14% 207/1501

Legend: lr_trans_corp, lr_trans_fam, lr_trans_fb, lr_trans_gov, lr_trans_

```
## 
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_trans_corp
##                            household with seniors household without seniors
## household with seniors                        NA                     0.0012
## household without seniors                 0.0012                         NA
## 
## $hh_sn_65_bi$p.values$lr_trans_fam
##                            household with seniors household without seniors
## household with seniors                        NA                         NA
## household without seniors                     NA                         NA
## 
## $hh_sn_65_bi$p.values$lr_trans_fb
##                            household with seniors household without seniors
## household with seniors                        NA                         NA
## household without seniors                     NA                         NA
## 
## $hh_sn_65_bi$p.values$lr_trans_gov
##                            household without seniors household with seniors
## household without seniors                        NA                        NA
## household with seniors                           NA                        NA
## 
## $hh_sn_65_bi$p.values$lr_trans_np
##                            household with seniors household without seniors
## household with seniors                        NA                         NA
## household without seniors                     NA                         NA
```

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



Lr_trans by Inc_dist

```
##
## $inc_dist$p.values
## $inc_dist$p.values$lr_trans_corp
##                               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                    NA                       NA
##                               at or above 2020 median income
## below 2020 poverty line                                    NA
## below 2020 median income                                   NA
## at or above 2020 median income                             NA
##
## $inc_dist$p.values$lr_trans_fam
##                               below 2020 poverty line
## below 2020 poverty line                           NA
## at or above 2020 median income                    NA
## below 2020 median income                          NA
##                               at or above 2020 median income
## below 2020 poverty line                                    NA
```

```
## at or above 2020 median income                               NA
## below 2020 median income                                      NA
##                              below 2020 median income
## below 2020 poverty line                        NA
## at or above 2020 median income                 NA
## below 2020 median income                        NA
##
## $inc_dist$p.values$lr_trans_fb
##                              below 2020 median income
## below 2020 median income                        NA
## at or above 2020 median income                  NA
## below 2020 poverty line                         NA
##                              at or above 2020 median income
## below 2020 median income                              NA
## at or above 2020 median income                        NA
## below 2020 poverty line                               NA
##                              below 2020 poverty line
## below 2020 median income                       NA
## at or above 2020 median income                 NA
## below 2020 poverty line                        NA
##
## $inc_dist$p.values$lr_trans_gov
##                              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             0.00046                  0.00015
##                              at or above 2020 median income
## below 2020 median income                         0.00046
## below 2020 poverty line                          0.00015
## at or above 2020 median income                        NA
##
## $inc_dist$p.values$lr_trans_np
##                              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                  NA                       NA
##                              at or above 2020 median income
## below 2020 median income                              NA
## below 2020 poverty line                               NA
## at or above 2020 median income                        NA
```
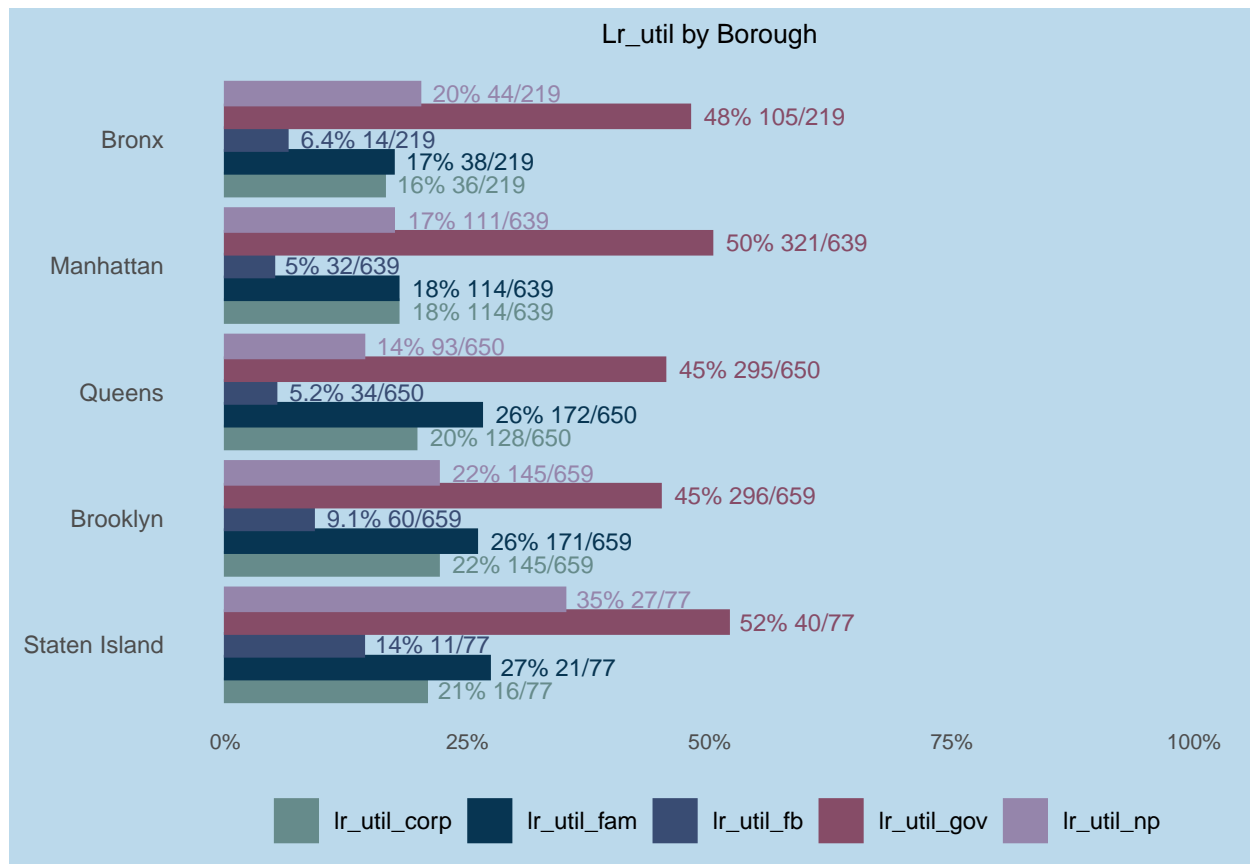
```r
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_util_corp", "lr_util_fam", "lr_util_fb", "]
```

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

Lr_util by Borough

| | Bronx | |
|---|---|---|
| | 20% 44/219 | |
| | 48% 105/219 | |
| | 6.4% 14/219 | |
| | 17% 38/219 | |
| | 16% 36/219 | |

(chart data labels)

Bronx
- 20% 44/219
- 48% 105/219
- 6.4% 14/219
- 17% 38/219
- 16% 36/219

Manhattan
- 17% 111/639
- 50% 321/639
- 5% 32/639
- 18% 114/639
- 18% 114/639

Queens
- 14% 93/650
- 45% 295/650
- 5.2% 34/650
- 26% 172/650
- 20% 128/650

Brooklyn
- 22% 145/659
- 45% 296/659
- 9.1% 60/659
- 26% 171/659
- 22% 145/659

Staten Island
- 35% 27/77
- 52% 40/77
- 14% 11/77
- 27% 21/77
- 21% 16/77

Legend: lr_util_corp  lr_util_fam  lr_util_fb  lr_util_gov  lr_util_np

```
##
## $borough$p.values
## $borough$p.values$lr_util_corp
##               bronx manhattan queens staten island brooklyn
## bronx            NA        NA     NA            NA       NA
## manhattan        NA        NA     NA            NA       NA
## queens           NA        NA     NA            NA       NA
## staten island    NA        NA     NA            NA       NA
## brooklyn         NA        NA     NA            NA       NA
##
## $borough$p.values$lr_util_fam
##               bronx manhattan brooklyn  queens staten island
## bronx            NA        NA       NA 0.00850            NA
## manhattan        NA        NA  0.00054 0.00025            NA
## brooklyn         NA   0.00054       NA      NA            NA
## queens       0.0085   0.00025       NA      NA            NA
## staten island    NA        NA       NA      NA            NA
##
## $borough$p.values$lr_util_fb
##               manhattan queens bronx brooklyn staten island
## manhattan            NA     NA    NA   0.0057            NA
## queens               NA     NA    NA   0.0091            NA
## bronx                NA     NA    NA       NA            NA
## brooklyn         0.0057 0.0091    NA       NA            NA
## staten island        NA     NA    NA       NA            NA
##
```

```
## $borough$p.values$lr_util_gov
##               brooklyn queens bronx manhattan staten island
## brooklyn            NA     NA    NA        NA            NA
## queens              NA     NA    NA        NA            NA
## bronx               NA     NA    NA        NA            NA
## manhattan           NA     NA    NA        NA            NA
## staten island       NA     NA    NA        NA            NA
##
## $borough$p.values$lr_util_np
##               queens manhattan bronx brooklyn staten island
## queens            NA        NA    NA    4e-04       7.6e-06
## manhattan         NA        NA    NA       NA       3.6e-04
## bronx             NA        NA    NA       NA            NA
## brooklyn       4.0e-04       NA    NA       NA            NA
## staten island  7.6e-06  0.00036    NA       NA            NA
##
##
##
## $gen
## NULL
##
## $race_census
## $race_census$plot
```



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

```
##
```
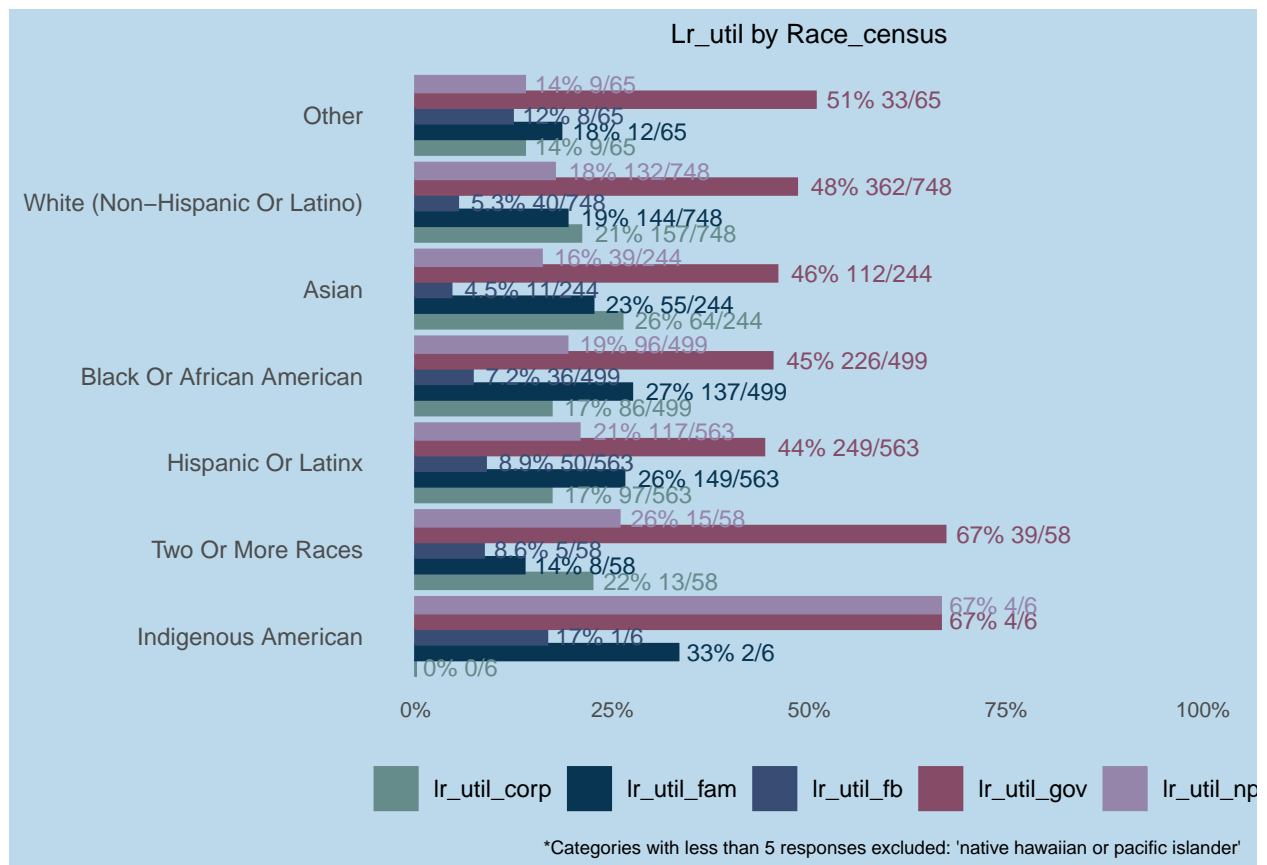
```
## $race_census$p.values
## $race_census$p.values$lr_util_corp
##                                  Indigenous American other hispanic or latinx
## Indigenous American                              NA    NA                   NA
## other                                            NA    NA                   NA
## hispanic or latinx                               NA    NA                   NA
## black or african american                        NA    NA                   NA
## white (non-hispanic or latino)                   NA    NA                   NA
## two or more races                                NA    NA                   NA
## asian                                            NA    NA               0.0045
##                                  black or african american
## Indigenous American                                     NA
## other                                                   NA
## hispanic or latinx                                      NA
## black or african american                               NA
## white (non-hispanic or latino)                          NA
## two or more races                                       NA
## asian                                               0.0056
##                                  white (non-hispanic or latino) two or more races
## Indigenous American                                          NA                NA
## other                                                        NA                NA
## hispanic or latinx                                           NA                NA
## black or african american                                    NA                NA
## white (non-hispanic or latino)                               NA                NA
## two or more races                                            NA                NA
## asian                                                        NA                NA
##                                  asian
## Indigenous American                 NA
## other                               NA
## hispanic or latinx              0.0045
## black or african american      0.0056
## white (non-hispanic or latino)     NA
## two or more races                  NA
## asian                              NA
##
## $race_census$p.values$lr_util_fam
##                                  two or more races other
## two or more races                               NA    NA
## other                                           NA    NA
## white (non-hispanic or latino)                  NA    NA
## asian                                           NA    NA
## hispanic or latinx                              NA    NA
## black or african american                       NA    NA
## Indigenous American                             NA    NA
##                                  white (non-hispanic or latino) asian
## two or more races                                            NA    NA
## other                                                        NA    NA
## white (non-hispanic or latino)                               NA    NA
## asian                                                        NA    NA
## hispanic or latinx                                      0.00240    NA
## black or african american                              0.00088    NA
## Indigenous American                                          NA    NA
##                                  hispanic or latinx black or african american
## two or more races                                NA                        NA
```

```
## other                                        NA                      NA
## white (non-hispanic or latino)           0.0024                 0.00088
## asian                                         NA                      NA
## hispanic or latinx                            NA                      NA
## black or african american                     NA                      NA
## Indigenous American                           NA                      NA
##                               Indigenous American
## two or more races                            NA
## other                                        NA
## white (non-hispanic or latino)               NA
## asian                                        NA
## hispanic or latinx                           NA
## black or african american                    NA
## Indigenous American                          NA
##
## $race_census$p.values$lr_util_fb
##                                 asian white (non-hispanic or latino)
## asian                              NA                              NA
## white (non-hispanic or latino)     NA                              NA
## black or african american          NA                              NA
## two or more races                  NA                              NA
## hispanic or latinx                 NA                              NA
## other                              NA                              NA
## Indigenous American                NA                              NA
##                                 black or african american two or more races
## asian                                                  NA                NA
## white (non-hispanic or latino)                         NA                NA
## black or african american                              NA                NA
## two or more races                                      NA                NA
## hispanic or latinx                                     NA                NA
## other                                                  NA                NA
## Indigenous American                                    NA                NA
##                                 hispanic or latinx other Indigenous American
## asian                                           NA    NA                  NA
## white (non-hispanic or latino)                  NA    NA                  NA
## black or african american                       NA    NA                  NA
## two or more races                               NA    NA                  NA
## hispanic or latinx                              NA    NA                  NA
## other                                           NA    NA                  NA
## Indigenous American                             NA    NA                  NA
##
## $race_census$p.values$lr_util_gov
##                                 hispanic or latinx black or african american
## hispanic or latinx                              NA                        NA
## black or african american                       NA                        NA
## asian                                           NA                        NA
## white (non-hispanic or latino)                  NA                        NA
## other                                           NA                        NA
## Indigenous American                             NA                        NA
## two or more races                           0.0013                    0.0025
##                                 asian white (non-hispanic or latino) other
## hispanic or latinx                 NA                              NA    NA
## black or african american          NA                              NA    NA
## asian                              NA                              NA    NA
```
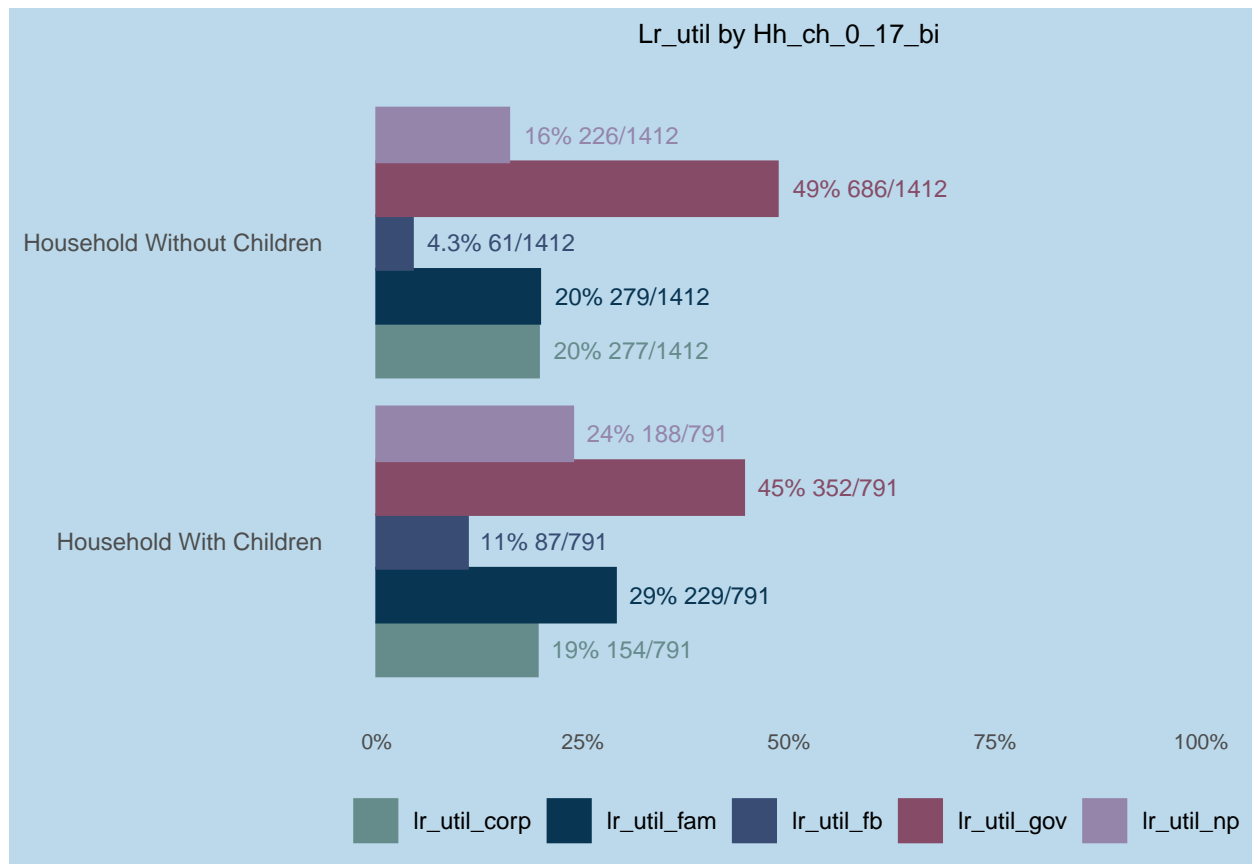
74

```
## white (non-hispanic or latino)        NA                              NA    NA
## other                                 NA                              NA    NA
## Indigenous American                   NA                              NA    NA
## two or more races            0.0055                          0.0086    NA
##                              Indigenous American two or more races
## hispanic or latinx                           NA           0.0013
## black or african american                    NA           0.0025
## asian                                        NA           0.0055
## white (non-hispanic or latino)               NA           0.0086
## other                                        NA               NA
## Indigenous American                          NA               NA
## two or more races                            NA               NA
##
## $race_census$p.values$lr_util_np
##                              other asian white (non-hispanic or latino)
## other                           NA    NA                              NA
## asian                           NA    NA                              NA
## white (non-hispanic or latino)  NA    NA                              NA
## black or african american       NA    NA                              NA
## hispanic or latinx              NA    NA                              NA
## two or more races               NA    NA                              NA
## Indigenous American             NA    NA                              NA
##                              black or african american hispanic or latinx
## other                                              NA                 NA
## asian                                              NA                 NA
## white (non-hispanic or latino)                     NA                 NA
## black or african american                          NA                 NA
## hispanic or latinx                                 NA                 NA
## two or more races                                  NA                 NA
## Indigenous American                                NA                 NA
##                              two or more races Indigenous American
## other                                       NA                  NA
## asian                                       NA                  NA
## white (non-hispanic or latino)              NA                  NA
## black or african american                   NA                  NA
## hispanic or latinx                          NA                  NA
## two or more races                           NA                  NA
## Indigenous American                         NA                  NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

Lr_util by Hh_ch_0_17_bi

```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$lr_util_corp
##                              household with children household without children
## household with children                          NA                         NA
## household without children                       NA                         NA
##
## $hh_ch_0_17_bi$p.values$lr_util_fam
##                              household without children household with children
## household without children                          NA                 1.2e-06
## household with children                        1.2e-06                      NA
##
## $hh_ch_0_17_bi$p.values$lr_util_fb
##                              household without children household with children
## household without children                          NA                 3.3e-09
## household with children                        3.3e-09                      NA
##
## $hh_ch_0_17_bi$p.values$lr_util_gov
##                              household with children household without children
## household with children                          NA                         NA
## household without children                       NA                         NA
##
## $hh_ch_0_17_bi$p.values$lr_util_np
##                              household without children household with children
## household without children                          NA                   1e-05
## household with children                          1e-05                      NA
```
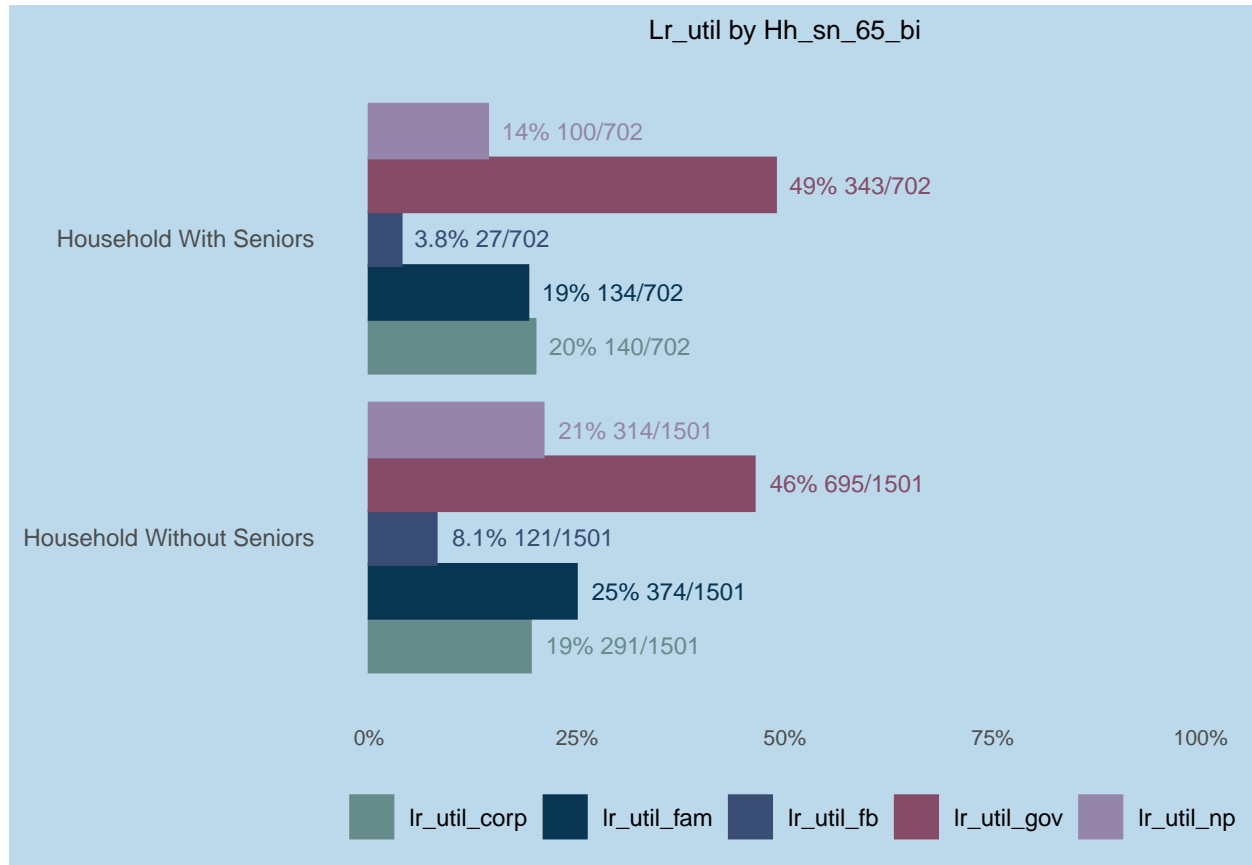
76

```
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_util_corp
##                           household without seniors household with seniors
## household without seniors                        NA                     NA
## household with seniors                           NA                     NA
##
## $hh_sn_65_bi$p.values$lr_util_fam
##                           household with seniors household without seniors
## household with seniors                        NA                     0.003
## household without seniors                  0.003                        NA
##
## $hh_sn_65_bi$p.values$lr_util_fb
##                           household with seniors household without seniors
## household with seniors                        NA                   0.00033
## household without seniors                0.00033                        NA
##
## $hh_sn_65_bi$p.values$lr_util_gov
##                           household without seniors household with seniors
```

```
## household without seniors                                    NA                          NA
## household with seniors                                       NA                          NA
##
## $hh_sn_65_bi$p.values$lr_util_np
##                             household with seniors household without seniors
## household with seniors                          NA                   0.00024
## household without seniors                   0.00024                        NA
##
##
##
## $inc_dist
## NULL
```
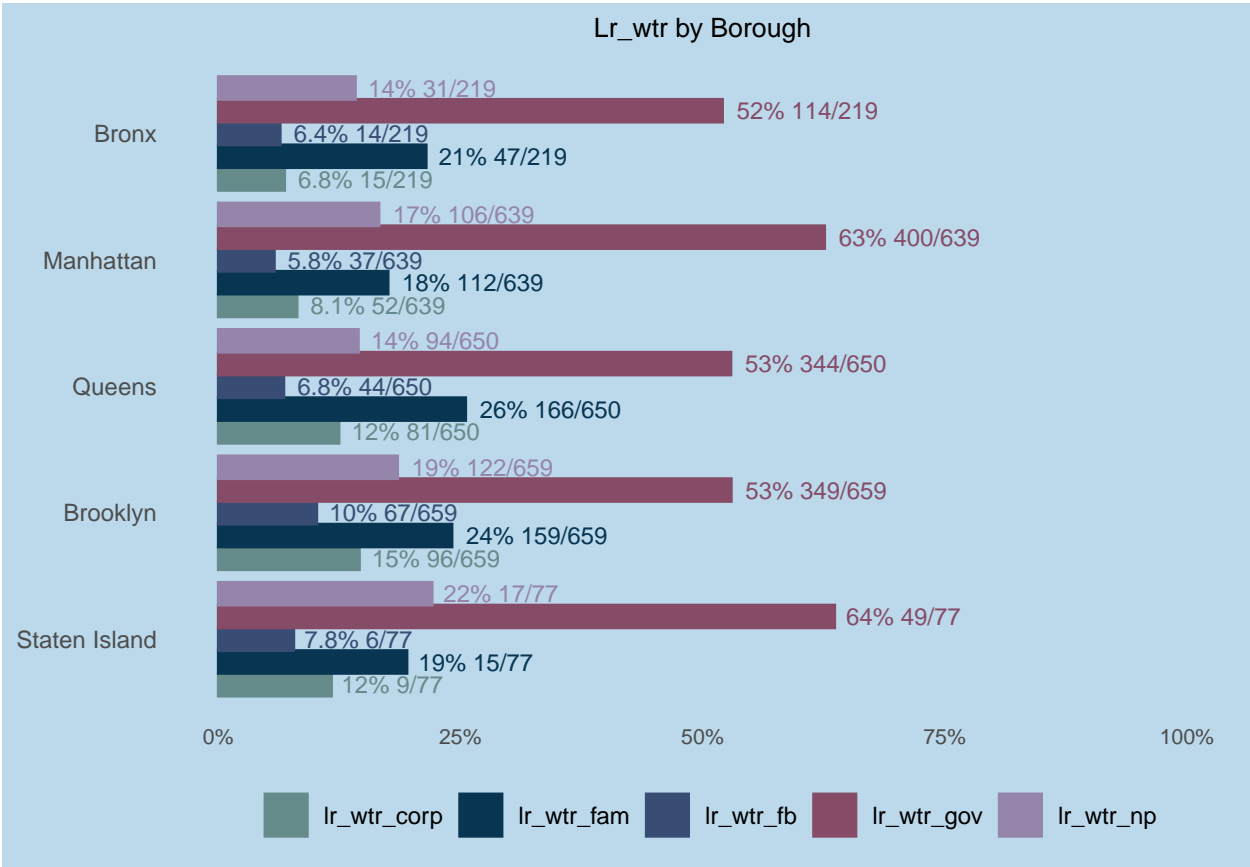
```
make_plots(wrangled, by_vars = demographics, hyp_var = c("lr_wtr_corp", "lr_wtr_fam", "lr_wtr_fb", "lr_w
```

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



```
##
## $borough$p.values
## $borough$p.values$lr_wtr_corp
##               bronx manhattan staten island queens brooklyn
## bronx            NA        NA            NA     NA  0.00420
## manhattan        NA        NA            NA     NA  0.00038
```

```
## staten island     NA        NA           NA    NA        NA
## queens            NA        NA           NA    NA        NA
## brooklyn      0.0042   0.00038           NA    NA        NA
##
## $borough$p.values$lr_wtr_fam
##              manhattan staten island bronx brooklyn  queens
## manhattan          NA            NA    NA   0.0043 0.00061
## staten island      NA            NA    NA       NA      NA
## bronx              NA            NA    NA       NA      NA
## brooklyn      0.00430            NA    NA       NA      NA
## queens        0.00061            NA    NA       NA      NA
##
## $borough$p.values$lr_wtr_fb
##              manhattan bronx queens staten island brooklyn
## manhattan          NA    NA    NA            NA   0.0051
## bronx              NA    NA    NA            NA       NA
## queens             NA    NA    NA            NA       NA
## staten island      NA    NA    NA            NA       NA
## brooklyn       0.0051    NA    NA            NA       NA
##
## $borough$p.values$lr_wtr_gov
##                bronx  queens brooklyn manhattan staten island
## bronx             NA      NA       NA   0.00760            NA
## queens            NA      NA       NA   0.00054            NA
## brooklyn          NA      NA       NA   0.00054            NA
## manhattan     0.0076 0.00054  0.00054        NA            NA
## staten island     NA      NA       NA        NA            NA
##
## $borough$p.values$lr_wtr_np
##              bronx queens manhattan brooklyn staten island
## bronx           NA     NA        NA       NA            NA
## queens          NA     NA        NA       NA            NA
## manhattan       NA     NA        NA       NA            NA
## brooklyn        NA     NA        NA       NA            NA
## staten island   NA     NA        NA       NA            NA
##
##
##
## $gen
## $gen$plot
```

Lr_wtr by Gen
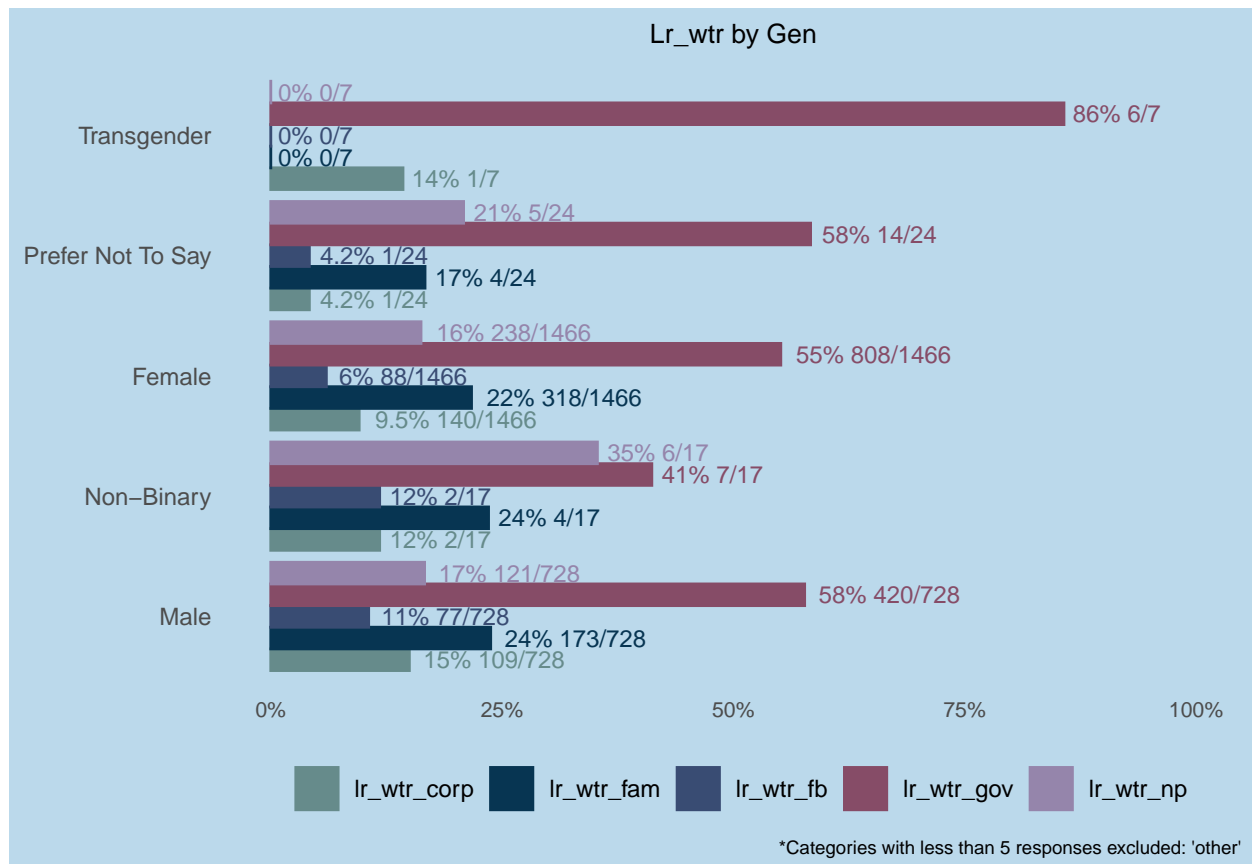
```
##
## $gen$p.values
## $gen$p.values$lr_wtr_corp
##                   prefer not to say  female non-binary transgender    male
## prefer not to say                NA      NA        NA          NA      NA
## female                           NA      NA        NA          NA 0.00022
## non-binary                       NA      NA        NA          NA      NA
## transgender                      NA      NA        NA          NA      NA
## male                             NA 0.00022        NA          NA      NA
##
## $gen$p.values$lr_wtr_fam
##                   transgender prefer not to say female non-binary male
## transgender                NA                NA     NA         NA   NA
## prefer not to say          NA                NA     NA         NA   NA
## female                     NA                NA     NA         NA   NA
## non-binary                 NA                NA     NA         NA   NA
## male                       NA                NA     NA         NA   NA
##
## $gen$p.values$lr_wtr_fb
##                   transgender prefer not to say  female    male non-binary
## transgender                NA                NA      NA      NA         NA
## prefer not to say          NA                NA      NA      NA         NA
## female                     NA                NA      NA 0.00018         NA
## male                       NA                NA 0.00018      NA         NA
## non-binary                 NA                NA      NA      NA         NA
##
```

```
## $gen$p.values$lr_wtr_gov
##                    non-binary female male prefer not to say transgender
## non-binary                 NA     NA   NA                NA          NA
## female                     NA     NA   NA                NA          NA
## male                       NA     NA   NA                NA          NA
## prefer not to say          NA     NA   NA                NA          NA
## transgender                NA     NA   NA                NA          NA
##
## $gen$p.values$lr_wtr_np
##                    transgender female male prefer not to say non-binary
## transgender                 NA     NA   NA                NA         NA
## female                      NA     NA   NA                NA         NA
## male                        NA     NA   NA                NA         NA
## prefer not to say           NA     NA   NA                NA         NA
## non-binary                  NA     NA   NA                NA         NA
##
##
##
## $race_census
## $race_census$plot
```
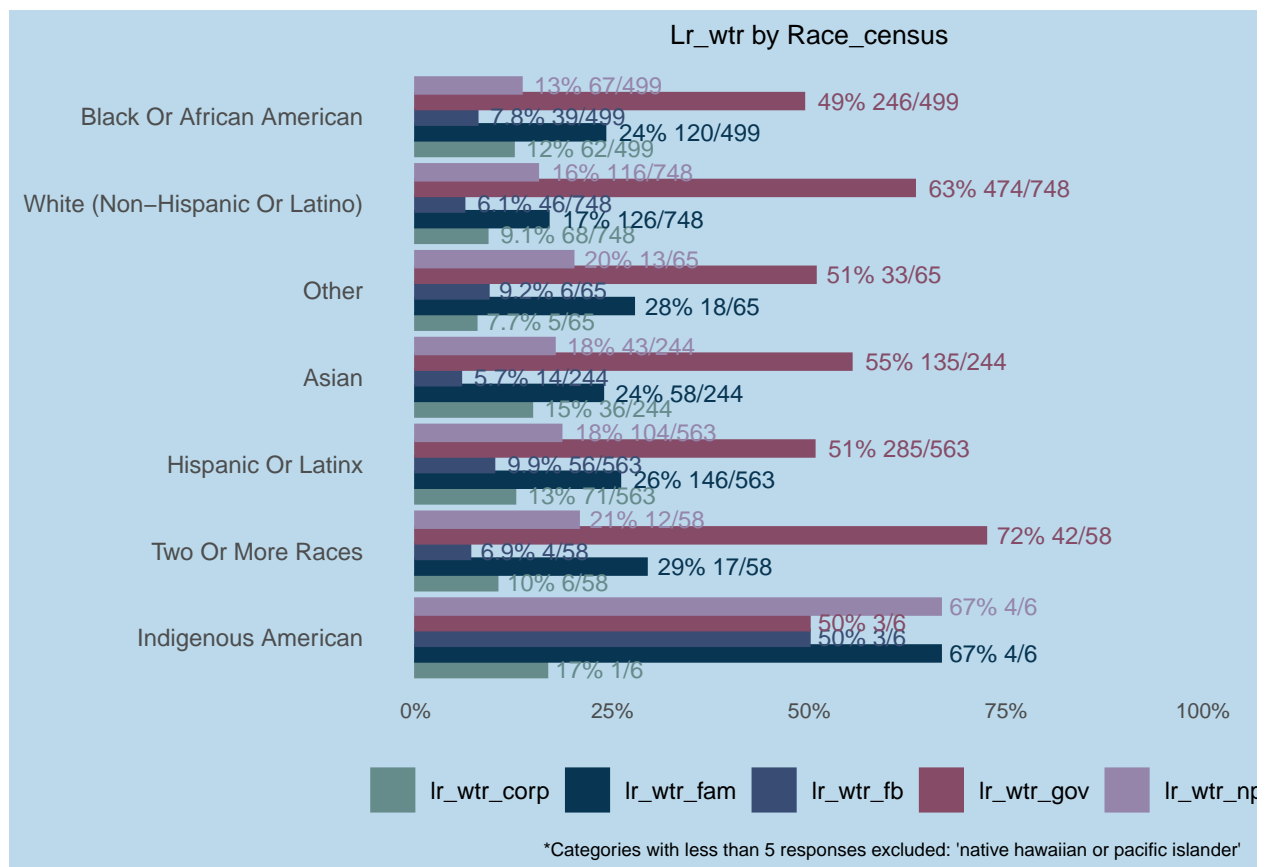


```
##
## $race_census$p.values
## $race_census$p.values$lr_wtr_corp
##                              other white (non-hispanic or latino)
```

```
## other                              NA                              NA
## white (non-hispanic or latino)    NA                              NA
## two or more races                 NA                              NA
## black or african american         NA                              NA
## hispanic or latinx                NA                              NA
## asian                             NA                              NA
## Indigenous American               NA                              NA
##                              two or more races black or african american
## other                                      NA                         NA
## white (non-hispanic or latino)             NA                         NA
## two or more races                          NA                         NA
## black or african american                  NA                         NA
## hispanic or latinx                         NA                         NA
## asian                                      NA                         NA
## Indigenous American                        NA                         NA
##                              hispanic or latinx asian Indigenous American
## other                                        NA    NA                  NA
## white (non-hispanic or latino)               NA    NA                  NA
## two or more races                            NA    NA                  NA
## black or african american                    NA    NA                  NA
## hispanic or latinx                           NA    NA                  NA
## asian                                        NA    NA                  NA
## Indigenous American                          NA    NA                  NA
##
## $race_census$p.values$lr_wtr_fam
##                              white (non-hispanic or latino) asian
## white (non-hispanic or latino)                          NA    NA
## asian                                                   NA    NA
## black or african american                           2.2e-03    NA
## hispanic or latinx                                  7.9e-05    NA
## other                                                   NA    NA
## two or more races                                       NA    NA
## Indigenous American                                     NA    NA
##                              black or african american hispanic or latinx
## white (non-hispanic or latino)                  0.0022            7.9e-05
## asian                                               NA                 NA
## black or african american                           NA                 NA
## hispanic or latinx                                  NA                 NA
## other                                               NA                 NA
## two or more races                                   NA                 NA
## Indigenous American                                 NA                 NA
##                              other two or more races Indigenous American
## white (non-hispanic or latino)    NA                NA                  NA
## asian                             NA                NA                  NA
## black or african american         NA                NA                  NA
## hispanic or latinx                NA                NA                  NA
## other                             NA                NA                  NA
## two or more races                 NA                NA                  NA
## Indigenous American               NA                NA                  NA
##
## $race_census$p.values$lr_wtr_fb
##                              asian white (non-hispanic or latino)
## asian                           NA                              NA
## white (non-hispanic or latino)  NA                              NA
```

```
## two or more races             NA                            NA
## black or african american     NA                            NA
## other                         NA                            NA
## hispanic or latinx            NA                            NA
## Indigenous American           NA                            NA
##                                 two or more races black or african american
## asian                                        NA                          NA
## white (non-hispanic or latino)              NA                          NA
## two or more races                           NA                          NA
## black or african american                   NA                          NA
## other                                       NA                          NA
## hispanic or latinx                          NA                          NA
## Indigenous American                         NA                          NA
##                                 other hispanic or latinx Indigenous American
## asian                           NA                  NA                  NA
## white (non-hispanic or latino)  NA                  NA                  NA
## two or more races               NA                  NA                  NA
## black or african american       NA                  NA                  NA
## other                           NA                  NA                  NA
## hispanic or latinx              NA                  NA                  NA
## Indigenous American             NA                  NA                  NA
##
## $race_census$p.values$lr_wtr_gov
##                                 black or african american Indigenous American
## black or african american                            NA                  NA
## Indigenous American                                  NA                  NA
## hispanic or latinx                                   NA                  NA
## other                                                NA                  NA
## asian                                                NA                  NA
## white (non-hispanic or latino)                  1.1e-06                  NA
## two or more races                               1.4e-03                  NA
##                                 hispanic or latinx other asian
## black or african american                       NA    NA    NA
## Indigenous American                             NA    NA    NA
## hispanic or latinx                              NA    NA    NA
## other                                           NA    NA    NA
## asian                                           NA    NA    NA
## white (non-hispanic or latino)             4.9e-06    NA    NA
## two or more races                          2.5e-03    NA    NA
##                                 white (non-hispanic or latino) two or more races
## black or african american                              1.1e-06            0.0014
## Indigenous American                                         NA                NA
## hispanic or latinx                                     4.9e-06            0.0025
## other                                                      NA                NA
## asian                                                      NA                NA
## white (non-hispanic or latino)                             NA                NA
## two or more races                                          NA                NA
##
## $race_census$p.values$lr_wtr_np
##                                 black or african american
## black or african american                            NA
## white (non-hispanic or latino)                       NA
## asian                                                NA
## hispanic or latinx                                   NA
```
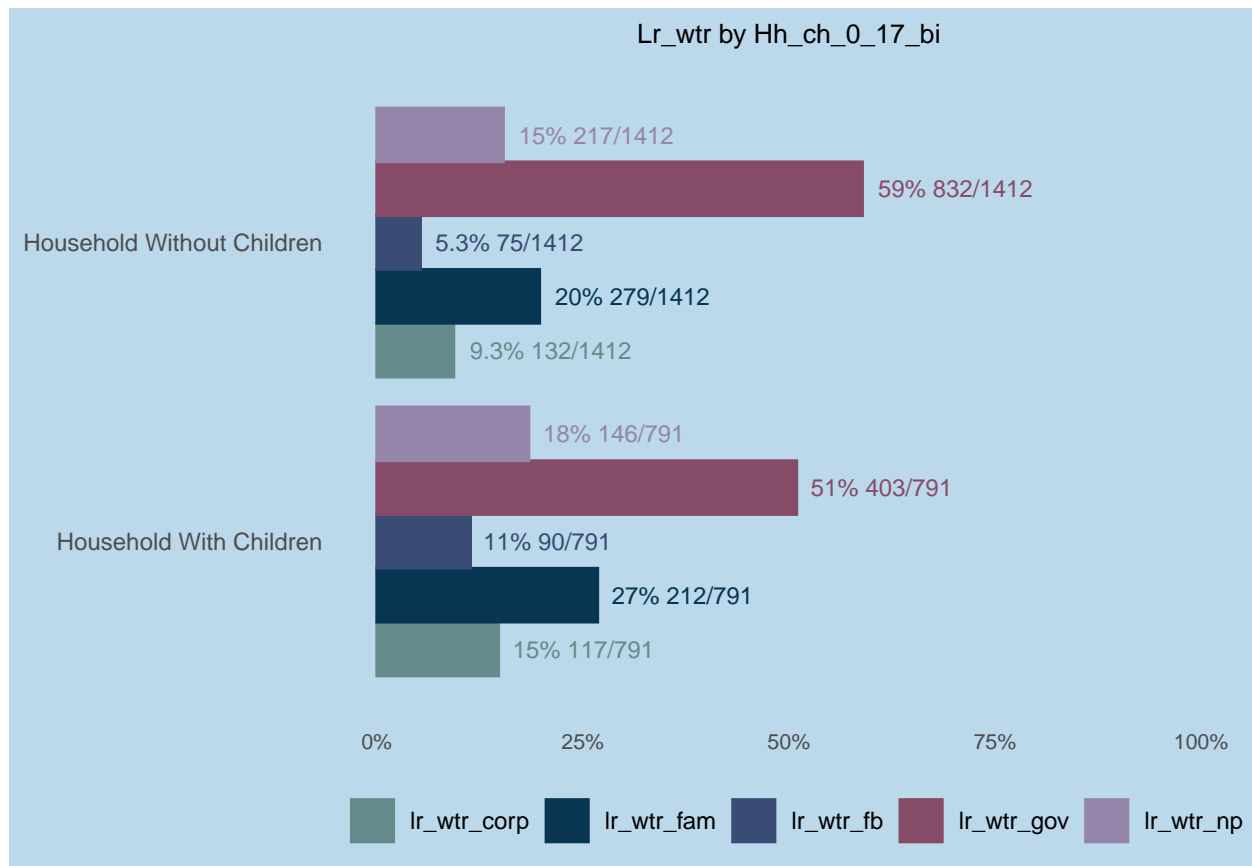
```
## other                                             NA
## two or more races                                 NA
## Indigenous American                                NA
##                           white (non-hispanic or latino) asian
## black or african american                             NA    NA
## white (non-hispanic or latino)                         NA    NA
## asian                                                 NA    NA
## hispanic or latinx                                    NA    NA
## other                                                 NA    NA
## two or more races                                     NA    NA
## Indigenous American                                   NA    NA
##                           hispanic or latinx other two or more races
## black or african american                  NA    NA              NA
## white (non-hispanic or latino)             NA    NA              NA
## asian                                      NA    NA              NA
## hispanic or latinx                         NA    NA              NA
## other                                      NA    NA              NA
## two or more races                          NA    NA              NA
## Indigenous American                        NA    NA              NA
##                           Indigenous American
## black or african american                  NA
## white (non-hispanic or latino)             NA
## asian                                      NA
## hispanic or latinx                         NA
## other                                      NA
## two or more races                          NA
## Indigenous American                        NA
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

84

Lr_wtr by Hh_ch_0_17_bi

Household Without Children
- 15% 217/1412
- 59% 832/1412
- 5.3% 75/1412
- 20% 279/1412
- 9.3% 132/1412

Household With Children
- 18% 146/791
- 51% 403/791
- 11% 90/791
- 27% 212/791
- 15% 117/791

Legend: lr_wtr_corp, lr_wtr_fam, lr_wtr_fb, lr_wtr_gov, lr_wtr_np

```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$lr_wtr_corp
##                              household without children household with children
## household without children                         NA                 0.00014
## household with children                       0.00014                      NA
##
## $hh_ch_0_17_bi$p.values$lr_wtr_fam
##                              household without children household with children
## household without children                         NA                 0.00017
## household with children                       0.00017                      NA
##
## $hh_ch_0_17_bi$p.values$lr_wtr_fb
##                              household without children household with children
## household without children                         NA                  3.3e-07
## household with children                       3.3e-07                      NA
##
## $hh_ch_0_17_bi$p.values$lr_wtr_gov
##                              household with children household without children
## household with children                            NA                 0.00035
## household without children                    0.00035                      NA
##
## $hh_ch_0_17_bi$p.values$lr_wtr_np
##                              household without children household with children
## household without children                         NA                      NA
## household with children                            NA                      NA
```

```
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```
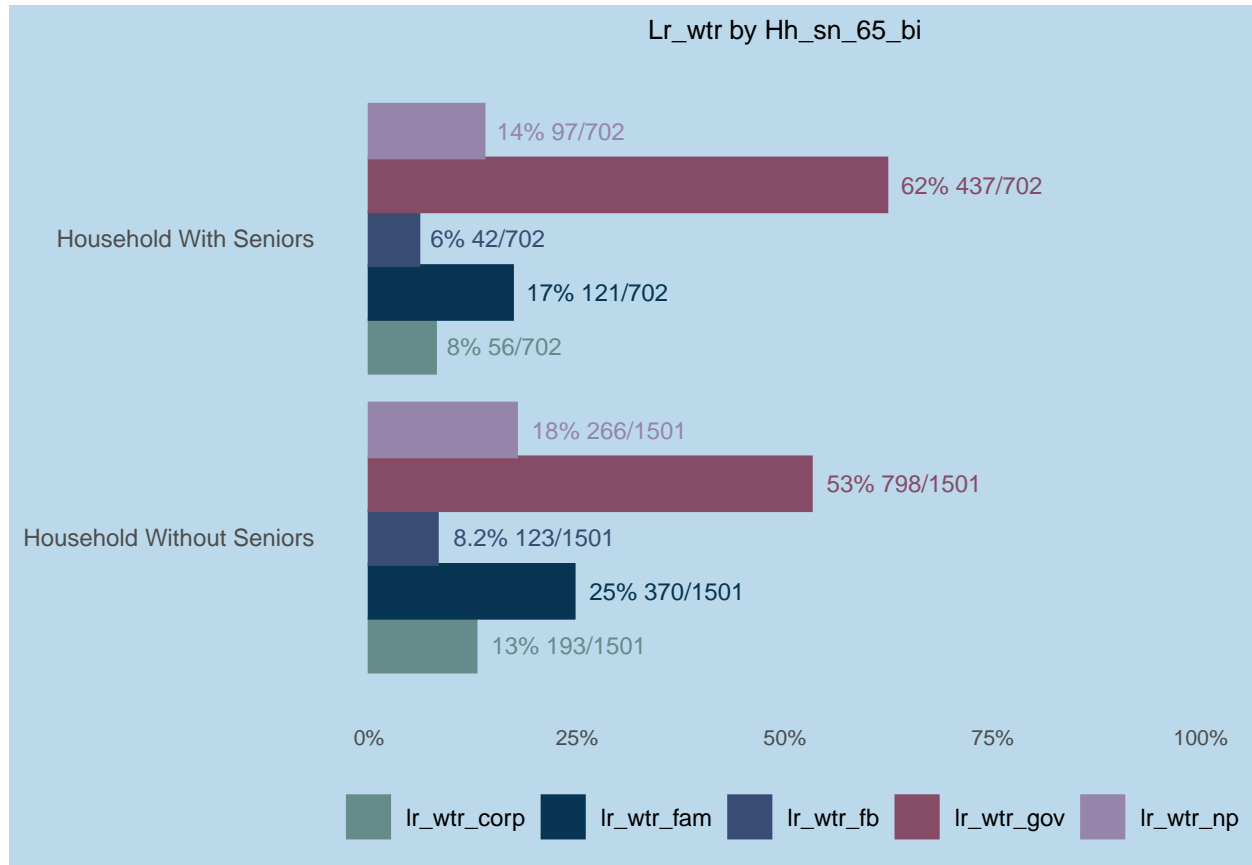


```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$lr_wtr_corp
##                          household with seniors household without seniors
## household with seniors                      NA                   0.00097
## household without seniors              0.00097                        NA
##
## $hh_sn_65_bi$p.values$lr_wtr_fam
##                          household with seniors household without seniors
## household with seniors                      NA                   0.00012
## household without seniors              0.00012                        NA
##
## $hh_sn_65_bi$p.values$lr_wtr_fb
##                          household with seniors household without seniors
## household with seniors                      NA                        NA
## household without seniors                   NA                        NA
##
## $hh_sn_65_bi$p.values$lr_wtr_gov
##                          household without seniors household with seniors
```

```
## household without seniors                          NA                    7.6e-05
## household with seniors                        7.6e-05                        NA
##
## $hh_sn_65_bi$p.values$lr_wtr_np
##                           household with seniors household without seniors
## household with seniors                       NA                        NA
## household without seniors                    NA                        NA
##
##
##
## $inc_dist
## $inc_dist$plot
```
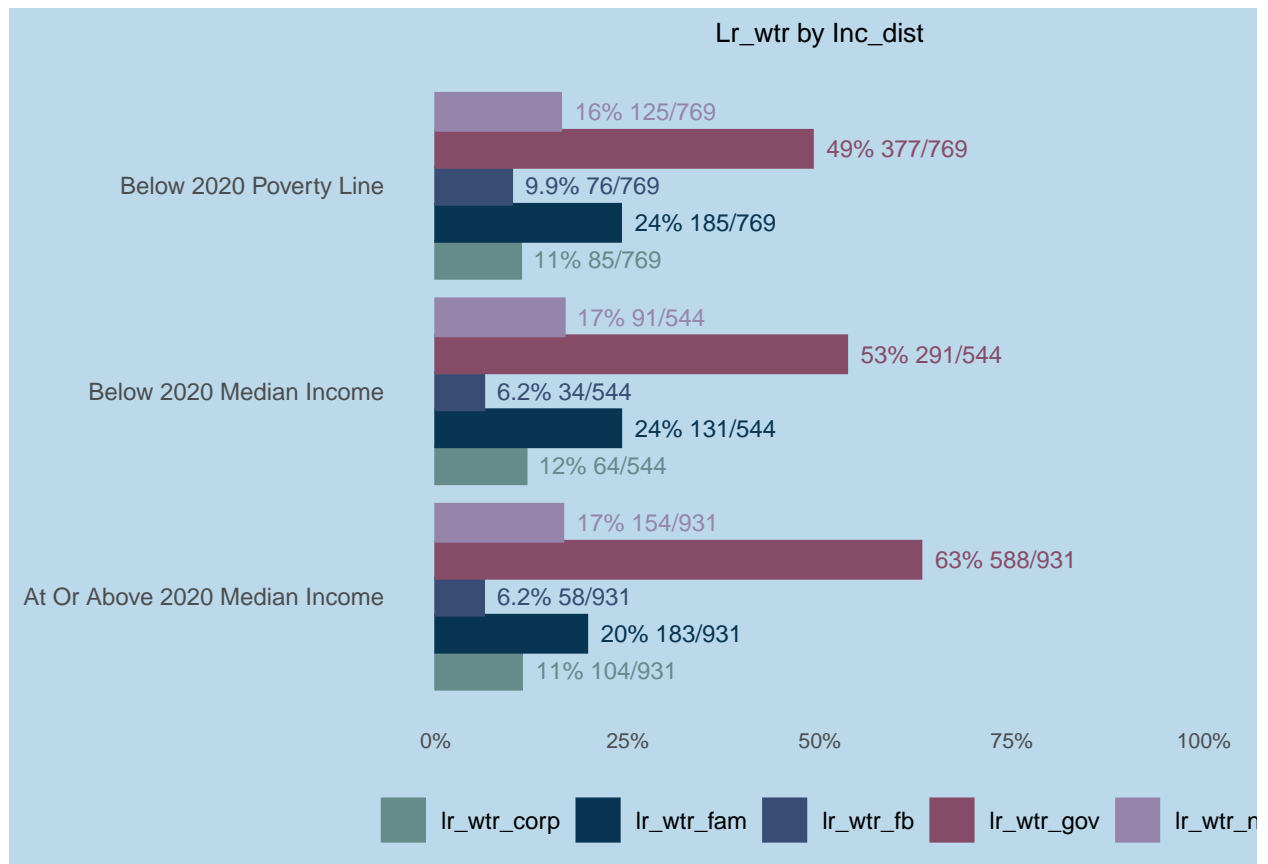


```
##
## $inc_dist$p.values
## $inc_dist$p.values$lr_wtr_corp
##                              below 2020 poverty line
## below 2020 poverty line                          NA
## at or above 2020 median income                   NA
## below 2020 median income                         NA
##                              at or above 2020 median income
## below 2020 poverty line                                  NA
## at or above 2020 median income                           NA
## below 2020 median income                                 NA
##                              below 2020 median income
```

87

```
## below 2020 poverty line                                    NA
## at or above 2020 median income                             NA
## below 2020 median income                                   NA
##
## $inc_dist$p.values$lr_wtr_fam
##                                   at or above 2020 median income
## at or above 2020 median income                               NA
## below 2020 poverty line                                      NA
## below 2020 median income                                     NA
##                                   below 2020 poverty line below 2020 median income
## at or above 2020 median income                        NA                        NA
## below 2020 poverty line                               NA                        NA
## below 2020 median income                              NA                        NA
##
## $inc_dist$p.values$lr_wtr_fb
##                                   at or above 2020 median income
## at or above 2020 median income                               NA
## below 2020 median income                                     NA
## below 2020 poverty line                                   0.0071
##                                   below 2020 median income below 2020 poverty line
## at or above 2020 median income                        NA                    0.0071
## below 2020 median income                              NA                        NA
## below 2020 poverty line                               NA                        NA
##
## $inc_dist$p.values$lr_wtr_gov
##                                   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                   6.4e-09                   0.00032
##                                   at or above 2020 median income
## below 2020 poverty line                                 6.4e-09
## below 2020 median income                                3.2e-04
## at or above 2020 median income                               NA
##
## $inc_dist$p.values$lr_wtr_np
##                                   below 2020 poverty line
## below 2020 poverty line                               NA
## at or above 2020 median income                        NA
## below 2020 median income                              NA
##                                   at or above 2020 median income
## below 2020 poverty line                               NA
## at or above 2020 median income                        NA
## below 2020 median income                              NA
##                                   below 2020 median income
## below 2020 poverty line                               NA
## at or above 2020 median income                        NA
## below 2020 median income                              NA
```

#Demographic plots here omitted if they do not show more than one statistically significant result.