

plan_of_analysis

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1.2) People who are currently unemployed who were not unemployed in before the pandemic (March 2020) [14&15]

The following plots indicate different demographics whose proportions of individuals who lost there jobs during the pandemic. Categories with fewer than `rmin_exclude` responses were excluded from the calculation. The p-values are provided on the plots.

```
plots <- lapply(setNames(dems_employment, dems_employment), function(item) {  
  min_exclude <- 5  
  #for(item in dems_employment) {  
    sym_item <- sym(item)  
  
    reshaped <- poa %>% filter(!str_detect(emp_b, "unemp")) %>%  
      count(!sym_item, unemployed = emp_status_a == "unemployed") %>%  
      group_by(!sym_item) %>% mutate(prop = round(n/sum(n), digits = 4), denom = sum(n)) %>%
```

```

# for this particular instance, successes will always be smaller than failers
filter(unemployed, !str_detect(!!sym_item, "prefer|;")) %>%
# get rid of 10s
#filter_at(item, ~!str_detect(., "10s")) %>%
ungroup %>% mutate(width = denom/sum(denom))

filtered <- reshaped %>% filter(n >= min_exclude) %>%
  select(-unemployed, -width)

p.values <- c()

for(cat in filtered[[item]]) {
  for(cat2 in filtered[[item]]) {
    if(cat == cat2) {
      next
    } else {
      temp <- filtered[filtered[[item]] == cat,][c("n", "denom")] %>%
        rbind(filtered[filtered[[item]] == cat2,][c("n", "denom")])
      p.value <- prop.test(temp$n, temp$denom)$p.value
      names(p.value) <- glue::glue("{cat} & {cat2} p-value:")
      if(p.value <= 0.1 & !glue::glue("{cat2} & {cat} p-value:") %in% names(p.values)) {
        p.values <- c(p.values, p.value)
      } else {
        next
      }
    }
  }
}

if(is.null(p.values)) {
  return(NULL)
} else {
plot <- reshaped %>%
  filter(n >= min_exclude) %>%
  ggplot(aes(x = prop, y = #stringr::str_to_title(labelled::to_character(!!sym_item))
    reorder(stringr::str_to_title(labelled::to_character(!!sym_item)), prop)#,
    #width = width, alpha = n
  )) +
  geom_col(fill = project_pal[4]) +
  scale_x_continuous(labels = scales::percent) +
  xlab(NULL) + ylab(NULL) + scale_color_discrete(guide = "legend", name = item) + ggtitle(item) +
  ggtitle(glue::glue("Percent Newly Unemployed by {stringr::str_to_title(item)}")) +
  project_theme + labs(subtitle = paste(names(p.values), signif(p.values, 2),
    collapse = "\n")) +
  geom_text(aes(label = glue::glue("{scales::percent(prop)}\n{n}/{denom}")),
    color = project_pal[1], hjust = 1.2)

if(min(reshaped$n) < min_exclude) {
  pulled <- reshaped %>% filter(n < min_exclude) %>%
    mutate_if(labelled::is.labelled, labelled::to_character) %>%
    pull(!!sym_item)
  cats <- glue::glue("'{pulled}'") %>%
    paste(collapse = ", ")
}

```

```

    plot <- plot +
      labs(caption = glue::glue("*Categories with fewer than {min_exclude} responses excluded: '{cats}'")
    )
    return(plot)
  }
  #print(plot)
  #}
})

```

```

## Warning in prop.test(temp$n, temp$denom): Chi-squared approximation may be
## incorrect

```

```

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```

```

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```

```

## Warning in prop.test(temp$n, temp$denom): Chi-squared approximation may be
## incorrect

```

```

## Warning in prop.test(temp$n, temp$denom): Chi-squared approximation may be
## incorrect

```

```

## Warning in prop.test(temp$n, temp$denom): Chi-squared approximation may be
## incorrect

```

```

plots$not_eng <- plots$not_eng +
  ggtitle("Percent Newly Unemployed by\nwhether or not English is Spoken at Home") +

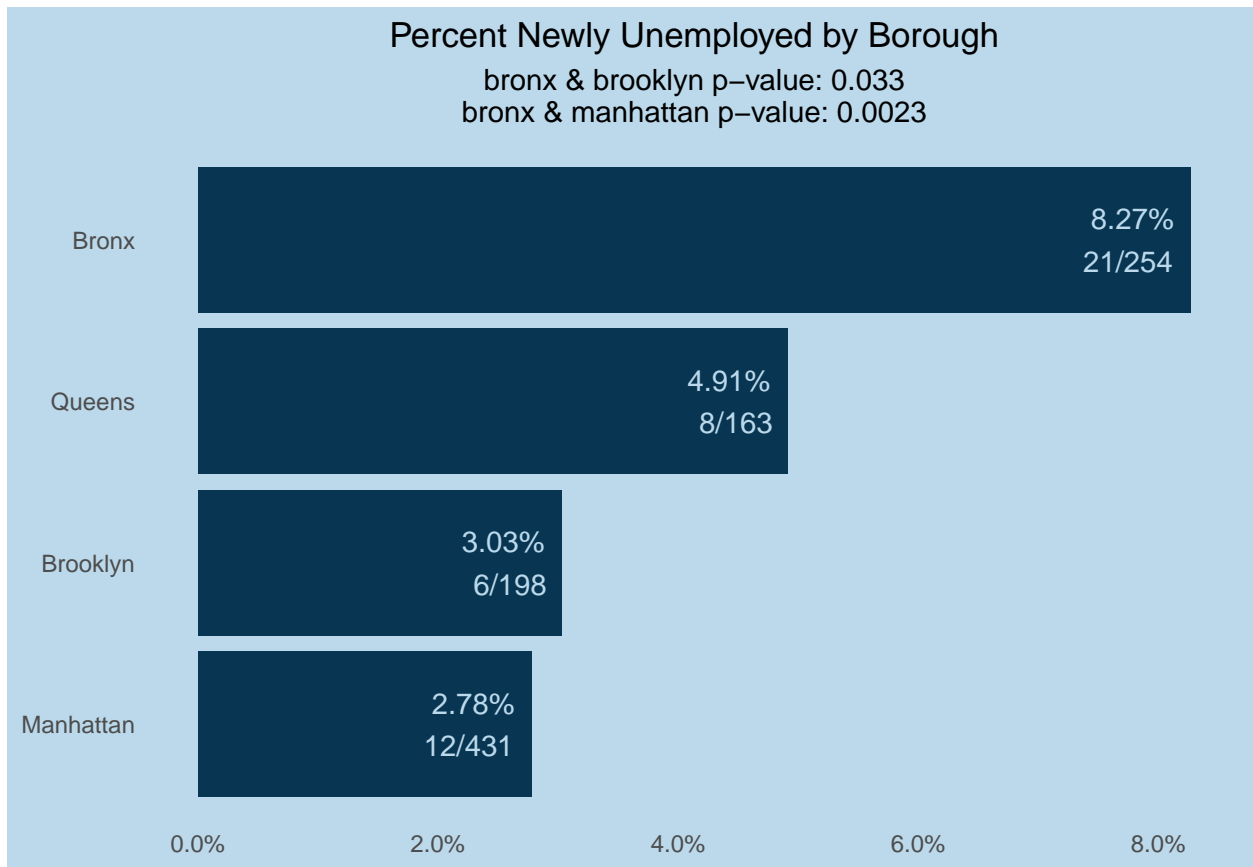
```

```

scale_y_discrete(labels = c("English", "Not English"))
plots$hh_ch_0_17_bi <- plots$hh_ch_0_17_bi +
  ggtitle("Percent Newly Unemployed by Presence of Children at Home")
plots$inc_dist <- plots$inc_dist +
  ggtitle("Percent Newly Unemployed by Income Category")
#plots$res_cat <- plots$res_cat + ggtitle("Percent Newly Unemployed by Residence Category")
#plots$race_weight <- plots$race_weight + ggtitle("Percent Newly Unemployed by Race")
plots

```

```
## $borough
```

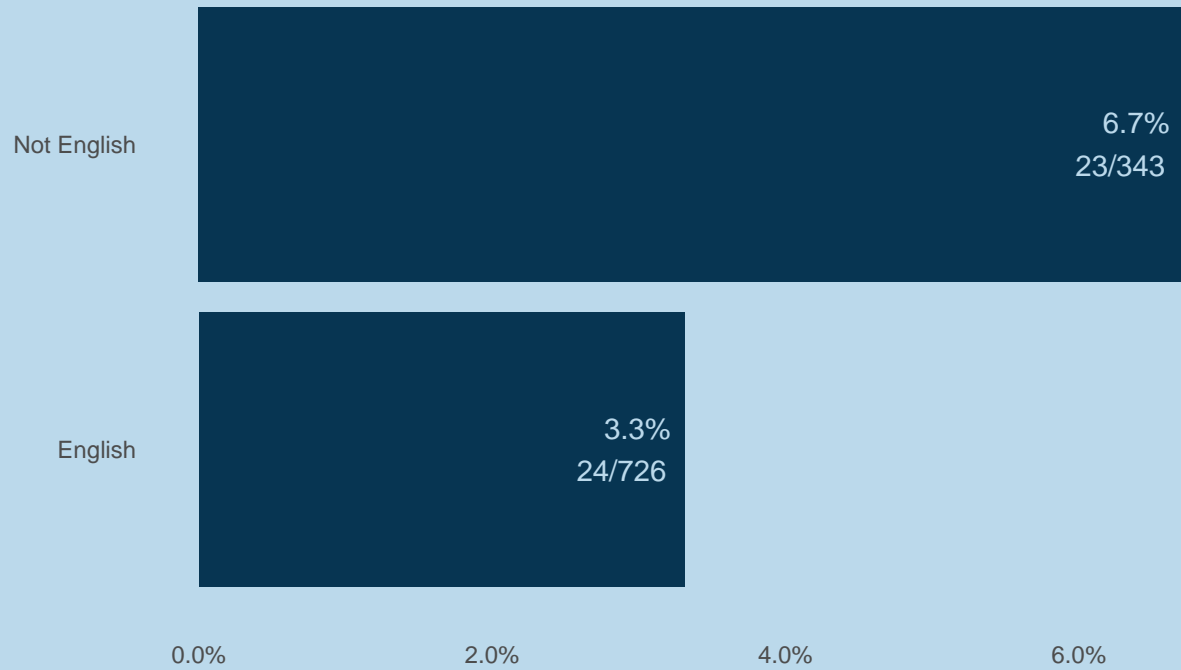


```

##
## $decade
## NULL
##
## $gen
## NULL
##
## $not_eng

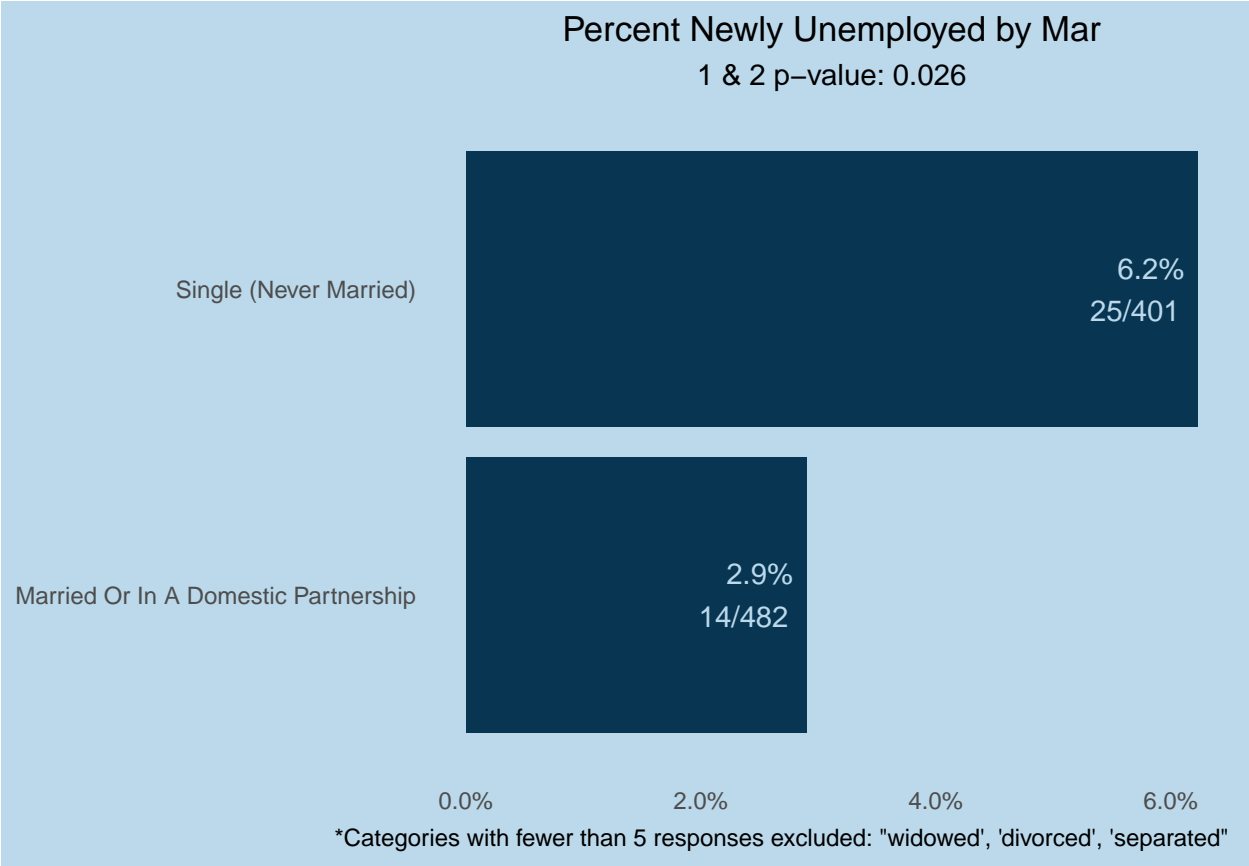
```

Percent Newly Unemployed by
whether or not English is Spoken at Home
0 & 1 p-value: 0.018

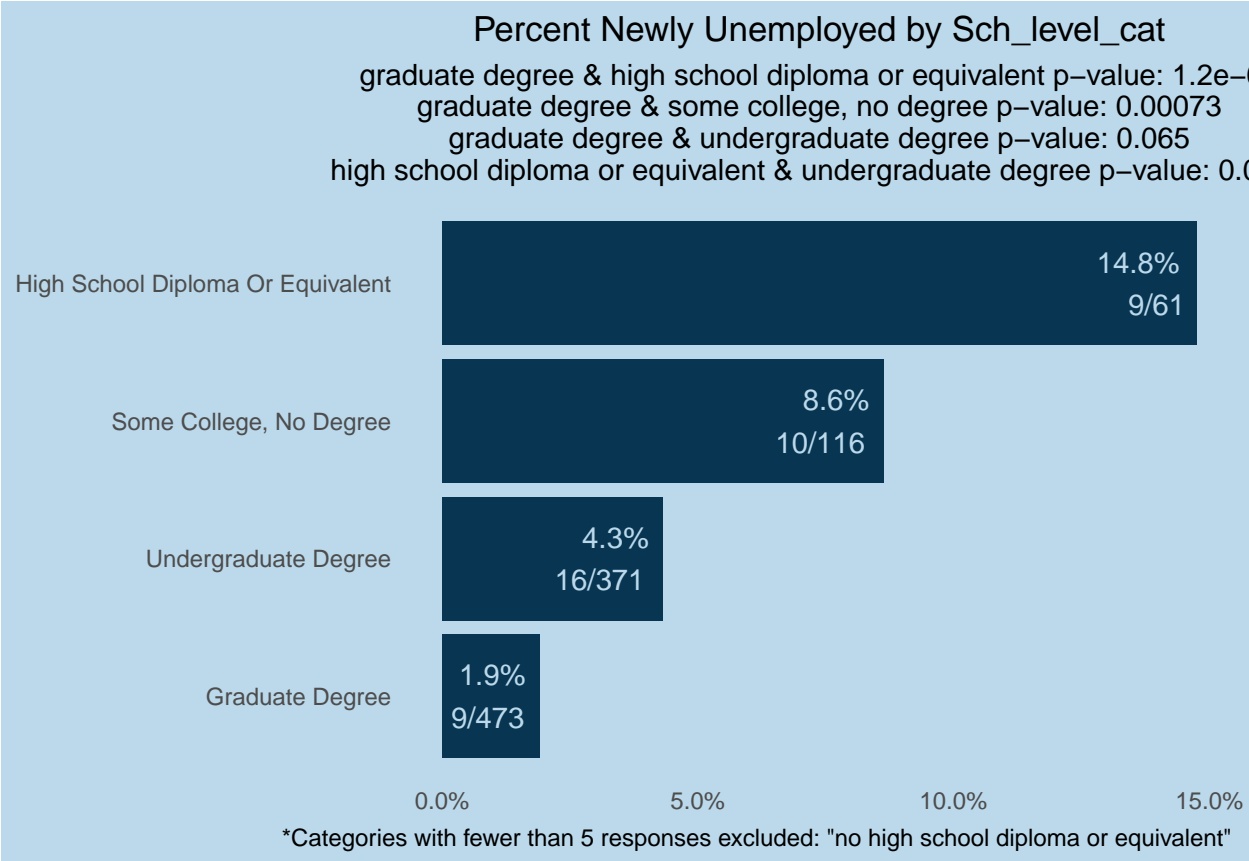


##

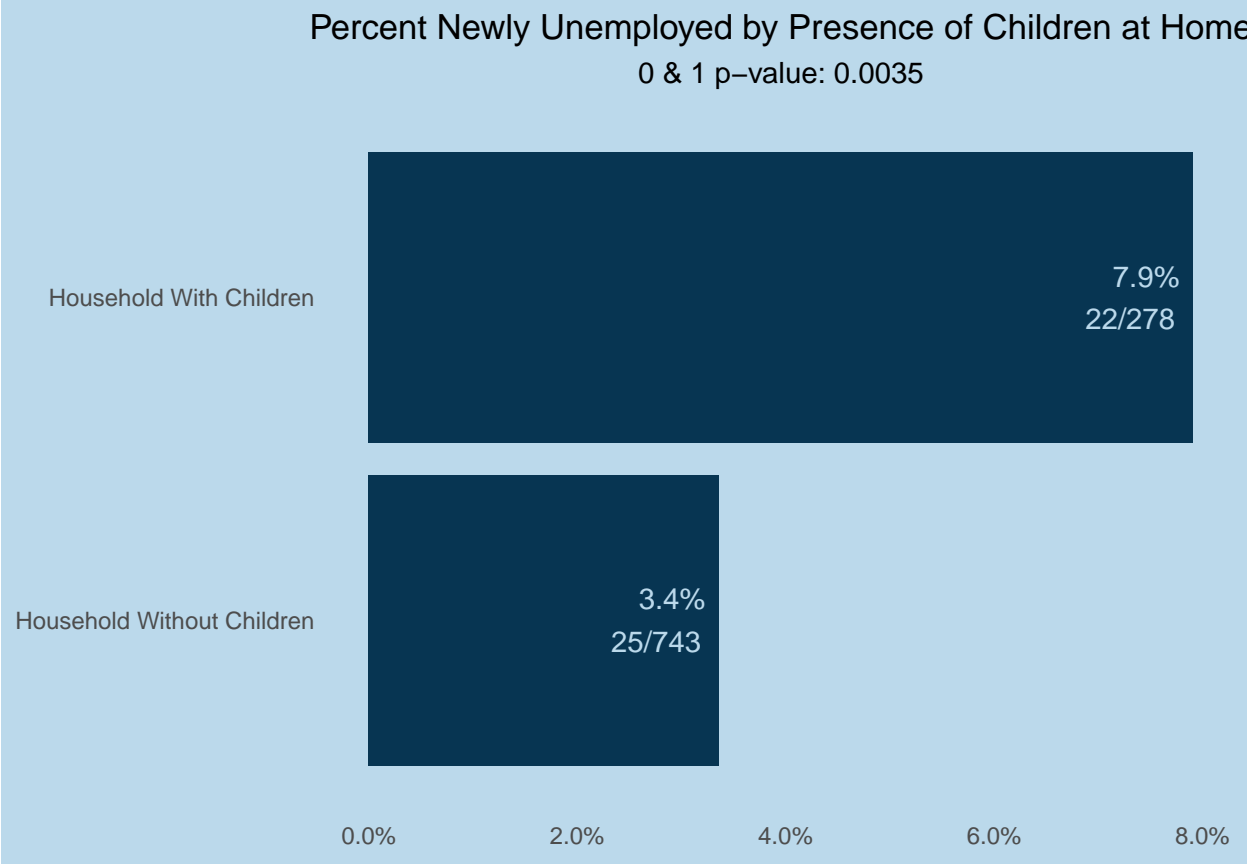
\$mar



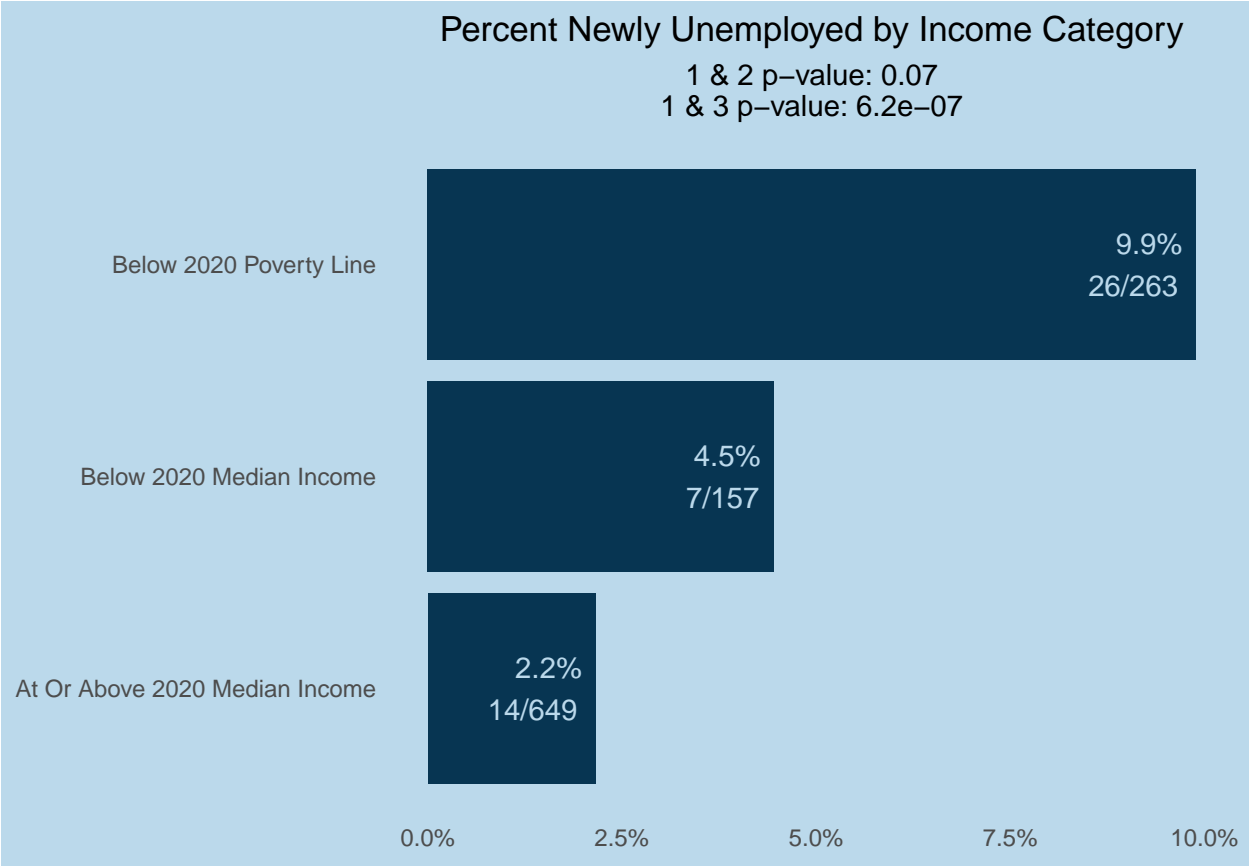
```
##  
## $sch_level_cat
```



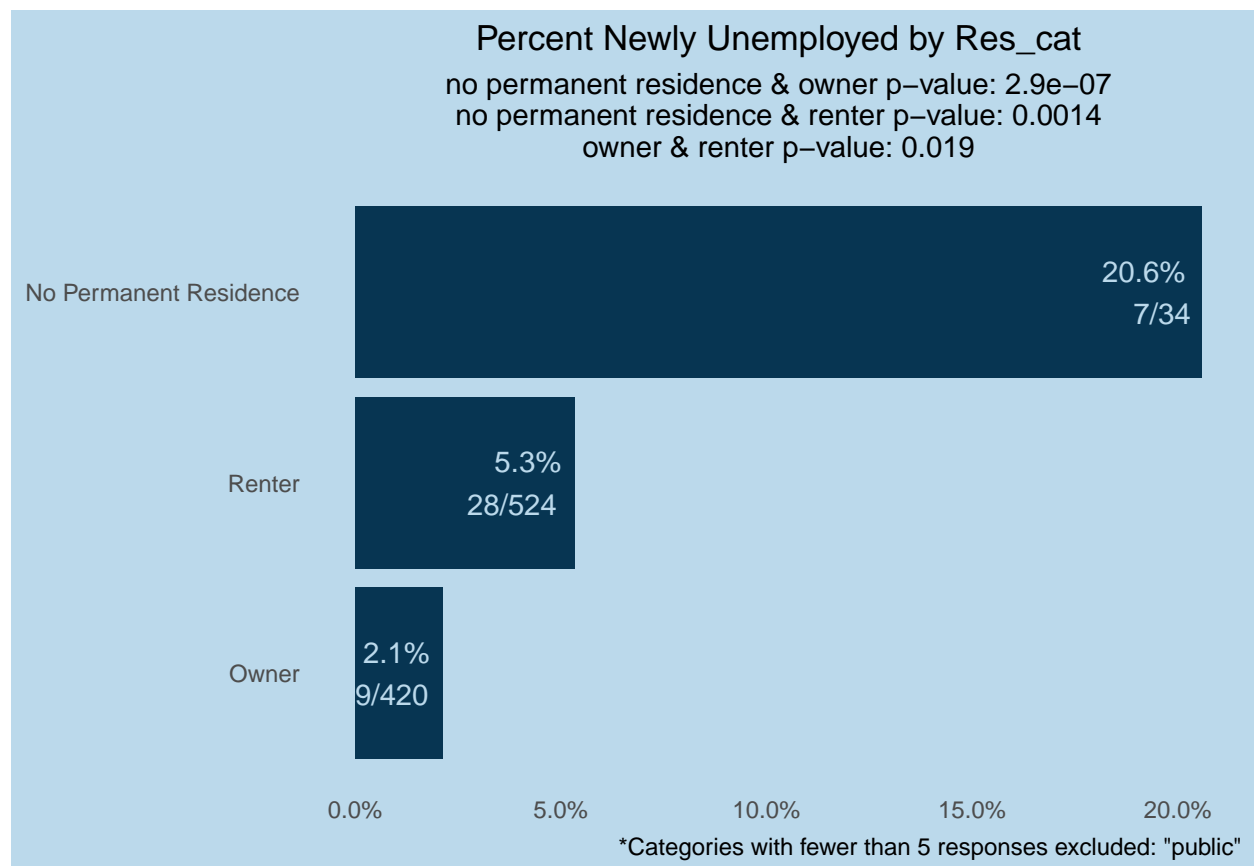
```
##  
## $hh_64_bi  
## NULL  
##  
## $hh_ch_0_17_bi
```



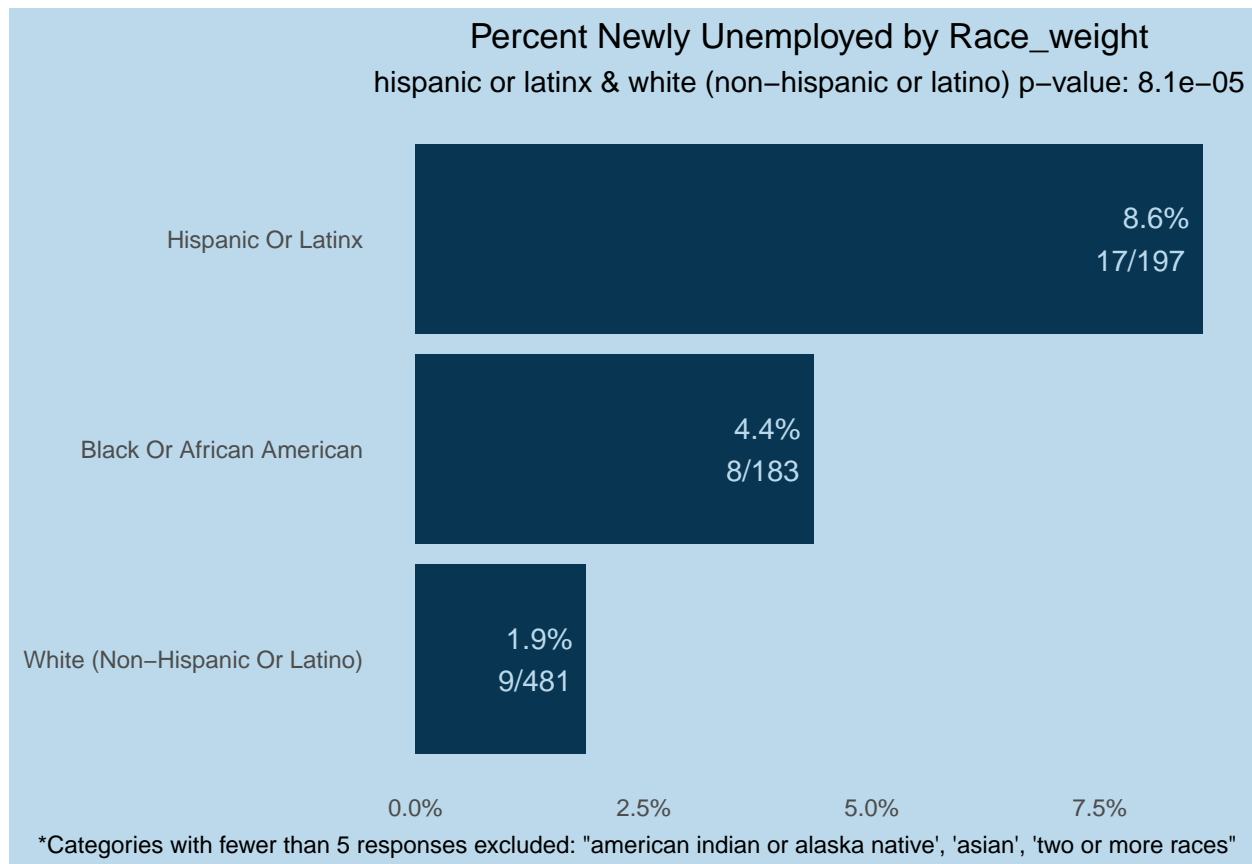
```
##  
## $inc_dist
```

\$res_cat



\$race_weight



1.3) Higher income employees were less likely to face adverse job status changes during the pandemic

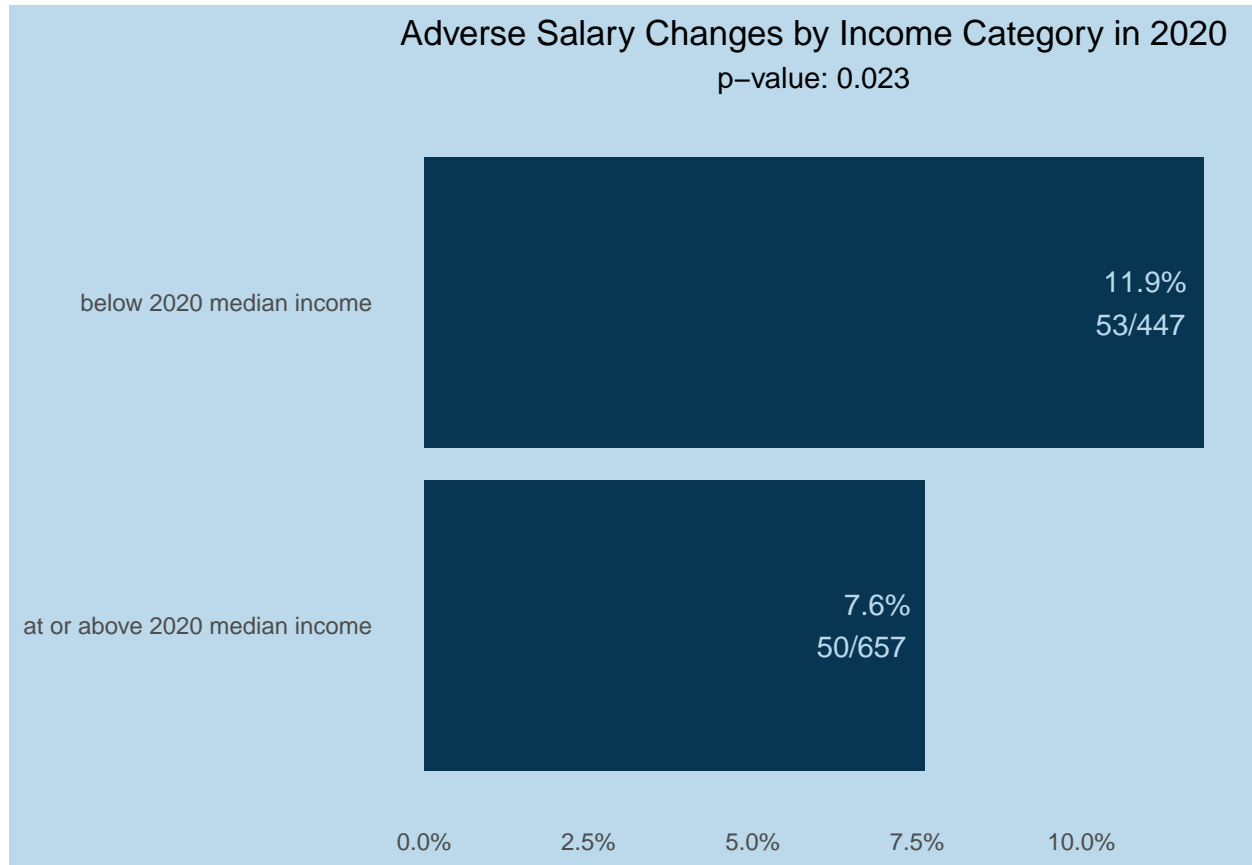
```
mean(poa$emp_change)
```

```
## [1] 0.280543
```

```
adverse <- poa %>%
  count(inc_be_med_b, emp_change, inc_neg) %>%
  group_by(inc_be_med_b) %>% mutate(denom = sum(n), prop = n/denom) %>%
  ungroup %>% mutate(width = denom/sum(n)) %>%
  filter(emp_change) %>% na.omit() %>%
  mutate_if(labelled::is.labelled, labelled::to_factor) %>%
  mutate(label = ifelse(str_detect(inc_neg, "neg"), "adverse", "neutral or positive")) %>%
  filter(label == "adverse")

adverse %>% ggplot(aes(x = prop, y = inc_be_med_b#, fill = label
  #width = width
)) + geom_col(fill = project_pal[4]) +
  ggtitle("Adverse Salary Changes by Income Category in 2020") +
  scale_fill_manual(values = project_pal[c(4)]) +
  scale_x_continuous(label = scales::percent) +
```

```
xlab(NULL) + ylab(NULL) +
geom_text(aes(label = glue("{scales::percent(prop)}\n{n}/{denom}")),
          color = project_pal[1], hjust = 1.2) +
labs(subtitle = glue("p-value: {signif(prop.test(adverse$n, adverse$denom)$p.value, 2)}"))
```



1.5-1.6)

1.5) People with at least a Bachelor's degree were more/less likely to face job status changes during the pandemic [11, 14,15] 1.6) People who had insurance (any form) were less likely to face changes in job status [21,14,15]

```
#table(poa$ins[str_detect(poa$ins, ";")])
new_variables <- c("inc_be_med_b", "sch_bach", "ins_has", "ins_prvt")
new_variables <- setNames(new_variables, new_variables)

#item <- new_variables[[2]]

lapply(new_variables, function(item) {
  mean_val <- paste0(round(mean(str_detect(poa[[item]]), "BA|has")), digits = 4)*100, "%")

  sym_item <- sym(item)

  reshaped <- poa %>% count(!sym_item, emp_change, inc_neg) %>% group_by(!sym_item) %>%
```

```

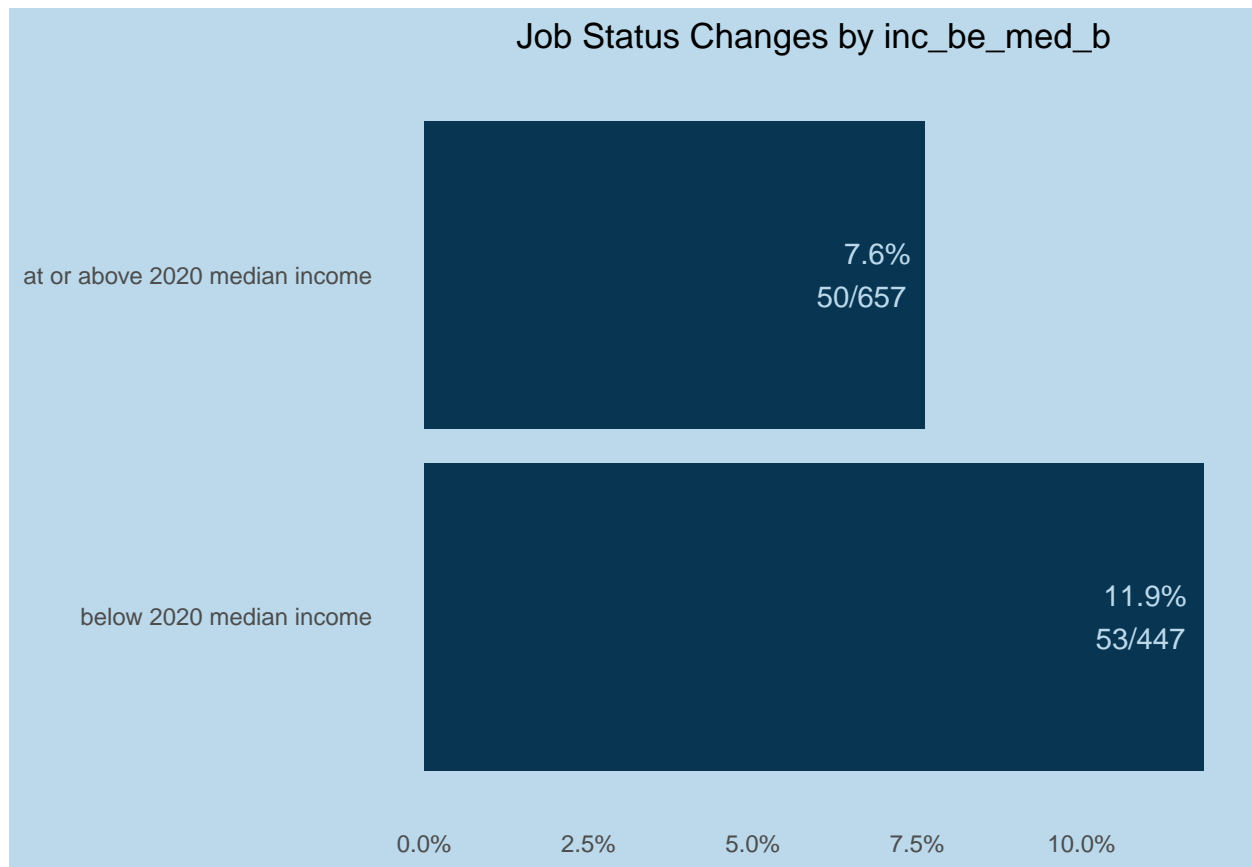
mutate(denom = sum(n), prop = n/denom) %>% ungroup %>% mutate(width = denom/sum(n)) %>%
filter(emp_change, inc_neg == 1) %>% na.omit() %>% mutate_if(labelled::is.labelled, labelled::to_ch

plot <- reshaped %>% filter(n >= min_exclude) %>%
  ggplot(aes(x = prop, y = reorder(!sym_item, -n)#, width = width
    )) +
  geom_col(aes(alpha = n),
    fill = project_pal[4]) +
  #labs(subtitle = glue::glue("{mean_val} {levels(poa[[item]])[1]}")) +
  #geom_vline(xintercept = mean_val) +
  scale_x_continuous(label = scales::percent) + xlab(NULL) + ylab(NULL) +
  ggtitle(paste("Job Status Changes by", item)) +
  geom_text(aes(label = glue::glue("{scales::percent(prop)}\n{n}/{denom}")),
    color = project_pal[1], hjust = 1.2)

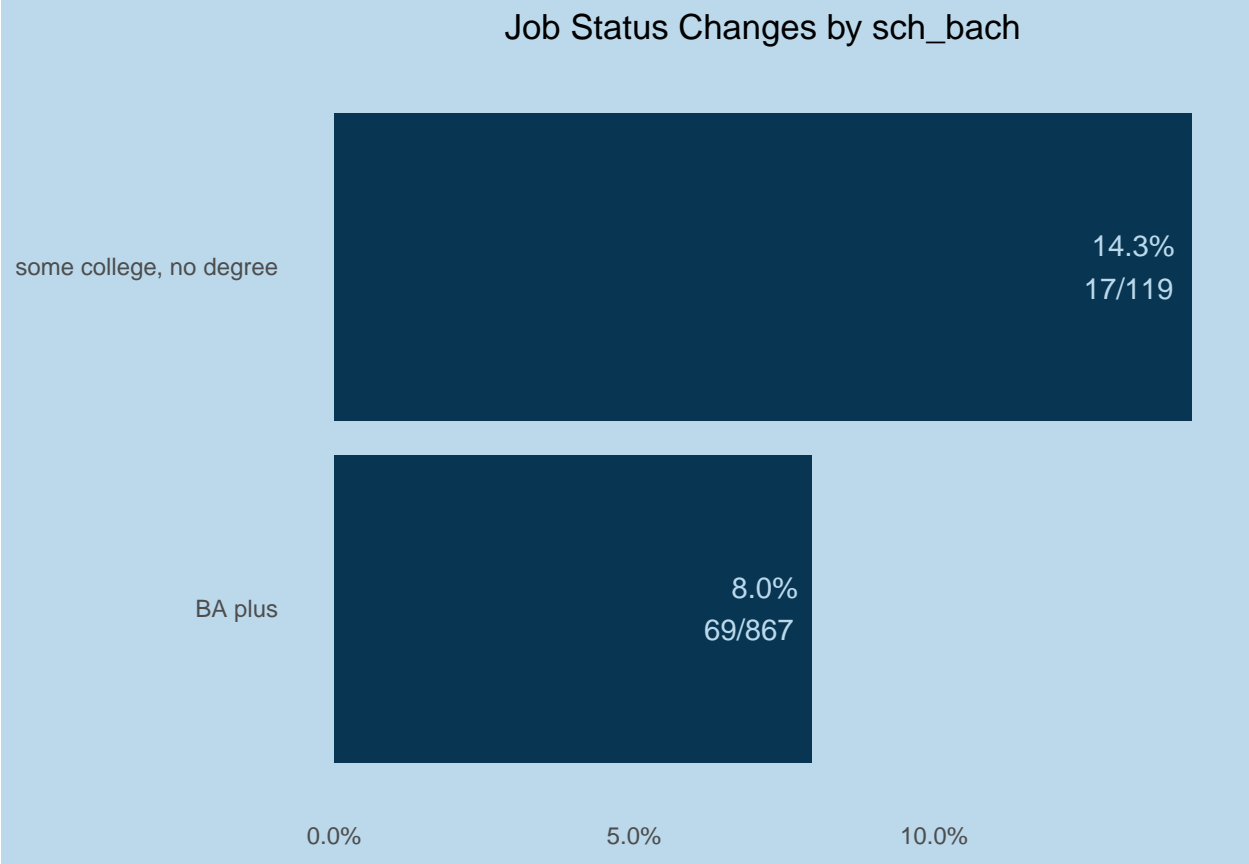
return(plot)
})

```

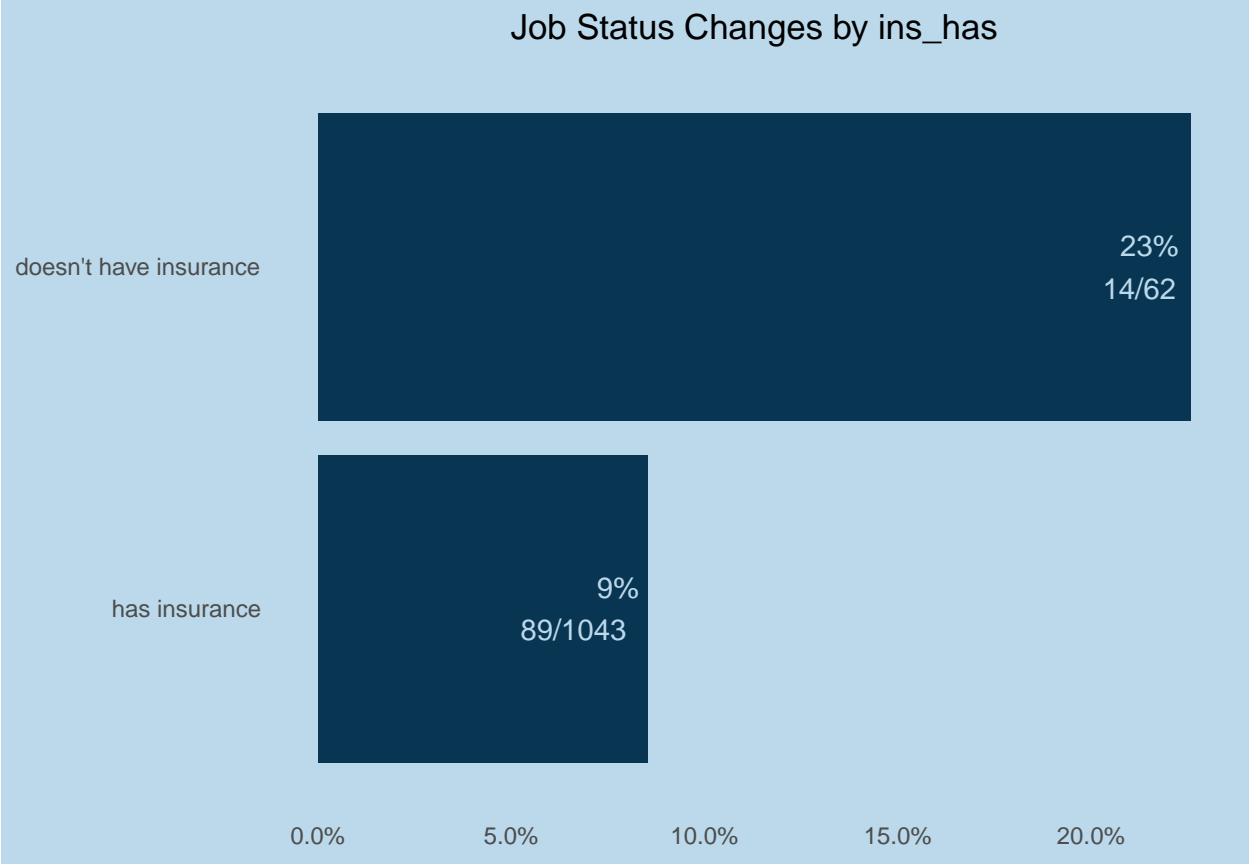
```
## $inc_be_med_b
```



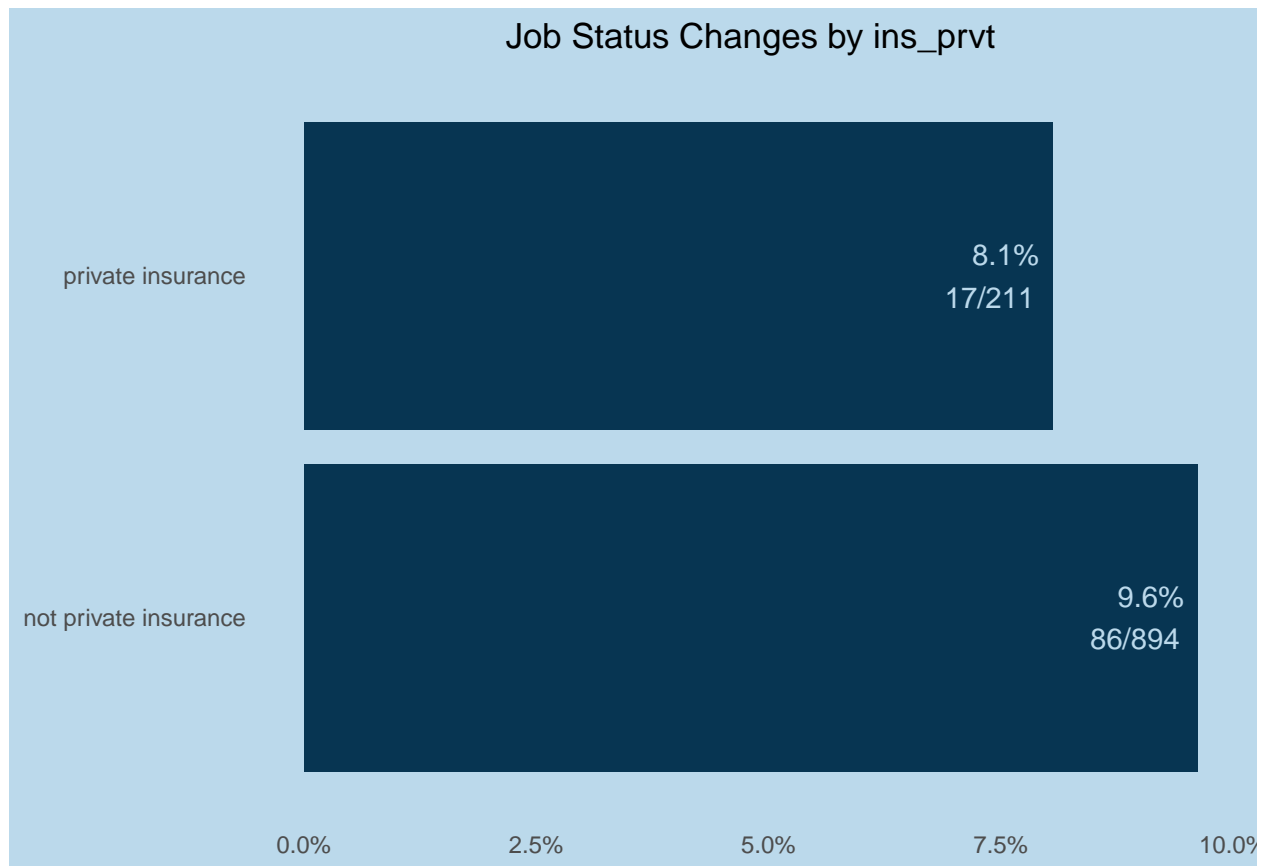
```
##
## $sch_bach
```



```
##  
## $ins_has
```



```
##  
## $ins_prvt
```



1.8, 1.13)

1.08) Higher paid employees (above median income) were less likely to return to working in-person [12,13,18]

1.13) Individuals with children were more likely to participate in hybrid work rather than full-time physical work

```
# maybe we should make a variable that is all three categories (below, at above) or
inc_1.8 <- c("inc_ab_med_b", "inc_be_med_b", "inc_dist", "hh_ch_0_17_bi")
#item <- inc_1.8[[4]]

lapply(setNames(inc_1.8, paste("proportion who returned to work virtually or hybrid", inc_1.8)), function(item) {
  sym_item <- sym(item)
  reshaped <- poa %>% count(!!sym_item, wrk_vi = wrk %in% c(2,3)) %>% group_by(!!sym_item) %>%
    mutate(denom = sum(n), prop = n/denom) %>% ungroup %>% mutate(width = denom/sum(n)) %>%
    filter(wrk_vi) %>%
    na.omit() %>% mutate_if(labelled::is.labelled, labelled::to_character)

  plot <- reshaped %>% ggplot(aes(x = prop, y = reorder(!!sym_item, n)#, width = width, alpha = n
    )) +
    geom_col(fill = project_pal[4]) +
    scale_x_continuous(label = scales::percent) + xlab(NULL) + ylab(NULL) +
    ggtitle("Proportion who returned to work virtually or hybrid") +
```



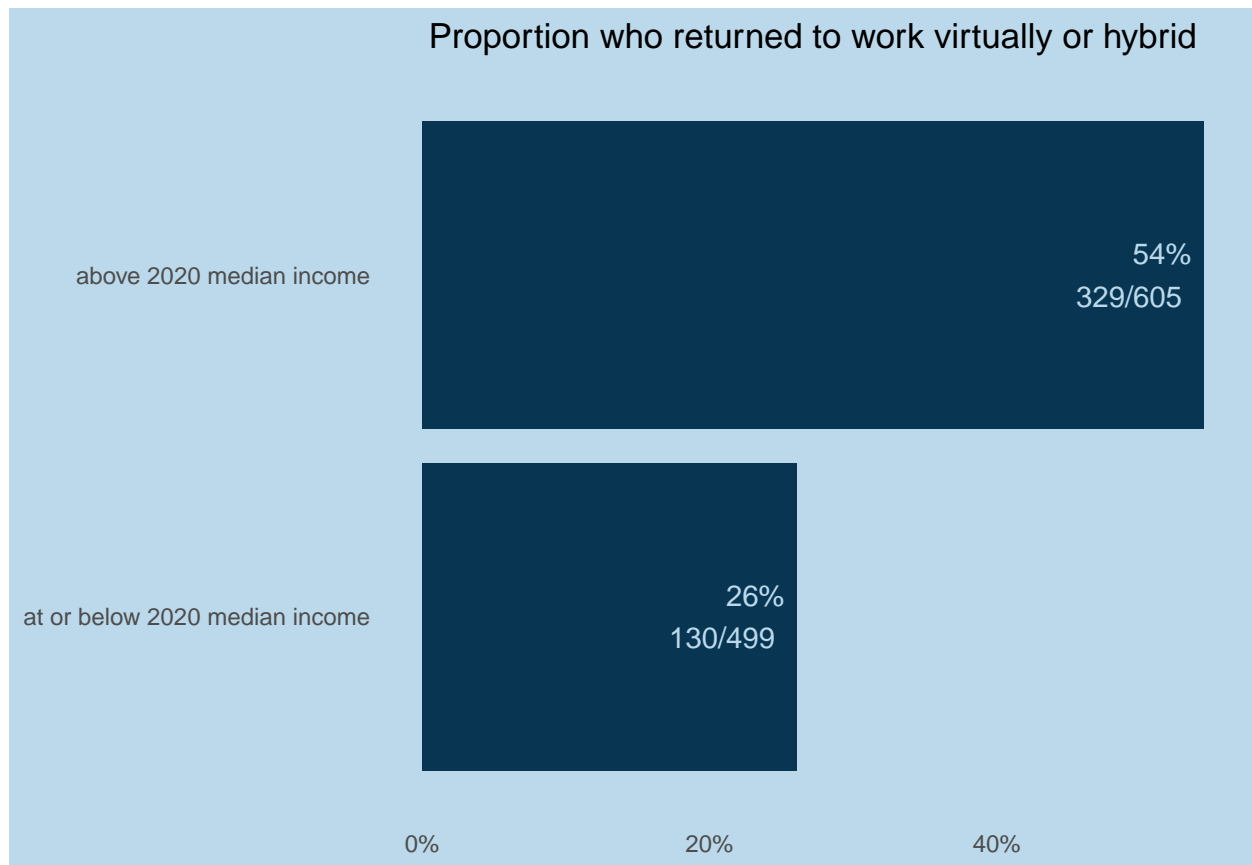
```

    geom_text(aes(label = glue::glue("{scales::percent(prop)}\n{n}/{denom}"),
      color = project_pal[1], hjust = 1.2)

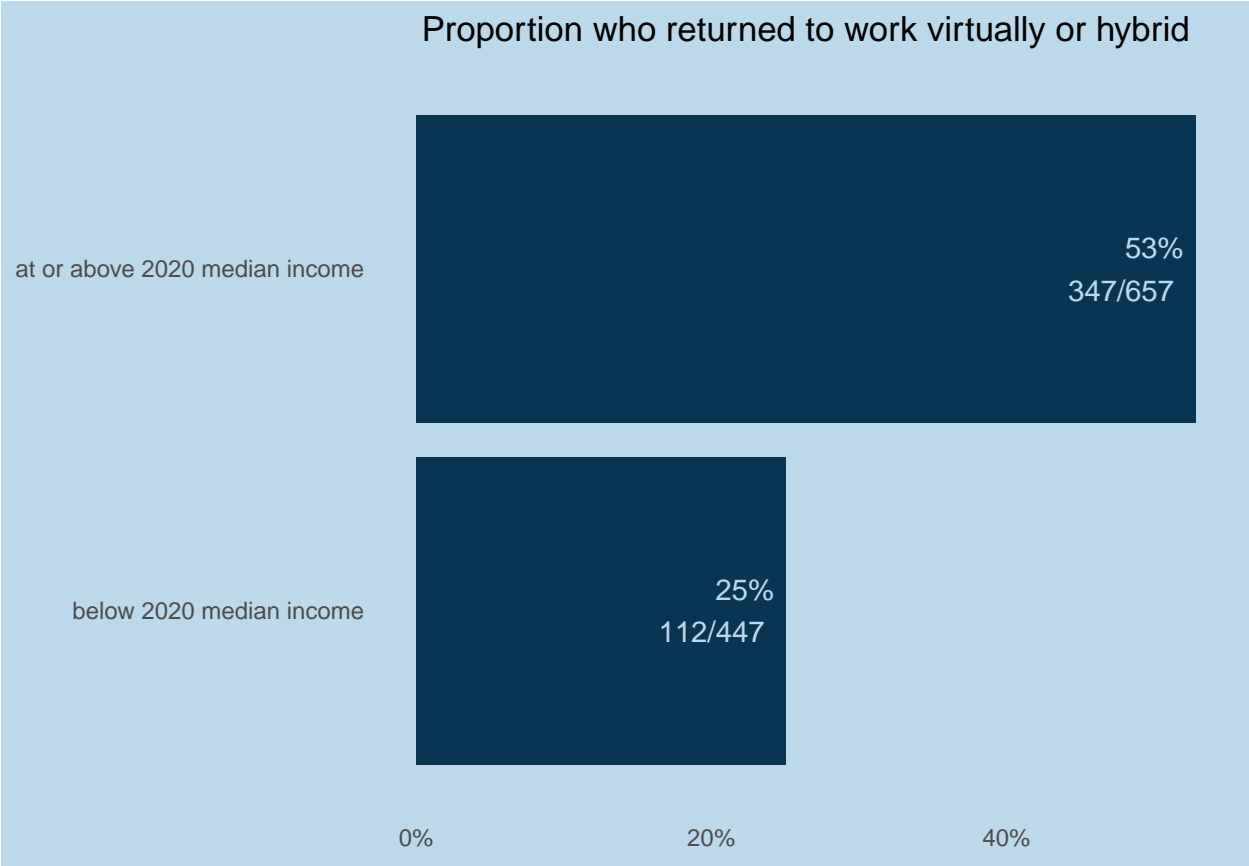
  return(plot)
})

```

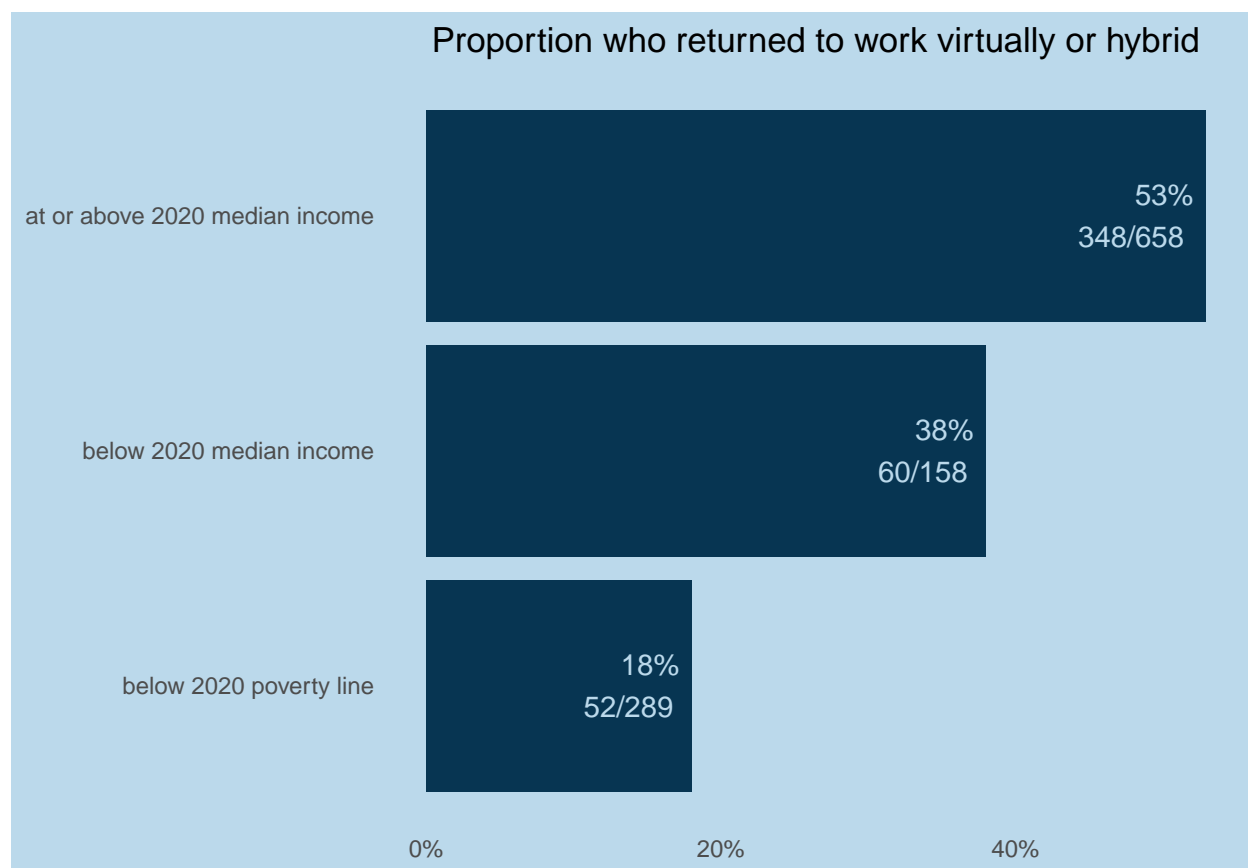
```
## $'proportion who returned to work virtually or hybrid inc_ab_med_b'
```



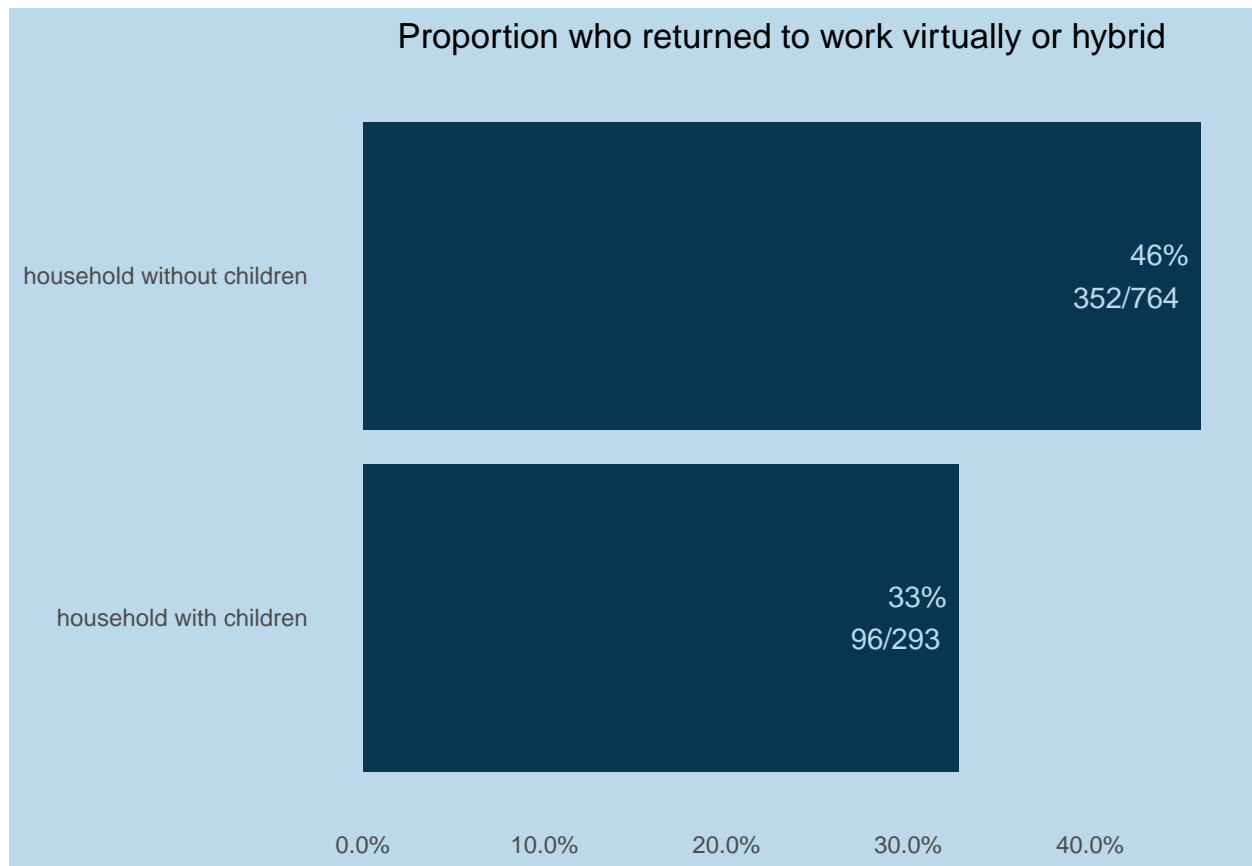
```
##
## $'proportion who returned to work virtually or hybrid inc_be_med_b'
```



```
##
## $'proportion who returned to work virtually or hybrid inc_dist'
```



```
##  
## $'proportion who returned to work virtually or hybrid hh_ch_0_17_bi'
```



1.9-1.11)

1.09) People who are currently receiving unemployment benefits [16] - only `rsum(poa$unemp_ben == 1, na.rm = TRUE)` people who are currently receiving unemployment benefits

1.10) People who are unemployed and are not receiving unemployment benefits because they expired [15 & 16]

```
poa %>% count(unemp_ben) %>% mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 5 x 2
##   unemp_ben      n
##   <chr>      <int>
## 1 yes         10
## 2 no, because they expired    28
## 3 no, but i tried to apply for benefits    11
## 4 no, but i did not try to apply for benefits    48
## 5 <NA>      1008
```

```
poa %>% count(emp_a_un, unemp_expired = unemp_ben == 2)
```

```
## # A tibble: 5 x 3
##   emp_a_un unemp_expired      n
```

```
##           <dbl+lbl> <lbl>           <int>
## 1 0 [not unemployed] FALSE           20
## 2 0 [not unemployed] TRUE            2
## 3 0 [not unemployed] NA             1008
## 4 1 [unemployed]     FALSE           49
## 5 1 [unemployed]     TRUE            26
```

```
dems_unemp <- str_subset(demographics, "un|emp", negate = TRUE)
dems_unemp <- setNames(dems_unemp, dems_unemp)
```

```
poa %>% count(unemp_ben) %>% mutate(label = labelled::to_factor(unemp_ben))
```

```
## # A tibble: 5 x 3
##           unemp_ben      n label
##           <dbl+lbl> <int> <fct>
## 1 1 [yes]                10 yes
## 2 2 [no, because they expired] 28 no, because they expir~
## 3 3 [no, but i tried to apply for benefits] 11 no, but i tried to app~
## 4 4 [no, but i did not try to apply for benefits] 48 no, but i did not try ~
## 5 NA                1008 <NA>
```

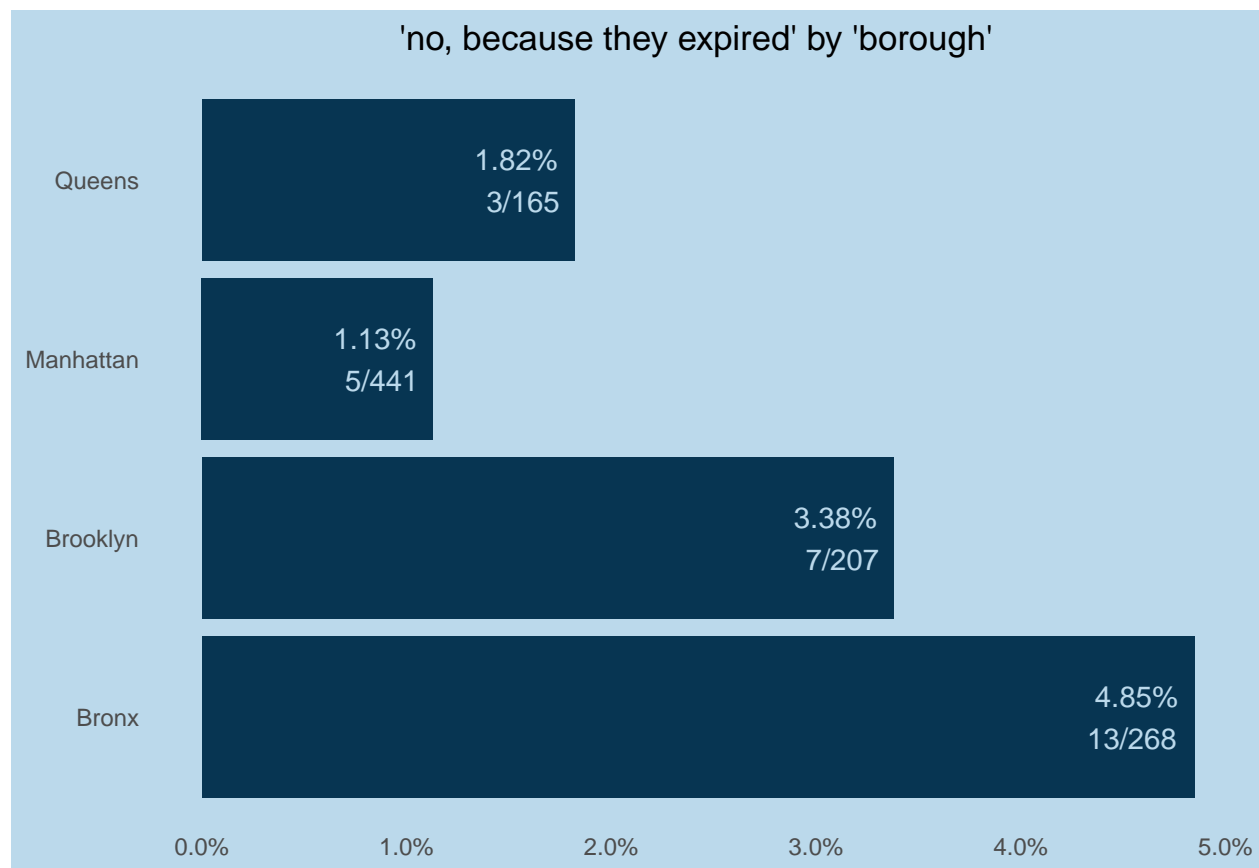
```
# chose just those categories that have over 20 respondents
```

```
lapply(c(2,4), function(item) {
  item_name <- names(attributes(poa$unemp_ben)$labels[item])
  mutated <- poa %>% mutate(unemp = unemp_ben == item)
  lapply(dems_unemp, function(dem) {
    sym_dem <- sym(dem)
    reshaped <- mutated %>%
      count(!sym_dem, unemp) %>%
      group_by(!sym_dem) %>% mutate(prop = round(n/sum(n), digits = 4), denom = sum(n)) %>%
      filter(unemp, !str_detect(!sym_dem, "prefer|;")) %>% ungroup %>% mutate(width = denom/sum(denom))

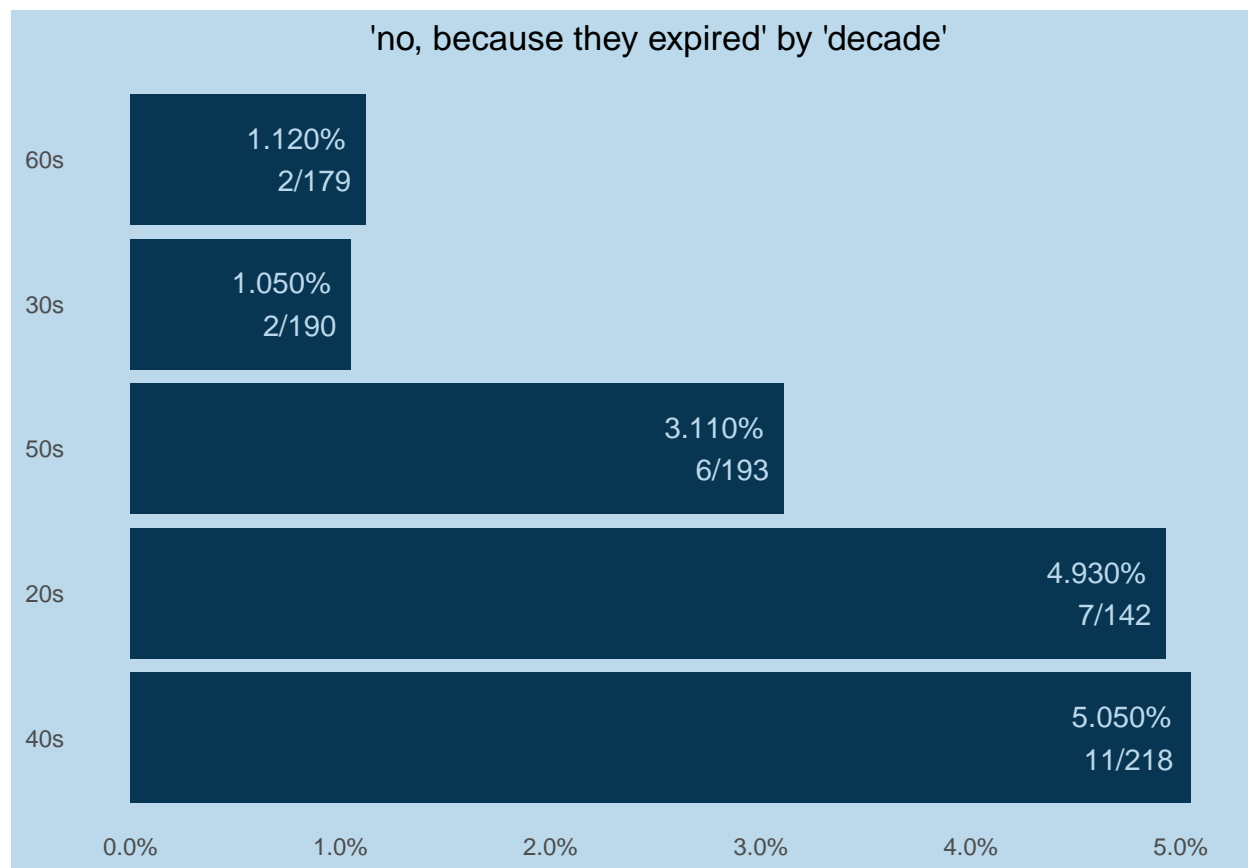
    plot <- reshaped %>% ggplot(aes(x = prop,
                                   y = reorder(stringr::str_to_title(labelled::to_character(!sym_dem)),
                                   )) +
      geom_col(fill = project_pal[4]) +
      scale_x_continuous(labels = scales::percent) +
      xlab(NULL) + ylab(NULL) + scale_color_discrete(guide = "legend", name = dem) +
      ggtitle(glue::glue("{item_name}" by "{dem}")) +
      project_theme +
      geom_text(aes(label = glue::glue("{scales::percent(prop)}\n{n}/{denom}")),
                color = project_pal[1], hjust = 1.2)

    return(plot)
  })
})
```

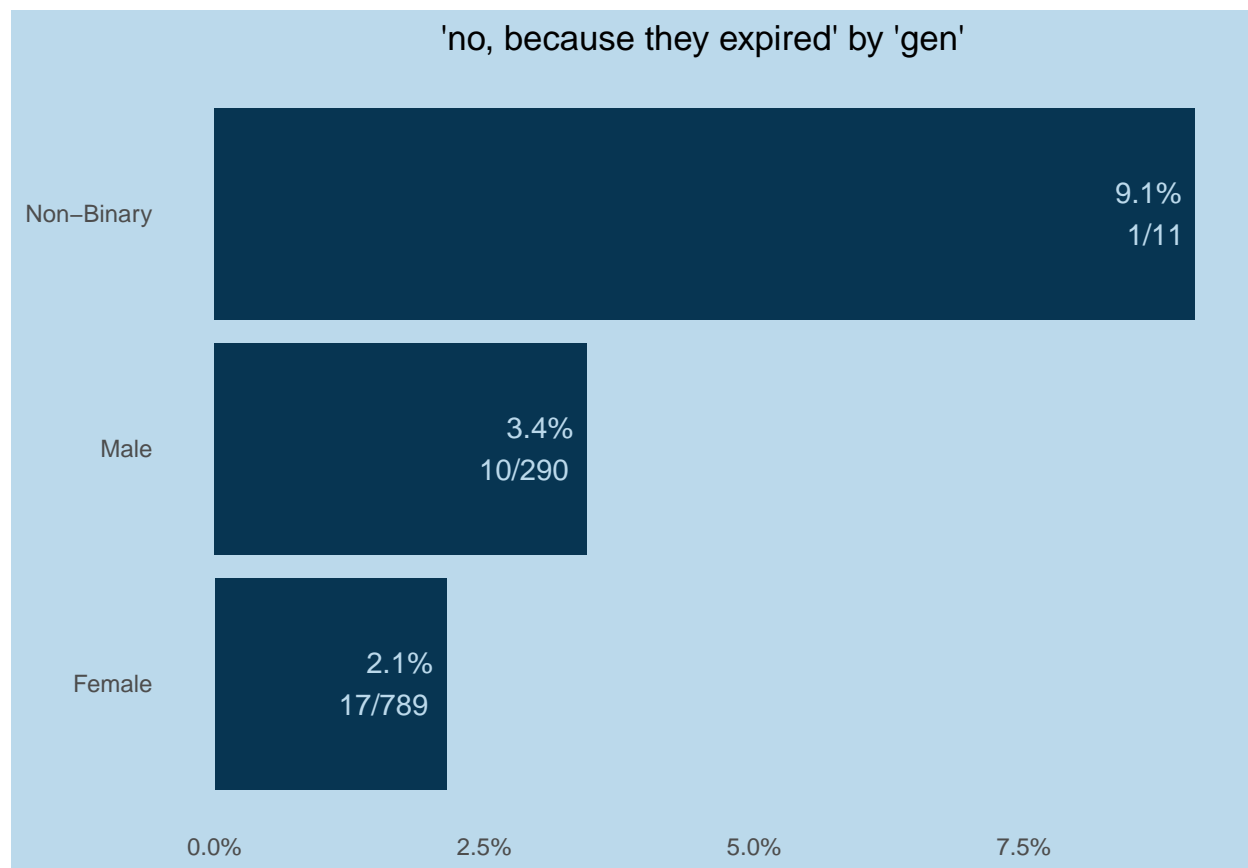
```
## [[1]]
## [[1]]$borough
```



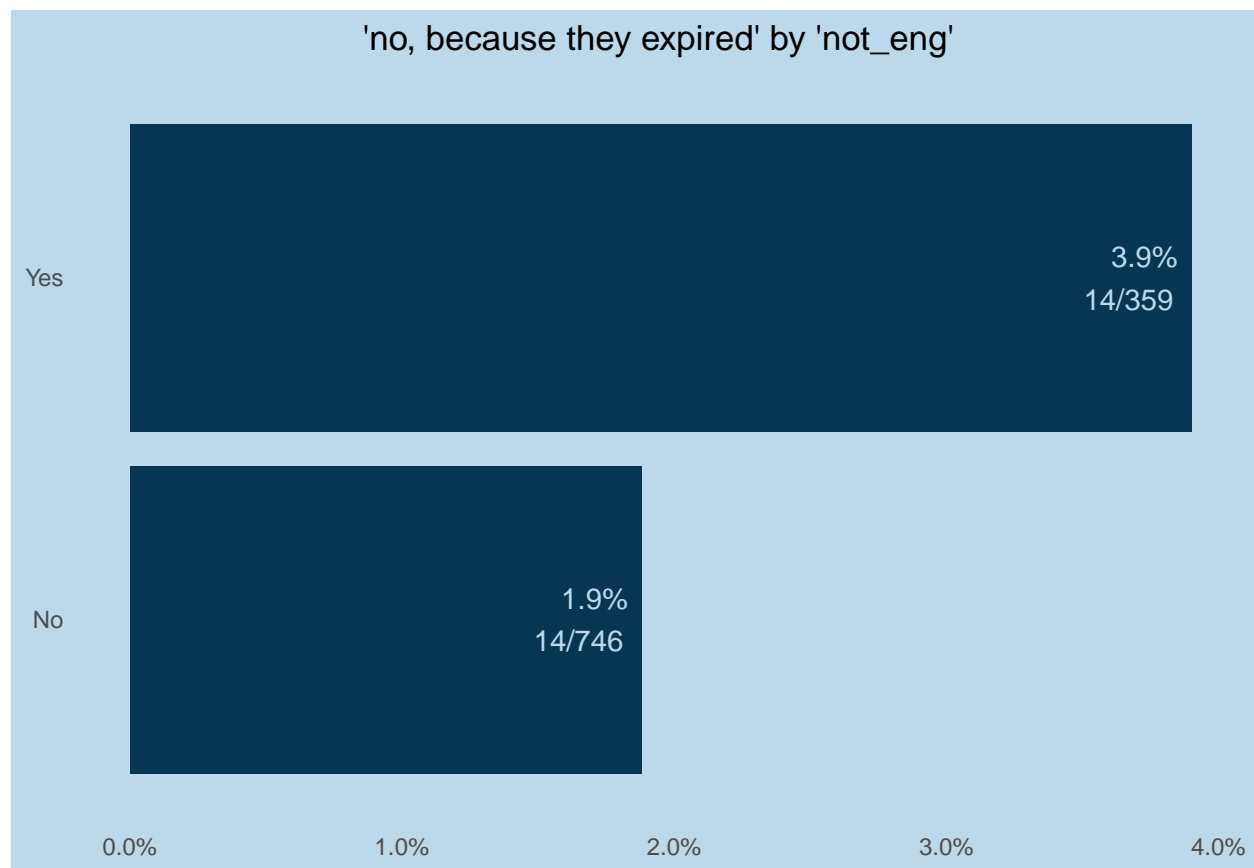
```
##  
## [[1]]$decade
```



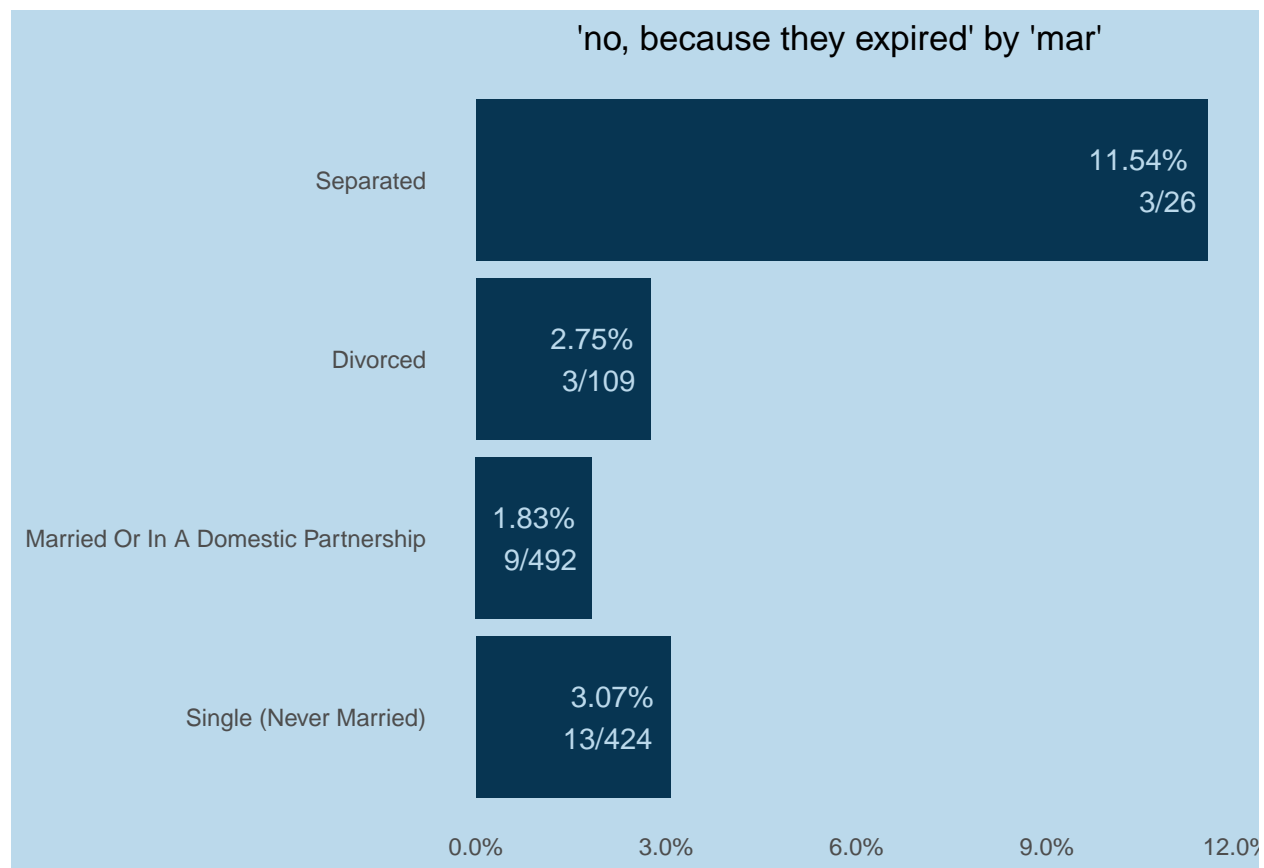
```
##  
## [[1]]$gen
```



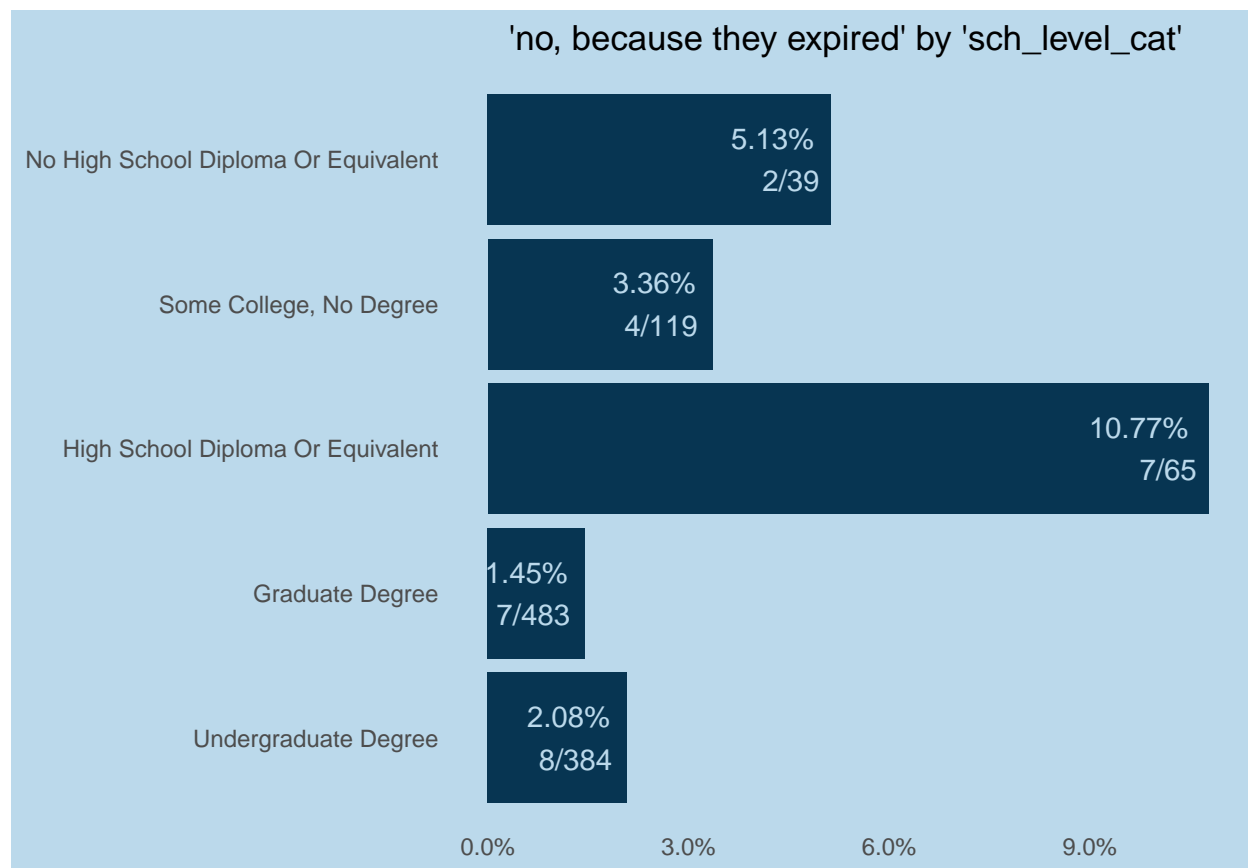
```
##  
## [[1]]$not_eng
```

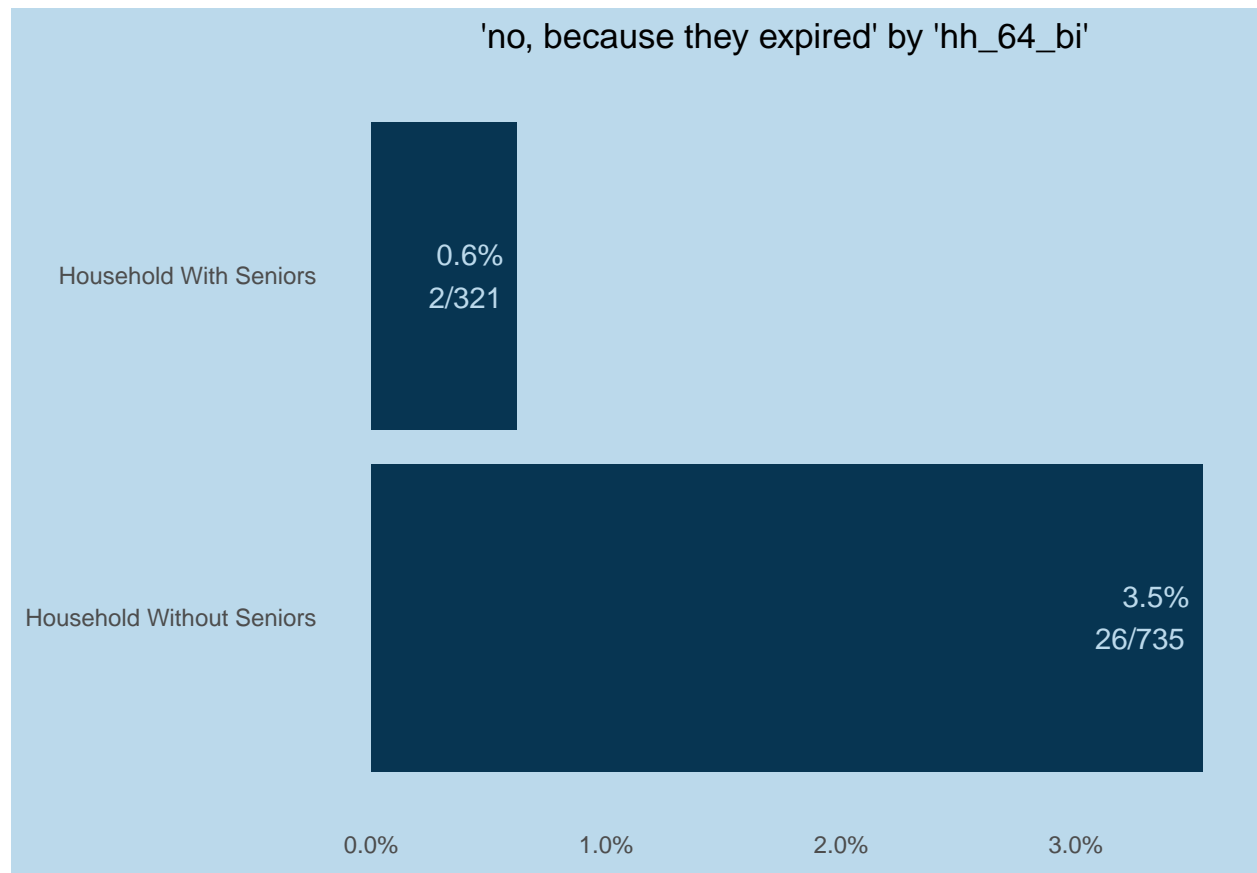
```
##  
## [[1]]$mar
```



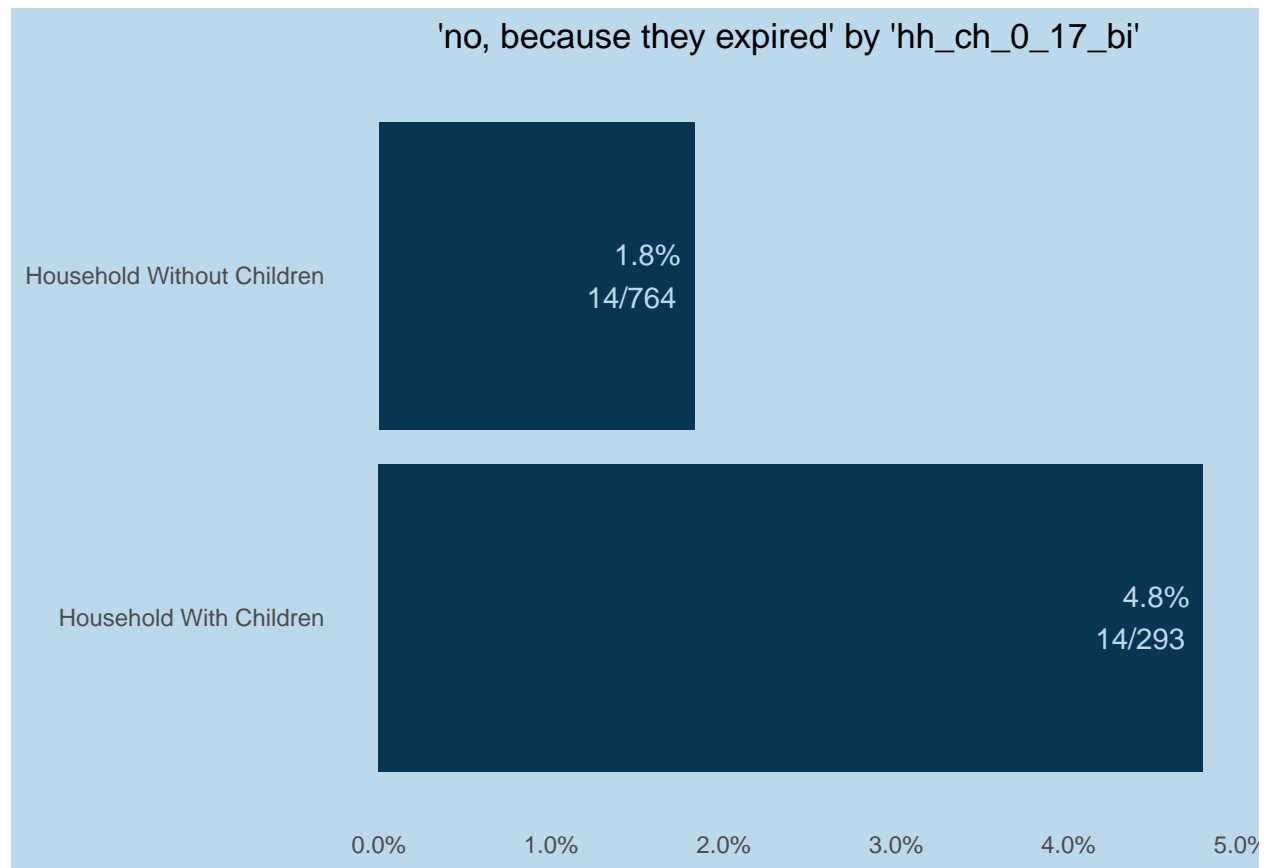
```
##  
## [[1]]$sch_level_cat
```



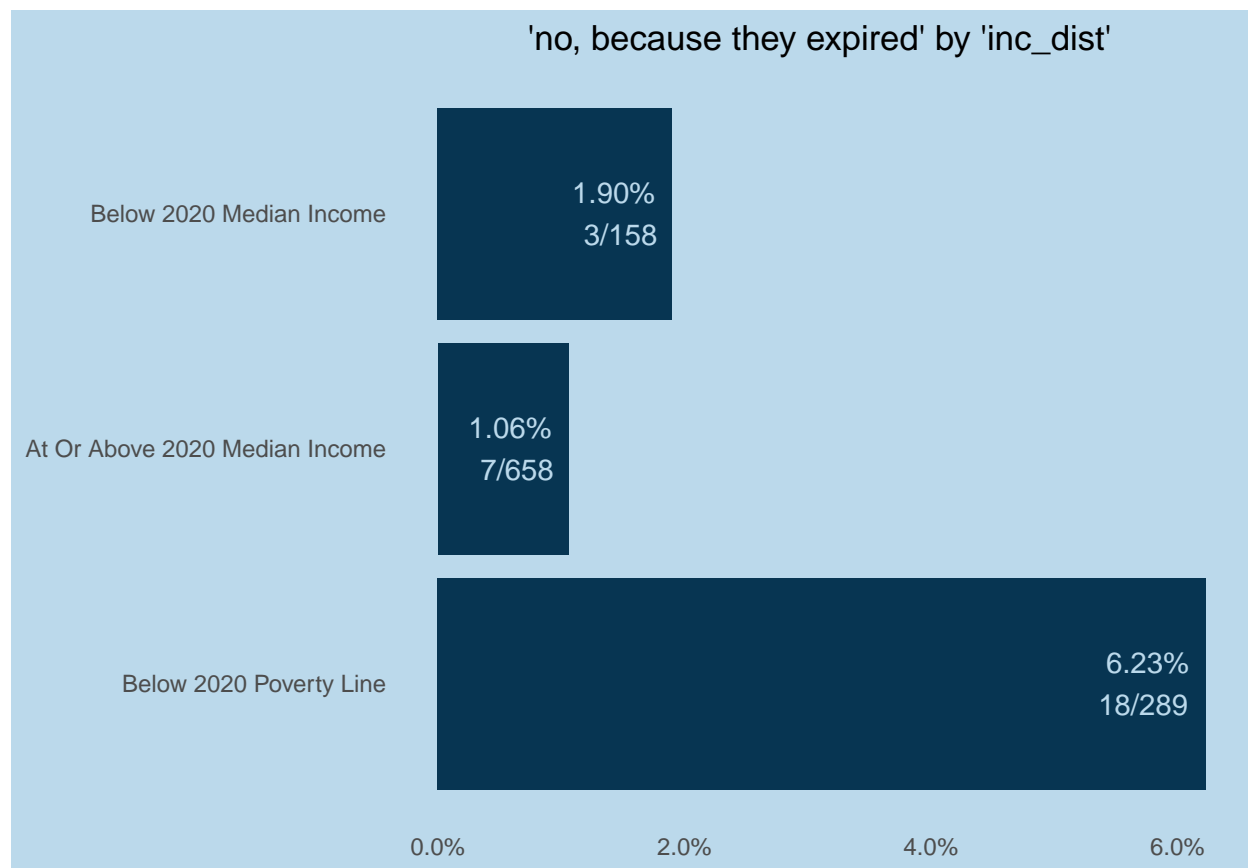
```
##
## [[1]]$hh_64_bi
```



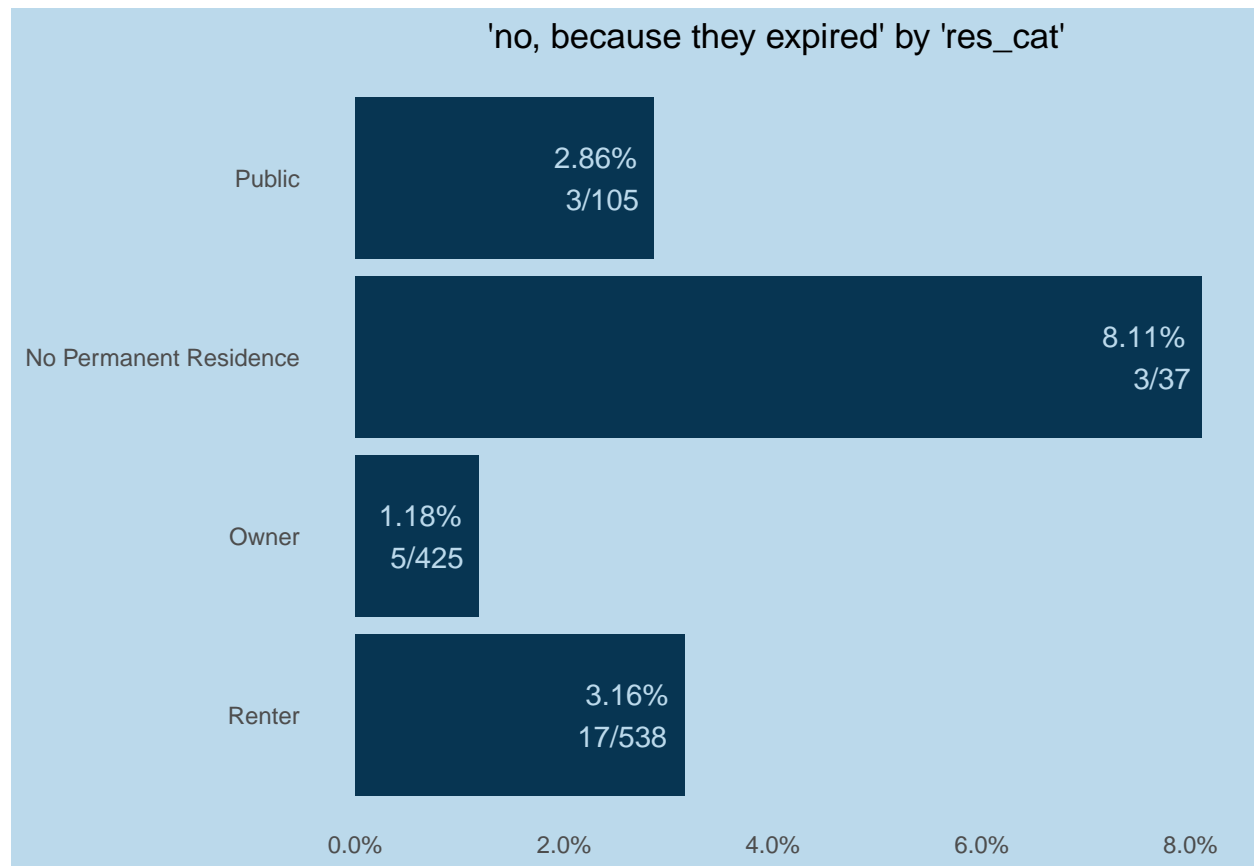
```
##  
## [[1]]$hh_ch_0_17_bi
```



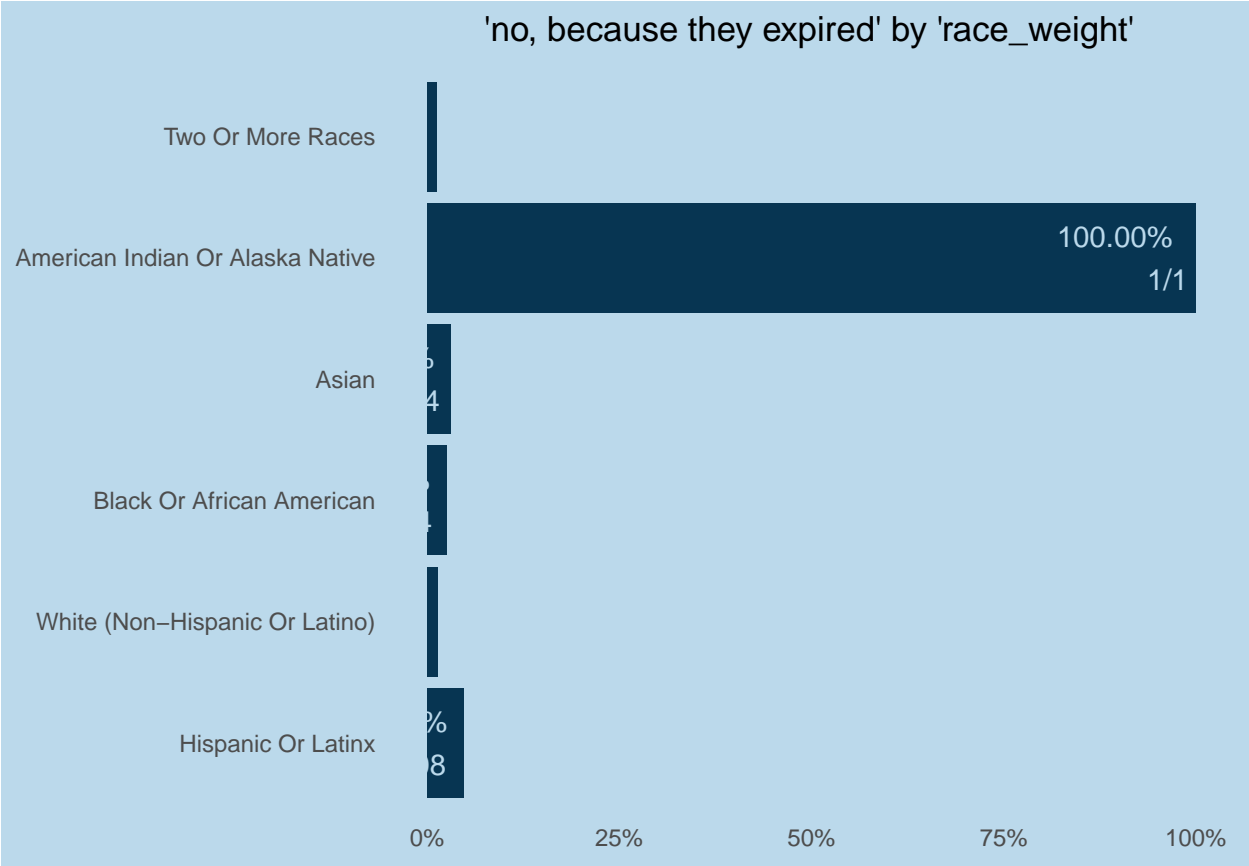
```
##  
## [[1]]$inc_dist
```



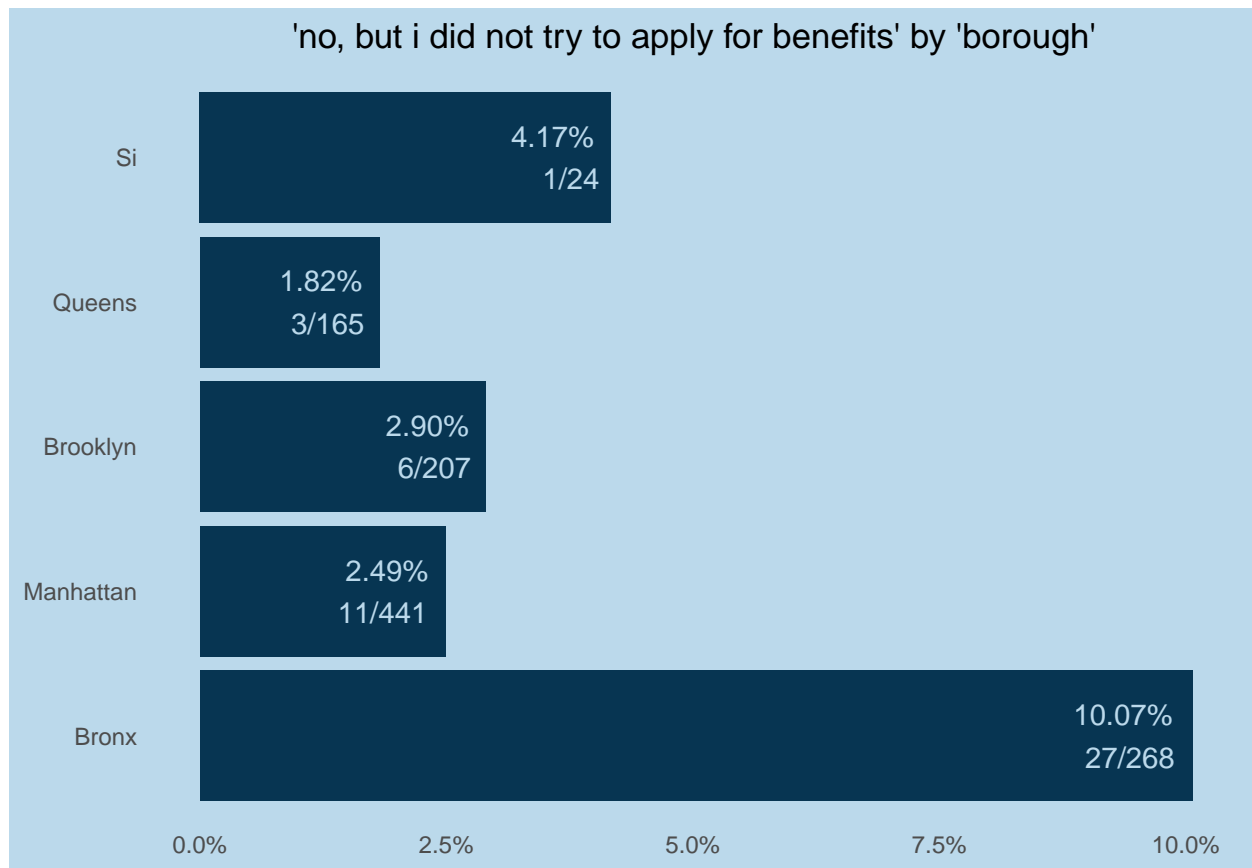
```
##  
## [[1]]$res_cat
```



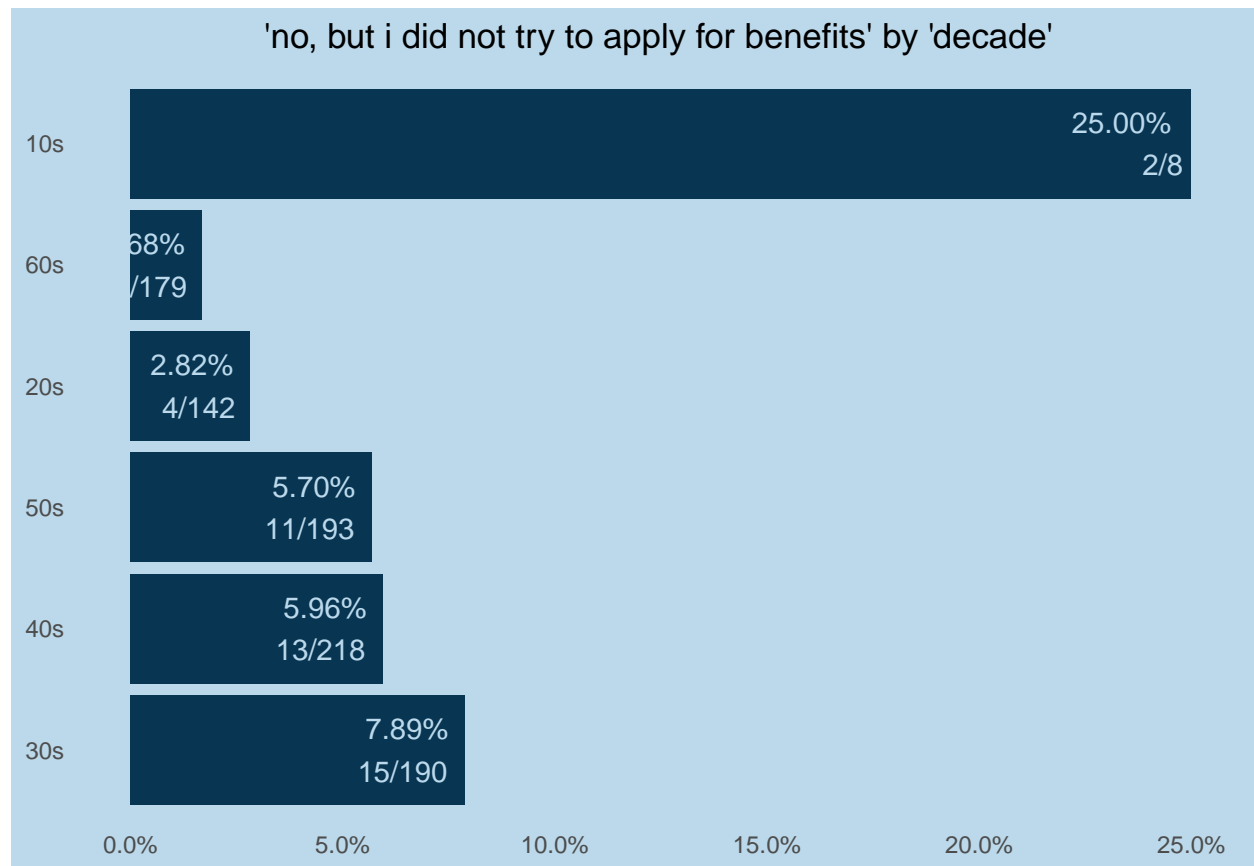
```
##  
## [[1]]$race_weight
```



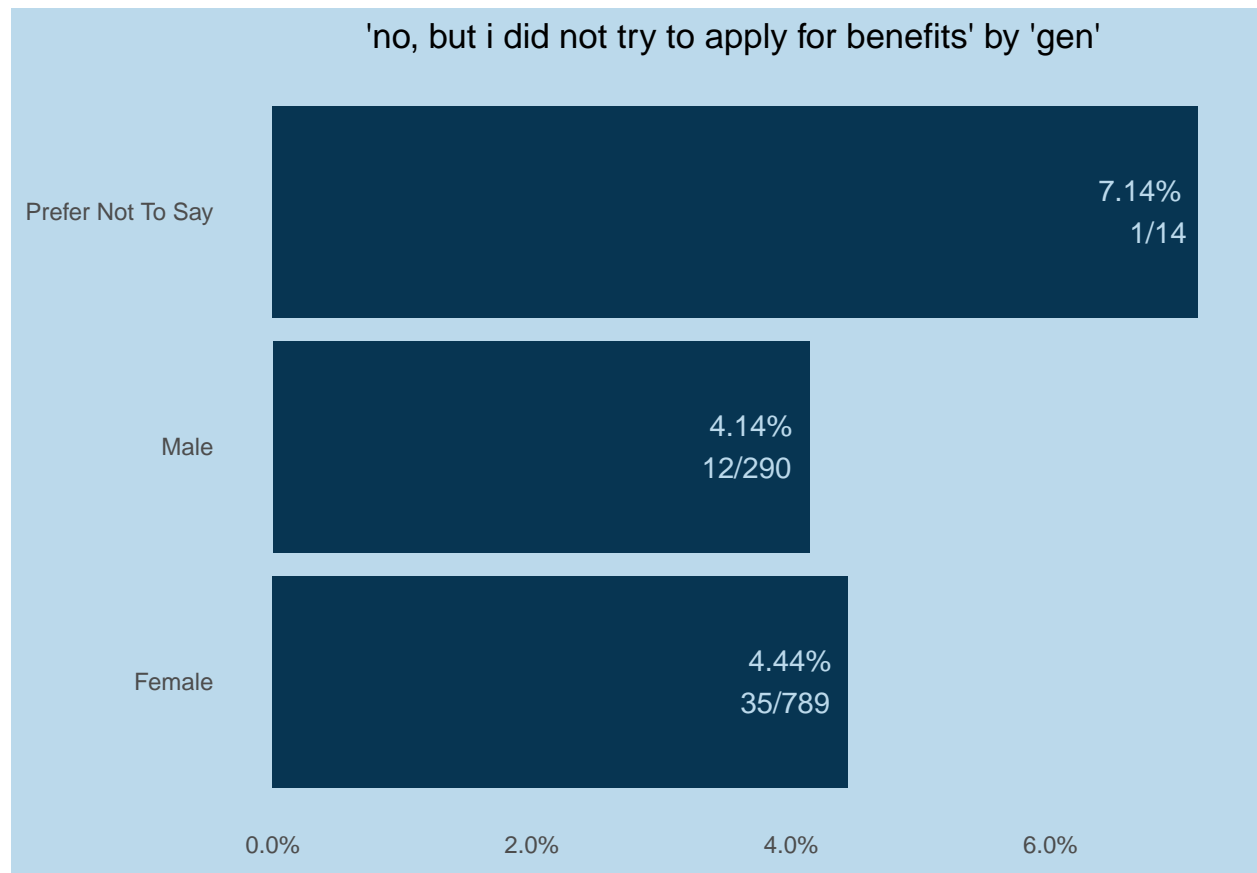
```
##  
##  
## [[2]]  
## [[2]]$borough
```

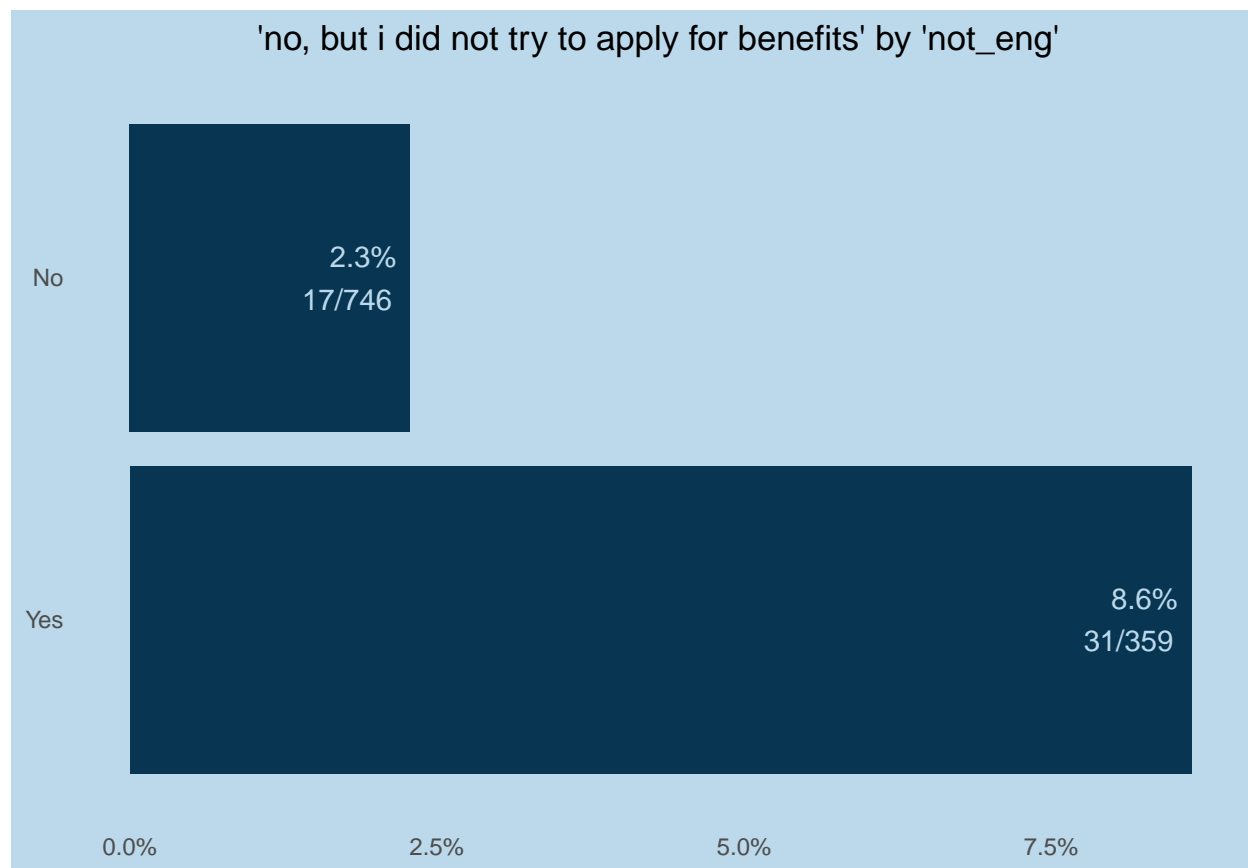
```
##  
## [[2]]$decade
```



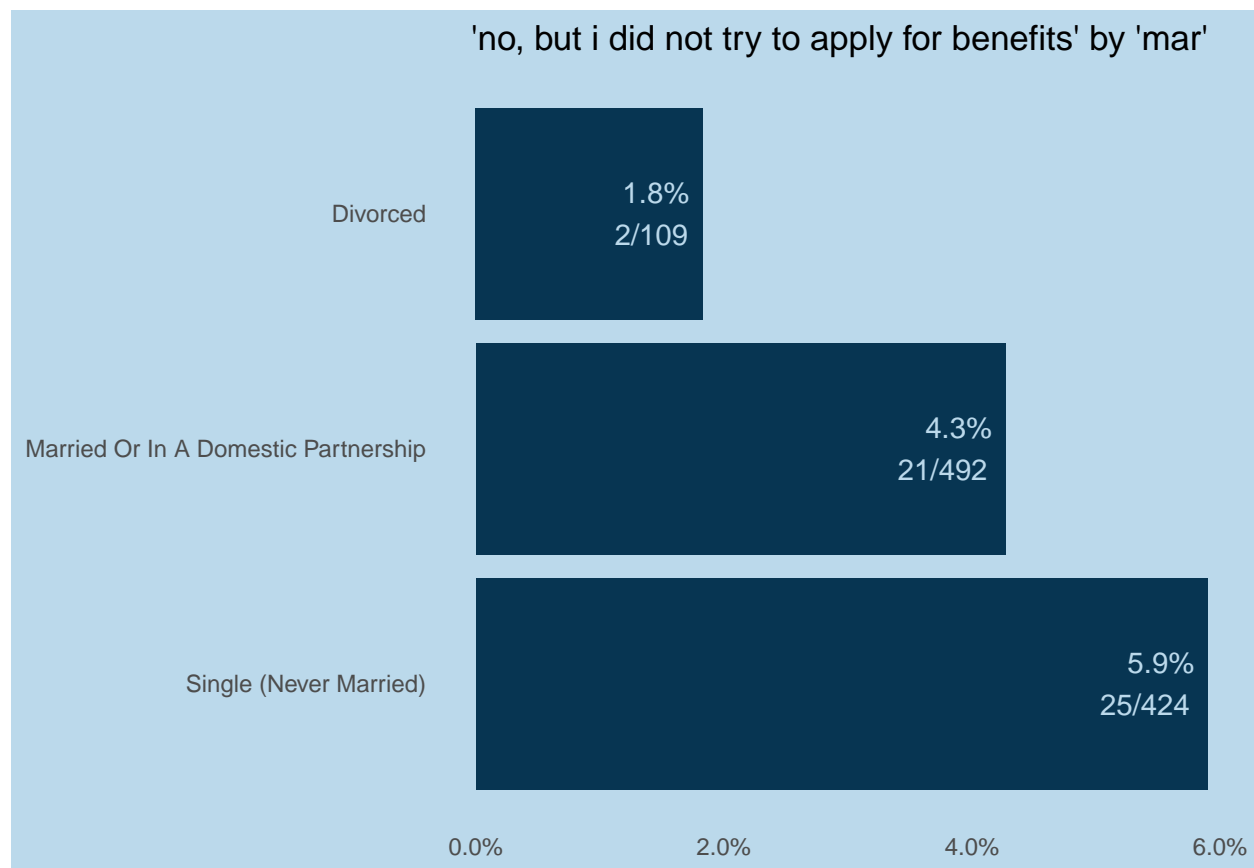
```
##
## [[2]]$gen
```



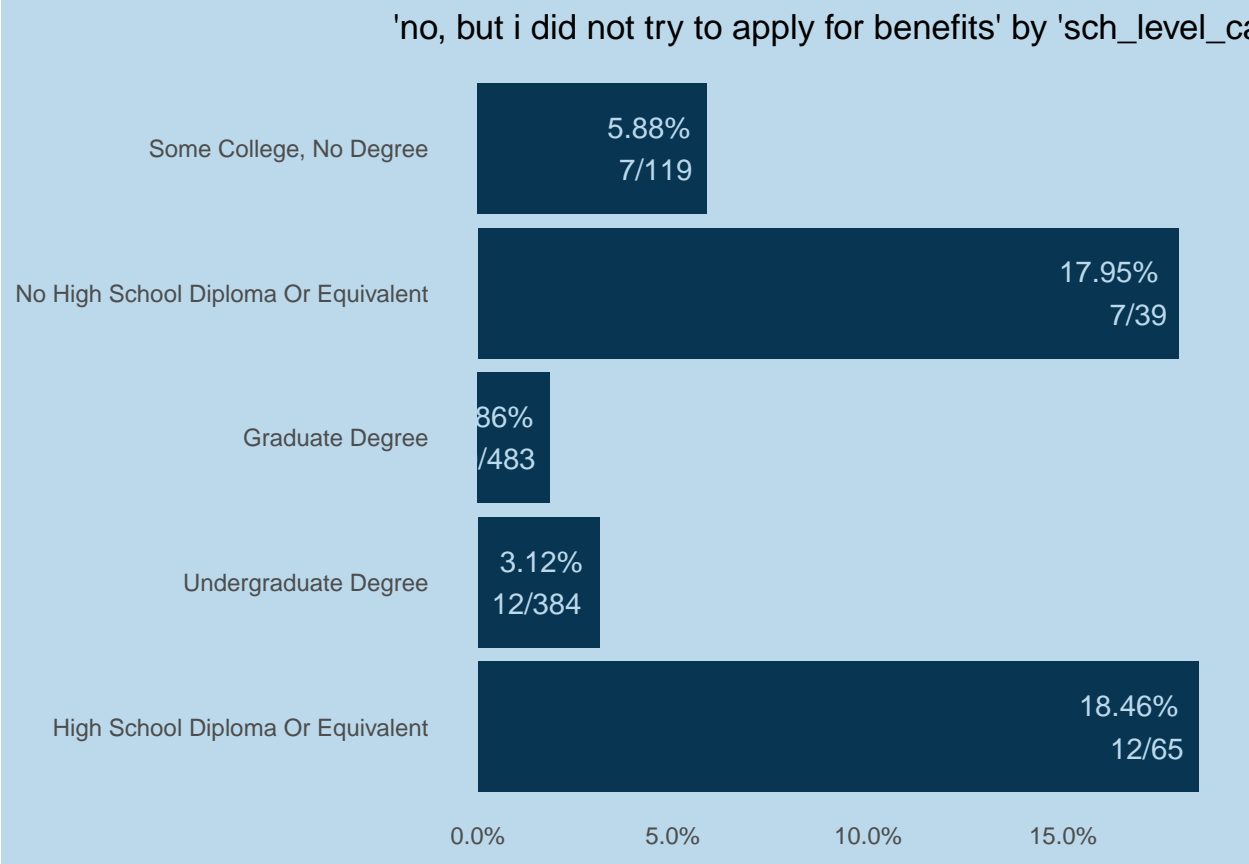
```
##  
## [[2]]$not_eng
```



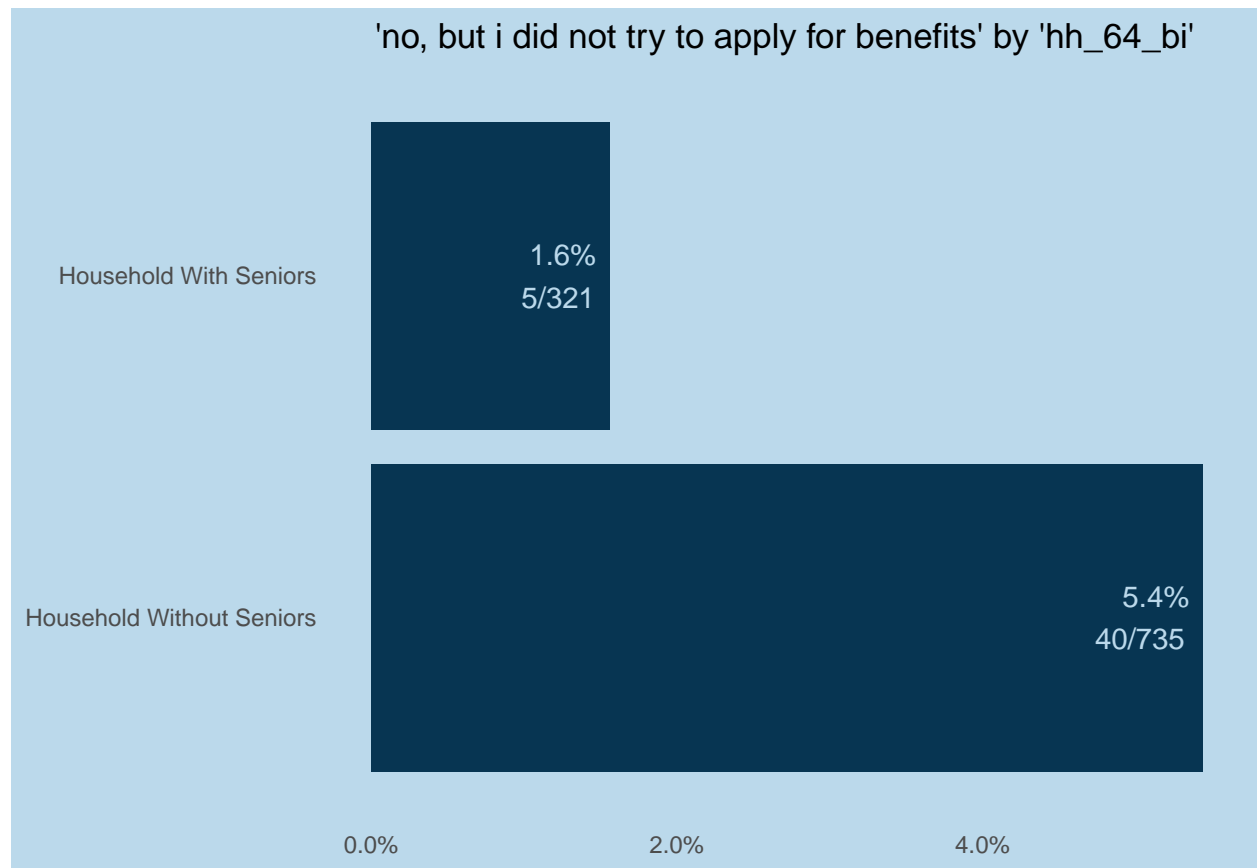
```
##  
## [[2]]$mar
```



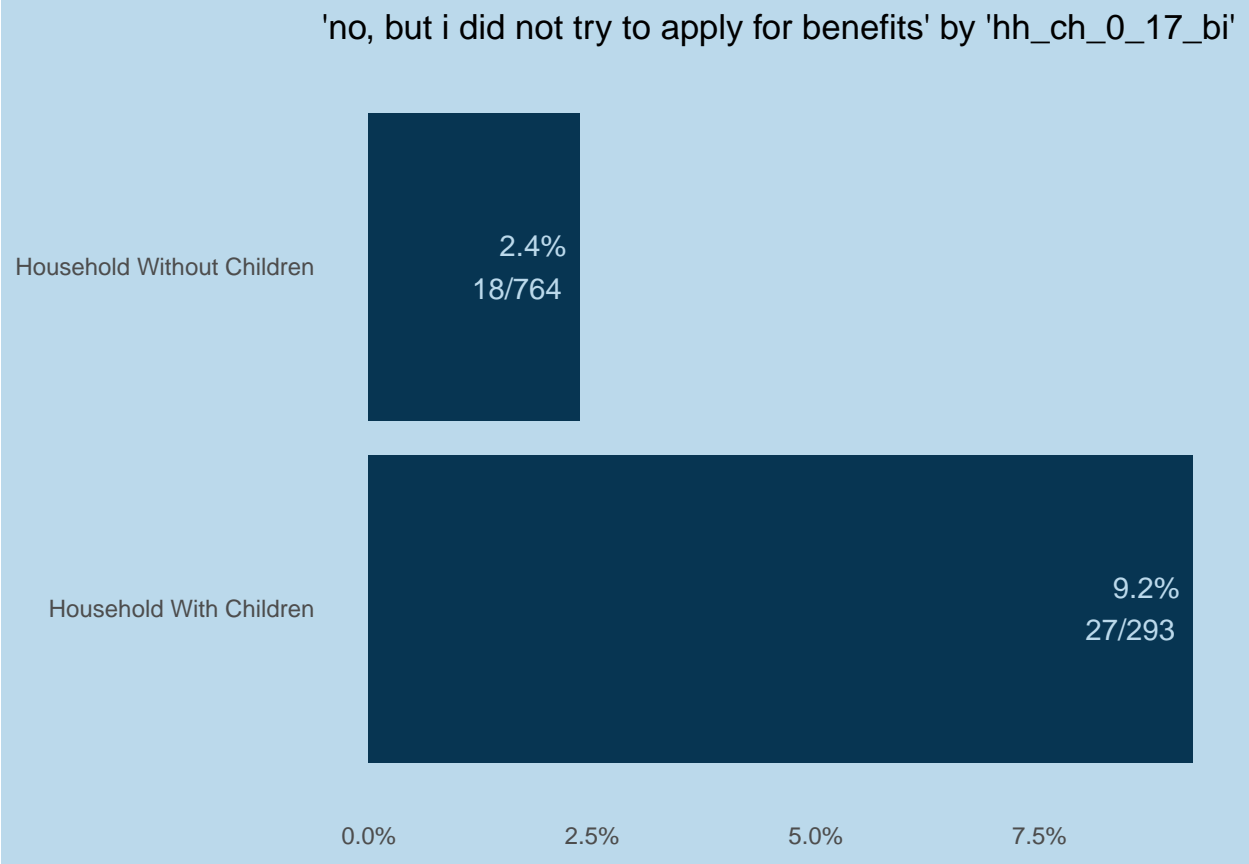
```
##  
## [[2]]$sch_level_cat
```



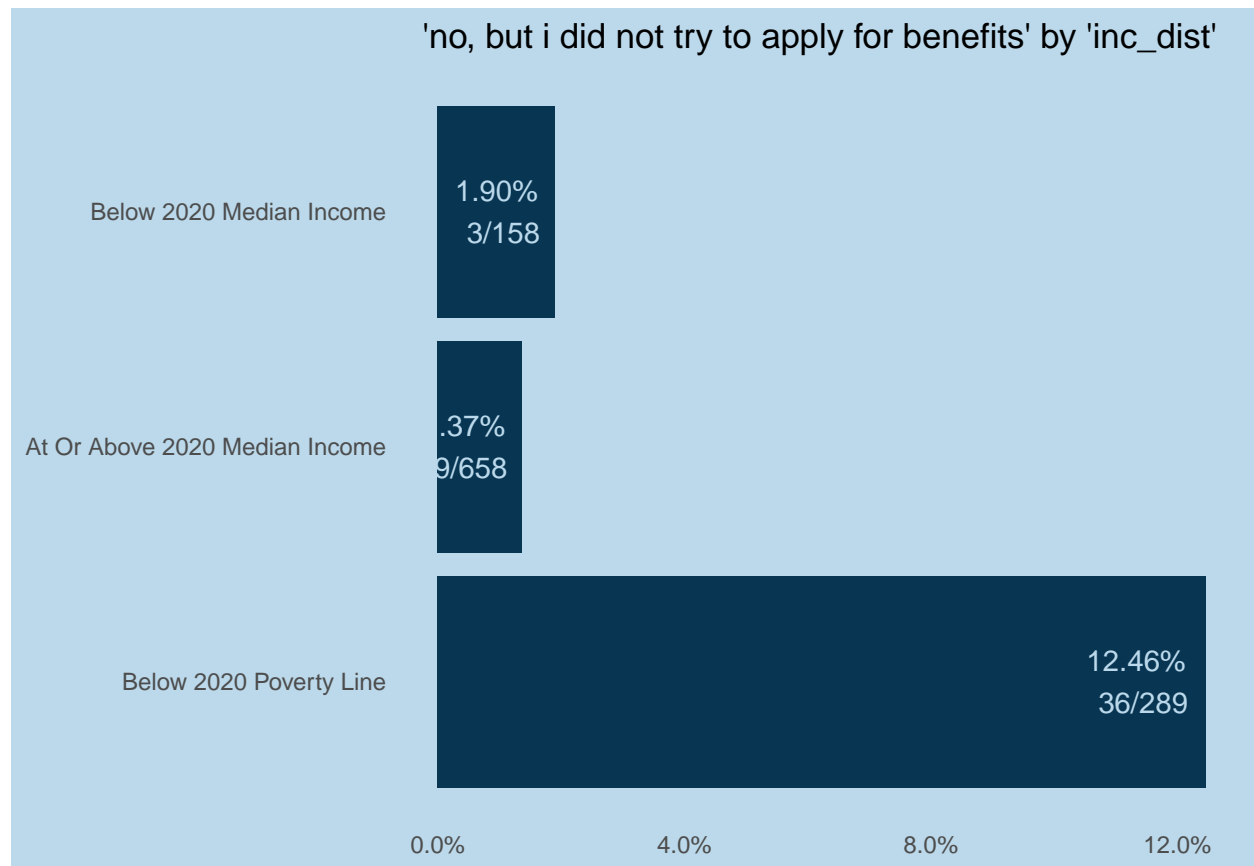
```
##  
## [[2]]$hh_64_bi
```



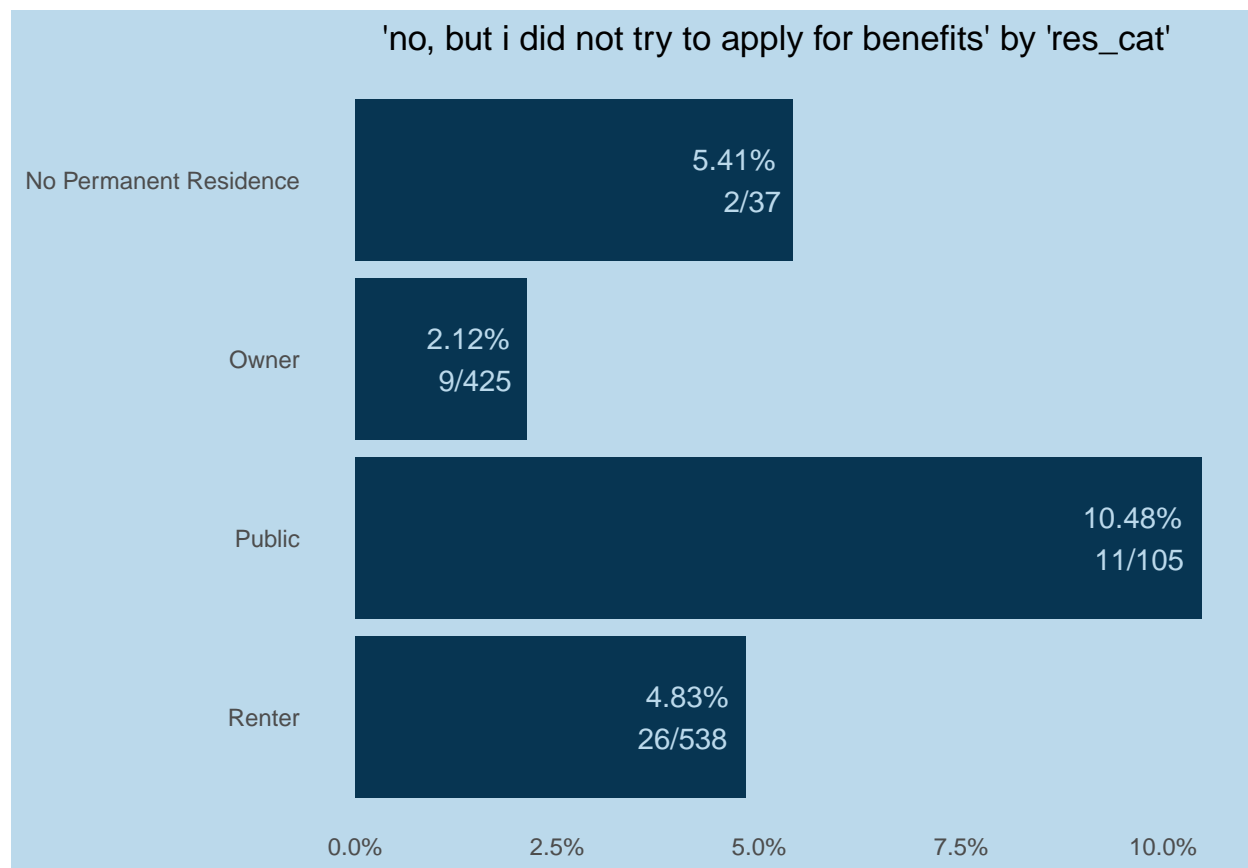
```
##  
## [[2]]$hh_ch_0_17_bi
```



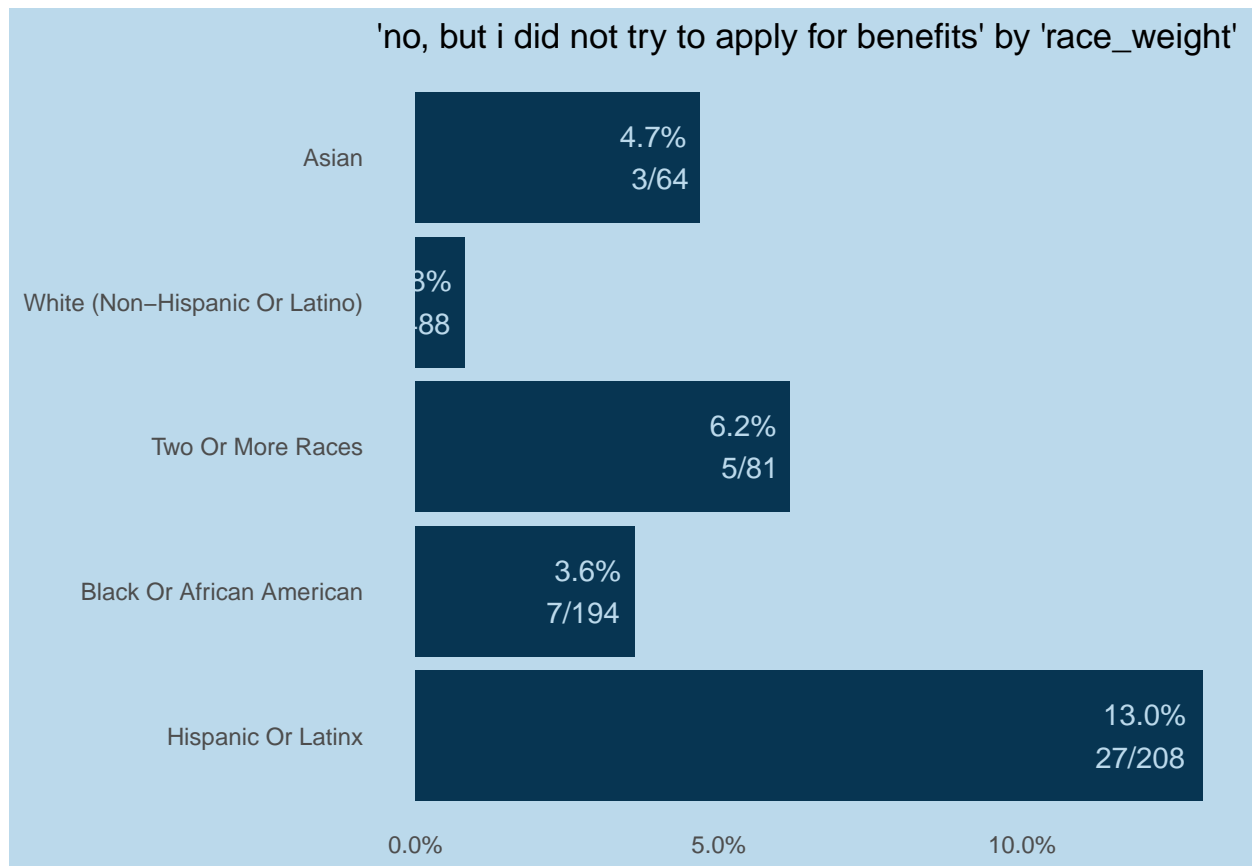
```
##  
## [[2]]$inc_dist
```

```
##  
## [[2]]$res_cat
```



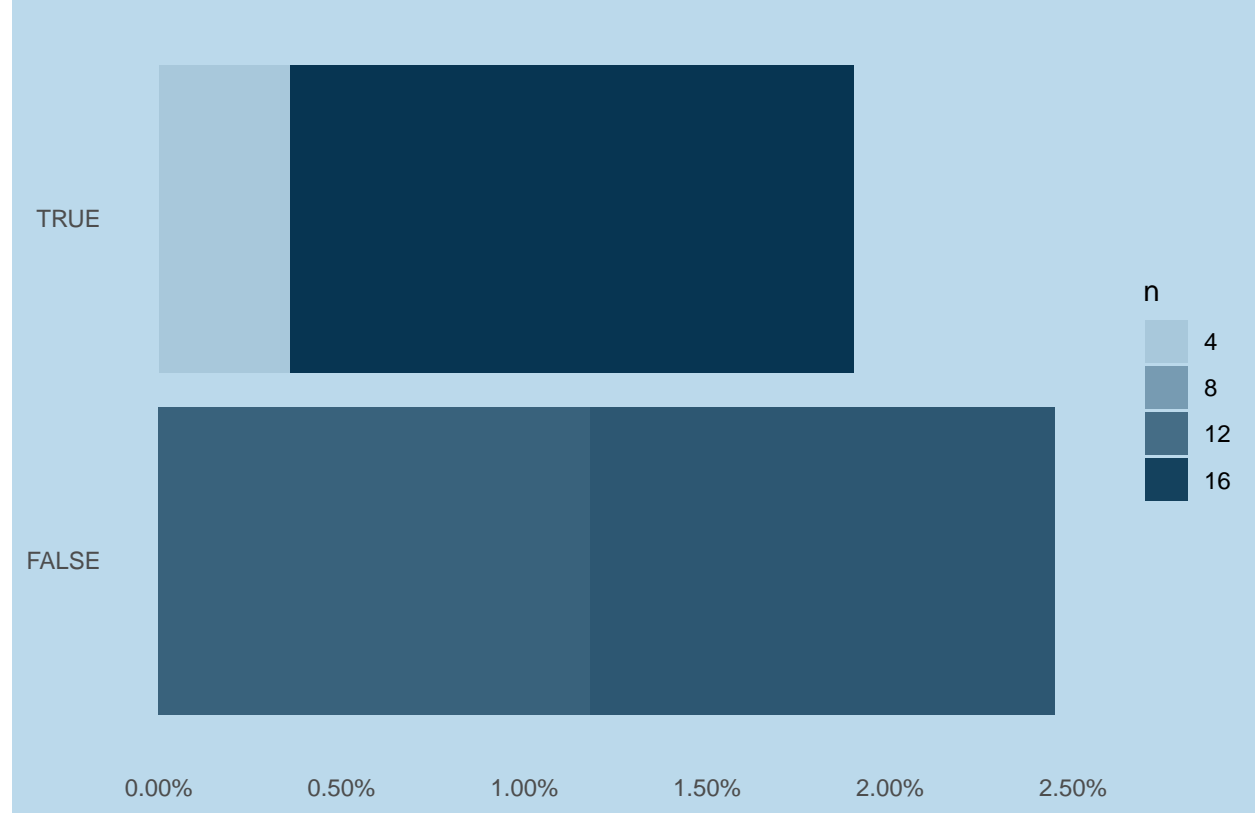
```
##  
## [[2]]$race_weight
```



1.12) Unemployed people who have less than a bachelors degree are more or less likely to apply for unemployment benefits even if they qualify [11, 15,16]

```
poa %>% count(emp_a_un, unemp_con = unemp_ben == 4, sch_bach = sch_bach == "BA plus") %>%
  mutate(prop = round(n/sum(n), digits = 4)) %>%
  na.omit %>% filter(unemp_con) %>% mutate_if(labelled::is.labelled, labelled::to_character) %>%
  ggplot(aes(x = prop, y = reorder(sch_bach, -n), alpha = n)) +
    geom_col(fill = project_pal[4]) +
    scale_x_continuous(labels = scales::percent) +
    xlab(NULL) + ylab(NULL) + ggtitle("Percent of People who Didn't apply for Unemployment Benefits by")
```

people who Didn't apply for Unemployment Benefits by whether or not they hold at least



```
#mean(str_detect(labelled::to_character(poa$sch_level), "(?!no )degree"))
#mean(!str_detect(poa$ins, "do"))
```

validation

```
poa %>% filter(str_detect(emp_a, "unemployed;|;unemployed")) %>%
  select(responseid, source, wrk, emp_a, emp_b) %>% mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 12 x 5
##   responseid      source      wrk      emp_a emp_b
##   <chr>          <chr>    <chr>    <chr> <chr>
## 1 r_3oma9r4nbxuvccv spanish  i am not working  gig ~ unem~
## 2 r_3rlqujhnrppj20i spanish  i am not working  home~ work~
## 3 r_3esdkq4tdvbl8k7 spanish  i am not working  home~ gig ~
## 4 r_3hnsazw9xctkobp english  i am not working  home~ work~
## 5 r_3dharhpy3206m0b english  i am not working  stud~ work~
## 6 r_3kyd1w7umjt9vit english  i am not working  disa~ disa~
## 7 r_vkequavdh1zhfx3 english  i am not working  home~ smal~
## 8 r_3kv9rwjmkmeppyq english - pots  i am not working  disa~ disa~
## 9 r_xteiepkommurq5x spanish - sbu   i am not working  work~ work~
## 10 r_3dza7ogeb6a7trt english - abny  i am not working  disa~ disa~
## 11 r_rryax5dhoivrbe ny urban english no, i am fully virtual (i am ~ work~ work~
## 12 r_xaaonfutabl8ph ny urban english yes, but only in a hybrid mod~ free~ free~
```

```
poa %>% count(wrk, emp_a) %>%
  filter(wrk == 4) %>%
  mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 29 x 3
##   wrk                emp_a                n
##   <chr>              <chr>              <int>
## 1 i am not working disabled                24
## 2 i am not working disabled;other           1
## 3 i am not working disabled;unemployed       2
## 4 i am not working disabled;unemployed;other 1
## 5 i am not working freelance or consultant   5
## 6 i am not working freelance or consultant;homemaker 1
## 7 i am not working gig worker (uber, lyft, instacart, etc.) 1
## 8 i am not working gig worker (uber, lyft, instacart, etc.);homemaker;un~ 1
## 9 i am not working homemaker                27
## 10 i am not working homemaker;disabled;unemployed 1
## # ... with 19 more rows
```

```
filter(poa, wrk == 4, str_detect(emp_a, "full|part")) %>% select(responseid, source, wrk, emp_a, emp_b)
  mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 16 x 5
##   responseid      source      wrk      emp_a      emp_b
##   <chr>          <chr>      <chr>      <chr>      <chr>
## 1 r_24wvkv3ks5ewqd spanish      i am not working work part-time work~
## 2 r_6dulaerkz9rz9rv spanish      i am not working work part-time home~
## 3 r_p6lvngskalj0fir prolific      i am not working work part-time gig ~
## 4 r_2ewlcpq9igqlust prolific      i am not working work part-time free~
## 5 r_1e5ivk5ozq2vo5i english - helpnyc i am not working work part-time work~
## 6 r_2slf16fqxsf4qit english - helpnyc i am not working work part-time;re~ reti~
## 7 r_1latxotyidndysp english      i am not working work full-time;re~ reti~
## 8 r_2paw5v29tjb2eca english      i am not working work part-time reti~
## 9 r_2uvy38usdgcj520 english      i am not working work part-time work~
## 10 r_3hg5kew0qqkcq28 english - pots i am not working work full-time reti~
## 11 r_rjjuz0xca59pj5n spanish - pots i am not working work full-time work~
## 12 r_2tocregwqqxw1lk spanish - pots i am not working work full-time;ho~ work~
## 13 r_1hoxlofhvkplzl1 spanish - pots i am not working work full-time work~
## 14 r_2zei9gsu9yvgqgn spanish - sbu i am not working work part-time work~
## 15 r_xteiepkommurq5x spanish - sbu i am not working work full-time;un~ work~
## 16 r_b16vjrrxuuzau6l spanish - sbu i am not working work part-time;ho~ work~
```

```
filter(poa, wrk == 3, str_detect(emp_a, "unemp|dis")) %>% select(responseid, source, wrk, emp_a, emp_b)
  mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 5 x 5
##   responseid      source      wrk      emp_a emp_b
##   <chr>          <chr>      <chr>      <chr> <chr>
## 1 r_2wmm21lvbmh1orpx english - helpnyc no, i am fully virtual (i am ~ free~ work~
## 2 r_3rjq4gocxzw5ro english - helpnyc no, i am fully virtual (i am ~ work~ work~
## 3 r_6gsxxnpapffz1u1 english - helpnyc no, i am fully virtual (i am ~ reti~ reti~
## 4 r_24x9cl8p5xzhxvc english      no, i am fully virtual (i am ~ disa~ disa~
## 5 r_rryax5dhoivrbe ny urban english no, i am fully virtual (i am ~ work~ work~
```

```
# everybody who started unemployed was still unemployed
poa %>% filter(!str_detect(emp_a, "un"), str_detect(emp_b, "un"), !is.na(unemp_ben)) %>% select(responseid, emp_b, emp_a, unemp_ben)
mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 2 x 4
##   responseid      emp_b      emp_a      unemp_ben
##   <chr>          <chr>      <chr>      <chr>
## 1 r_1fb7apzw9cht1ni unemployed work part-time yes
## 2 r_anfcbuoqmi8abp7 unemployed work part-time yes
```

```
# people who lost their jobs and did not get new ones
poa %>% filter(str_detect(emp_a, "un"), !str_detect(emp_b, "un"), !is.na(unemp_ben)) %>% select(responseid, emp_b, emp_a, unemp_ben)
mutate_if(labelled::is.labelled, labelled::to_character)
```

```
## # A tibble: 54 x 4
##   responseid      emp_b      emp_a      unemp_ben
##   <chr>          <chr>      <chr>      <chr>
## 1 r_3rlqujhnrrpj20i work part-time;homemaker      home~ no, but ~
## 2 r_3esdkq4tdvbl8k7 gig worker (uber, lyft, instacart, etc.);h~ home~ no, but ~
## 3 r_2qfz9dvdmt4gc6 work full-time      unem~ no, beca~
## 4 r_3eqqbmfwu7p09bq work full-time      unem~ no, but ~
## 5 r_1rj0io90whj0qkm work part-time;freelance or consultant unem~ no, beca~
## 6 r_aai4buravc7jrkn student      unem~ no, but ~
## 7 r_2e5liylqfvqy0uy student      unem~ no, but ~
## 8 r_1lcvbvp6zf7wbbh work full-time      unem~ yes
## 9 r_3rmc8wkilnq14ri work part-time      unem~ no, beca~
## 10 r_2vyon33pxp0m2ds work full-time      unem~ no, but ~
## # ... with 44 more rows
```

1.1

```
drive_upload(media = "plan_of_analysis.html", path = paste0("Communities Speak/Subteams/Data Subteam/Data Subteam/"))
```