

plan_of_analysis

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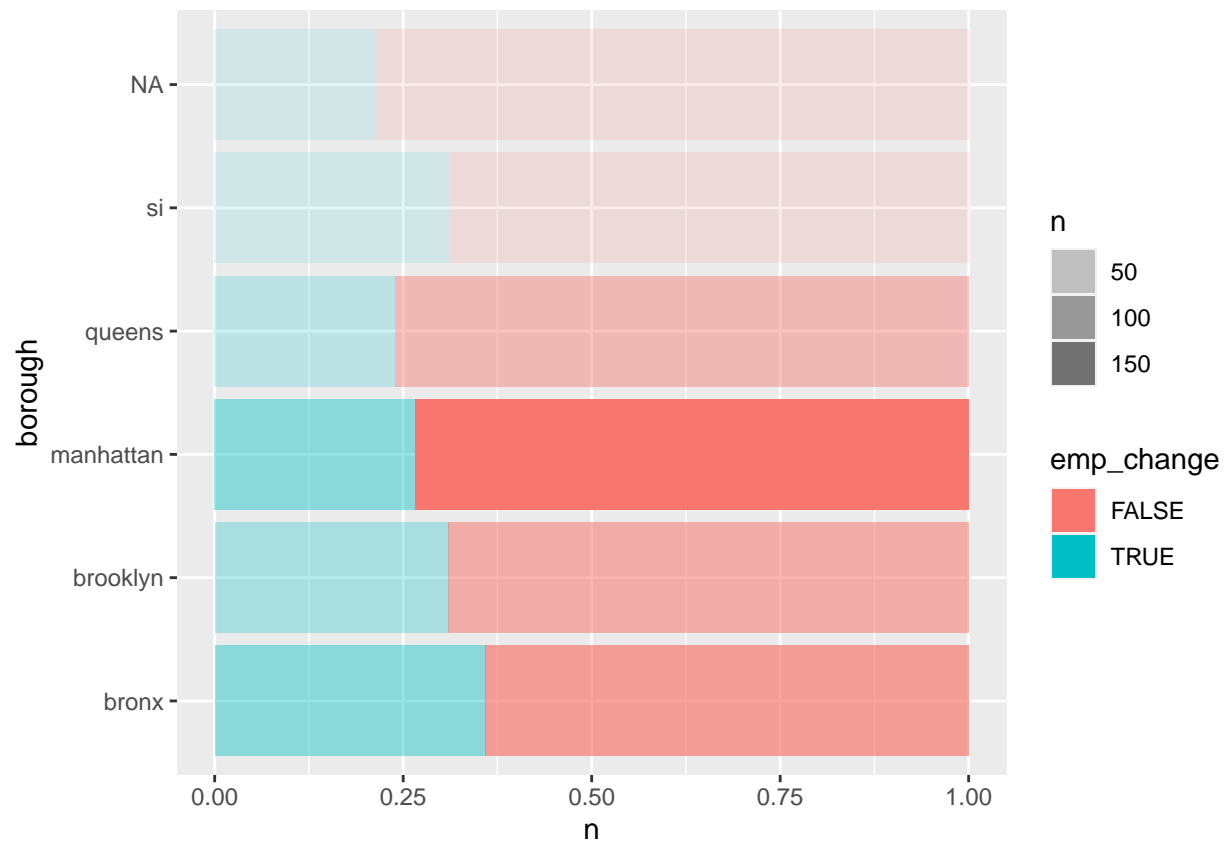
```
library(tidyverse)
library(haven)
wrangled <- read_dta("../data/output/wrangled20220211.dta") %>%
  mutate_if(is.character, na_if, "")
```

employment

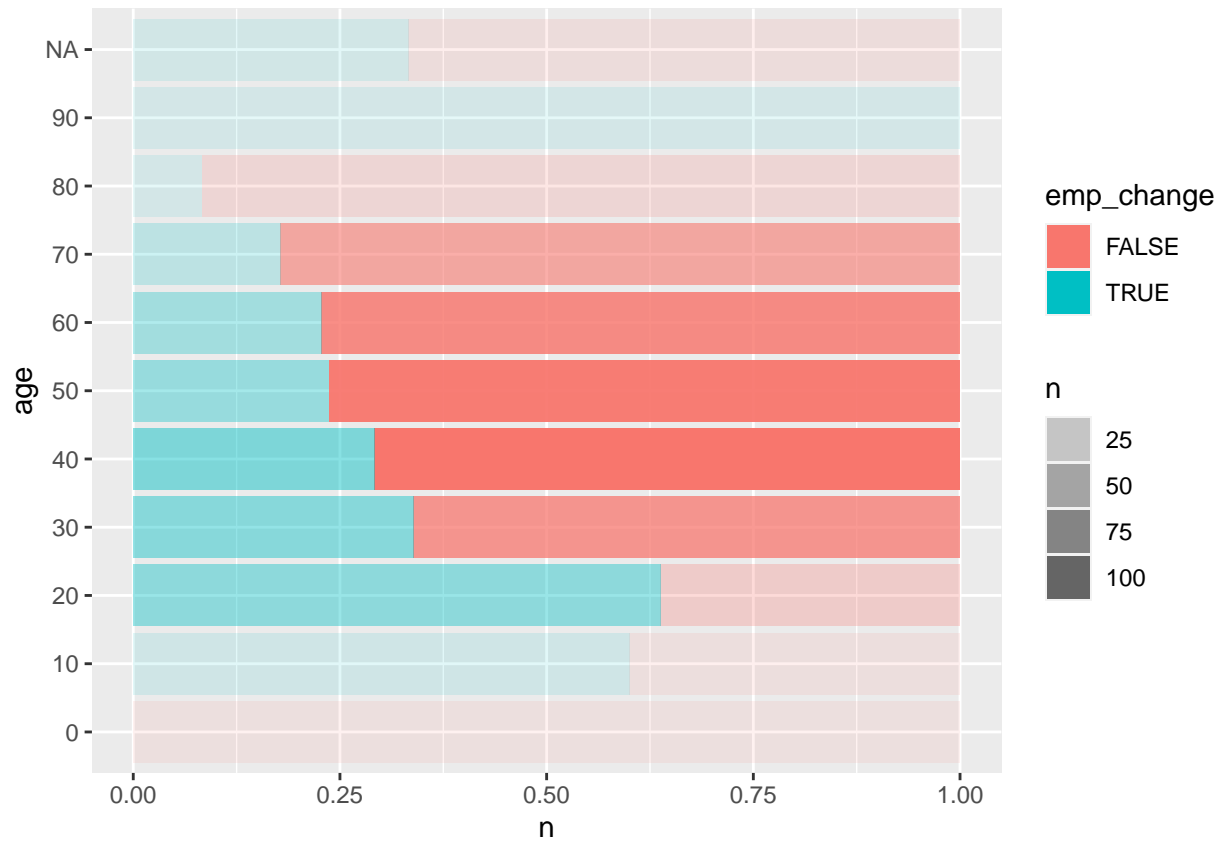
```
demographics <- c("borough", "age", "gen", "not_eng", "mar", "sch_level",
  "hh_64_bi", "hh_ch_0_17", "inc_dist", "res_type") # k

lapply(demographics, function(dem) {
  sym_dem <- sym(dem)
  reshape <- wrangled %>% count(emp_change = emp_b != emp_a, !!sym_dem)
  if(is.character(reshape[[dem]])) {
    reshaped <- reshape %>% arrange(n)
  } else if(haven::is_labelled(reshape[[dem]])){
    reshaped <- reshape %>% arrange(!!sym_dem) %>%
      mutate_at(vars(!!sym_dem), haven::as_factor)
  } else if (dem == "age") {
    reshaped <- reshape %>% mutate_at(vars(!!sym_dem), ~as.factor(floor(./10)*10)) %>%
      group_by(emp_change, !!sym_dem) %>% summarize(n = sum(n))
  } else {
    reshaped <- reshape %>% mutate_at(vars(!!sym_dem), ~as.factor(.)) %>% arrange(n)
  }
  p <- reshaped %>%
    ggplot(aes(x = n, y = !!sym_dem, fill = emp_change, alpha = n)) +
    geom_col(position = "fill")# + xlab(dem)
  return(p)
})
```

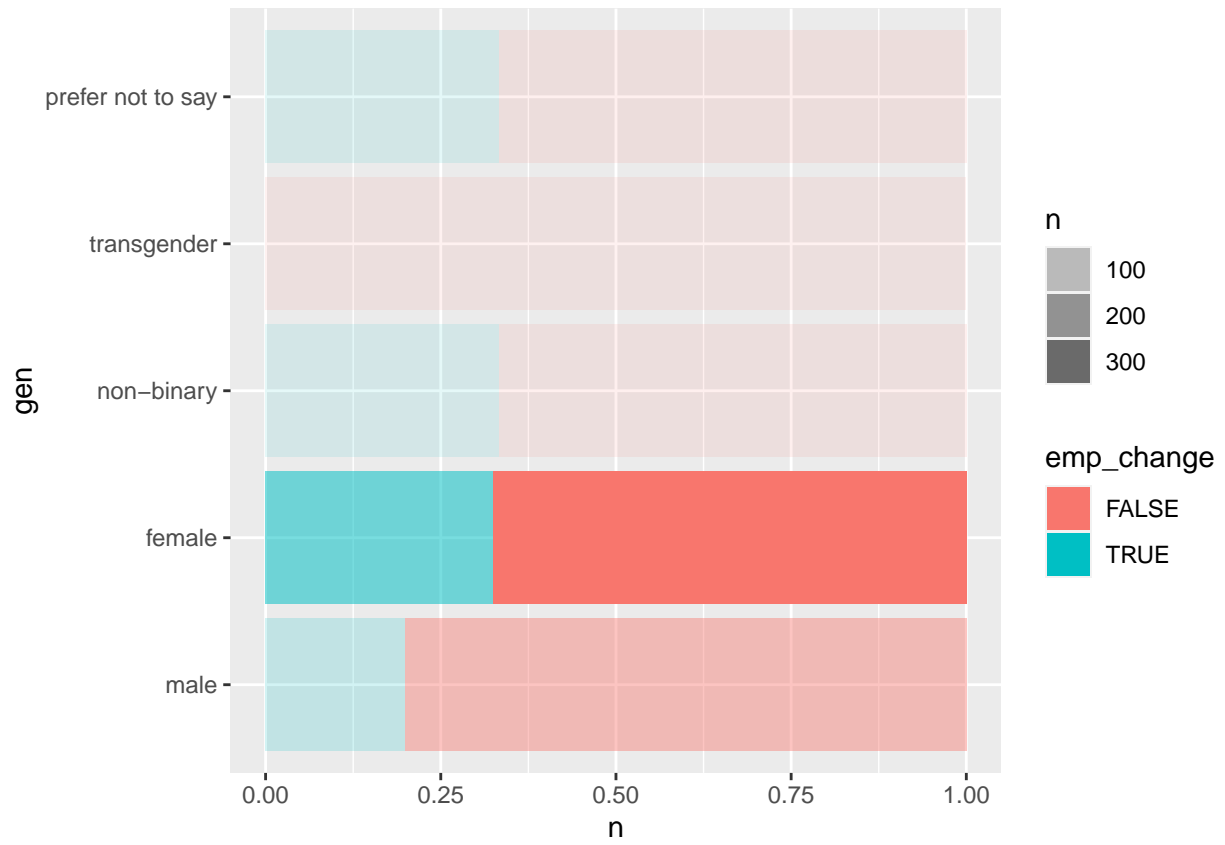
```
## [[1]]
```



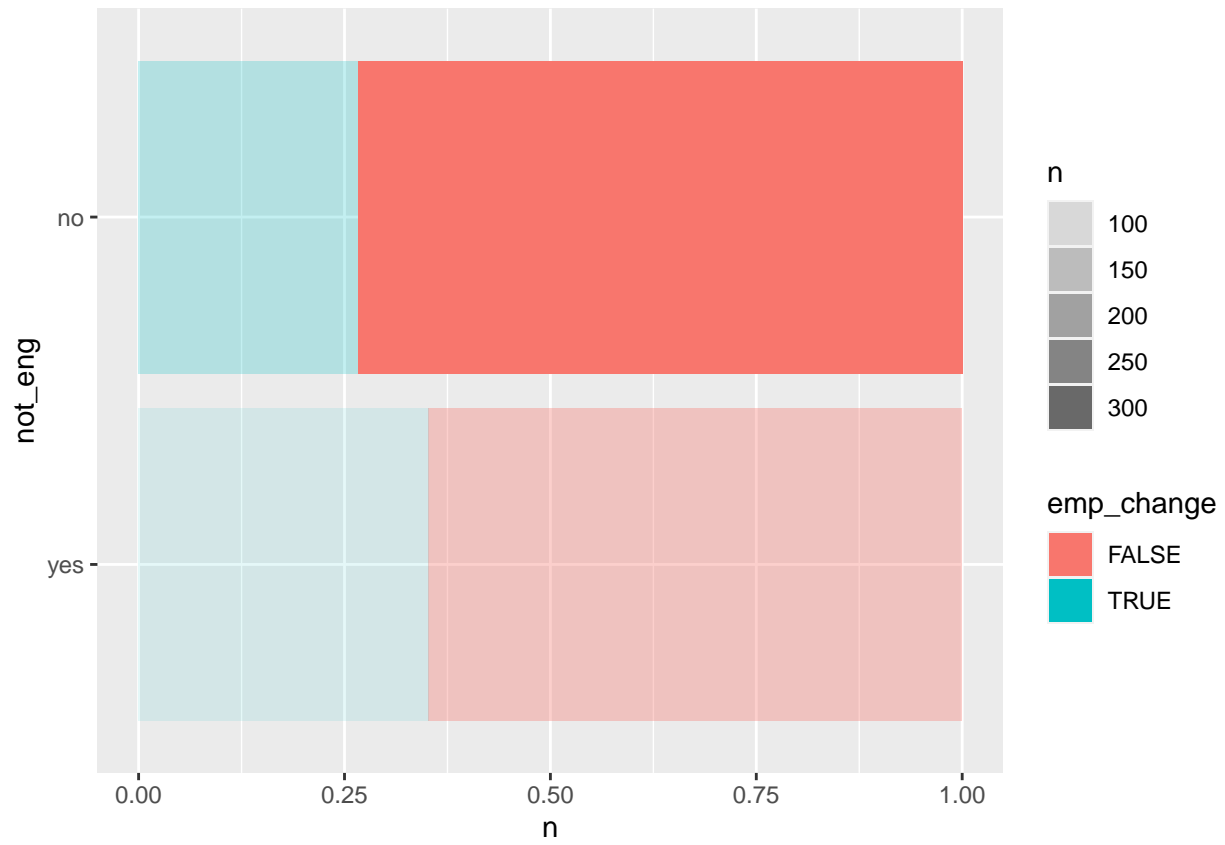
```
##
## [[2]]
```



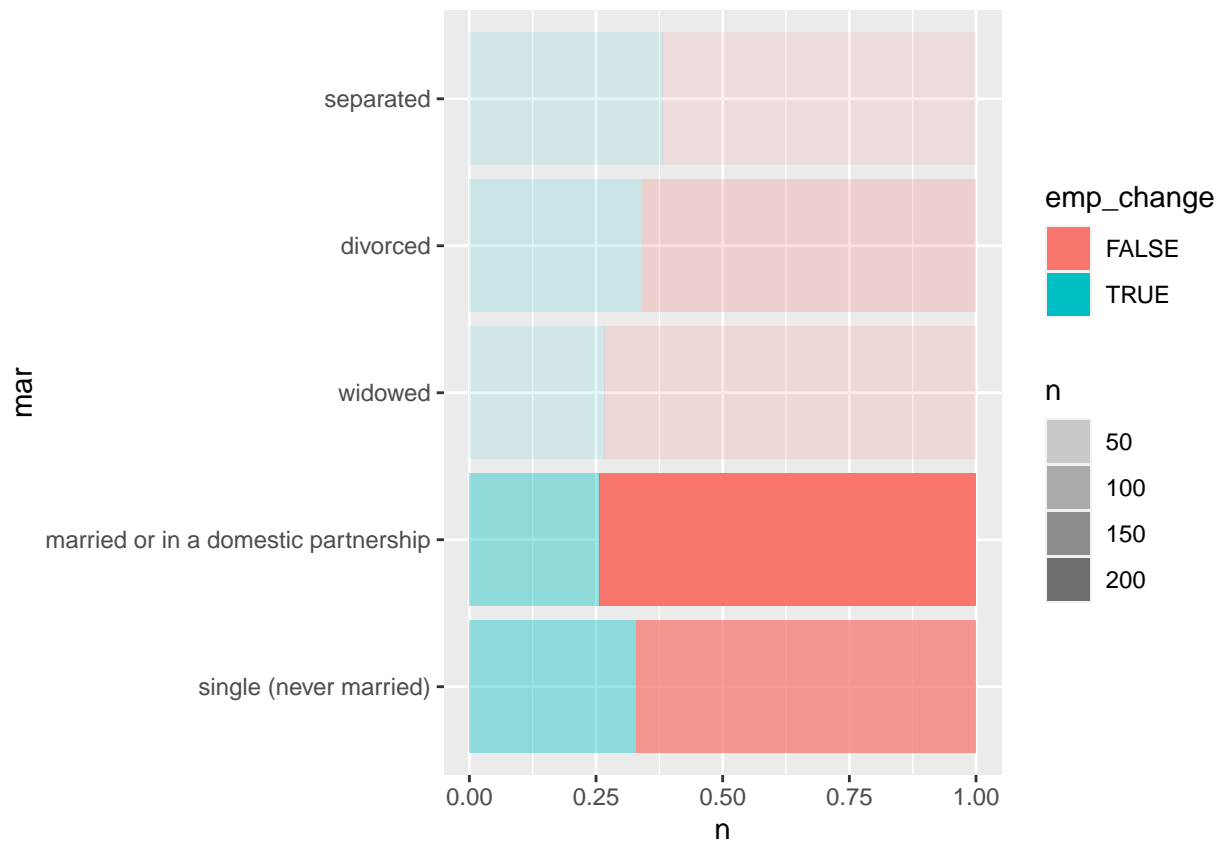
```
##
## [[3]]
```



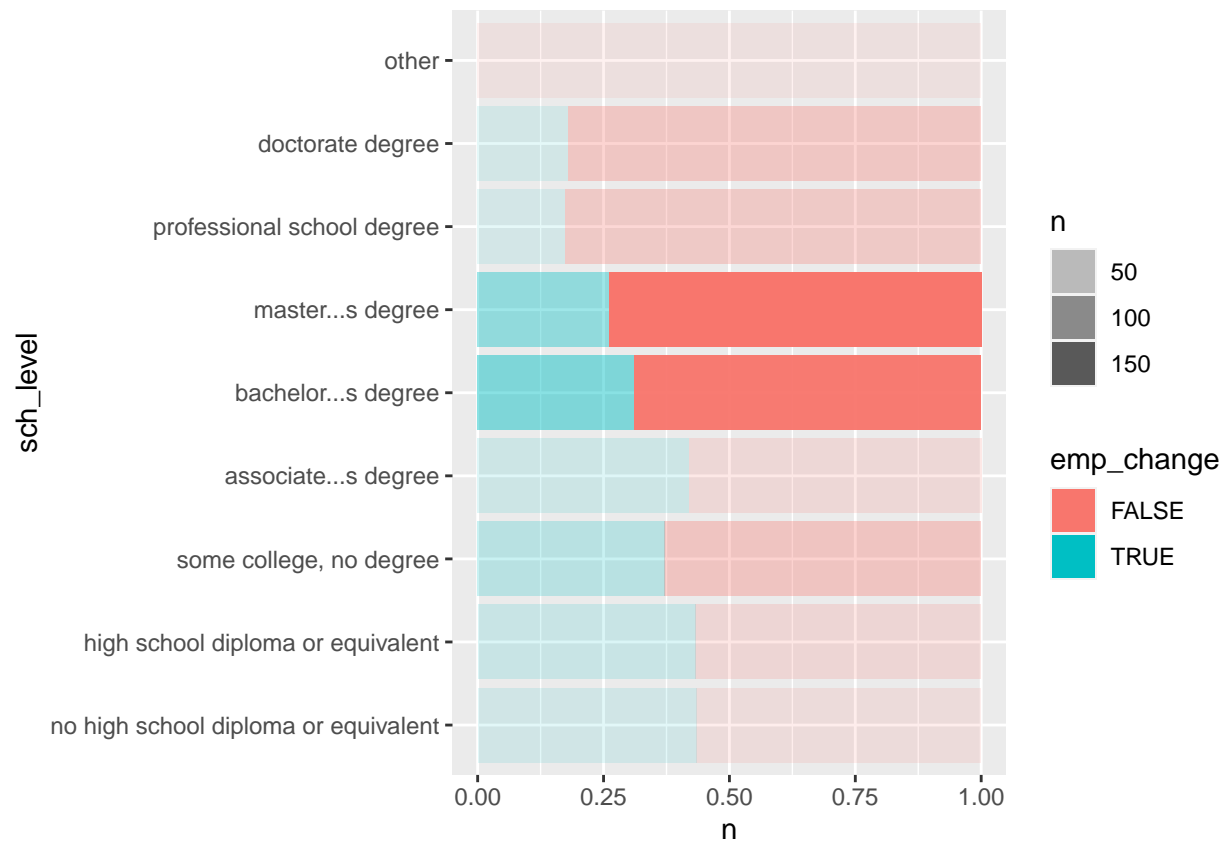
```
##
## [[4]]
```



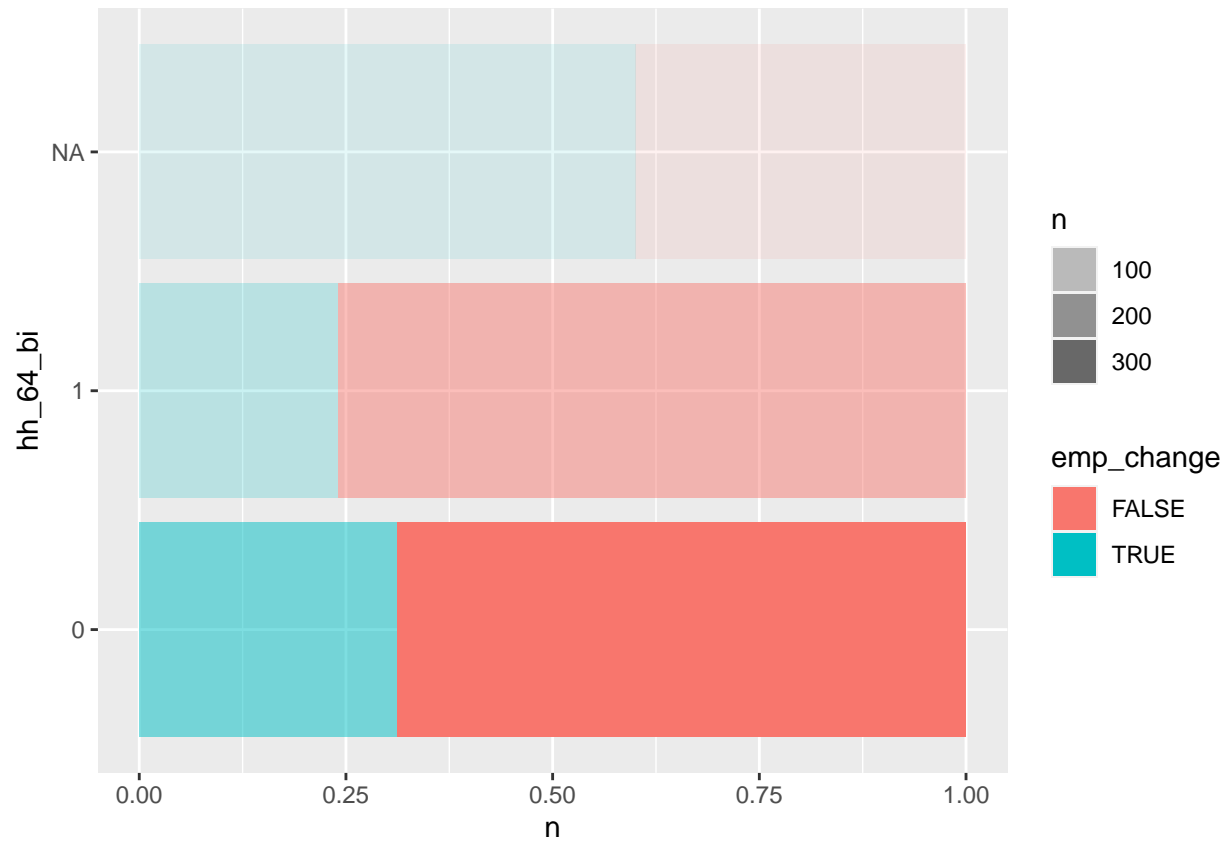
```
##
## [[5]]
```



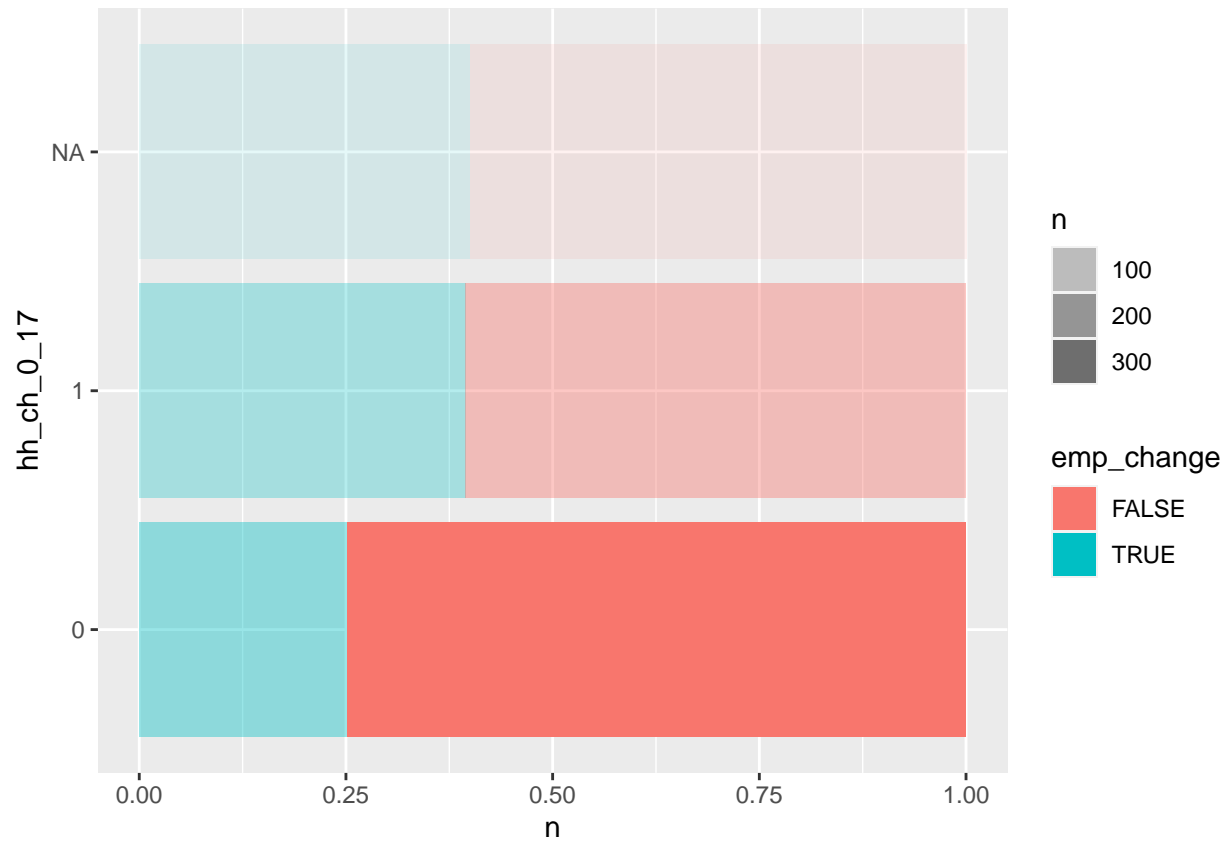
```
##  
## [[6]]
```



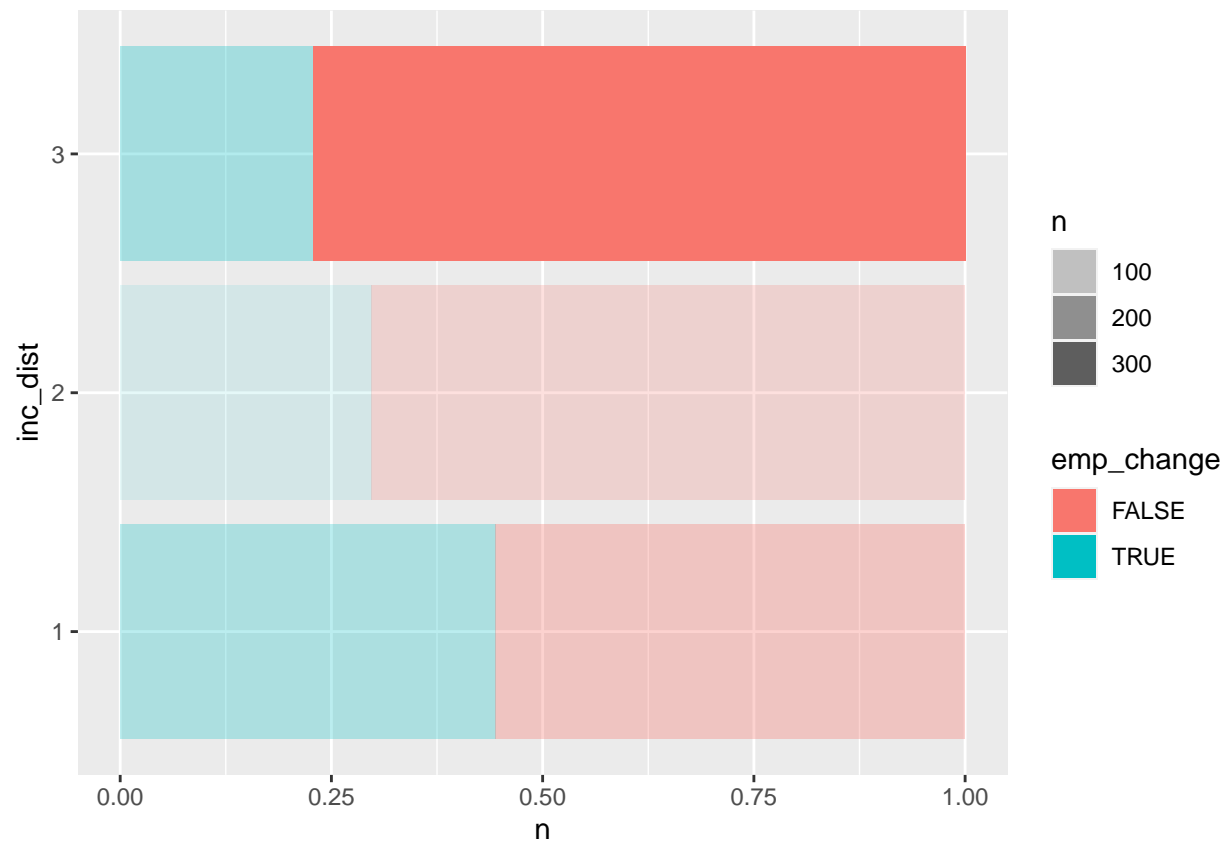
```
##
## [[7]]
```



```
##
## [[8]]
```

```
##
## [[9]]
```



```
##
## [[10]]
```



```
# does not yet fix for double counting
wrangled %>%
  group_by(responseid, emp_change = emp_b != emp_a) %>%
  select(responseid, contains("race_"), -race_text, -race_twomore) %>%
  pivot_longer(cols = contains("race_"), names_to = "category", values_to = "value") %>%
  filter(value != 0) %>% ungroup %>% count(category, emp_change) %>%
  ggplot(aes(x = n, y = category, fill = emp_change, alpha = n)) + geom_col(position = "fill")
```

