sp22_poa_financial_security

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Financial Security [run gender, family, race, borough]

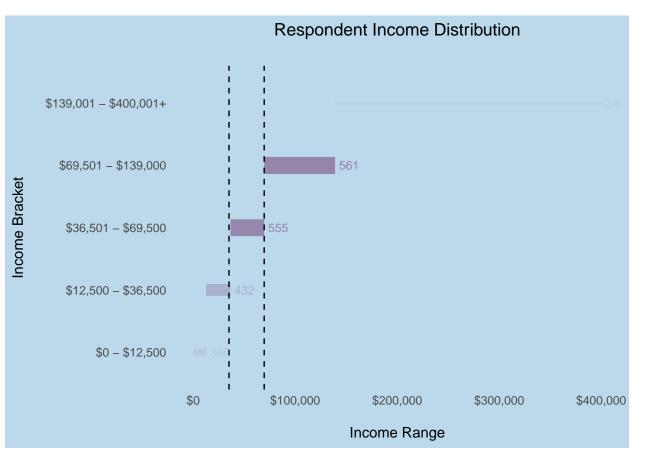
Income Distribution

```
categories <- attributes(wrangled$inc_after)$labels

wrangled %>%
  select(inc_before, inc_after) %>%
  count(inc_before) %>%
  mutate(across(where(is.labelled), labelled::to_character, .names = "{col}_label"))
```

```
## # A tibble: 6 x 3
##
                 inc_before
                                n inc_before_label
                  <int+lbl> <int> <chr>
##
## 1 1 [under $12,500]
                              360 under $12,500
## 2 2 [$12,500 - $36,500]
                              432 $12,500 - $36,500
## 3 3 [$36,501 - $69,500]
                              555 $36,501 - $69,500
## 4 4 [$69,501 - $139,000]
                              561 $69,501 - $139,000
## 5 5 [$139,001 or above]
                              346 $139,001 or above
## 6 NA
                               61 <NA>
```

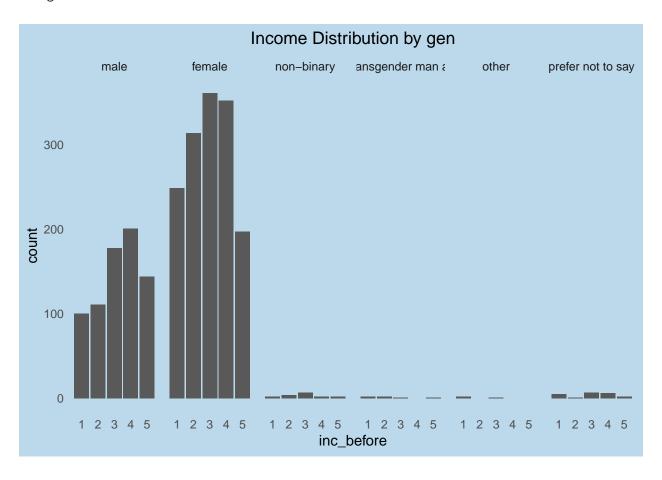
```
arranged <- tibble(range = names(categories)) %>%
  left_join(wrangled %>% mutate(range = labelled::to_character(inc_before)) %>%
              count(range, inc_before)) %>%
  mutate(range = str_replace_all(range, c("under" = "$0 -", "or above" = "- $400,001+"))) %>%
  separate(col = range, into = c("min", "max"), sep = " - ", remove = FALSE) %>%
  mutate(across(min:max, ~as.double(str_replace_all(., "\\$|,|\\+", "")))) %>%
 na.omit()# come back to top bracket later
inc_dist_plot <- arranged %>%
  ggplot(aes(y = reorder(range, max), alpha = n), show.legend = FALSE) +
  \#geom\_col(aes(x = max)) +
  geom_linerange(aes(xmin = min, xmax = max, size = n), color = project_pal[4], show.legend = FALSE) +
  geom_vline(xintercept = c(35000, 69500),
             #labels = c("poverty line", "median income"),
             lty = "dashed") +
  geom_text(aes(x = max, label = n), hjust = -0.2, color = project_pal[4], size = 3, show.legend = FALS
  scale_x_continuous(labels = scales::dollar) +
  \#annotate("text", x = 0, y = c(poverty\_line), label = c("Respondents \nBelow Poverty Line"))
  \#geom\_jitter(data = wrangled, aes(x = ))
  ylab("Income Bracket\n") + xlab("\nIncome Range") +
  ggtitle("Respondent Income Distribution\n")
inc_dist_plot
```

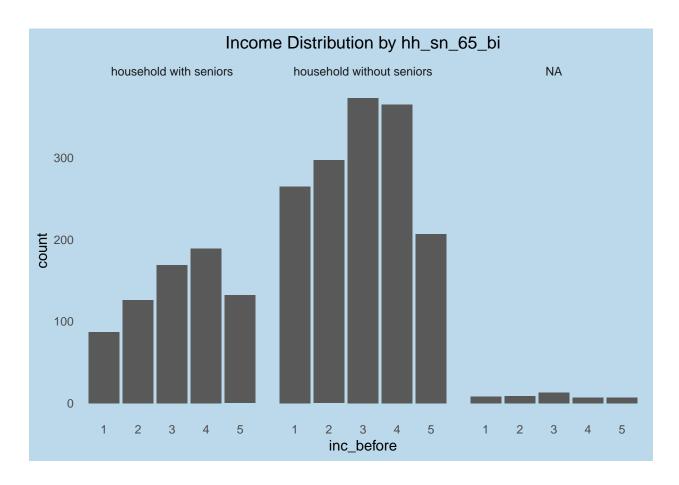


Income Distribution by Demographic

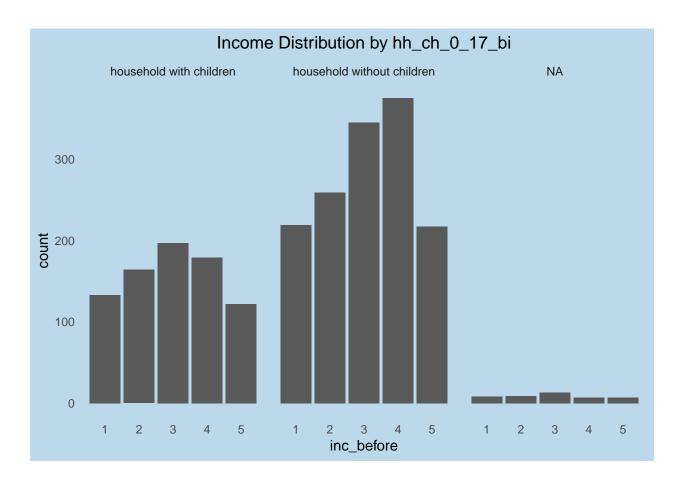
```
lapply(fin_sec_dem, function(facet) {
  sym_facet <- sym(facet)
  wrangled %>% select(inc_before, !!sym_facet) %>%
    mutate(across(!!sym_facet, labelled::to_factor)) %>%
    ggplot() + geom_bar(aes(x = inc_before)) +
    facet_grid(cols = vars(!!sym_facet)) +
    ggtitle(glue::glue("Income Distribution by {facet}"))
})
```

\$gen

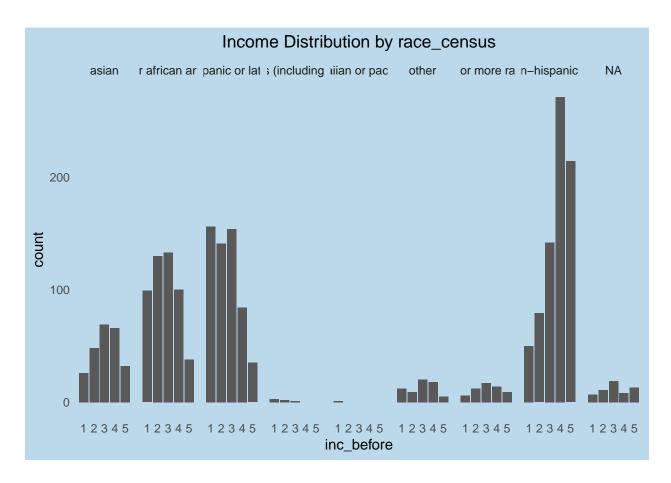




\$hh_ch_0_17_bi

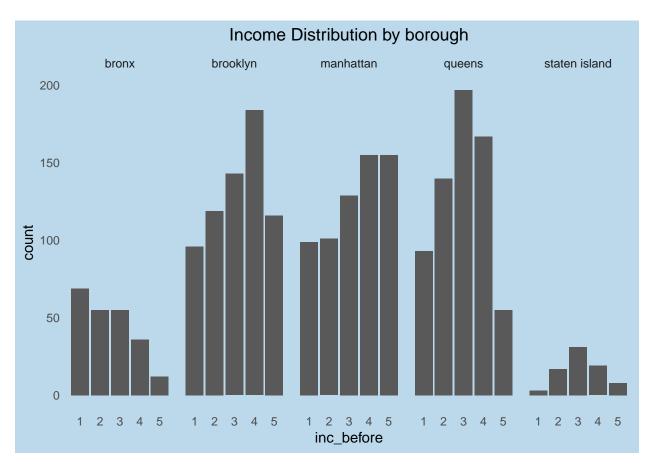


##
\$race_census

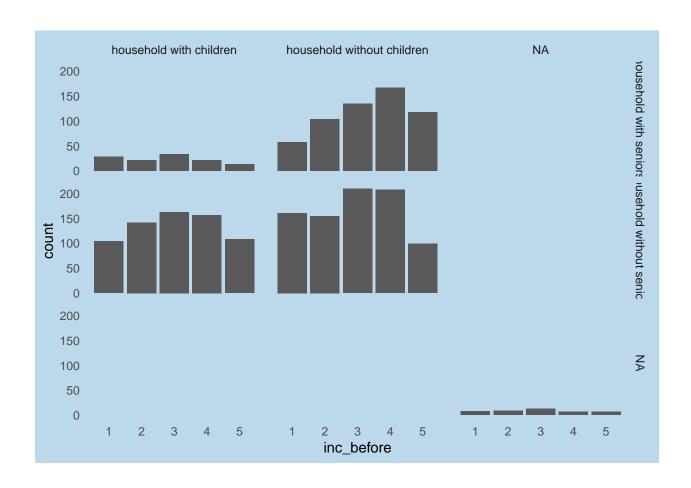


##

\$borough



```
wrangled %>%
select(inc_before, fin_sec_dem) %>%
mutate(across(c(hh_ch_0_17_bi, hh_sn_65_bi), labelled::to_factor)) %>%
ggplot() + geom_bar(aes(x = inc_before)) +
facet_grid(vars(hh_sn_65_bi), vars(hh_ch_0_17_bi))
```



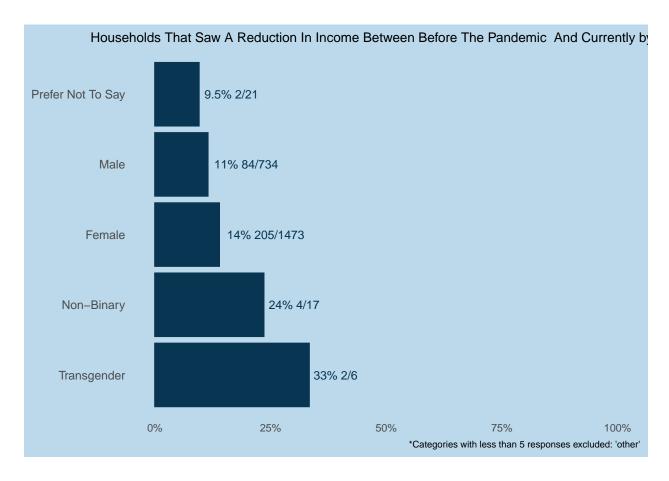
POA

2.1) Households that saw a reduction in income between before the pandemic and currently [12 &13]

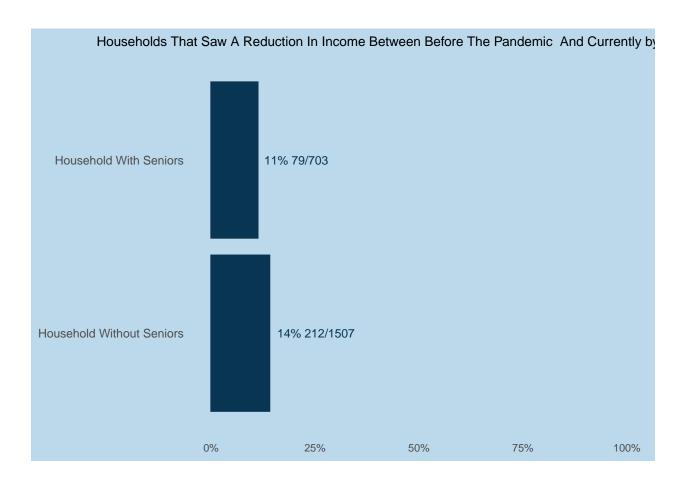
- 1. Compare predicted present income with income before March 2020 income to find positive or negative change
- 2. Run distribution of negative changes over population
- 3. Run distribution by sub-demographics (a-k)
- a. Compare and find gaps (test unequal proportions)

\$gen

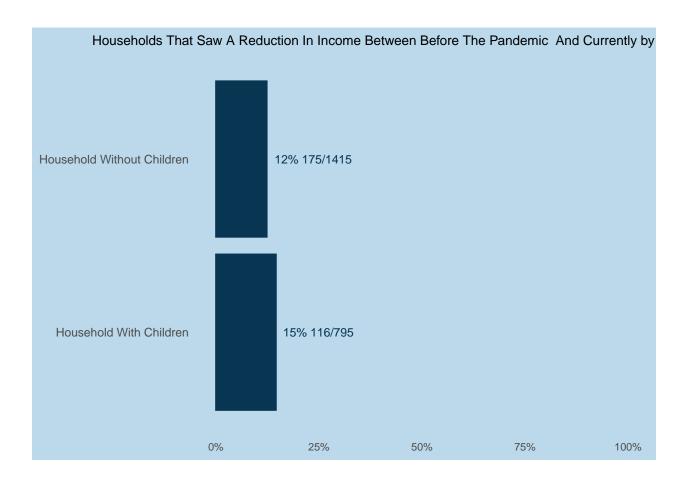
\$gen\$plot



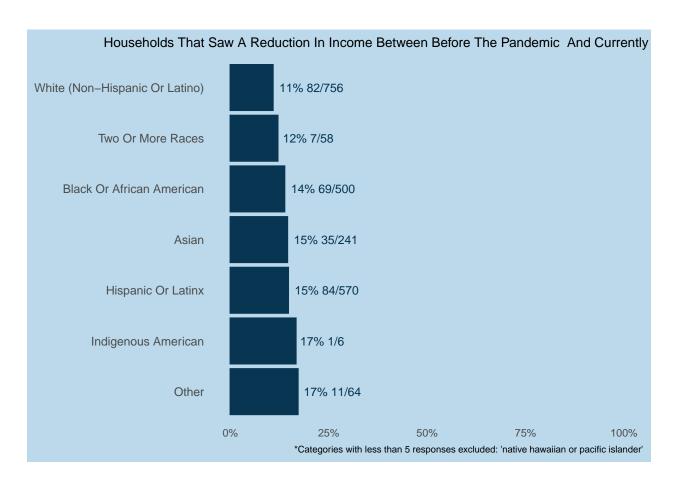
```
##
## $gen$p.values
## $gen$p.values$inc_neg
                      prefer not to say male female non-binary transgender
## prefer not to say
                                       NA
                                            NA
                                                    NA
                                                               NA
                                                                            NA
## male
                                       NA
                                            NA
                                                    NA
                                                               NA
                                                                            NA
## female
                                       NA
                                            NA
                                                    NA
                                                               NA
                                                                            NA
## non-binary
                                       NA
                                            NA
                                                   NA
                                                               NA
                                                                            NA
## transgender
                                       {\tt NA}
                                            NA
                                                    {\tt NA}
                                                               NA
                                                                            NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$inc_neg
## household with seniors household without seniors
## household with seniors NA NA
## household without seniors NA NA
## ##
## ##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

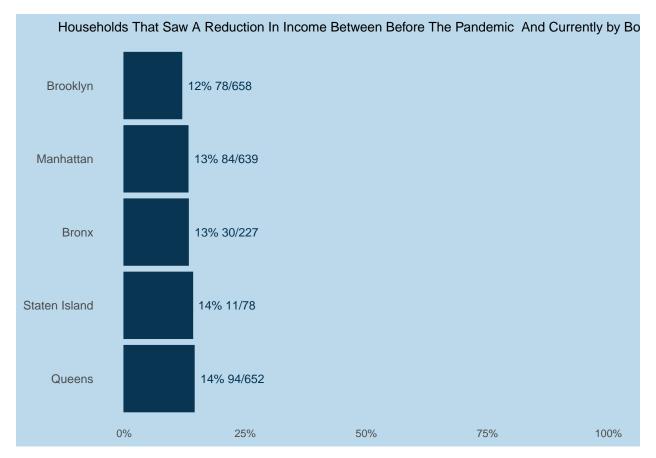


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$inc_neg
## household without children household with children
## household without children NA NA
## household with children NA NA
## ##
## ##
##
##
##
## $race_census
## $race_census$plot
```



##												
##	<pre>\$race_census\$p.values</pre>											
##	<pre>\$race_census\$p.values\$inc_neg</pre>											
##		${\tt white}$	(no	n-h	ispan:	ic or	lati	no)	two o	or r	nore ra	aces
##	<pre>white (non-hispanic or latino)</pre>							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
##	other							NA				NA
##		black	or	afr	ican a	ameri	can a	sian	l			
##	white (non-hispanic or latino)						NA	NA	L			
##	two or more races						NA	NA	L			
##	black or african american						NA	NA	L			
##	asian						NA	NA	L			
##	hispanic or latinx						NA	NA	L			
##	Indigenous American						NA	NA	L			
##	other						NA	NA	L			
##		hispar	nic	or	latin	Ind:	igeno	us A	meri	can	other	
##	white (non-hispanic or latino)				NA	_				NA	NA	
##	two or more races				N.	=				NA	NA	
##	black or african american				NA	A				NA	NA	
##	asian				NA	A				NA	NA	
	hispanic or latinx				N.	=				NA	NA	
##	Indigenous American				N.	A				NA	NA	

```
## other NA NA NA
##
##
##
##
##
## $borough
## $borough$plot
```



```
##
## $borough$p.values
## $borough$p.values$inc_neg
##
                 brooklyn manhattan bronx staten island queens
## brooklyn
                        NA
                                  NA
                                        NA
                                                       NA
                                                              NA
## manhattan
                        NA
                                  NA
                                        NA
                                                       NA
                                                              NA
                                  NA
## bronx
                        NA
                                        NA
                                                       NA
## staten island
                       NA
                                  NA
                                        NA
                                                       NA
                                                              NA
                        NA
                                  NA
                                        NA
                                                       NA
## queens
                                                              NA
cat("None of these plots show statistically significant results")
```

None of these plots show statistically significant results

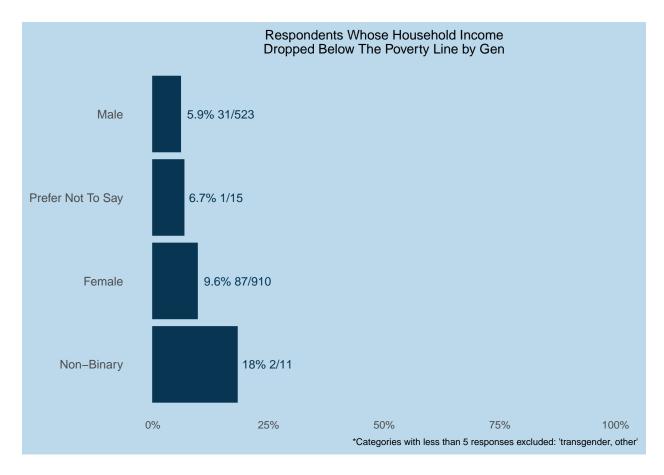
2.2) Households whose income dropped below the poverty line from 2020 to 2021 $[12\ \&\ 13]$

1. Run distribution over population

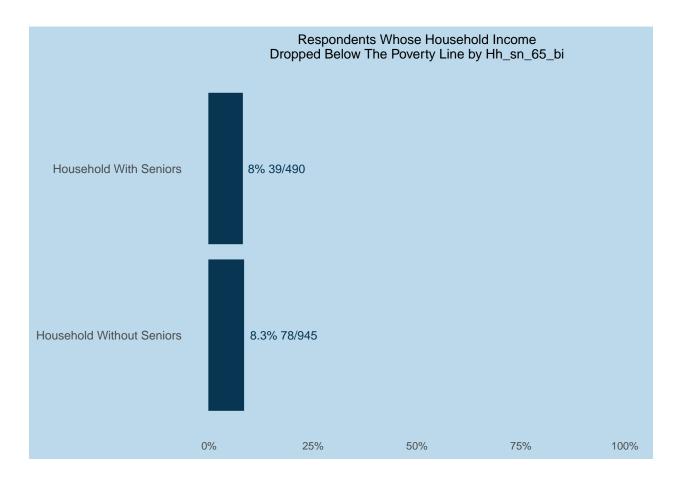
- 2. Run distribution by sub-demographics (a-k) and type of previous employment [13]
- a. Compare and find gaps (test unequal proportions)

\$gen

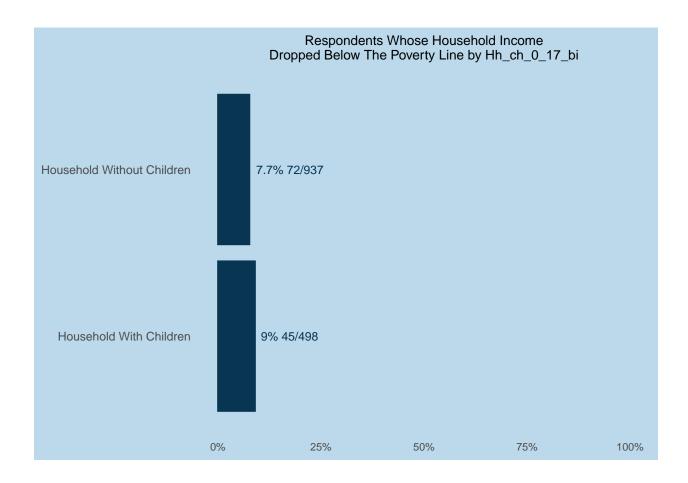
\$gen\$plot



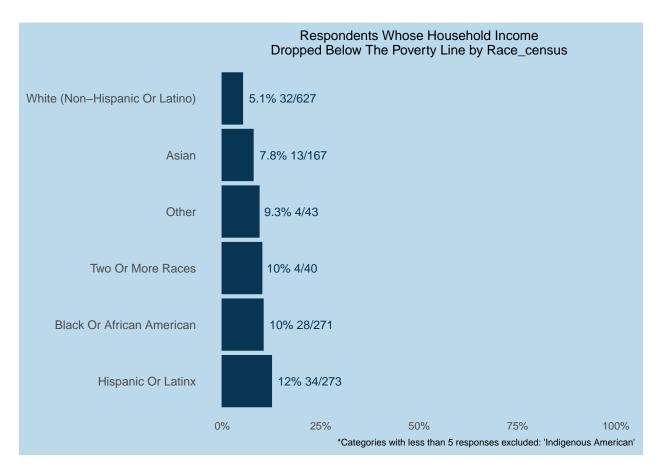
```
##
## $gen$p.values
## $gen$p.values$inc_drop_pov
##
                      male prefer not to say female non-binary
## male
                        NA
                                           NA
                                                   NA
## prefer not to say
                                           NA
                                                   NA
                                                              NA
                        NA
## female
                        NA
                                           NA
                                                   NA
                                                              NA
## non-binary
                        NA
                                           NA
                                                   NA
                                                              NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$inc_drop_pov
## household with seniors household without seniors
## household with seniors NA NA
## household without seniors NA NA
## ##
##
##
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

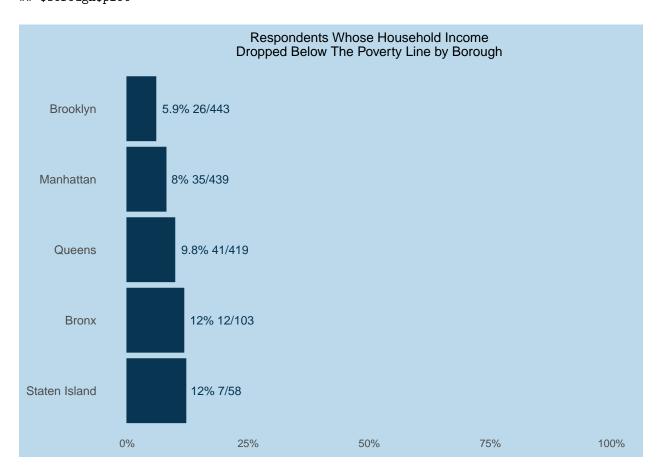


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$inc_drop_pov
## household without children household with children
## household without children NA NA
## household with children NA NA
## ##
## ##
##
##
##
## $race_census
## $race_census$plot
```



```
##
## $race_census$p.values
## $race_census$p.values$inc_drop_pov
                                   white (non-hispanic or latino) asian other
## white (non-hispanic or latino)
                                                                NA
                                                                      NA
                                                                             NA
## asian
                                                                NA
                                                                      NA
                                                                             NA
## other
                                                                NA
                                                                      NA
                                                                             NA
## two or more races
                                                                NA
                                                                      NA
                                                                             NA
## black or african american
                                                           0.00620
                                                                      NA
                                                                             NA
## hispanic or latinx
                                                           0.00018
                                                                      NA
##
                                   two or more races black or african american
## white (non-hispanic or latino)
                                                                          0.0062
                                                   NA
## asian
                                                   NA
                                                                              NA
## other
                                                   NA
                                                                              NA
## two or more races
                                                   NA
                                                                              NA
## black or african american
                                                   NA
                                                                              NA
## hispanic or latinx
                                                                              NA
                                                   NA
##
                                   hispanic or latinx
## white (non-hispanic or latino)
                                              0.00018
## asian
                                                    NA
## other
                                                    NA
## two or more races
                                                    NA
## black or african american
                                                    NA
## hispanic or latinx
                                                    NA
##
##
```

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



```
##
## $borough$p.values
## $borough$p.values$inc_drop_pov
##
                 brooklyn manhattan queens bronx staten island
## brooklyn
                                  NA
                                         NA
                        NA
                                                NA
## manhattan
                        NA
                                  NA
                                         NA
                                                               NA
                                                NA
## queens
                        NA
                                  NA
                                         NA
                                                NA
                                                               NA
## bronx
                        NA
                                  NA
                                         NA
                                                NA
                                                               NA
## staten island
                        NA
                                  NA
                                         NA
                                                NA
                                                               NA
```

cat("Plots for hh_sn_65_bi, hh_ch_0_17_bi, borough do not have\n at least one statistically significant

```
## Plots for hh_sn_65_bi, hh_ch_0_17_bi, borough do not have
## at least one statistically significant result
```

2.4 - 2.5) People who had difficulty paying bills or rent in the past year

2.4) People who had difficulty paying bills in the past year [21]

1. Run distribution over population

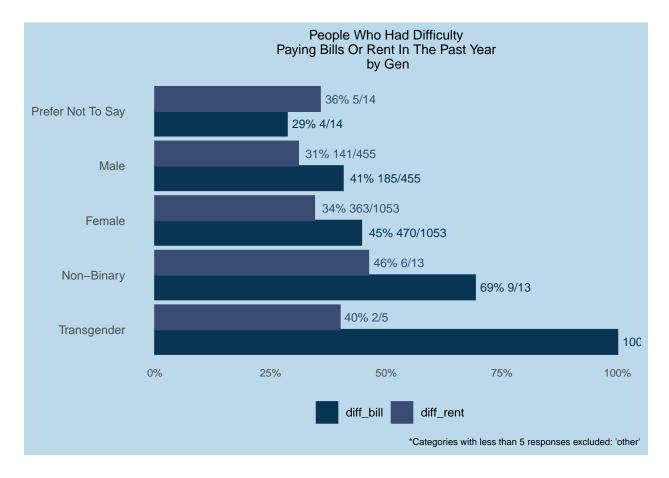
- 2. Run distribution by sub-demographics (a-k)
- a. Compare and find gaps (test unequal proportions)

2.5) People who had difficulty paying rent in the past year [21]

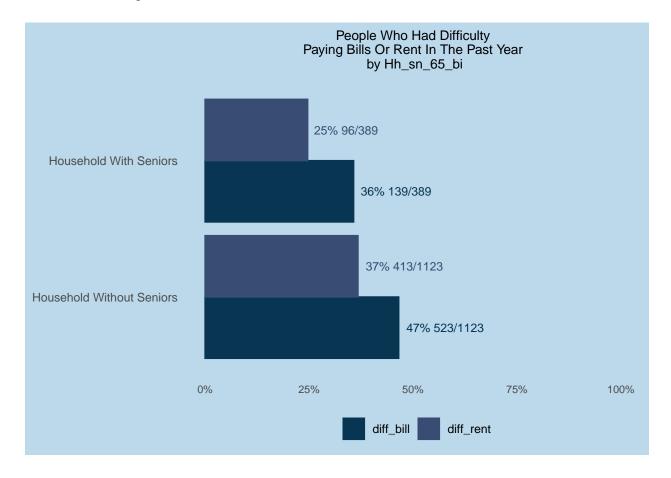
- 1. Run distribution over population
- 2. Run distribution by sub-demographics (a-k)
- a. Compare and find gaps (test unequal proportions)

\$gen

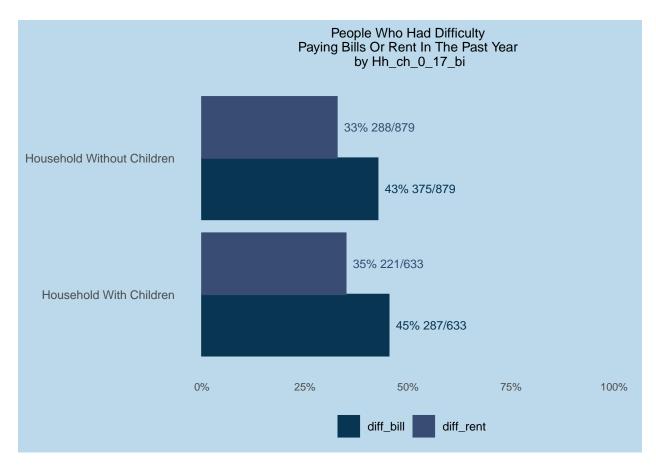
\$gen\$plot



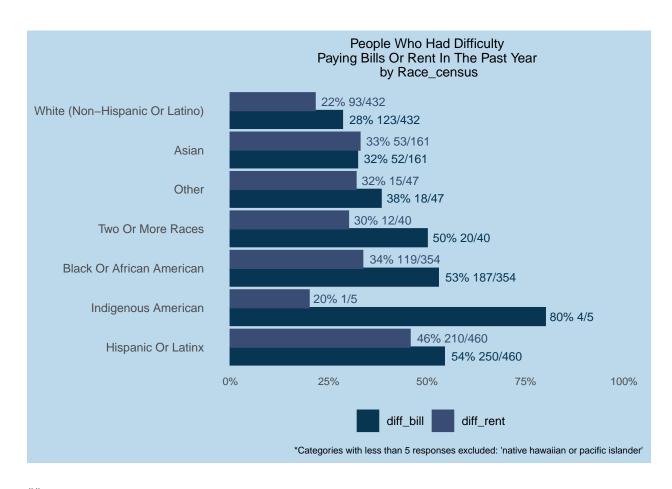
```
## female
                                     NA
                                          NA
                                                  NA
                                                             NA
                                                                          NA
                                     NA
                                          NA
                                                 NΑ
                                                                          NΑ
## non-binary
                                                             NΑ
## transgender
                                     NA
                                          NA
                                                  NA
                                                             NA
                                                                          NA
##
## $gen$p.values$diff_rent
##
                     male female prefer not to say transgender non-binary
## male
                       NA
                                                 NA
## female
                       NA
                               NA
                                                              NA
                                                 NA
                                                                          NA
## prefer not to say
                               NA
                                                 NA
                                                              NA
                                                                          NA
## transgender
                       NA
                               NA
                                                 NA
                                                              NA
                                                                          NA
## non-binary
                       NA
                               NA
                                                 NA
                                                              NA
                                                                          NA
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$diff_bill
## household with seniors household without seniors
## household with seniors NA 0.00026
## household without seniors 0.00026 NA
##
## $hh_sn_65_bi$p.values$diff_rent
```

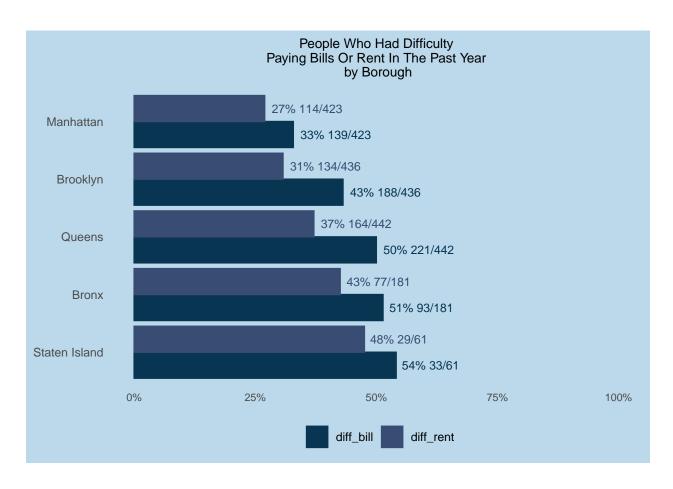


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$diff_bill
##
                              household without children household with children
## household without children
                                                       NA
                                                                                NA
## household with children
                                                       NA
                                                                                NA
##
## $hh_ch_0_17_bi$p.values$diff_rent
##
                              household without children household with children
## household without children
                                                       NA
## household with children
                                                       NΑ
                                                                                NA
##
##
##
## $race_census
## $race_census$plot
```



##							
##	<pre>\$race_census\$p.values</pre>						
##	<pre>\$race_census\$p.values\$diff_bill</pre>	1					
##		white	(non-hispani	c or	latino)	asian	other
##	<pre>white (non-hispanic or latino)</pre>				NA	NA	NA
##	asian				NA	NA	NA
##	other				NA	NA	NA
##	two or more races				7.9e-03	NA	NA
##	black or african american				6.1e-12	2.3e-05	NA
##	hispanic or latinx				8.4e-15	2.3e-06	NA
##	Indigenous American				NA	NA	NA
##		two or	more races	black	or afr	ican amen	rican
##	<pre>white (non-hispanic or latino)</pre>		0.0079			6.3	le-12
##	asian		NA			2.3	3e-05
##	other		NA				NA
##	two or more races		NA				NA
##	black or african american		NA				NA
##	hispanic or latinx		NA				NA
##	Indigenous American		NA				NA
##		hispan	ic or latinx	Indi	genous	American	
##	white (non-hispanic or latino)		8.4e-15	· •		NA	
##	asian		2.3e-06	5		NA	
##	other		NA.			NA	
##	two or more races		NA			NA	
##	black or african american		NA			NA	
##	hispanic or latinx		NA			NA	

```
## Indigenous American
                                                   NA
                                                                        NA
##
## $race_census$p.values$diff_rent
                                   Indigenous American
## Indigenous American
## white (non-hispanic or latino)
                                                    NA
## two or more races
                                                    NA
## other
                                                    NA
## asian
                                                    NA
## black or african american
                                                    NA
## hispanic or latinx
                                                    NA
                                   white (non-hispanic or latino) two or more races
## Indigenous American
                                                               NA
## white (non-hispanic or latino)
                                                               NA
                                                                                  NA
## two or more races
                                                               NA
                                                                                  NA
## other
                                                               NA
                                                                                  NA
## asian
                                                          5.8e-03
                                                                                  NA
## black or african american
                                                          2.0e-04
                                                                                  NA
## hispanic or latinx
                                                          5.0e-14
                                                                                  NA
                                  other asian black or african american
## Indigenous American
                                     NA
                                             NA
## white (non-hispanic or latino)
                                     NA 0.0058
                                                                  0.00020
## two or more races
                                     NA
                                             NA
                                                                        NA
## other
                                     NA
                                                                        NA
## asian
                                     NΑ
                                             NΑ
                                                                        NA
## black or african american
                                     NA
                                             NA
                                                                        NA
## hispanic or latinx
                                      NA 0.0065
                                                                  0.00068
                                  hispanic or latinx
## Indigenous American
## white (non-hispanic or latino)
                                             5.0e-14
## two or more races
                                                   NA
## other
                                                   NA
## asian
                                              6.5e-03
## black or african american
                                              6.8e-04
## hispanic or latinx
                                                   NA
##
##
##
## $borough
## $borough$plot
```



```
##
## $borough$p.values
## $borough$p.values$diff_bill
                 manhattan brooklyn queens
                                                bronx staten island
## manhattan
                        NA
                              0.0025 4.6e-07 2.7e-05
                                                              0.002
## brooklyn
                   2.5e-03
                                  NA
                                          NA
                                                   NA
                                                                  NA
                   4.6e-07
                                  NA
                                          NA
                                                                 NA
## queens
                                                   NA
## bronx
                   2.7e-05
                                  NA
                                          NA
                                                   NA
                                                                 NA
## staten island
                   2.0e-03
                                  NA
                                          NA
                                                   NA
                                                                  NA
## $borough$p.values$diff_rent
##
                 manhattan brooklyn queens
                                               bronx staten island
                                  NA 0.0018 0.00023
                                                            0.0017
## manhattan
                         NA
## brooklyn
                         NA
                                  NA
                                         NA 0.00650
                                                                 NA
## queens
                   0.00180
                                  NA
                                         NA
                                                  NA
                                                                 NA
## bronx
                   0.00023
                              0.0065
                                         NA
                                                  NA
                                                                 NA
## staten island
                   0.00170
                                  NA
                                         NA
                                                  NA
                                                                 NA
```

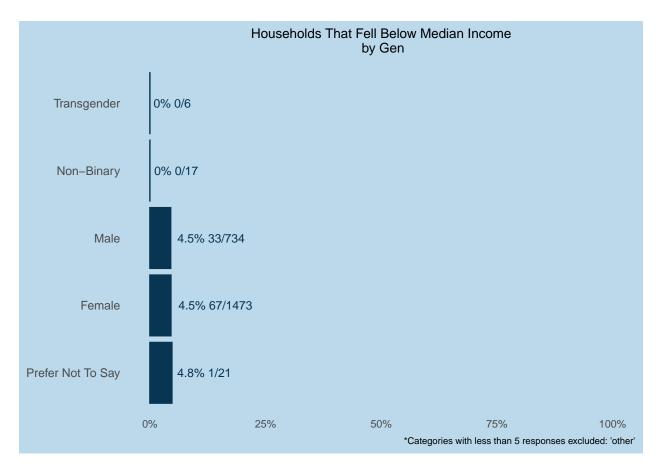
cat("Plots for gen and hh_ch_0_17_bi do not show at least one statistically significant result")

Plots for gen and hh_ch_0_17_bi do not show at least one statistically significant result

2.6) Households that fell below median income from before the pandemic (2020) to 2021

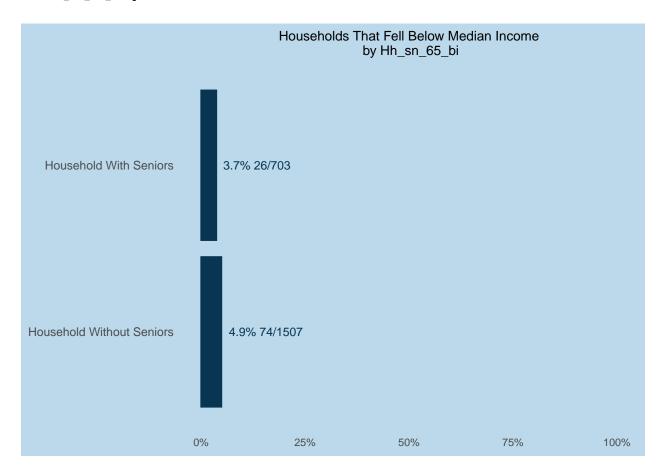
- 1. Run distribution over population
- 2. Run distribution over all the sub demographic group

\$gen
\$gen\$plot

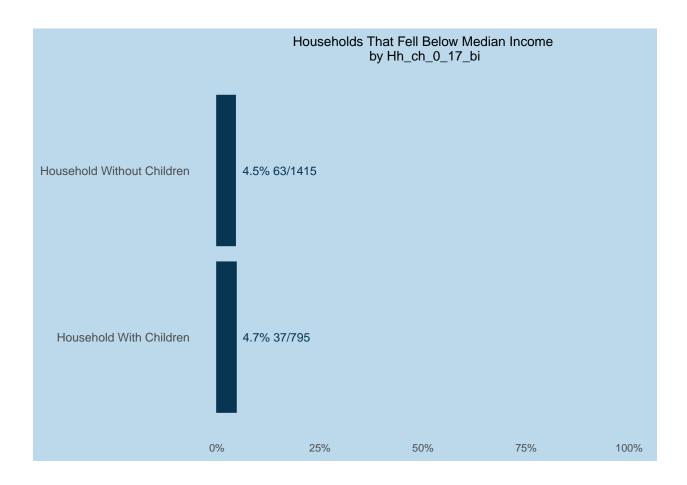


```
##
## $gen$p.values
## $gen$p.values$inc_drop_med
                     non-binary transgender male female prefer not to say
                              NA
                                          NA
                                                NA
                                           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

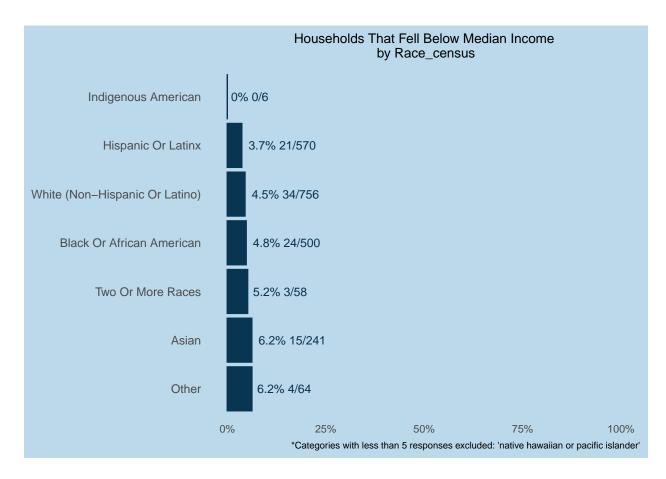
```
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```



```
##
## $hh_sn_65_bi$p.values
## $hh_sn_65_bi$p.values$inc_drop_med
## household with seniors household without seniors
## household with seniors NA NA
## household without seniors NA NA
## ##
##
##
##
##
##
##
##
## $hh_ch_0_17_bi
## $hh_ch_0_17_bi$plot
```

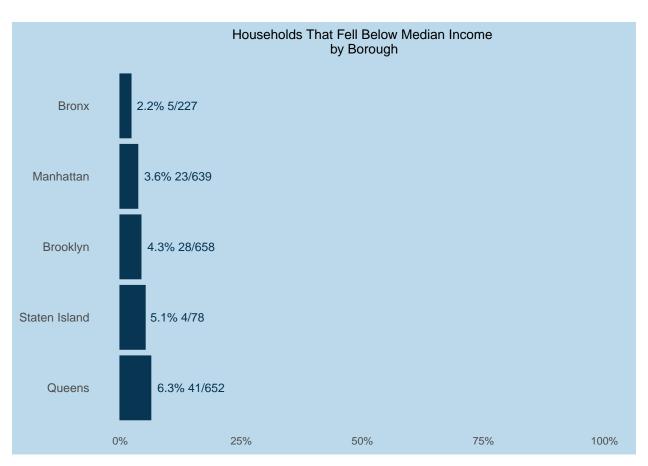


```
##
## $hh_ch_0_17_bi$p.values
## $hh_ch_0_17_bi$p.values$inc_drop_med
## household without children household with children
## household without children NA NA
## household with children NA NA
## ##
## ##
##
##
##
##
## $race_census
## $race_census$plot
```



##								
##	<pre>\$race_census\$p.values</pre>							
##	<pre>\$race_census\$p.values\$inc_drop</pre>	_med						
##		Indige	enou	s Ameri	can hispar	nic or	latin	x
##	Indigenous American				NA		N.	A
##	hispanic or latinx				NA		N.	A
##	<pre>white (non-hispanic or latino)</pre>				NA		N.	A
##	black or african american				NA		N.	A
##	two or more races				NA		N.	A
##	asian				NA		N.	A
##	other				NA		N.	A
##		white	(no	n-hispai	nic or lat	tino)		
##	Indigenous American					NA		
##	hispanic or latinx					NA		
##	<pre>white (non-hispanic or latino)</pre>					NA		
##	black or african american					NA		
##	two or more races					NA		
##	asian					NA		
##	other					NA		
##		black	or	african	${\tt american}$	two o	r more	races
##	Indigenous American				NA			NA
##	hispanic or latinx				NA			NA
##	<pre>white (non-hispanic or latino)</pre>				NA			NA
##	black or african american				NA			NA
##	two or more races				NA			NA
##	asian				NA			NA

##	other			NA	NA
##		asian	other		
##	Indigenous American	NA	NA		
##	hispanic or latinx	NA	NA		
##	<pre>white (non-hispanic or latino)</pre>	NA	NA		
##	black or african american	NA	NA		
##	two or more races	NA	NA		
##	asian	NA	NA		
##	other	NA	NA		
##					
##					
##					
##	\$borough				
##	\$borough\$plot				



##									
##	\$borough\$p.val	lues							
##	\$borough\$p.values\$inc_drop_med								
##		bronx	manhattan	brooklyn	staten	island	queens		
##	bronx	NA	NA	NA		NA	NA		
##	manhattan	NA	NA	NA		NA	NA		
##	brooklyn	NA	NA	NA		NA	NA		
##	staten island	NA	NA	NA		NA	NA		
##	queens	NA	NA	NA		NA	NA		

```
cat("None of these plots show at least one statistically significant result")
```

None of these plots show at least one statistically significant result

2.7 - 2.8) Houoseholds that experienced food insecuirty in the past year [21, 25]

2.7) Households that experienced food insecurity in the past year [21]

- 1. Run binary distribution over population
- a. Indicators: worried about food running out, ran out of food/ unable to afford food
- b. Yes = 1+ indicator
- c. No = 0 indicators
- 2. Run continuous distribution over population
- a. Indicators: worried about food running out, ran out of food/ unable to afford food
- b. Very food insecure = 2 indicators
- c. Somewhat food insecure = worried about food not lasting (OR experienced food bought didn't last i.e. 1 indicator?)
- d. Not food insecure = 0 indicators

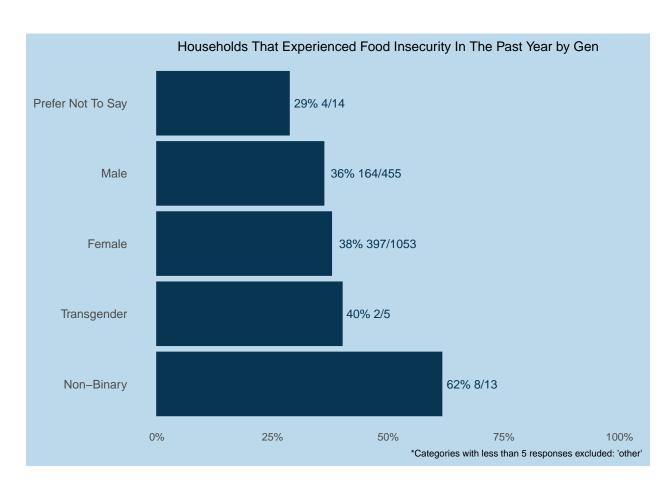
2.8) Households with children were more likely to experience food insecurity in the past year [25,21]

- 1. Find respondents who had at least one child (child under 4 or school-aged child) [25]
- a. Find proportion of subset who are considered food insecure [21] (use binary definition above)
- b. Find proportion not in subset who are considered food insecure and compare (test unequal proportions)

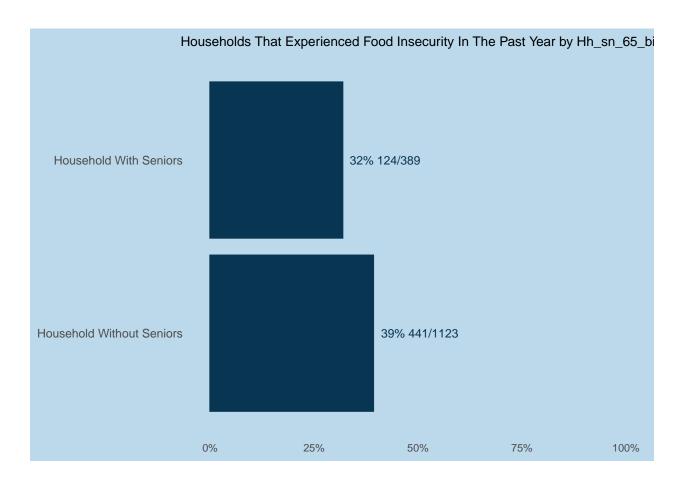
```
mean(wrangled$food_insec, na.rm = TRUE)
```

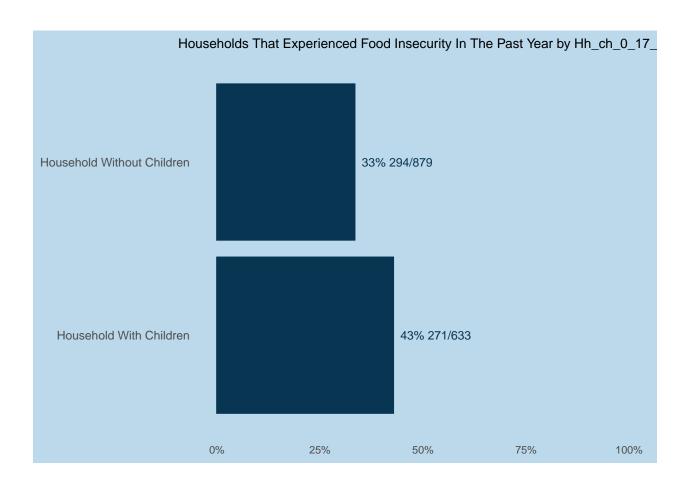
[1] 0.3732988

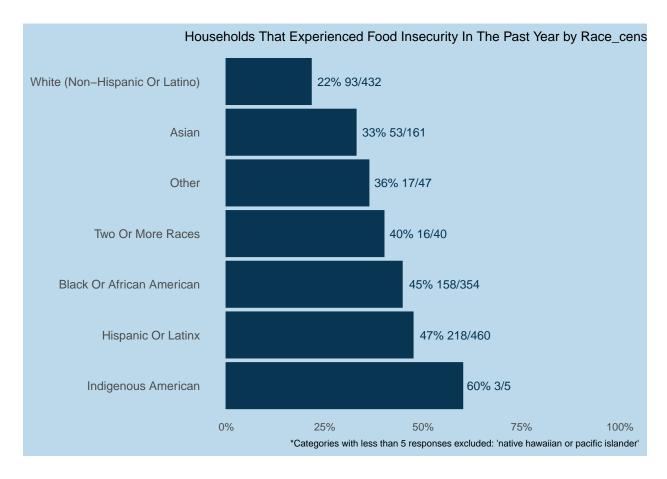
- ## \$gen
- ## \$gen\$plot



```
##
## $gen$p.values
## $gen$p.values$food_insec
                     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
##
##
##
## $hh_sn_65_bi
## $hh_sn_65_bi$plot
```

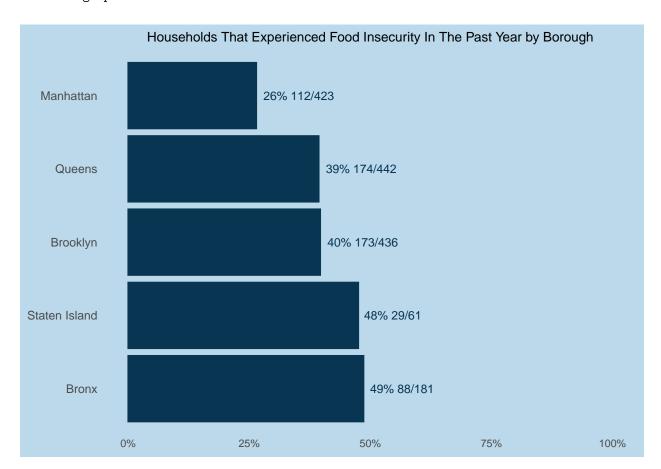






##						
##	<pre>\$race_census\$p.values</pre>					
##	<pre>\$race_census\$p.values\$food_ins</pre>	ec				
##		white	(non-hispanic	or latino)	asian	other
##	white (non-hispanic or latino)			NA	0.0058	NA
##	asian			5.8e-03	NA	NA
##	other			NA	NA	NA
##	two or more races			NA	NA	NA
##	black or african american			8.2e-12	NA	NA
##	hispanic or latinx			9.7e-16	0.0020	NA
##	Indigenous American			NA	NA	NA
##		two or	more races b	lack or afr	ican ame	erican
##	<pre>white (non-hispanic or latino)</pre>		NA		8	.2e-12
##	asian		NA			NA
##	other		NA			NA
##	two or more races		NA			NA
##	black or african american		NA			NA
##	hispanic or latinx		NA			NA
##	Indigenous American		NA			NA
##		hispan	ic or latinx	Indigenous	Americar	n
##	<pre>white (non-hispanic or latino)</pre>		9.7e-16		NA	A
##	asian		2.0e-03		NA	A
##	other		NA		NA	A
##	two or more races		NA		NA	A
##	black or african american		NA		NA	A
##	hispanic or latinx		NA		NA	A

```
## Indigenous American NA NA
##
##
##
## $borough
## $borough$plot
```



```
##
## $borough$p.values
## $borough$p.values$food_insec
##
                manhattan queens brooklyn staten island bronx
## manhattan
                      NA 7.6e-05 5.4e-05
                                           0.0012 2e-07
## queens
                  7.6e-05
                              NA
                                       NA
                                                    NA
                                                          NA
## brooklyn
                  5.4e-05
                              NA
                                       NA
                                                     NA
                                                          NA
## staten island 1.2e-03
                              NA
                                       NA
                                                    NA
                                                          NA
## bronx
                  2.0e-07
                              NA
                                       NA
                                                    NA
                                                          NA
```

cat("Plots for gen and hh_sn_65_bi do not have at least one statistically significant result.")

Plots for gen and hh_sn_65_bi do not have at least one statistically significant result.