working

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Working analysis

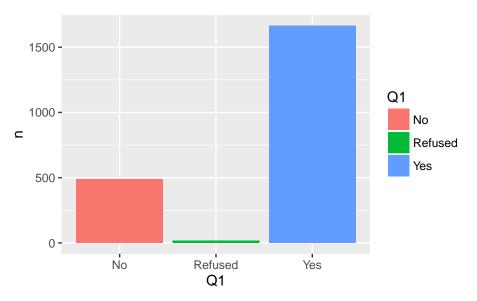
Survey questions

Q1. Before receiving this survey, did you know influenza is different from the stomach flu?

```
# all
with(data, table(Q1))

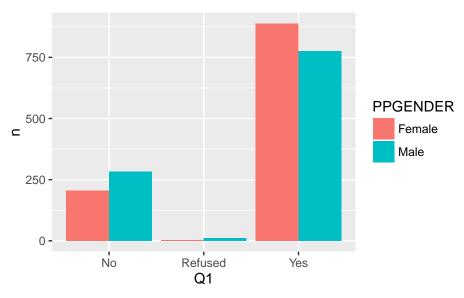
## Q1
## No Refused Yes
## 488 16 1664

q1 <- data %>%
    group_by(Q1) %>%
    count(Q1)
ggplot(q1, aes(x = Q1, y = n, fill = Q1)) + geom_bar(stat = 'identity')
```



```
# by gender
with(data, table(Q1, PPGENDER))
```

```
## Q1
             Female Male
                205 283
##
    No
##
    Refused
                  4
                      12
##
     Yes
                888 776
q1 <- data %>%
  group_by(Q1, PPGENDER) %>%
  count(Q1, PPGENDER)
ggplot(q1, aes(x = Q1, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



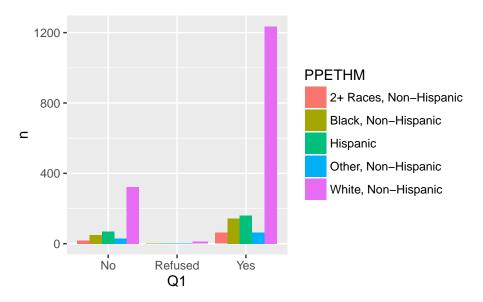
PPGENDER

##

```
# by ethnicity
with(data, table(Q1, PPETHM))
```

```
##
            PPETHM
             2+ Races, Non-Hispanic Black, Non-Hispanic Hispanic
## Q1
##
     No
                                   18
                                                        50
                                                                  69
                                    0
                                                         2
                                                                   2
##
     Refused
                                   62
                                                       143
##
     Yes
                                                                 161
            PPETHM
##
## Q1
             Other, Non-Hispanic White, Non-Hispanic
##
     No
                                29
##
     Refused
                                1
                                                     11
     Yes
##
                                63
                                                   1235
```

```
q1 <- data %>%
  group_by(Q1, PPETHM) %>%
  count(Q1, PPETHM)
ggplot(q1, aes(x = Q1, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

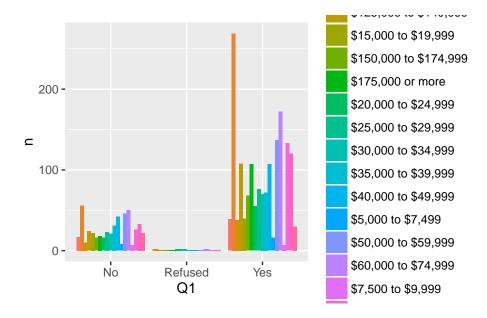


by income with(data, table(Q1, PPINCIMP))

```
##
            PPINCIMP
## Q1
              $10,000 to $12,499 $100,000 to $124,999 $12,500 to $14,999
##
                                                                          10
     No
                               17
                                                     56
##
     Refused
                                0
                                                      2
                                                                           0
                               39
##
     Yes
                                                    269
                                                                          38
            PPINCIMP
##
## Q1
              $125,000 to $149,999 $15,000 to $19,999 $150,000 to $174,999
##
     No
                                 24
                                                     22
                                                                            16
     Refused
                                  0
                                                      1
##
                                                                             1
                                108
##
     Yes
                                                     40
                                                                            68
##
            PPINCIMP
## Q1
              $175,000 or more $20,000 to $24,999 $25,000 to $29,999
##
                             18
                                                 16
##
     Refused
                                                  2
                                                                      0
                              1
                            107
                                                 55
                                                                      76
##
     Yes
##
            PPINCIMP
## Q1
              $30,000 to $34,999 $35,000 to $39,999 $40,000 to $49,999
##
                               21
                                                   31
##
     Refused
                                2
                                                                         0
                                                    1
                               70
                                                   72
##
     Yes
                                                                       107
##
            PPINCIMP
## Q1
              $5,000 to $7,499 $50,000 to $59,999 $60,000 to $74,999
##
                                                 46
     No
##
     Refused
                              1
                                                  1
                                                                      2
                             16
##
     Yes
                                                137
                                                                    172
##
             PPINCIMP
## Q1
              $7,500 to $9,999 $75,000 to $84,999 $85,000 to $99,999
##
     No
                                                 26
                                                                     33
##
     Refused
                              0
                                                                      0
                                                  1
##
     Yes
                              7
                                                133
                                                                    120
##
            PPINCIMP
## Q1
             Less than $5,000
##
                             22
     No
```

```
## Yes 30

q1 <- data %>%
   group_by(Q1, PPINCIMP) %>%
   count(Q1, PPINCIMP)
ggplot(q1, aes(x = Q1, y = n, fill = PPINCIMP)) +
   geom_bar(stat = 'identity', position = position_dodge())
```



Refused

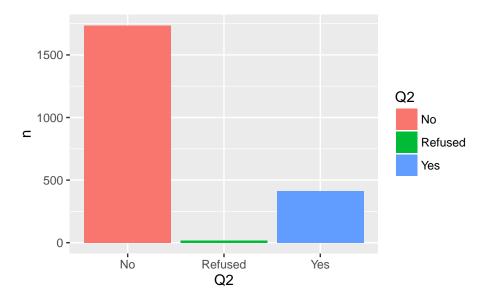
##

Q2. Have you had an illness with influenza like symptoms since August 2015?

```
# all
with(data, table(Q2))

## Q2
## No Refused Yes
## 1735 19 414

q2 <- data %>%
    group_by(Q2) %>%
    count(Q2)
ggplot(q2, aes(x = Q2, y = n, fill = Q2)) + geom_bar(stat = 'identity')
```



by gender with(data, table(Q2, PPGENDER))

```
## PPGENDER

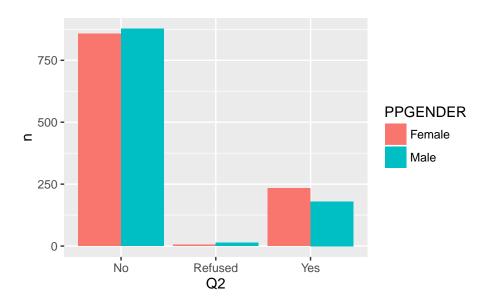
## Q2 Female Male

## No 858 877

## Refused 5 14

## Yes 234 180
```

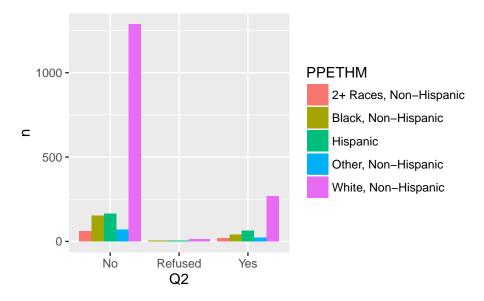
```
q2 <- data %>%
  group_by(Q2, PPGENDER) %>%
  count(Q2, PPGENDER)
ggplot(q2, aes(x = Q2, y = n, fill = PPGENDER)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



```
# by ethnicity
with(data, table(Q2, PPETHM))
```

```
PPETHM
##
## Q2
              2+ Races, Non-Hispanic Black, Non-Hispanic Hispanic
##
     No
                                   61
                                                        152
                                                                  164
##
     Refused
                                    0
                                                          4
                                                                    3
                                   19
                                                         39
                                                                  65
##
     Yes
##
             PPETHM
## Q2
              Other, Non-Hispanic White, Non-Hispanic
##
     No
                                71
                                                   1287
                                 0
                                                     12
##
     Refused
                                22
                                                     269
##
     Yes
```

```
q2 <- data %>%
  group_by(Q2, PPETHM) %>%
  count(Q2, PPETHM) %>%
  ggplot(q2, aes(x = Q2, y = n, fill = PPETHM)) +
  geom_bar(stat = 'identity', position = position_dodge())
```

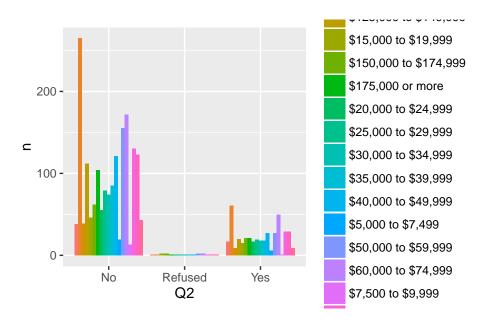


```
# by income
with(data, table(Q2, PPINCIMP))
```

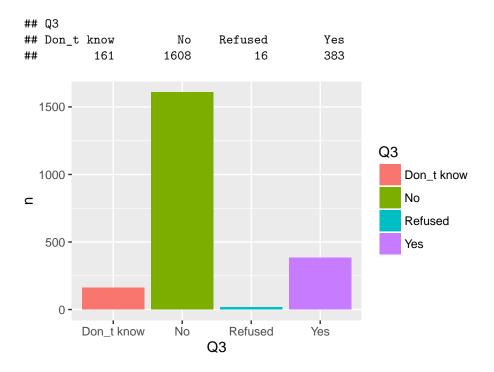
```
##
            PPINCIMP
## Q2
             $10,000 to $12,499 $100,000 to $124,999 $12,500 to $14,999
##
     No
                                                    265
                                                                          39
                               38
                                                                           0
##
     Refused
                                1
                                                       1
##
     Yes
                               17
                                                     61
                                                                           9
##
            PPINCIMP
             $125,000 to $149,999 $15,000 to $19,999 $150,000 to $174,999
## Q2
##
     No
                                112
##
     Refused
                                  0
                                                      2
                                                                             2
##
     Yes
                                 20
                                                     15
                                                                            21
            PPINCIMP
##
```

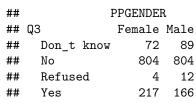
```
$175,000 or more $20,000 to $24,999 $25,000 to $29,999
## Q2
                           104
##
     No
                                                55
                                                                     79
##
     Refused
                             1
                                                 1
                                                                      1
##
     Yes
                            21
                                                17
                                                                     19
##
            PPINCIMP
## Q2
             $30,000 to $34,999 $35,000 to $39,999 $40,000 to $49,999
##
##
     Refused
                               1
                                                    1
                                                                        1
##
     Yes
                              18
                                                   18
                                                                       27
##
            PPINCIMP
## Q2
             $5,000 to $7,499 $50,000 to $59,999 $60,000 to $74,999
##
                            19
                                                155
                                                                    172
     No
##
     Refused
                             0
                                                 2
                                                                      2
                             6
                                                27
##
     Yes
                                                                     50
##
            PPINCIMP
## Q2
             $7,500 to $9,999 $75,000 to $84,999 $85,000 to $99,999
##
     No
                            13
                                                130
                             0
##
     Refused
                                                 1
                                                                     1
                                                29
                                                                     29
##
     Yes
                             1
##
            PPINCIMP
## Q2
             Less than $5,000
##
##
     Refused
                             1
##
     Yes
```

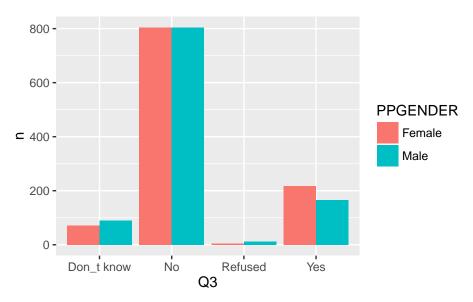
```
q2 <- data %>%
  group_by(Q2, PPINCIMP) %>%
  count(Q2, PPINCIMP)
ggplot(q2, aes(x = Q2, y = n, fill = PPINCIMP)) +
  geom_bar(stat = 'identity', position = position_dodge())
```



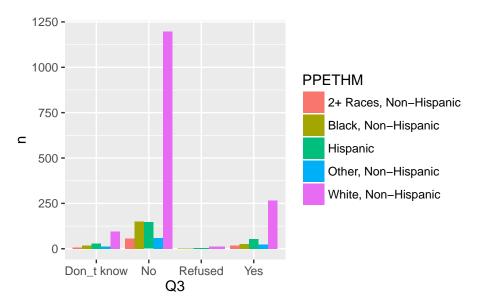
Q3. Has any other person in your household had an illness with influenza like symptoms since August 2015?





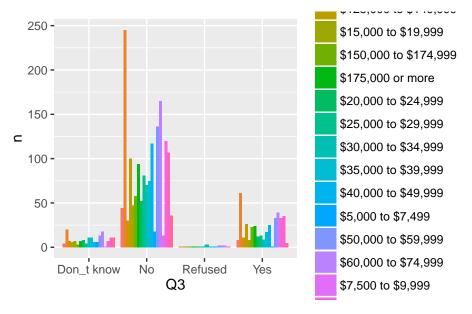


##	No			57	1	49	146
##	Refused			0		2	3
##	Yes			17		25	53
##		PPETHM					
##	QЗ	Other,	Non-Hispanic	White,	Non-Hispanic		
##	Don_t know	J	11		95		
##	No		59		1197		
##	Refused		0		11		
##	Yes		23		265		



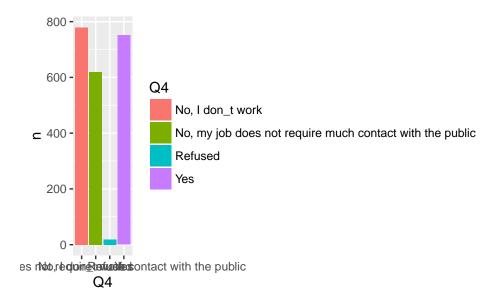
##		PPINCIMP								
##	Q3	\$10,000	to \$12,	499 \$	3100,000	to \$	3124,999	\$12,500) to	\$14,999
##	Don_t know	ī		4			20)		7
##	No			44			245	5		30
##	Refused			0			1	L		0
##	Yes			8			61	L		11
##		PPINCIMP								
##	Q3	\$125,000) to \$14	9,999	\$15,000) to	\$19,999	\$150,00	00 to	\$174,999
##	Don_t know	ī		6	3		7	7		3
##	No			100)		47	7		58
##	Refused			C)		1	L		1
##	Yes			26	5		8	3		23
##		PPINCIMP								
##	Q3	\$175,000	or mor	e \$20	,000 to	\$24,	,999 \$25	5,000 to	\$29	,999
##	Don_t know	Ī		7			8			4
##	No		S	4			52			81
##	Refused			1			1			1
##	Yes		2	4			12			13
##		PPINCIMP								
	Q3	\$30,000	to \$34,		35,000	to \$3	-	\$40,000 t	to \$4	-
##	Don_t know	Ī		11			11			6
##	No			70			75			117
##	Refused			3			1			1
##	Yes			9			17			25
##		PPINCIMP								

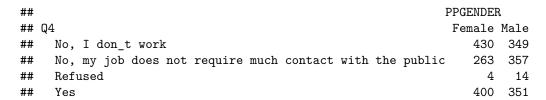
```
$5,000 to $7,499 $50,000 to $59,999 $60,000 to $74,999
## Q3
##
     Don_t know
                                                     13
                                                                          18
                                18
                                                    136
                                                                         165
##
     No
##
     Refused
                                 0
                                                      2
                                                                           2
                                                     33
                                                                          39
##
     Yes
                                 1
##
                PPINCIMP
## Q3
                 $7,500 to $9,999 $75,000 to $84,999 $85,000 to $99,999
##
     Don_t know
                                 1
##
     No
                                13
                                                    120
                                                                         107
##
     Refused
                                 0
                                                      0
                                                                           0
##
     Yes
                                 0
                                                     33
                                                                          35
                PPINCIMP
##
## Q3
                 Less than $5,000
##
     Don_t know
                                11
##
     No
                                36
##
     Refused
                                  1
##
     Yes
                                 5
```

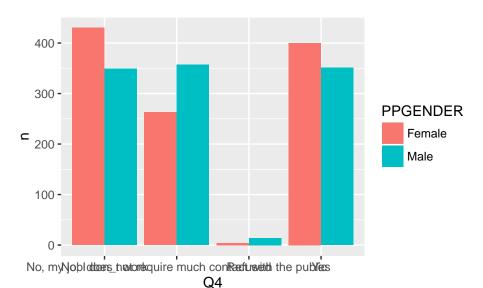


Q4. Does your job require you to have a lot of contact with the public?

```
## Q4
## No, I don_t work
## 779
## No, my job does not require much contact with the public
## 620
## Refused
## 18
## Yes
##
```

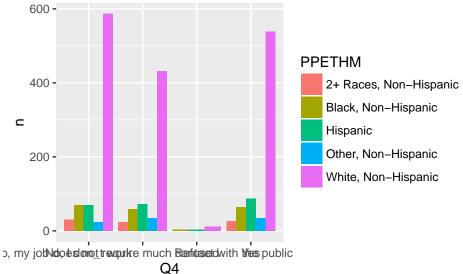






```
##
                                                               PPETHM
## Q4
                                                                2+ Races, Non-Hispanic
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                     23
##
     Refused
                                                                                      0
                                                                                     27
##
     Yes
##
                                                               PPETHM
## Q4
                                                                Black, Non-Hispanic
##
     No, I don_t work
     No, my job does not require much contact with the public
                                                                                  59
##
```

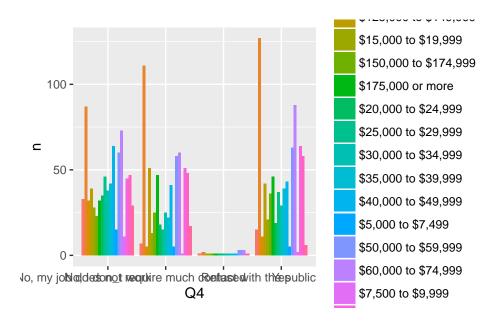
```
Refused
##
                                                                                     3
                                                                                    64
##
     Yes
                                                                PPETHM
##
## Q4
                                                                  Hispanic
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                        72
##
     Refused
                                                                        87
##
     Yes
##
                                                                PPETHM
## Q4
                                                                  Other, Non-Hispanic
##
     No, I don_t work
                                                                                    34
##
     No, my job does not require much contact with the public
                                                                                     0
##
     Refused
##
     Yes
                                                                                    35
##
                                                                PPETHM
## Q4
                                                                  White, Non-Hispanic
##
     No, I don_t work
                                                                                   587
##
     No, my job does not require much contact with the public
                                                                                   432
##
     Refused
                                                                                   11
##
     Yes
                                                                                   538
    600 -
                                             PPETHM
```



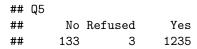
```
##
                                                                PPINCIMP
## Q4
                                                                  $10,000 to $12,499
##
     No, I don_t work
                                                                                   33
                                                                                    7
##
     No, my job does not require much contact with the public
     Refused
##
                                                                                   1
##
     Yes
                                                                                   15
                                                                PPINCIMP
##
## Q4
                                                                  $100,000 to $124,999
##
     No, I don_t work
                                                                                     87
##
     No, my job does not require much contact with the public
                                                                                    111
##
     Refused
                                                                                      2
##
     Yes
                                                                                    127
##
                                                                PPINCIMP
## Q4
                                                                  $12,500 to $14,999
     No, I don_t work
                                                                                   32
```

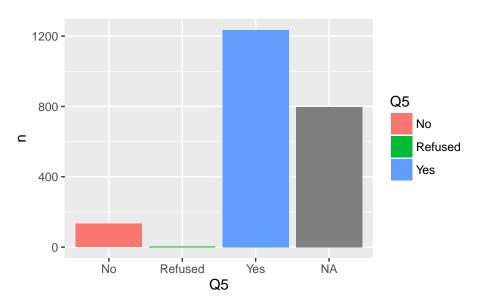
```
##
     No, my job does not require much contact with the public
                                                                                   5
##
     Refused
                                                                                   0
     Yes
##
                                                                                  11
##
                                                                PPINCIMP
## Q4
                                                                 $125,000 to $149,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                    51
     Refused
##
                                                                                     0
##
     Yes
                                                                                    42
##
                                                                PPINCIMP
## Q4
                                                                 $15,000 to $19,999
##
     No, I don_t work
                                                                                  28
##
     No, my job does not require much contact with the public
                                                                                  13
##
     Refused
                                                                                   1
##
     Yes
                                                                                  21
##
                                                                PPINCIMP
## Q4
                                                                 $150,000 to $174,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                    25
##
     Refused
                                                                                     1
##
     Yes
                                                                                    36
##
                                                                PPINCIMP
## Q4
                                                                 $175,000 or more
##
     No, I don t work
                                                                                47
##
     No, my job does not require much contact with the public
##
     Refused
                                                                                 1
##
     Yes
                                                                                46
##
                                                                PPINCIMP
## Q4
                                                                 $20,000 to $24,999
##
     No, I don_t work
                                                                                  35
##
     No, my job does not require much contact with the public
                                                                                  18
##
     Refused
                                                                                   1
##
     Yes
                                                                                  19
##
                                                                PPINCIMP
## Q4
                                                                 $25,000 to $29,999
##
     No, I don_t work
                                                                                  46
##
     No, my job does not require much contact with the public
                                                                                  15
##
     Refused
                                                                                   1
##
     Yes
                                                                                  37
##
                                                                PPINCIMP
## Q4
                                                                 $30,000 to $34,999
##
     No, I don_t work
                                                                                  38
     No, my job does not require much contact with the public
                                                                                  25
##
##
     Refused
                                                                                   1
##
     Yes
                                                                                  29
##
                                                                PPINCIMP
                                                                 $35,000 to $39,999
## Q4
##
     No, I don_t work
                                                                                  42
##
     No, my job does not require much contact with the public
                                                                                  22
##
     Refused
                                                                                   1
##
     Yes
                                                                                  39
##
                                                                PPINCIMP
## 04
                                                                 $40,000 to $49,999
##
     No, I don t work
                                                                                  64
```

```
##
     No, my job does not require much contact with the public
                                                                                  41
##
     Refused
                                                                                  1
     Yes
                                                                                  43
##
##
                                                                PPINCIMP
## Q4
                                                                 $5,000 to $7,499
##
     No, I don_t work
##
     No, my job does not require much contact with the public
                                                                                5
                                                                                0
##
     Refused
##
     Yes
                                                                                 5
                                                                PPINCIMP
##
## Q4
                                                                 $50,000 to $59,999
##
     No, I don_t work
                                                                                  60
     No, my job does not require much contact with the public
                                                                                  58
##
##
     Refused
                                                                                  3
##
     Yes
                                                                                  63
##
                                                                PPINCIMP
## Q4
                                                                 $60,000 to $74,999
##
     No, I don_t work
                                                                                  73
##
     No, my job does not require much contact with the public
                                                                                  60
                                                                                  3
##
     Refused
##
     Yes
                                                                                 88
##
                                                                PPINCIMP
## Q4
                                                                 $7,500 to $9,999
##
     No, I don t work
##
     No, my job does not require much contact with the public
                                                                                1
##
     Refused
                                                                                 0
##
     Yes
                                                                                 2
##
                                                                PPINCIMP
## Q4
                                                                 $75,000 to $84,999
##
     No, I don_t work
                                                                                  45
##
     No, my job does not require much contact with the public
                                                                                  51
##
     Refused
                                                                                  0
##
     Yes
                                                                                  64
                                                                PPINCIMP
##
## Q4
                                                                 $85,000 to $99,999
##
    No, I don_t work
                                                                                  47
##
     No, my job does not require much contact with the public
                                                                                  48
##
     Refused
                                                                                  0
##
     Yes
                                                                                 58
##
                                                                PPINCIMP
## Q4
                                                                 Less than $5,000
##
     No, I don_t work
                                                                                29
##
     No, my job does not require much contact with the public
                                                                                17
##
    Refused
                                                                                1
##
     Yes
                                                                                6
```

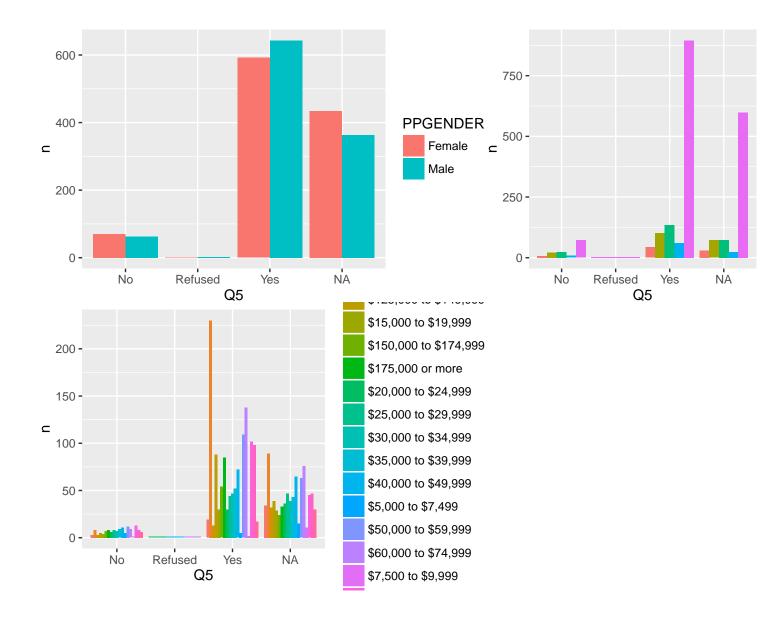


Q5. Do you have a car that you can use to travel to work?



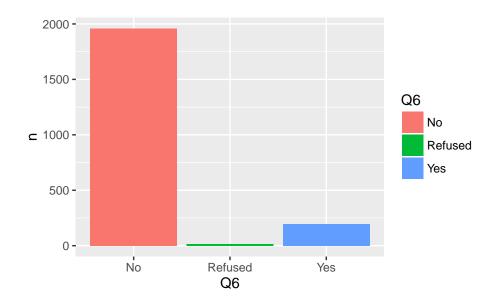


##	Q	5		
##	PPGENDER	No	${\tt Refused}$	Yes
##	Female	70	1	592
##	Male	63	2	643



Q6. Do you regularly use public transportation?

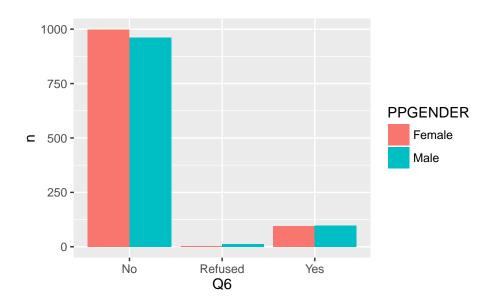
```
## Q6
## No Refused Yes
## 1959 15 194
```



Source: local data frame $[6 \times 3]$

Groups: Q6 [?]

Q6 PPGENDER n ## (fctr) (fctr) (int) ## 1 No Female 998 ## 2 No Male 961 ## 3 Refused ${\tt Female}$ 3 Male ## 4 Refused 12 ## 5 Female 96 Yes ## 6 Yes Male 98



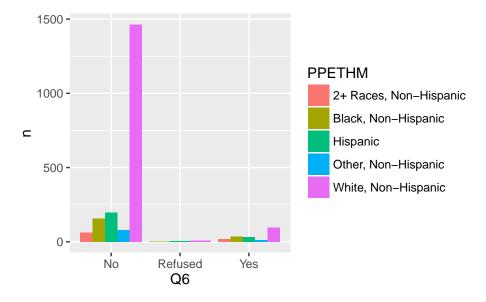
Source: local data frame [13 x 3]

Groups: Q6 [?]

##

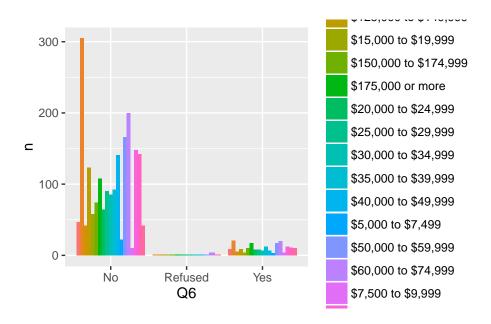
Q6 PPETHM n ## (fctr) (fctr) (int)

```
## 1
           No 2+ Races, Non-Hispanic
                                          62
## 2
           No
                  Black, Non-Hispanic
                                         158
## 3
                              Hispanic
                                         196
           No
## 4
                  Other, Non-Hispanic
                                          80
           No
                  White, Non-Hispanic
## 5
           No
                                        1463
## 6
      Refused
                  Black, Non-Hispanic
                                           1
## 7
      Refused
                              Hispanic
                                           4
                  White, Non-Hispanic
## 8
      Refused
                                           10
## 9
          Yes 2+ Races, Non-Hispanic
                                           18
## 10
                  Black, Non-Hispanic
                                           36
          Yes
## 11
          Yes
                              Hispanic
                                           32
                  Other, Non-Hispanic
                                           13
## 12
          Yes
## 13
                  White, Non-Hispanic
                                           95
          Yes
```



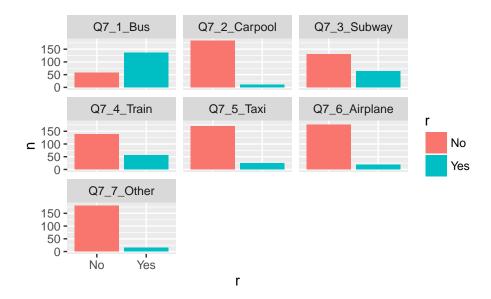
Source: local data frame [50 x 3]
Groups: Q6 [?]

Q6 PPINCIMP n ## (fctr) (fctr) (int) ## 1 No \$10,000 to \$12,499 ## 2 No \$100,000 to \$124,999 305 ## 3 \$12,500 to \$14,999 42 \$125,000 to \$149,999 ## 4 No 123 ## 5 No \$15,000 to \$19,999 58 ## 6 No \$150,000 to \$174,999 74 ## 7 No \$175,000 or more 108 \$20,000 to \$24,999 ## 8 64 No ## 9 No \$25,000 to \$29,999 90 ## 10 No \$30,000 to \$34,999 85 ## ..



Q7. What types of public transportation do you regularly use?

```
##
                   r
## q
                     No Yes
                     57 137
##
     Q7_1_Bus
     Q7_2_Carpool
                         10
##
                    184
     Q7_3_Subway
##
                    131
                         63
##
     Q7_4Train
                    139
                         55
##
     Q7_5_Taxi
                    169
                         25
     Q7_6_Airplane 175
##
                         19
##
     Q7_7_0ther
                    179
                         15
```

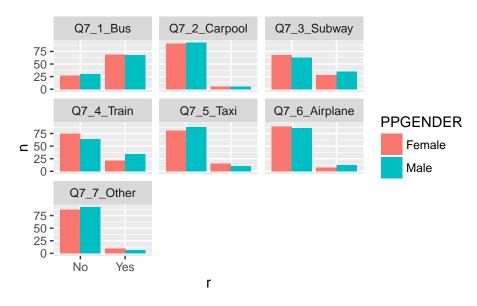


Source: local data frame [42 x 4]

Groups: PPGENDER, q [?]

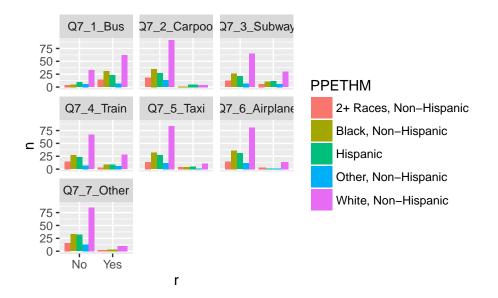
##

```
PPGENDER
##
                                   r
                                          n
##
         (fctr)
                        (chr) (chr) (int)
## 1
         Female
                     Q7_1_Bus
                                  No
                                         27
## 2
        Female
                     Q7_1_Bus
                                         69
                                 Yes
## 3
         Female
                     Q7_1_Bus
                                  NA
                                       1001
## 4
        Female Q7_2_Carpool
                                  No
                                         91
## 5
        Female Q7_2_Carpool
                                 Yes
                                          5
## 6
        Female Q7_2_Carpool
                                  NA
                                       1001
## 7
         Female
                 Q7_3_Subway
                                  No
                                         68
## 8
         Female
                 Q7_3_Subway
                                         28
                                 Yes
## 9
         Female
                 Q7_3_Subway
                                  NA
                                       1001
## 10
                                         75
         Female
                   Q7_4_Train
                                  No
## ..
            . . .
                                  . . .
                                        . . .
```



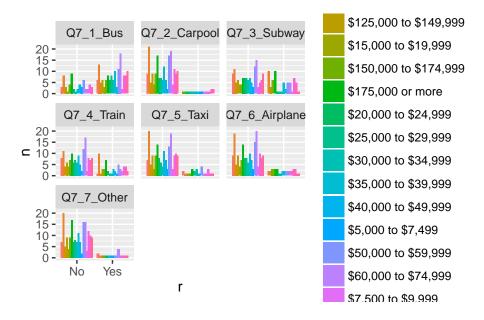
Groups: PPETHM, q [?] ## ## **PPETHM** r n q ## (fctr) (chr) (chr) (int) 2+ Races, Non-Hispanic Q7 1 Bus No 4 2+ Races, Non-Hispanic ## 2 Q7_1_Bus Yes 14 Q7_1_Bus ## 3 2+ Races, Non-Hispanic NA 62 2+ Races, Non-Hispanic Q7_2_Carpool No 18 2+ Races, Non-Hispanic Q7_2_Carpool NA62 2+ Races, Non-Hispanic ## 6 Q7 3 Subway 12 No 2+ Races, Non-Hispanic ## 7 Q7_3_Subway Yes 6 ## 8 2+ Races, Non-Hispanic Q7_3_Subway NA62 ## 9 2+ Races, Non-Hispanic Q7_4_Train No 15 ## 10 2+ Races, Non-Hispanic 3 Q7_4_Train Yes ## ..

Source: local data frame [100 x 4]



Source: local data frame [357 x 4]
Groups: PPINCIMP, q [?]

PPINCIMP q r n ## (fctr) (chr) (chr) (int) ## 1 \$10,000 to \$12,499 Q7_1_Bus No 3 ## 2 \$10,000 to \$12,499 Q7_1_Bus Yes 6 ## 3 \$10,000 to \$12,499 Q7_1_Bus NA47 \$10,000 to \$12,499 Q7_2_Carpool 9 ## 4 No ## 5 \$10,000 to \$12,499 NA47 Q7_2_Carpool 9 ## 6 \$10,000 to \$12,499 Q7_3_Subway No \$10,000 to \$12,499 NA47 ## Q7_3_Subway ## 8 \$10,000 to \$12,499 Q7_4_Train No 8 1 \$10,000 to \$12,499 Q7_4_Train Yes ## 10 \$10,000 to \$12,499 Q7_4_Train NA47 ##



- Q8. For what types of activities do you regularly use public transportation?
- Q9. Do other members of your household regularly use public transportation?
- Q10. What types of public transportation do other members of your household regularly use?
- Q11. How do you rate your risk of getting influenza if you visited each of the following locations?
- Q12. Which of the following actions do you take to avoid getting sick?
- Q13. Do you get the flu vaccine?
- Q14. How much do you pay to get an influenza vaccine?

```
with(data, summary(Q14))
##
                     $30 to $60
                                   Don t know Less than $30 More than $60
##
             970
                             54
                                                          222
##
                           NA's
         Refused
##
               1
                            837
# by gender
with(data, by(Q14, PPGENDER, summary))
```

```
## PPGENDER: Female
                     $30 to $60
                                    Don t know Less than $30 More than $60
##
              $0
                                                           101
##
             514
                              28
                                             41
##
         Refused
                           NA's
##
                             410
                1
##
##
  PPGENDER: Male
                     $30 to $60
##
              $0
                                    Don_t know Less than $30 More than $60
##
             456
                              26
                                             39
                                                           121
##
         Refused
                            NA's
##
                0
                             427
```

- Q15. Are you more likely to get a vaccine if others around you get a vaccine?
- Q16. Are you more likely to get a vaccine if others around you do not get a vaccine?
- Q17. Do you get a vaccine to protect yourself, protect others, or protect yourself and others?
- Q18. What are the reasons you would not get an influenza vaccine?

- Q19. Do you have health insurance?
- Q20. How effective do you think the influenza vaccine is in protecting people from becoming sick with influenza?
- Q21. Are influenza vaccines covered by your health insurance?
- Q22. Do you do any of the following when you have influenza symptoms?
- Q23. Which of the following actions do you take when you have influenza symptoms to avoid someone else from getting sick?
- Q24. What sources of information do you recall hearing or seeing about influenza outbreaks?
- Q25. If you received information from the news, internet or other public media that there was an influenza outbreak in your community would you do any of the following?
- Q26. Does your household have children?
- Q27. What actions do you take when a child in your household has influenza symptoms?
- Q28. Are you a single parent?
- Q29. How do you care for a sick child?
- Q30. How do you care for a sick child?
- Q31. How many hours of screen time (time spent watching television, a computer, smartphone, iPad, etc.) do you spend each day on average when you are not sick? Enter 0 if none

```
with(data, summary(Q31))
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
                                                     NA's
##
    0.000
            2.000
                   4.000
                            4.868
                                    6.000 24.000
                                                       52
# by gender
with(data, by(Q31, PPGENDER, summary))
## PPGENDER: Female
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
                                                     NA's
                            4.838
    0.000
           2.000
                   4.000
                                    6.000 21.000
                                                       21
## PPGENDER: Male
                                                    NA's
     Min. 1st Qu. Median
                           Mean 3rd Qu.
                                             Max.
    0.000
           2.000 4.000
##
                            4.898
                                  6.000 24.000
                                                       31
```

Q32. How many hours of screen time do you spend each day on average when you are sick? Enter 0 if none

```
with(data, summary(Q32))
##
     Min. 1st Qu. Median
                        Mean 3rd Qu.
                                              NA's
                                       Max.
##
         1.000 4.000 4.267 6.000 24.000
    0.000
                                               61
# by gender
with(data, by(Q33, PPGENDER, summary))
## PPGENDER: Female
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                       Max.
                                             NA's
    1.000 2.000 2.000
                        2.567 3.000
                                      9.000
## -----
## PPGENDER: Male
    Min. 1st Qu. Median
##
                        Mean 3rd Qu.
                                       Max.
                                              NA's
##
    1.000 2.000 2.000
                        2.594 3.000 14.000
                                               20
Q33. How many people, including yourself, reside in your household?
with(data, summary(Q33))
##
     Min. 1st Qu. Median
                         Mean 3rd Qu.
                                             NA's
                                       {\tt Max.}
##
     1.00
           2.00
                  2.00
                         2.58 3.00
                                      14.00
# by ethnicity
with(data, by(Q33, PPETHM, summary))
## PPETHM: 2+ Races, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                       Max.
                                              NA's
                        2.709 3.000
##
    1.000 2.000 2.000
                                      7.000
## PPETHM: Black, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                       {\tt Max.}
    1.000 1.000 2.000
                        2.544 3.000 13.000
## -----
## PPETHM: Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                      {\tt Max.}
                                             NA's
##
    1.000 2.000 3.000 2.903 4.000
                                      9.000
## PPETHM: Other, Non-Hispanic
    Min. 1st Qu. Median Mean 3rd Qu.
##
                                       {\tt Max.}
    1.000 2.000 3.000
                        2.946 4.000
##
                                      7.000
                                             1
## -----
## PPETHM: White, Non-Hispanic
##
    Min. 1st Qu. Median Mean 3rd Qu.
                                       Max.
                                              NA's
##
    1.000 2.000 2.000 2.509 3.000 14.000
                                              18
```