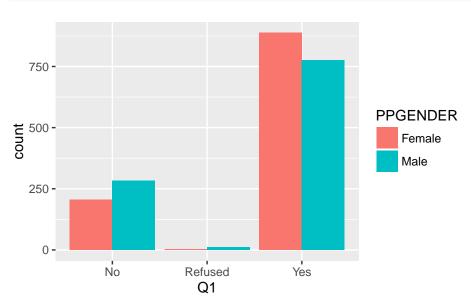
Flu Survey Data

Contents

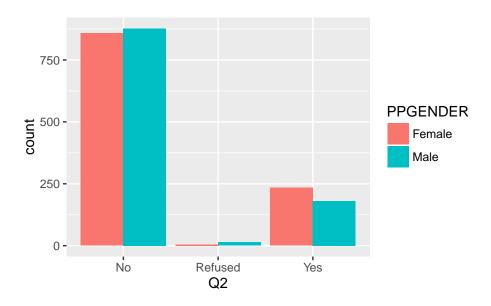
Surv	rey data by question	1
H	HM1	45 46 51
	•	56 57
Su	evey data by question	
Q1.	Before receiving this survey, did you know influenza is different from the stomach flu?	
summ	ary(q1.df)	
## ##	Q1 No : 488 Refused: 16 Yes :1664	
ggpı	ot(q1) + geom_bar(aes(x=response, fill=response))	
conut	response No Refused Yes	
	No Refused Yes	
	response	

```
# alternatively, summary(q1.df)
data %>%
  group_by(Q1) %>%
 summarise(count = n())
## Source: local data frame [3 x 2]
##
##
          Q1 count
##
      (fctr) (int)
## 1
         No
               488
## 2 Refused
               16
## 3
        Yes 1664
# by gender
q1.gen = data %>%
 group_by(Q1, PPGENDER)
q1.gen %>%
summarise(count = n())
## Source: local data frame [6 x 3]
## Groups: Q1 [?]
##
##
          Q1 PPGENDER count
##
      (fctr)
               (fctr) (int)
## 1
         No
               Female
                        205
                        283
## 2
         No
               Male
## 3 Refused
              Female
                        4
## 4 Refused
                Male
                        12
## 5
        Yes
              Female
                       888
## 6
        Yes
                Male
                       776
ggplot(q1.gen) + geom_bar(aes(x = Q1, fill = PPGENDER), position = "dodge")
```



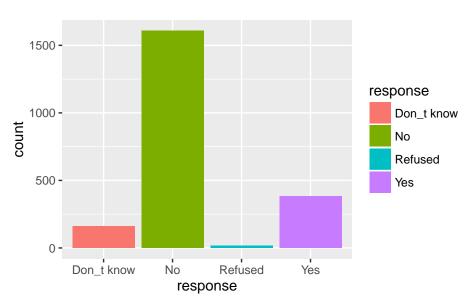
Q2. Have you had an illness with influenza like symptoms since August 2015?

```
summary(q2.df)
##
          Q2
##
            :1735
    No
    Refused: 19
    Yes
           : 414
ggplot(q2) + geom_bar(aes(x=response, fill=response))
  1500 -
                                                       response
conut
                                                           No
                                                           Refused
                                                           Yes
   500 -
     0 -
               Νo
                           Refused
                                           Yes
                          response
# by gender
q2.gen = data \%
  group_by(Q2, PPGENDER)
q2.gen %>%
summarise(count = n())
## Source: local data frame [6 x 3]
## Groups: Q2 [?]
##
##
          Q2 PPGENDER count
##
      (fctr)
                (fctr) (int)
## 1
          No
               Female
                         858
## 2
                 Male
                         877
          No
## 3 Refused
               Female
                         5
## 4 Refused
                 Male
                         14
## 5
         Yes
               Female
                         234
## 6
         Yes
                 Male
                        180
ggplot(q2.gen) + geom_bar(aes(x = Q2, fill = PPGENDER), position = "dodge")
```



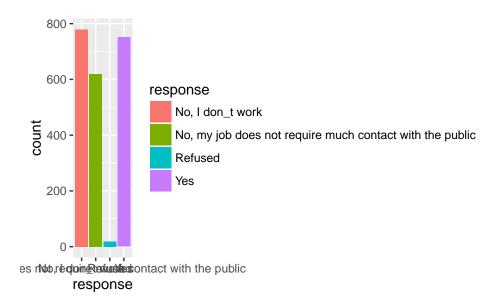
Q3. Has any other person in your household had an illness with influenza like symptoms since August 2015?

```
## Q3
## Don_t know: 161
## No :1608
## Refused : 16
## Yes : 383
```



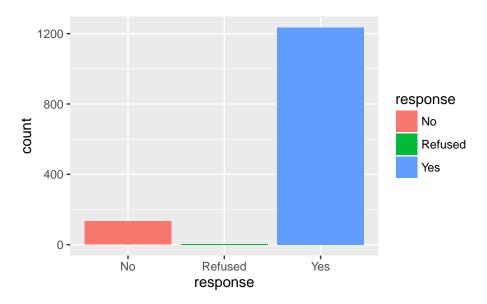
Q4. Does your job require you to have a lot of contact with the public?

```
## Q4
## No, I don_t work :779
## No, my job does not require much contact with the public:620
## Refused : 18
## Yes :751
```



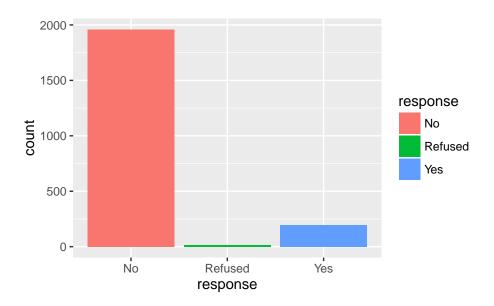
Q5. Do you have a car that you can use to travel to work?

Q5 ## No : 133 ## Refused: 3 ## Yes :1235 ## NA's : 797

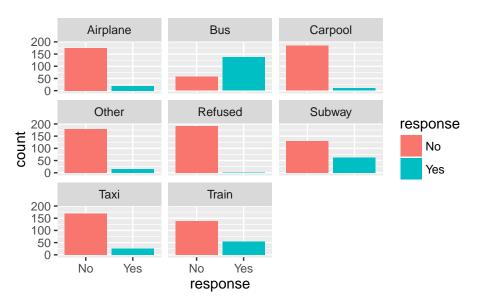


Q6. Do you regularly use public transportation?

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



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



##	Bus	Carpool	Subway	Train	Taxi	Airplane
##	No : 57	No : 184	No : 131	No : 139	No : 169	No : 175
##	Yes : 137	Yes : 10	Yes : 63	Yes : 55	Yes : 25	Yes : 19
##	NA's:1974	NA's:1974	NA's:1974	NA's:1974	NA's:1974	NA's:1974
##						
##						
##						
##						
##	Other	Refused	Other t	text		
##	No : 179	No : 192	:2	2153		
##	Yes : 15	Yes: 2	bike, walk:	1		
##	NA's:1974	NA's:1974	car :	1		
##			ferry :	1		
##			Ferry :	1		

```
##
                               Horse
                                         :
                                             1
##
                               (Other)
                                            10
   Source: local data frame [15,176 x 3]
   Groups: PPGENDER, option, response [42]
##
      PPGENDER option response
##
                  (chr)
##
         (fctr)
                            (chr)
## 1
         Female
                   Q7_1
                              Yes
## 2
           Male
                   Q7_1
                               NA
## 3
        Female
                   Q7_1
                               NA
## 4
           Male
                   Q7_1
                              Yes
## 5
           Male
                   Q7_1
                               NA
## 6
           Male
                   Q7_1
                               NA
## 7
         Female
                   Q7_1
                               NA
## 8
           Male
                   Q7_1
                               NA
## 9
         Female
                   Q7_1
                               NA
## 10
           Male
                   Q7_1
                               NA
## ..
                              . . .
           Q7_1
                            Q7_2
                                             Q7_3
  75 -
  50 -
  25 -
   0 -
           Q7_4
                            Q7_5
                                             Q7_6
                                                          PPGENDER
75 -
50 -
25 -
                                                              Female
                                                              Male
   0 -
           Q7_7
  75 -
50 -
  25 -
               Yes
        No
                          response
## Source: local data frame [42 x 4]
##
   Groups: PPGENDER, option [?]
##
##
      PPGENDER option response count
                  (chr)
                            (chr) (int)
##
         (fctr)
```

No

NA

No

NA

No

Yes

NA

No

. . .

Yes

Yes

27

69

91

68

28

75

. . .

5

1001

1001

1001

1

2

3

4

5

6

7

8

9

10

..

Female

 $Q7_1$

Q7_1

Q7_1

Q7_2

Q7_2

 $Q7_{2}$

Q7_3

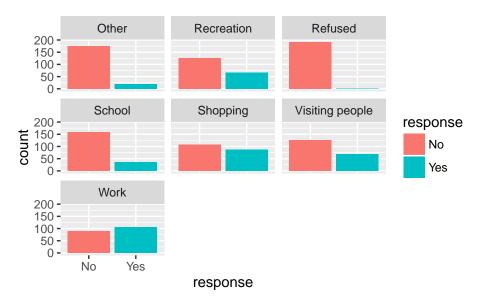
Q7_3

Q7_3

 $Q7_4$

7

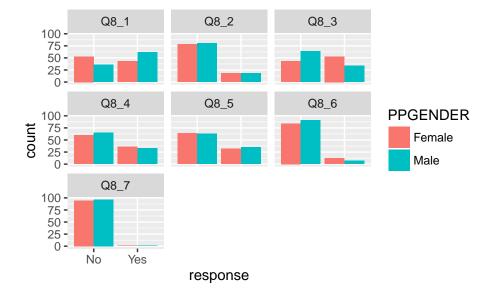
Q8. For what types of activities do you regularly use public transportation?



School ## Work Shopping Visiting people Recreation ## No : 89 No : 158 No : 107 No : 125 No : 127 Yes : 105 Yes : 36 Yes: 87 Yes : 69 ## Yes: 67 NA's:1974 NA's:1974 NA's:1974 NA's:1974 NA's:1974 ## ## ## ## ## ## Other Refused Other text ## No : 175 No : 192 :2149 Yes: 19 Yes : church, adult ed ## 2 ## NA's:1974 NA's:1974 doc. app. 1 ## Doctor 1 doctor visits ## 1 ## Doctor's appointments: 1 ## (Other) 14

Source: local data frame [15,176 x 3]
Groups: PPGENDER, option, response [42]

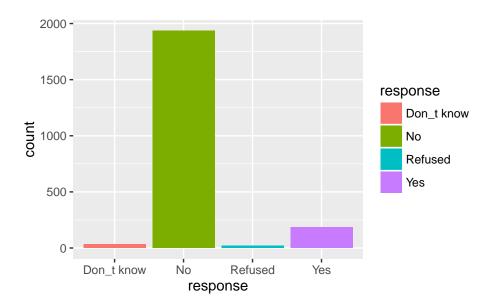
##				
##		PPGENDER	option	response
##		(fctr)	(chr)	(chr)
##	1	Female	Q8_1	No
##	2	Male	Q8_1	NA
##	3	Female	Q8_1	NA
##	4	Male	Q8_1	Yes
##	5	Male	Q8_1	NA
##	6	Male	Q8_1	NA
##	7	Female	Q8_1	NA
##	8	Male	Q8_1	NA
##	9	Female	Q8_1	NA
##	10	Male	Q8_1	NA
##				



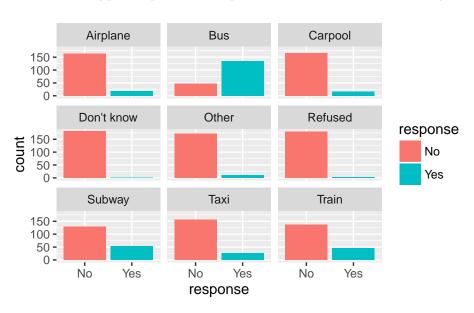
```
## Source: local data frame [42 x 4]
## Groups: PPGENDER, option [?]
##
##
      PPGENDER option response count
##
         (fctr)
                  (chr)
                           (chr) (int)
## 1
        Female
                  Q8_1
                               No
                                     53
## 2
        Female
                  Q8_1
                              Yes
                                     43
## 3
        Female
                  Q8_1
                               NA
                                   1001
## 4
        Female
                   Q8_2
                               No
                                     78
## 5
        Female
                  Q8_2
                             Yes
                                     18
## 6
        Female
                  Q8_2
                               NA
                                   1001
## 7
        Female
                  Q8_3
                               No
                                     43
## 8
        Female
                   Q8_3
                              Yes
                                     53
## 9
                                   1001
        Female
                  Q8_3
                               NA
## 10
        Female
                  Q8_4
                              No
                                     60
## ..
            . . .
                   . . .
                              . . .
                                    . . .
```

Q9. Do other members of your household regularly use public transportation?

```
## Q9
## Don_t know: 32
## No :1935
## Refused : 18
## Yes : 183
```



Q10. What types of public transportation do other members of your household regularly use?



## ## ## ## ##	Bus No : 48 Yes : 135 NA's:1985	Carpool No : 166 Yes : 17 NA's:1985	Subway No : 130 Yes : 53 NA's:1985	Train No : 137 Yes : 46 NA's:1985	Taxi No : 157 Yes : 26 NA's:1985	Airplane No : 164 Yes : 19 NA's:1985
##						
##	Don't know	Other	Refused	Other te	xt	
##	No : 182	No : 172	No : 180	:21	57	
##	Yes : 1	Yes : 11	Yes : 3	None :	2	
##	NA's:1985	NA's:1985	NA's:1985	car :	1	
##				ferry :	1	
##				Ferrv :	1	

Horse : 1 ## (Other): 5

Q11. How do you rate your risk of getting influenza if you visited each of the following locations?

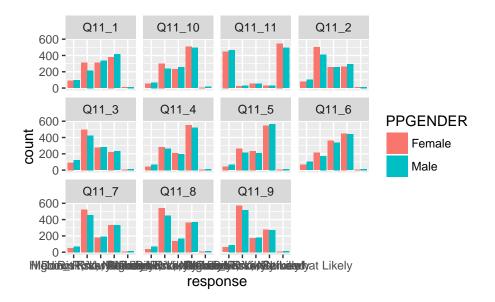


##		Work		Schools
##	Don t Know	:185	Don t Know	:178
##	High Risk, Very Likely	:524	High Risk, Very Likely	:909
##	Low Risk, Not Likely	:643	Low Risk, Not Likely	:508
##	Medium Risk, Somewhat Like	ly:795	Medium Risk, Somewhat L	ikely:551
##	Refused	: 21	Refused	: 22
##				
##				
##	Da	y care		Stores
##	Don_t Know	:214	Don_t Know	: 115
##	High Risk, Very Likely	:924	High Risk, Very Likely	: 551
##	Low Risk, Not Likely	:554	Low Risk, Not Likely	: 405
##	Medium Risk, Somewhat Like	ly:454	Medium Risk, Somewhat L	ikely:1076
##	Refused	: 22	Refused	: 21
##				
##				
##	Rest	aurants		Libraries
##	Don_t Know	: 111	Don_t Know	:169
##	High Risk, Very Likely	: 483	High Risk, Very Likely	:386
##	Low Risk, Not Likely	: 442	Low Risk, Not Likely	:700
##	Medium Risk, Somewhat Like	ely:1111	Medium Risk, Somewhat	Likely:890
##	Refused	: 21	Refused	: 23
##				
##				
##	Hos	pitals	Doc	tor's office
##	Don_t Know	:123	Don_t Know	:110
##	High Risk, Very Likely	:982	High Risk, Very Likely	
##	Low Risk, Not Likely	:374	Low Risk, Not Likely	
##	Medium Risk, Somewhat Like	ely:669	Medium Risk, Somewhat L	ikely:733

```
Refused
                                : 20
                                       Refused
                                                                    : 23
##
##
                     Public transportation
##
##
   Don_t Know
                                : 147
##
   High Risk, Very Likely
                                :1093
   Low Risk, Not Likely
                                : 353
   Medium Risk, Somewhat Likely: 551
##
##
   Refused
##
##
##
                                                                   Other
                       Family or friends
##
                                                                      : 915
   Don_t Know
                                : 121
                                         Don_t Know
##
  High Risk, Very Likely
                                         High Risk, Very Likely
                                                                      : 51
                                : 541
  Low Risk, Not Likely
                                : 485
                                         Low Risk, Not Likely
                                                                      : 104
##
   Medium Risk, Somewhat Likely:1000
                                         Medium Risk, Somewhat Likely: 54
##
   Refused
                                : 21
                                         Refused
                                                                      :1044
##
##
      Other text
##
           :1997
##
   church: 13
   Church: 13
##
##
   none
##
               7
   gym
   n/a
##
   (Other): 126
## Source: local data frame [23,848 x 3]
## Groups: PPGENDER, option, response [110]
##
##
      PPGENDER option
                                          response
##
        (fctr)
               (chr)
                                              (chr)
## 1
        Female Q11_1
                            High Risk, Very Likely
## 2
          Male Q11_1
                                           Refused
## 3
        Female Q11_1 Medium Risk, Somewhat Likely
## 4
          Male Q11_1
                            High Risk, Very Likely
## 5
          Male Q11_1
                            High Risk, Very Likely
## 6
          Male Q11_1 Medium Risk, Somewhat Likely
## 7
        Female Q11_1
                              Low Risk, Not Likely
## 8
          Male Q11_1
                              Low Risk, Not Likely
## 9
        Female Q11_1
                              Low Risk, Not Likely
## 10
          Male Q11_1
                              Low Risk, Not Likely
```

..

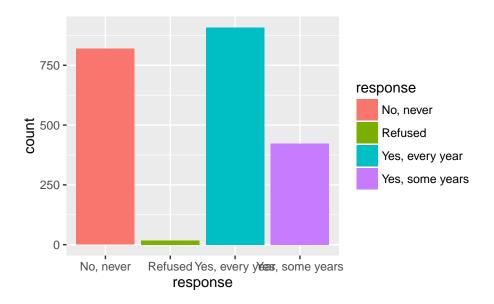
. . .



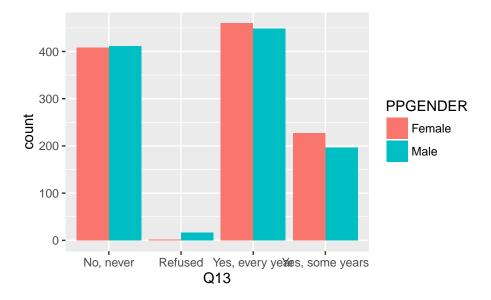
```
## Source: local data frame [110 x 4]
## Groups: PPGENDER, option [?]
##
##
      PPGENDER option
                                           response count
        (fctr)
##
               (chr)
                                              (chr) (int)
## 1
        Female Q11_1
                                         Don_t Know
                                                       89
## 2
        Female Q11_1
                             High Risk, Very Likely
                                                      309
## 3
        Female Q11_1
                              Low Risk, Not Likely
                                                      310
## 4
        Female Q11_1 Medium Risk, Somewhat Likely
                                                      381
        Female Q11_1
                                            Refused
                                                        8
## 5
## 6
        Female Q11_10
                                         Don_t Know
                                                       53
## 7
        Female Q11_10
                            High Risk, Very Likely
                                                      302
## 8
        Female Q11_10
                             Low Risk, Not Likely
                                                      229
## 9
        Female Q11_10 Medium Risk, Somewhat Likely
                                                      506
## 10
        Female Q11_10
                                            Refused
                                                       7
## ..
                                                       . . .
```

Q13. Do you get the flu vaccine?

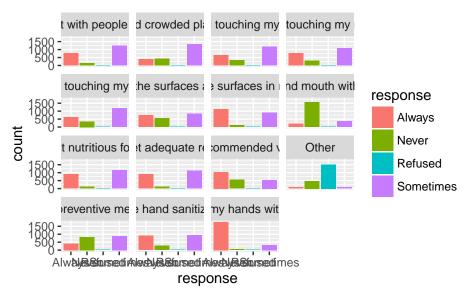
```
## Q13
## No, never :819
## Refused : 18
## Yes, every year:908
## Yes, some years:423
```



```
## Source: local data frame [8 x 3]
## Groups: Q13 [?]
##
##
                  Q13 PPGENDER count
##
               (fctr)
                        (fctr) (int)
## 1
           No, never
                        Female
                                  408
## 2
           No, never
                          Male
                                  411
## 3
             Refused
                        Female
                                    2
## 4
             Refused
                          Male
                                  16
                                 460
## 5 Yes, every year
                        Female
## 6 Yes, every year
                          Male
                                 448
## 7 Yes, some years
                                 227
                        Female
## 8 Yes, some years
                          Male
                                 196
```



Q12. Which of the following actions do you take to avoid getting sick?



```
Avoid touching my eyes Avoid touching my nose Avoid touching my mouth
##
   Always
            : 653
                           Always
                                    : 613
                                                  Always
                                                           : 758
   Never
             : 324
                           Never
                                    : 349
                                                  Never
                                                           : 300
##
                                                  Refused : 25
##
   Refused : 23
                           Refused : 23
   Sometimes:1168
                           Sometimes:1183
                                                  Sometimes: 1085
##
##
##
##
##
   Wash my hands with soap Use hand sanitizers Clean the surfaces in my home
             :1774
                                     :911
                                                         :1132
##
   Always
                            Always
                                                Always
##
   Never
             : 52
                            Never
                                     :278
                                                Never
                                                          : 115
                            Refused: 22
##
   Refused: 25
                                                Refused: 22
##
   Sometimes: 317
                            Sometimes:957
                                                Sometimes: 899
##
##
##
   Clean the surfaces at work Eat nutritious food Get adequate rest
##
##
   Always
            :752
                               Always
                                        : 895
                                                   Always
                                                            : 899
##
   Never
             :544
                               Never
                                        : 107
                                                   Never
                                                             : 114
   Refused: 30
                               Refused: 22
                                                   Refused: 25
##
   Sometimes:842
                               Sometimes:1144
                                                   Sometimes:1130
##
##
##
```

Get recommended vaccine Take preventive medicine

:1041 ## Always Always :425 Never : 564 Never :831 ## ## Refused: 23 Refused: 22 ## Sometimes: 540 Sometimes:890

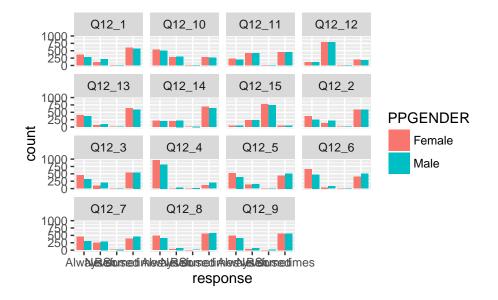
##

##

Cover my nose and mouth with a surgical mask

Always : 218 ## Never :1568 ## Refused : 24

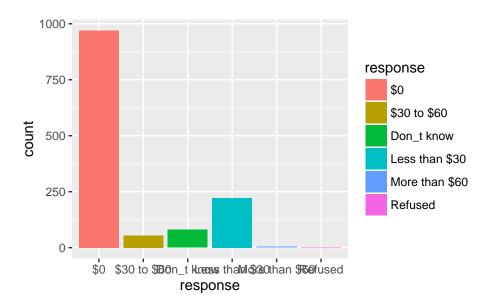
```
Sometimes: 358
##
##
##
##
    Avoid contact with people who are sick Avoid crowded places
##
    Always : 765
                                          Always : 406
   Never
           : 153
                                          Never
                                                   : 413
   Refused : 22
                                          Refused: 27
##
##
    Sometimes:1228
                                          Sometimes:1322
##
##
##
##
          Other
                                Other text
                                     :2022
##
   Always
           : 91
##
    Never
           : 472
                     none
    Refused :1518
##
                     stay home
                                         4
##
    Sometimes: 87
                     avoid sick people:
                                          3
##
                     N/A
##
                     nothing
                                         3
##
                     (Other)
                                      : 126
## Source: local data frame [32,520 x 3]
## Groups: PPGENDER, option, response [120]
##
##
      PPGENDER option response
##
        (fctr) (chr)
                          (chr)
## 1
       Female Q12 1 Sometimes
         Male Q12_1
## 2
                       Refused
## 3
       Female Q12_1
                        Always
## 4
         Male Q12_1 Sometimes
## 5
         Male Q12_1 Sometimes
## 6
         Male Q12_1 Sometimes
## 7
       Female Q12_1 Sometimes
## 8
          Male Q12_1
                         Never
## 9
       Female Q12_1
                        Always
## 10
          Male Q12_1 Sometimes
## ..
           . . .
```



```
## Source: local data frame [120 x 4]
## Groups: PPGENDER, option [?]
##
##
      PPGENDER option response count
##
                           (chr) (int)
        (fctr)
                 (chr)
                Q12_1
## 1
        Female
                          Always
                                    367
## 2
        Female Q12_1
                           Never
                                    118
## 3
        Female Q12_1
                                      9
                         Refused
## 4
        Female Q12_1 Sometimes
                                    603
## 5
        Female Q12_10
                                    540
                          Always
## 6
        Female Q12_10
                           Never
                                    275
## 7
        Female Q12_10
                         Refused
                                     9
## 8
        Female Q12_10 Sometimes
                                    273
## 9
        Female Q12_11
                          Always
                                    223
## 10
        Female Q12_11
                           Never
                                    419
## ..
            . . .
                              . . .
                                    . . .
```

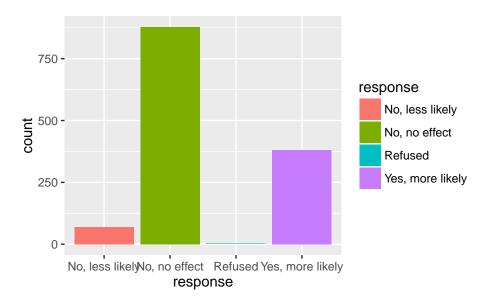
Q14. How much do you pay to get an influenza vaccine?

```
##
               Q14
##
    $0
                  :970
##
    $30 to $60
                  : 54
    Don_t know
##
   Less than $30:222
    More than $60: 4
##
##
    Refused
                  : 1
##
   NA's
                  :837
```



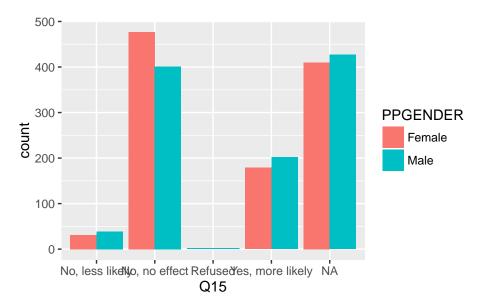
Q15. Are you more likely to get a vaccine if others around you get a vaccine?

```
## Q15
## No, less likely : 70
## No, no effect :878
## Refused : 2
## Yes, more likely:381
## NA's :837
```



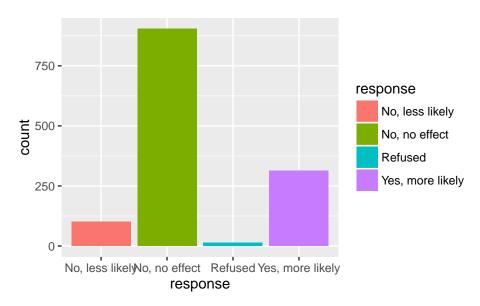
```
## Source: local data frame [9 x 3]
## Groups: Q15 [?]
##
## Q15 PPGENDER count
## (fctr) (fctr) (int)
## 1 No, less likely Female 31
## 2 No, less likely Male 39
```

```
## 3
        No, no effect
                                   477
                         Female
## 4
                                   401
        No, no effect
                           Male
## 5
              Refused
                           Male
                                     2
## 6 Yes, more likely
                         Female
                                   179
## 7 Yes, more likely
                           Male
                                   202
## 8
                         Female
                                   410
## 9
                    NA
                           Male
                                   427
```

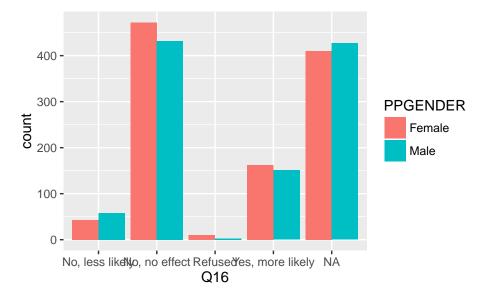


Q16. Are you more likely to get a vaccine if others around you do not get a vaccine?

```
## Q16
## No, less likely :101
## No, no effect :904
## Refused : 13
## Yes, more likely:313
## NA's :837
```

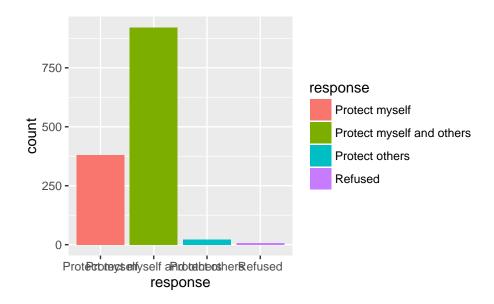


```
## Source: local data frame [10 x 3]
## Groups: Q16 [?]
##
                    Q16 PPGENDER count
##
##
                 (fctr)
                           (fctr) (int)
## 1
       No, less likely
                          Female
                                     43
## 2
       No, less likely
                            Male
                                     58
## 3
         No, no effect
                          Female
                                    472
## 4
         No, no effect
                            Male
                                    432
## 5
                Refused
                          {\tt Female}
                                     10
## 6
                Refused
                            Male
                                      3
## 7
      Yes, more likely
                                    162
                          Female
## 8
      Yes, more likely
                            Male
                                    151
## 9
                     NA
                          Female
                                    410
## 10
                     NA
                            Male
                                    427
```



Q17. Do you get a vaccine to protect yourself, protect others, or protect yourself and others?

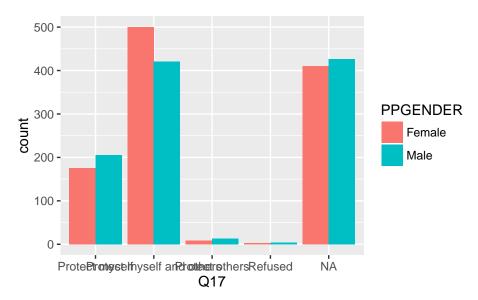
##				Q17
##	Protect	myself		:381
##	Protect	myself	and	others:921
##	Protect	others		: 22
##	Refused			: 7
##	NA's			:837



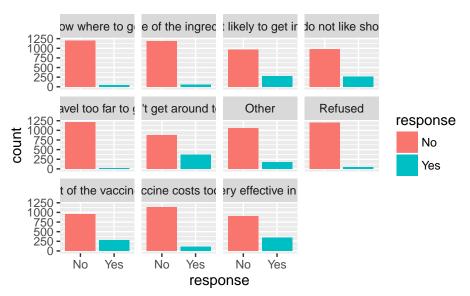
Source: local data frame [10 x 3]

Groups: Q17 [?]

##							
##					Q17	PPGENDER	count
##					(fctr)	(fctr)	(int)
##	1		Prof	tect	myself	Female	175
##	2		Prof	tect	myself	Male	206
##	3	${\tt Protect}$	myself	and	others	Female	500
##	4	${\tt Protect}$	myself	and	others	Male	421
##	5		Pro	tect	others	Female	9
##	6		Prof	tect	others	Male	13
##	7			I	Refused	Female	3
##	8			I	Refused	Male	4
##	9				NA	Female	410
##	10				NA	Male	427

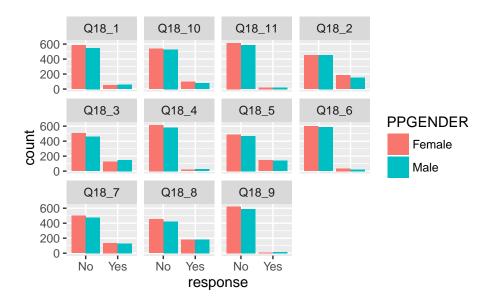


Q18. What are the reasons you would not get an influenza vaccine?



```
The vaccine costs too much
##
##
    No
       :1132
    Yes : 110
##
    NA's: 926
##
##
##
##
##
##
    The vaccine is not very effective in preventing influenza
##
    No :903
    Yes :339
##
##
    NA's:926
##
##
##
##
##
    I am not likely to get influenza Do not know where to get vaccine
    No :964
##
                                      No :1199
##
    Yes :278
                                      Yes: 43
##
    NA's:926
                                      NA's: 926
##
##
##
##
##
    The side effect of the vaccine are too risky
    No :958
##
##
    Yes :284
    NA's:926
##
##
##
##
##
    I am allergic to some of the ingredients in the vaccine
```

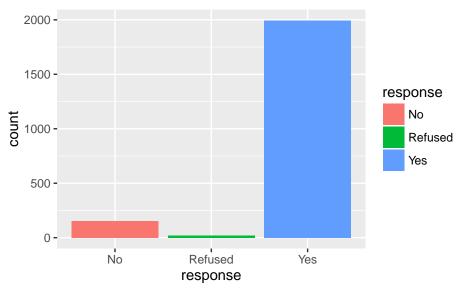
```
## No :1184
   Yes: 58
##
   NA's: 926
##
##
##
##
##
  I do not like shots I just don't get around to doing it
##
##
   No :976
                        No :878
##
   Yes :266
                        Yes :364
   NA's:926
                        NA's:926
##
##
##
##
##
   I have to travel too far to get vaccine Other
                                                        Refused
##
   No :1216
                                            No :1064
                                                        No :1200
   Yes: 26
                                            Yes : 178
##
                                                        Yes: 42
   NA's: 926
                                            NA's: 926
##
                                                        NA's: 926
##
##
##
##
##
                                                               Other text
                                                                    :1991
##
## no need
                                                                        3
## 70's swine flu vacc
                                                                        1
## Always get sick when I get the shot
                                                                        1
                                                                        1
## because i get treatments to lower and over active immune system.:
## (Other)
                                                                    : 170
## Source: local data frame [23,848 x 3]
## Groups: PPGENDER, option, response [66]
##
##
      PPGENDER option response
##
        (fctr) (chr)
                         (chr)
## 1
       Female Q18_1
                            NA
         Male Q18_1
                            NA
## 2
## 3
       Female Q18_1
                            NA
## 4
         Male Q18_1
                            No
## 5
         Male Q18_1
                            NA
## 6
         Male Q18_1
                            No
## 7
       Female Q18_1
                            No
## 8
         Male Q18_1
                            NA
## 9
       Female Q18_1
                            No
## 10
         Male Q18_1
                            No
## ..
          . . .
                . . .
                           . . .
```



```
## Source: local data frame [66 x 4]
## Groups: PPGENDER, option [?]
##
##
      PPGENDER option response count
##
        (fctr) (chr)
                          (chr) (int)
## 1
        Female Q18_1
                             No
                                   584
## 2
        Female Q18_1
                            Yes
                                    51
## 3
        Female Q18_1
                             NA
                                   462
## 4
        Female Q18_10
                             No
                                   537
## 5
        Female Q18_10
                                   98
                            Yes
        Female Q18_10
## 6
                             NA
                                   462
## 7
        Female Q18_11
                             No
                                   614
## 8
        Female Q18_11
                            Yes
                                   21
## 9
        Female Q18_11
                             NA
                                   462
## 10
        Female Q18_2
                             No
                                   449
## ..
           . . .
                . . .
                             . . .
                                   . . .
```

Q19. Do you have health insurance?

```
## Q19
## No : 154
## Refused: 20
## Yes :1994
```



```
## Source: local data frame [6 x 3]
## Groups: Q19 [?]
##
##
          Q19 PPGENDER count
##
       (fctr)
                 (fctr) (int)
                            60
## 1
           No
                 Female
## 2
                   Male
           No
                            94
## 3 Refused
                 Female
                             4
## 4 Refused
                   Male
                            16
## 5
          Yes
                 {\tt Female}
                          1033
## 6
          Yes
                   Male
                           961
   1000 -
    750 -
                                                          PPGENDER
count
                                                               Female
   500 -
                                                               Male
    250 -
      0 -
```

Refused

Q19

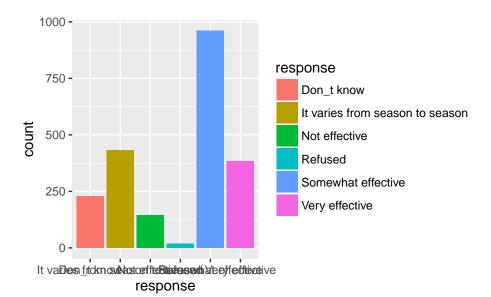
Q20. How effective do you think the influenza vaccine is in protecting people from becoming sick with influenza?

Yes

Q20

No

```
## Don_t know :228
## It varies from season to season:433
## Not effective :144
## Refused : 19
## Somewhat effective :961
## Very effective :383
```

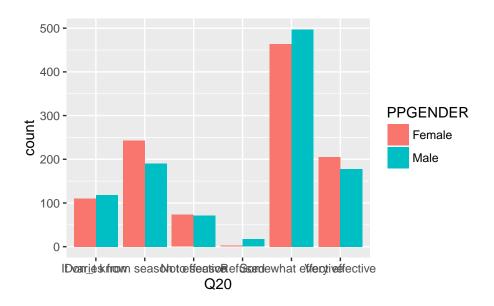


Source: local data frame [12 x 3]

Groups: Q20 [?]

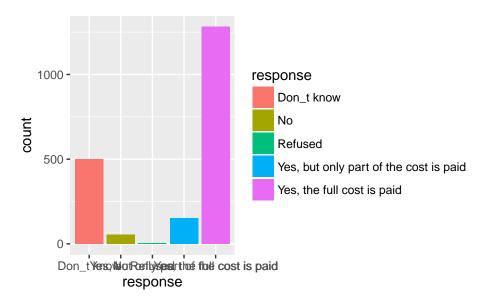
##

ππ									
##							Q20	PPGENDER	count
##							(fctr)	(fctr)	(int)
##	1				I	Oon_	t know	Female	110
##	2				I	Oon_	t know	Male	118
##	3	It	varies	${\tt from}$	season	to	season	Female	243
##	4	It	varies	${\tt from}$	season	to	season	Male	190
##	5				Not	eff	ective	Female	73
##	6				Not	eff	ective	Male	71
##	7					F	Refused	Female	2
##	8					F	Refused	Male	17
##	9			Sc	mewhat	eff	ective	Female	464
##	10			Sc	omewhat	eff	ective	Male	497
##	11				Very	eff	ective	Female	205
##	12				Very	eff	ective	Male	178

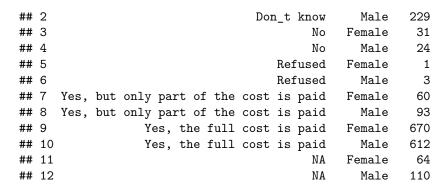


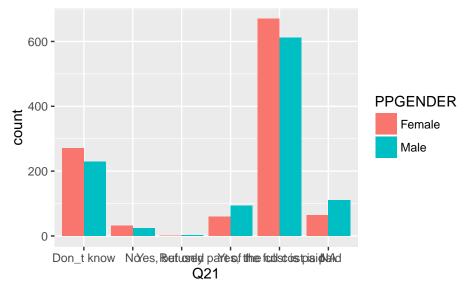
Q21. Are influenza vaccines covered by your health insurance?

##		Q21
##	Don_t know	: 500
##	No	: 55
##	Refused	: 4
##	Yes, but only part of the cost	is paid: 153
##	Yes, the full cost is paid	:1282
##	NA's	: 174

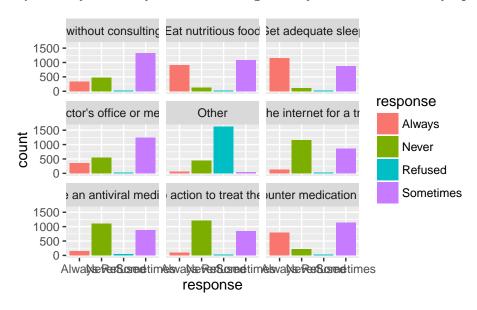


```
## Source: local data frame [12 x 3]
## Groups: Q21 [?]
##
##
## Q21 PPGENDER count
## (fctr) (fctr) (int)
## 1 Don_t know Female 271
```





Q22. Do you do any of the following when you have influenza symptoms?



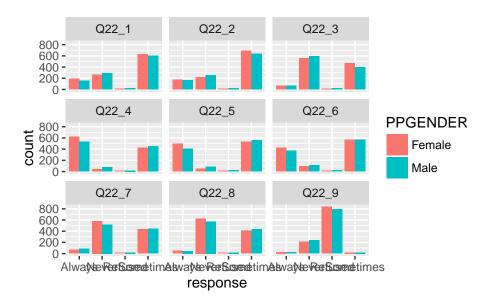
Go to a doctor's office or medical clinic
Always : 349

```
: 552
   Never
##
   Refused: 32
##
   Sometimes: 1235
##
##
##
  Decide on treatment without consulting a health practitioner
  Always
           : 335
##
            : 473
##
  Never
##
   Refused: 31
   Sometimes:1329
##
##
##
## Search the internet for a treatment Get adequate sleep
##
   Always
           : 126
                                       Always
                                               :1147
##
  Never
            :1148
                                       Never
                                                : 115
##
   Refused: 33
                                       Refused: 31
##
  Sometimes: 861
                                       Sometimes: 875
##
##
##
##
  Eat nutritious food Take-over-counter medication for symptoms
##
   Always
           : 909
                       Always
                               : 796
## Never
            : 135
                       Never
                                : 210
  Refused : 33
                       Refused: 32
##
  Sometimes:1091
                       Sometimes:1130
##
##
##
## Take an antiviral medicine Take no action to treat the illness
##
  Always
            : 153
                              Always
                                      : 96
## Never
            :1103
                              Never
                                       :1199
## Refused : 35
                              Refused: 34
                              Sometimes: 839
##
   Sometimes: 877
##
##
##
                                      Other text
##
         Other
                                           :2046
##
           : 54
  Always
  Never
            : 448
                    none
## Refused :1628
                    dont know
                                               2
   Sometimes: 38
                    drink lots of fluids
                                               2
##
                    eat chicken noodle soup:
                                               2
##
                    n/a
                                               2
##
                    (Other)
                                           : 108
## Source: local data frame [19,512 x 3]
## Groups: PPGENDER, option, response [72]
##
##
     PPGENDER option response
##
        (fctr) (chr)
                         (chr)
## 1
       Female Q22_1 Sometimes
```

2

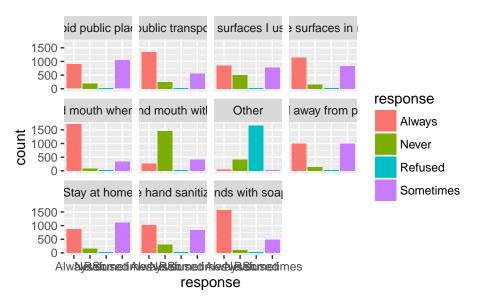
Male Q22_1 Refused

```
## 3
        Female Q22_1
                          Always
## 4
          Male Q22_1 Sometimes
## 5
          Male
                Q22_1 Sometimes
## 6
          Male
                Q22_1
                           Never
## 7
        Female
                Q22_1 Sometimes
## 8
          Male
                Q22 1
                           Never
## 9
        Female
                Q22 1
                           Never
## 10
          Male Q22_1
                           Never
## ..
            . . .
                              . . .
```



Source: local data frame [72 x 4] ## Groups: PPGENDER, option [?] ## ## PPGENDER option response count ## (fctr) (chr) (chr) (int) Female Q22 1 ## 1 Always 189 ## 2 Female Q22_1 Never 265 ## 3 Female Q22 1 Refused 13 ## 4 Female Q22_1 Sometimes 630 ## 5 Female Q22_2 Always 171 ## 6 Female Q22_2 Never 220 ## 7 Female $Q22_{2}$ Refused 12 ## 8 Q22_2 Sometimes 694 Female ## 9 Female Q22_3 Always 63 ## 10 Female Q22_3 Never 554 ##

Q23. Which of the following actions do you take when you have influenza symptoms to avoid someone else from getting sick?



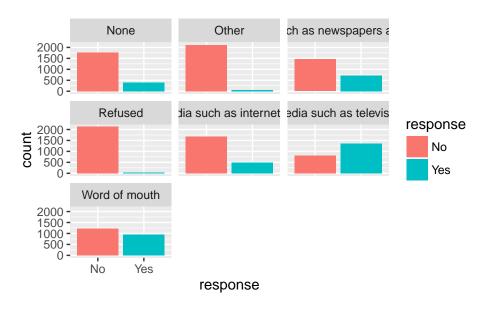
```
Stand away from people Avoid public places Avoid public transportation
##
##
    Always
             :1006
                           Always
                                     : 897
                                                Always
                                                         :1342
             : 135
                                                         : 245
##
    Never
                           Never
                                     : 196
                                                Never
##
    Refused: 31
                           Refused: 31
                                                Refused :
                                                            31
##
    Sometimes: 996
                           Sometimes: 1044
                                                Sometimes: 550
##
##
##
       Stay at home
##
                     Wash my hands with soap more often Use hand sanitizers
                               :1559
    Always
             : 869
                     Always
                                                         Always
                                                                   :1014
##
##
    Never
             : 163
                     Never
                               : 92
                                                         Never
                                                                   : 299
                     Refused: 29
##
    Refused :
                30
                                                         Refused :
                                                                      30
##
    Sometimes:1106
                     Sometimes: 488
                                                         Sometimes: 825
##
##
##
    Clean the surfaces in my\ home\ Clean\ the\ surfaces\ I use at work
##
##
    Always
             :1151
                                   Always
                                            :856
##
    Never
             : 153
                                   Never
                                            :508
    Refused: 32
                                   Refused: 32
##
##
    Sometimes: 832
                                   Sometimes:772
##
##
##
    Cover my nose and mouth with a surgical mask
##
##
    Always
             : 267
##
    Never
             :1463
    Refused: 29
##
    Sometimes: 409
##
##
##
```

```
Cover my nose and mouth when I sneeze or cough
                                                                                                                                                                                                       Other
##
              Always
                                             :1717
                                                                                                                                                                                                                  : 54
                                                                                                                                                                                   Always
              Never
                                              : 81
##
                                                                                                                                                                                  Never
                                                                                                                                                                                                                   : 421
              Refused: 29
                                                                                                                                                                                   Refused :1665
##
##
              Sometimes: 341
                                                                                                                                                                                   Sometimes: 28
##
##
##
##
                                   Other text
##
                                                     :2078
##
              none
##
              stay in bed:
                                                                   3
              dont know
                                                                   2
##
                                                                   2
##
##
              never had
                                                                  2
##
               (Other)
                                                               75
## Source: local data frame [23,848 x 3]
## Groups: PPGENDER, option, response [88]
##
##
                     PPGENDER option response
##
                                                        (chr)
                             (fctr)
                                                                                           (chr)
## 1
                            Female
                                                      Q23_1 Sometimes
## 2
                                  Male Q23_1
                                                                                   Refused
## 3
                           Female Q23 1
                                                                                       Always
                                  Male Q23_1 Sometimes
## 4
## 5
                                  Male Q23_1
                                                                                       Always
## 6
                                  Male Q23_1 Sometimes
## 7
                           Female Q23_1 Sometimes
## 8
                                   Male Q23_1 Sometimes
## 9
                           Female Q23_1
                                                                                       Always
## 10
                                   Male Q23_1
                                                                                       Always
## ..
                                       . . .
                                                                . . .
                              Q23_1
                                                                   Q23_10
                                                                                                          Q23_11
                                                                                                                                                   Q23_2
        750 -
        500 -
        250 -
               0 -
                              Q23_3
                                                                     Q23_4
                                                                                                            Q23_5
                                                                                                                                                   Q23_6
                                                                                                                                                                                       PPGENDER
750 -
500 -
250 -
                                                                                                                                                                                                   Female
                                                                                                                                                                                                   Male
               0
                              Q23_7
                                                                     Q23_8
                                                                                                            Q23_9
        750 -
        500 -
        250 -
               0
                 Alwale Consections and in the called Consection and the called Consect
                                                                                  response
```

Source: local data frame [88 x 4]

```
## Groups: PPGENDER, option [?]
##
      PPGENDER option response count
##
##
                (chr)
        (fctr)
                           (chr) (int)
## 1
        Female
                Q23_1
                          Always
                                    579
## 2
        Female Q23_1
                           Never
                                     46
## 3
        Female Q23_1
                         Refused
                                     11
        Female Q23_1 Sometimes
## 4
                                    461
## 5
        Female Q23_10
                          Always
                                    930
## 6
                                     25
        Female Q23_10
                           Never
## 7
        Female Q23_10
                         Refused
                                     10
        Female Q23_10 Sometimes
## 8
                                    132
## 9
        Female Q23_11
                          Always
                                     32
        Female Q23_11
## 10
                           Never
                                    203
## ..
           . . .
```

Q24. What sources of information do you recall hearing or seeing about influenza outbreaks?



```
Print media such as newspapers and magazines
##
    No :1460
##
    Yes: 708
##
##
##
##
##
##
    Traditional media such as television and radio
    No: 811
##
##
    Yes:1357
##
##
##
##
##
```

```
Social media such as internet and blogs Word of mouth None
##
    No:1680
                                               No :1213
                                                              No: 1764
    Yes: 488
                                               Yes: 955
##
                                                              Yes: 404
##
##
##
##
##
##
    Other
                Refused
                                  Other text
                No :2138
                                       :2114
##
    No :2114
    Yes: 54
                Yes: 30
                            CDC
                                            2
##
                            doctor
                                            2
##
                            Internet
##
                                            2
                            Online news:
##
                                            2
                            work
##
                            (Other)
                                           44
```

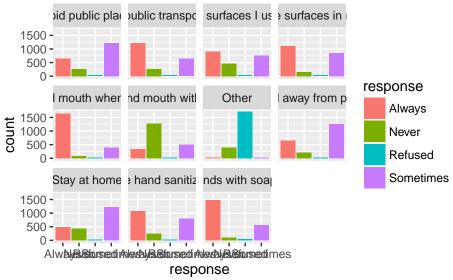
Q25. If you received information from the news, internet or other public media that there was an influenza outbreak in your community would you do any of the following?

```
Stand away from people Avoid public places Avoid public transportation
##
   Always
            : 649
                           Always
                                                Always
                                                         :1221
                                    : 648
   Never
             : 217
                           Never
                                     : 270
                                                Never
                                                         : 268
##
   Refused: 34
##
                           Refused: 33
                                               Refused :
##
   Sometimes: 1268
                           Sometimes: 1217
                                                Sometimes: 643
##
##
##
##
       Stay at home
                     Wash my hands with soap more often Use hand sanitizers
##
   Always
            : 484
                     Always
                              :1477
                                                         Always
                                                                  :1077
##
   Never
             : 429
                     Never
                              : 99
                                                         Never
                                                                  : 257
##
   Refused: 33
                     Refused: 38
                                                         Refused :
                                                                     35
##
   Sometimes:1222
                     Sometimes: 554
                                                         Sometimes: 799
##
##
##
##
   Clean the surfaces in my home Clean the surfaces I use at work
##
   Always
             :1116
                                  Always
                                            :902
   Never
##
             : 160
                                  Never
                                            :464
   Refused: 35
                                  Refused: 36
##
   Sometimes: 857
                                  Sometimes:766
##
##
##
##
   Cover my nose and mouth with a surgical mask
##
   Always
             : 343
   Never
             :1286
##
##
   Refused: 34
   Sometimes: 505
##
##
##
##
##
   Cover my nose and mouth when I sneeze or cough
                                                          Other
```

```
##
    Always
             :1643
                                                    Always
##
             : 90
    Never
                                                    Never
    Refused: 36
                                                    Refused :1722
##
##
    Sometimes: 399
                                                    Sometimes: 21
##
##
##
##
        Other text
##
             :2100
##
                 9
    none
   nothing
##
                 3
                 2
##
    n/a
##
    stay home:
                 2
##
                 1
##
   (Other) : 51
```

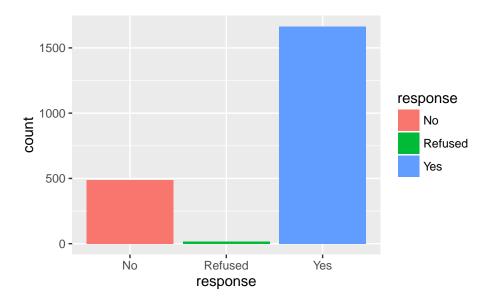
: 32

: 393



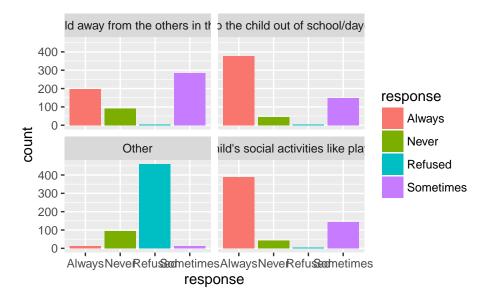
Q26. Does your household have children?

Q26 ## :1570 ## No ## Refused: 22 : 576 ## Yes



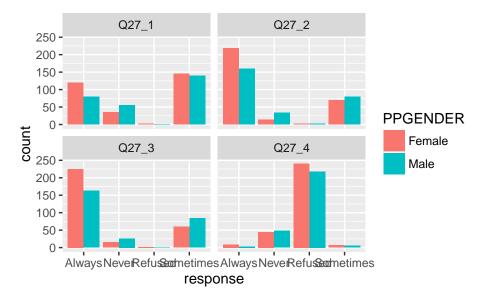
Q27. What actions do you take when a child in your household has influenza symptoms?

```
Keep the child away from the others in the residence
##
    Always
             : 198
##
   Never
             : 90
   Refused :
##
    Sometimes: 285
##
    NA's
             :1592
##
##
##
    Keep the child out of school/daycare
##
    Always
             : 377
   Never
             : 46
##
   Refused :
##
    Sometimes: 149
##
    NA's
             :1592
##
##
##
    Stop child's social activities like play dates
##
                                                          Other
##
    Always
            : 388
                                                    Always
                                                             : 12
##
   Never
                                                    Never
                                                                93
                                                            : 459
##
    Refused :
                 3
                                                    Refused
    Sometimes: 144
##
                                                    Sometimes:
                                                               12
##
    NA's
             :1592
                                                    NA's
                                                             :1592
##
##
                                                                   Other text
##
##
                                                                         :2147
##
   Consult with the child's doctors.
                                                                            1
   crawling on floor
##
## Depending on symptoms id have him wear a mask to help us not get it:
                                                                             1
   doctor visit
                                                                            1
##
    give supplements & herbs
                                                                            1
    (Other)
                                                                            16
##
```



Source: local data frame [8,672 x 3]
Groups: PPGENDER, option, response [40]

##				
##		PPGENDER	option	response
##		(fctr)	(chr)	(chr)
##	1	Female	Q27_1	${\tt Sometimes}$
##	2	Male	Q27_1	NA
##	3	Female	Q27_1	Always
##	4	Male	Q27_1	Never
##	5	Male	Q27_1	NA
##	6	Male	Q27_1	Never
##	7	Female	Q27_1	NA
##	8	Male	Q27_1	NA
##	9	Female	Q27_1	NA
##	10	Male	Q27_1	NA
##				

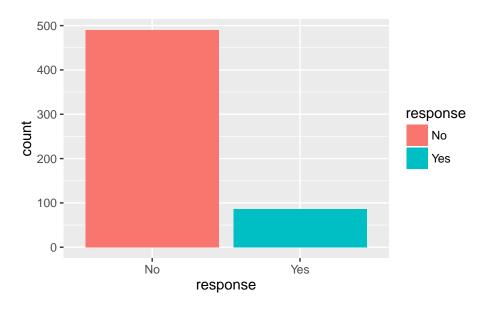


Source: local data frame [40 x 4]

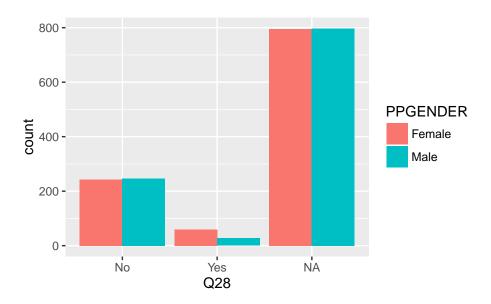
```
## Groups: PPGENDER, option [?]
##
##
      PPGENDER option response count
##
        (fctr)
                (chr)
                           (chr) (int)
        Female
                Q27_1
## 1
                          Always
                                    119
## 2
        Female Q27_1
                           Never
                                     35
## 3
        Female Q27_1
                         Refused
                                      2
        Female Q27_1 Sometimes
## 4
                                    146
## 5
        Female
                Q27_1
                              NA
                                    795
## 6
        Female
                Q27_2
                                    218
                          Always
## 7
        Female
                Q27_2
                           Never
                                    13
## 8
                Q27_{2}
                                      2
        Female
                         Refused
## 9
        Female
                Q27_2 Sometimes
                                     69
## 10
        Female
                Q27_2
                                    795
## ..
           . . .
                   . . .
```

Q28. Are you a single parent?

```
## Q28
## No : 490
## Yes : 86
## NA's:1592
```

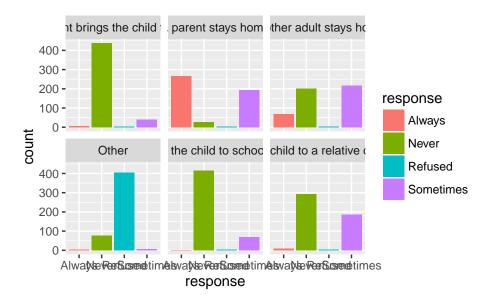


```
## Source: local data frame [6 x 3]
## Groups: Q28 [?]
##
##
        Q28 PPGENDER count
##
     (fctr)
               (fctr) (int)
## 1
         No
               Female
                        243
## 2
         No
                 Male
                        247
## 3
        Yes
               Female
                         59
## 4
        Yes
                 Male
                         27
## 5
         NA
               Female
                        795
## 6
         NA
                 Male
                        797
```



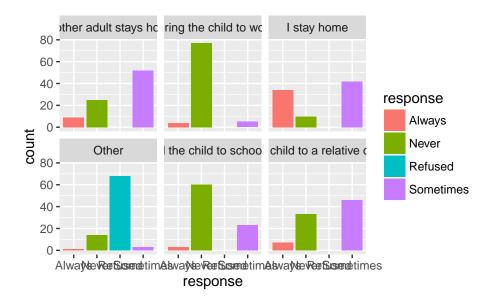
Q29. How do you care for a sick child?

```
A parent brings the child to work A parent stays home
##
    Always
                 7
                                      Always
                                               : 266
   Never
             : 438
                                      Never
##
   Refused :
                                      Refused :
##
    Sometimes: 41
                                      Sometimes: 193
            :1678
                                      NA's
                                               :1678
##
    NA's
##
##
    Another adult stays home Send the child to school sick
##
##
    Always
            : 68
                             Always
                                     : 1
    Never
                             Never
##
             : 202
                                      : 414
##
    Refused :
                4
                             Refused :
##
    Sometimes: 216
                             Sometimes: 70
##
    NA's
          :1678
                             NA's
                                      :1678
##
##
##
    Take the child to a relative or friends
                                                  Other
    Always
                                            Always
   Never
             : 292
                                                       76
##
                                            Never
##
    Refused :
                                            Refused: 404
##
    Sometimes: 186
                                            Sometimes:
                                                         6
##
    NA's
            :1678
                                            NA's
                                                     :1678
##
##
##
                                                                                    Other text
##
   Because of proper diets and physical training my family stays healthy the year round:
##
##
   Child stays home alone
                                                                                             1
    child stays home alone, old enough to take care of himself
                                                                                             1
    drive to school
                                                                                             1
##
    Have the student sleep more and work less (on school stuff).
                                                                                             1
##
   (Other)
                                                                                             6
```



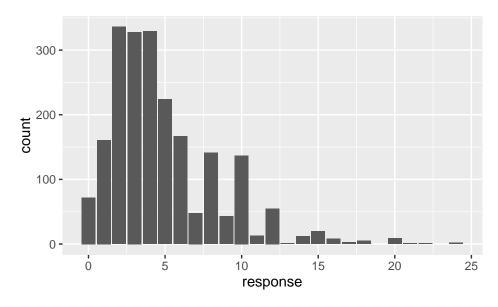
Q30. How do you care for a sick child?

```
I bring the child to work
                                 I stay home
                                               Another adult stays home
##
    Always
                              Always
                                          34
                                               Always
                                                             9
##
   Never
                              Never
                                          10
                                               Never
                                                            25
                77
##
    Sometimes:
                 5
                              Sometimes:
                                          42
                                               Sometimes: 52
   NA's
            :2082
                              NA's
                                       :2082
                                               NA's
                                                         :2082
##
##
    Send the child to school sick Take the child to a relative or friends
##
##
    Always
                                  Always
                                           :
                                               7
                 3
##
   Never
             : 60
                                  Never
                                              33
##
    Sometimes: 23
                                  Sometimes:
                                              46
##
    NA's
             :2082
                                  NA's
                                           :2082
##
##
          Other
                                             Other text
                                                  :2165
##
    Always
                 1
##
    Never
                14
                     adult child
                     Hes old enough to stay alone:
##
    Refused :
                68
                 3
                     my children are grown
    Sometimes:
   NA's
##
             :2082
```



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

```
##
         Q31
                        Q31_Codes
##
            : 0.000
                      Refused: 52
    1st Qu.: 2.000
                              :2116
##
                      NA's
    Median : 4.000
##
##
    Mean
            : 4.868
##
    3rd Qu.: 6.000
##
            :24.000
    Max.
##
    NA's
            :52
```



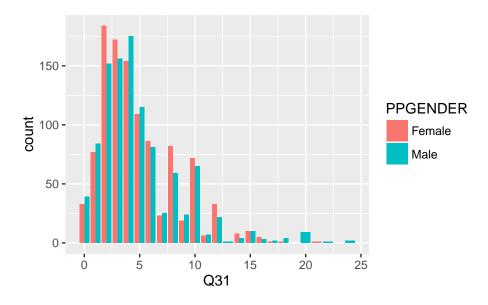
```
## Source: local data frame [43 x 3]
```

Groups: Q31 [?]

##

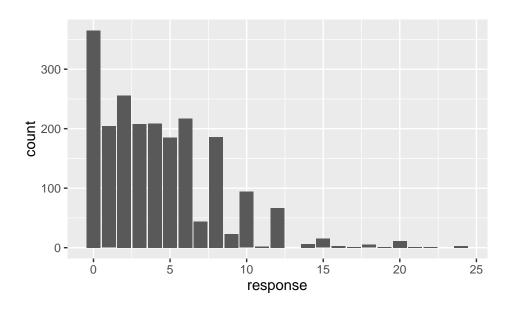
Q31 PPGENDER count

```
##
       (int)
                (fctr) (int)
## 1
                Female
                            33
           0
## 2
                  Male
                            39
           0
## 3
                Female
                           77
           1
## 4
           1
                  Male
                           84
## 5
           2
                Female
                          184
           2
## 6
                  Male
                          152
## 7
           3
                Female
                          172
## 8
           3
                  Male
                          156
## 9
           4
                {\tt Female}
                          154
## 10
           4
                  Male
                          175
## ..
                    . . .
                           . . .
         . . .
```



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

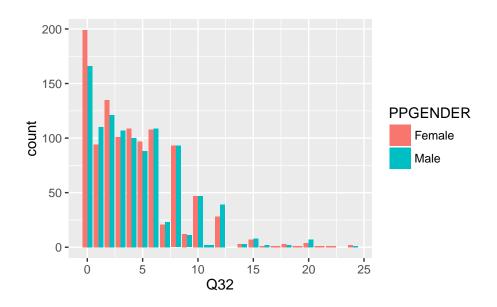
```
Q32
                        Q32_Codes
##
##
    Min.
           : 0.000
                      Refused: 61
##
    1st Qu.: 1.000
                      NA's
                            :2107
##
    Median : 4.000
           : 4.267
##
    Mean
##
    3rd Qu.: 6.000
           :24.000
##
    Max.
##
    NA's
           :61
```



Source: local data frame [43 x 3]

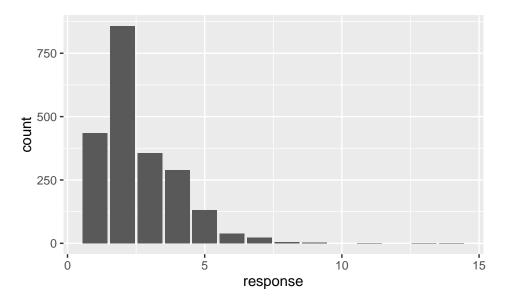
Groups: Q32 [?]

Q32 PPGENDER count ## ## (int) (fctr) (int) ## 1 0 Female 199 ## 2 Male 166 0 ## 3 1 Female 94 ## 4 Male 1 110 ## 5 2 Female 135 2 ## Male 121 ## 3 ${\tt Female}$ 101 ## 8 Male 107 ## 9 4 Female 109 ## 10 Male 100 ## ..

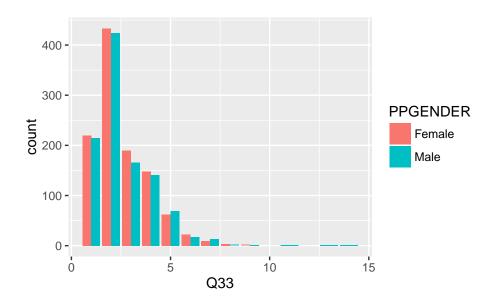


Q33. How many people, including yourself, reside in your household?

```
Q33_Codes
##
         Q33
                     Refused: 28
##
    Min.
           : 1.00
##
    1st Qu.: 2.00
                    NA's
                            :2140
##
    Median : 2.00
##
    Mean
           : 2.58
##
    3rd Qu.: 3.00
##
   Max.
           :14.00
##
    NA's
           :28
```



```
## Source: local data frame [23 x 3]
## Groups: Q33 [?]
##
##
        Q33 PPGENDER count
##
      (int)
               (fctr) (int)
## 1
                         220
           1
               Female
## 2
          1
                 Male
                         215
## 3
          2
               Female
                         433
## 4
                         424
          2
                 Male
## 5
          3
               Female
                         190
## 6
          3
                 Male
                         166
## 7
          4
               Female
                         148
## 8
           4
                 Male
                         141
## 9
          5
               Female
                          62
## 10
          5
                 Male
                          69
## ..
                  . . .
                         . . .
```



Household members

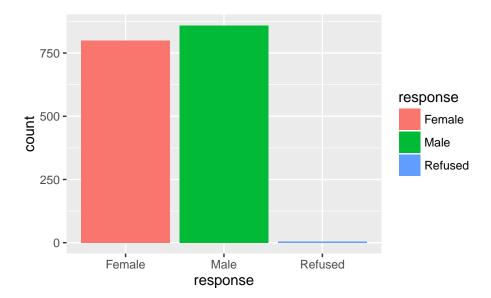
```
##
         Q35
                       Q36
                                       Q36_Codes
                                                          Q37
   Female:799
                  Min. :0.000
                                  Don_t know: 61
                                                     Min. :0.000
##
    Male :859
                  1st Qu.:0.000
                                  Refused
                                           : 5
                                                     1st Qu.:0.000
##
    Refused: 5
                  Median :4.000
                                                     Median :2.000
##
                                  NA's
                                             :2102
##
    NA's :505
                  Mean :2.873
                                                     Mean :2.098
                  3rd Qu.:5.000
##
                                                     3rd Qu.:3.000
##
                        :7.000
                                                           :7.000
                  Max.
                                                     Max.
##
                  NA's
                         :571
                                                     NA's
                                                            :663
                           Q38
                                             Q38_Codes
##
         Q37_Codes
    Don_t know: 143
                                       Don_t know: 58
##
                      Min. :0.0000
    Refused: 15
##
                      1st Qu.:0.0000
                                       Refused: 19
##
    NA's
              :2010
                      Median :0.0000
                                       NA's
                                                  :2091
##
                      Mean :0.3909
##
                      3rd Qu.:0.0000
##
                      Max. :7.0000
                      NA's
                             :582
##
##
                         Q39
                                              Q40
                                                                Q41
##
    Don_t know
                           : 84
                                  1 to 2 times :1025
                                                        Never
                                                                  :807
##
    Less than once per year:222
                                  3 to 5 times : 271
                                                        Once
                                                                  :400
##
    More than once per year:593
                                  Never
                                              : 226
                                                        2 times
                                                                  :191
##
    Never
                           :100
                                  Don_t know : 87
                                                        Don_t know:158
    Once per year
##
                           :656
                                                   32
                                                        3 times
                                                                  : 60
                                  6 to 10 times:
    Refused
                                  (Other)
##
                           : 8
                                                   22
                                                        (Other)
                                                                  : 47
##
    NA's
                           :505
                                  NA's
                                               : 505
                                                        NA's
                                                                  :505
##
                Q42
##
    Don_t know
                  :166
                  :567
##
    No, never
##
    Refused
                  : 6
##
   Yes, always
                  :661
##
    Yes, sometimes:263
##
    NA's
                  :505
##
```

```
##
         Q43
                          Q44
                                           Q44_Codes
                                                               Q45
                            :0.000
##
                                      Don_t know:
                                                         {\tt Min.}
                                                                 :0.000
    Female: 388
                                                    40
                    Min.
                    1st Qu.:1.000
##
    Male
            : 431
                                      Refused
                                                     3
                                                         1st Qu.:1.000
                    Median :5.000
##
    Refused:
                                                 :2125
                                                         Median :2.000
                9
                                      NA's
##
    NA's
            :1340
                    Mean
                            :3.669
                                                         Mean
                                                                 :2.395
##
                    3rd Qu.:5.000
                                                         3rd Qu.:4.000
##
                    Max.
                            :7.000
                                                         Max.
                                                                 :7.000
                    NA's
                                                         NA's
##
                            :1383
                                                                 :1419
##
         Q45_Codes
                             Q46
                                                Q46_Codes
##
    Don_t know: 70
                       Min.
                               :0.0000
                                          Don_t know: 42
##
    Refused
                   9
                        1st Qu.:0.0000
                                          Refused
                                                         9
##
    NA's
               :2089
                       Median :0.0000
                                          NA's
                                                     :2117
##
                       Mean
                               :0.5727
##
                        3rd Qu.:0.0000
##
                       Max.
                               :7.0000
##
                        NA's
                               :1391
##
                           Q47
                                                  Q48
                                                                     Q49
##
    Don_t know
                                55
                                      1 to 2 times : 490
                                                             Never
                                                                        : 403
    Less than once per year: 125
##
                                      3 to 5 times : 153
                                                             Once
                                                                          183
##
    More than once per year: 232
                                      Never
                                                    :
                                                       83
                                                             Don t know:
##
    Never
                             : 59
                                      Don_t know
                                                       66
                                                             2 times
                                                                           91
##
    Once per year
                             : 353
                                      6 to 10 times:
                                                       25
                                                             3 times
                                                                           32
    Refused
##
                                                             (Other)
                                  4
                                      (Other)
                                                    : 11
                                                                           26
##
    NA's
                             :1340
                                      NA's
                                                    :1340
                                                             NA's
                                                                        :1340
##
                 Q50
##
    Don_t know
                   : 100
##
    No, never
                   : 317
##
    Refused
                       4
                   : 275
##
    Yes, always
    Yes, sometimes: 132
##
    NA's
                   :1340
##
```

HHM1

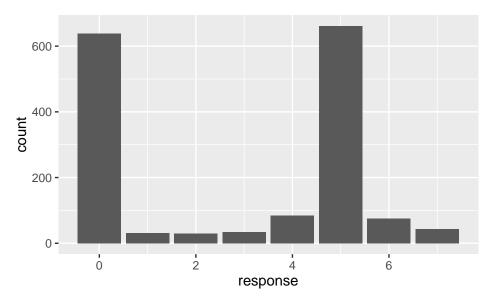
Q35. What is the gender of this member of the household? Remember, this relates to HHM1_Name who is HHM1_AGE years old.

```
## Q35
## Female :799
## Male :859
## Refused: 5
## NA's :505
```



Q36. On average, how many days per week does this member of your household work or attend day care or school outside of your home?

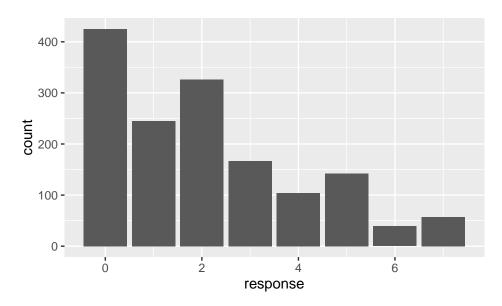
```
##
         Q36
                           Q36\_Codes
##
    Min.
            :0.000
                     Don_t know: 61
##
    1st Qu.:0.000
                     Refused
                                    5
##
    Median :4.000
                     NA's
                                :2102
            :2.873
##
    Mean
##
    3rd Qu.:5.000
##
    Max.
            :7.000
##
    NA's
            :571
```



Q37. On average, how many days per week does this member of your household participate in social activities outside of your home?

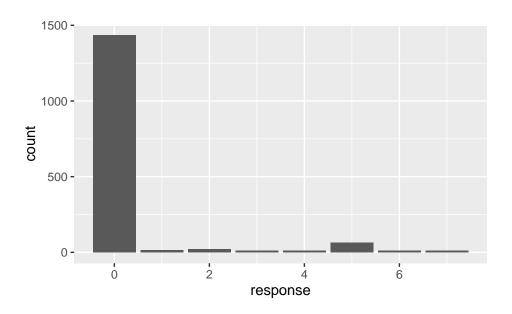
Q37 Q37_Codes

```
##
   Min.
           :0.000
                   Don_t know: 143
##
   1st Qu.:0.000
                   Refused
                             : 15
                              :2010
##
   Median :2.000
##
   Mean
           :2.098
    3rd Qu.:3.000
##
           :7.000
##
   Max.
##
   NA's
           :663
```



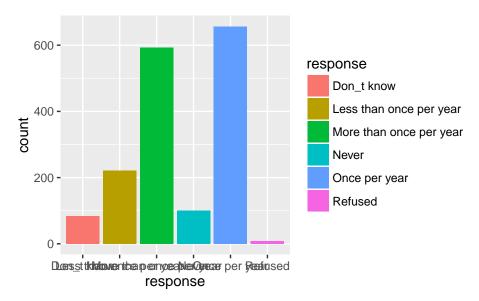
 $\mathbf{Q38}$. On average, how many days per week does this member of your household use public transportation?

##	Q3	38	Q38_Codes			
##	Min.	:0.0000	Don_t kno	w:	58	
##	1st Qu.	:0.0000	Refused	:	19	
##	Median	:0.0000	NA's	:2	091	
##	Mean	:0.3909				
##	3rd Qu.	:0.0000				
##	Max.	:7.0000				
##	NA's	:582				



Q39. How frequently does this member of your household visit a doctor's office for wellness appointments?

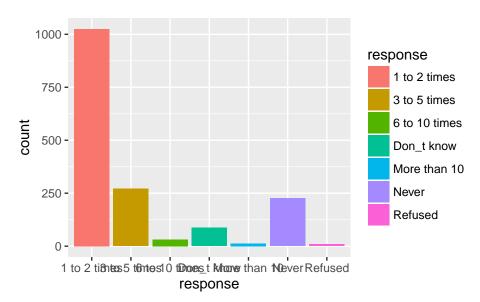
```
##
                          Q39
##
                            : 84
    Don_t know
##
    Less than once per year:222
    More than once per year:593
##
##
    Never
                            :100
                            :656
##
    Once per year
##
    Refused
                            : 8
    NA's
##
                            :505
```



Q40. How frequently does this member of the household get sick in a typical year?

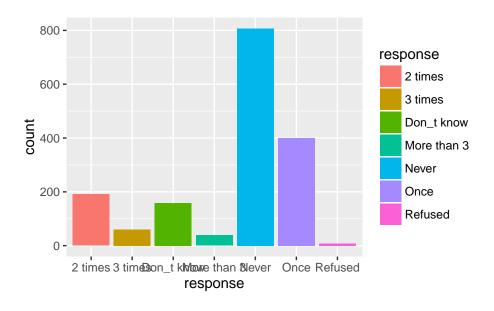
Q40

```
1 to 2 times :1025
##
   3 to 5 times : 271
##
   Never
##
   Don_t know
                 : 87
   6 to 10 times:
                    32
##
##
   (Other)
                    22
##
   NA's
                 : 505
```



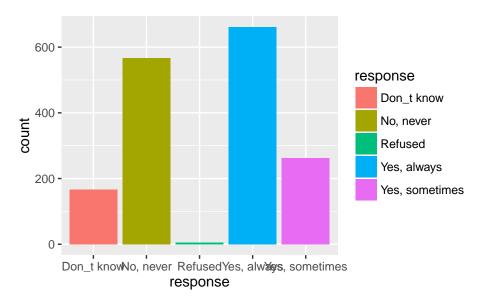
Q41. How many times has this member of your household had influenza or another respiratory illness in the last two years?

Q41 ## ## Never :807 ## Once :400 ## 2 times :191 ## Don_t know:158 ## 3 times : 60 ## (Other) : 47 ## NA's :505



Q42. Does this member of your household get an annual influenza vaccine?

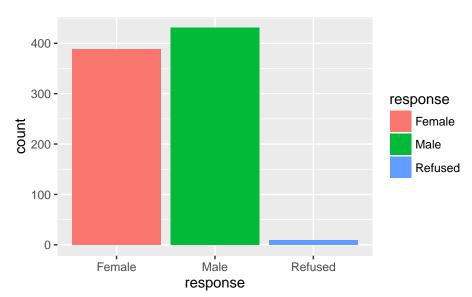
```
##
                 Q42
##
    Don_t know
                   :166
    No, never
                   :567
##
    Refused
##
                   : 6
    Yes, always
                   :661
##
    Yes, sometimes:263
    NA's
##
                   :505
```



HHM2

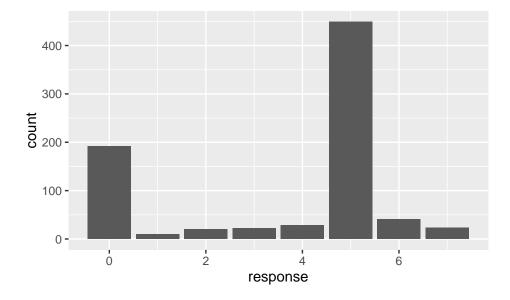
Q43. What is the gender of this member of the household? Remember, this relates to $HHM1_Name$ who is $HHM1_AGE$ years old.

Q43 ## Female : 388 ## Male : 431 ## Refused: 9 ## NA's :1340



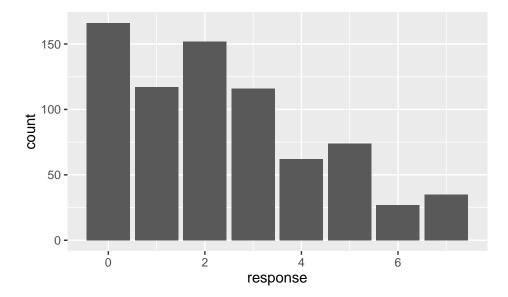
Q44. On average, how many days per week does this member of your household work or attend day care or school outside of your home?

Q44_Codes ## Q44 ## Min. :0.000 Don_t know: 40 1st Qu.:1.000 ## Refused ## Median :5.000 NA's :2125 ## Mean :3.669 ## 3rd Qu.:5.000 :7.000 ## Max. ## NA's :1383



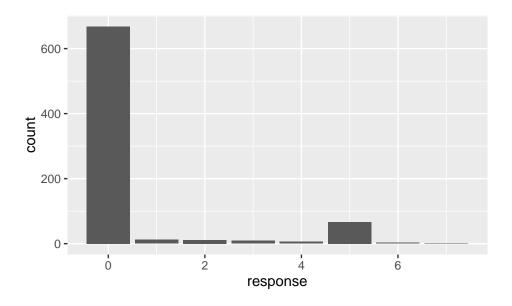
Q45. On average, how many days per week does this member of your household participate in social activities outside of your home?

```
##
         Q45
                          Q45\_Codes
                     Don_t know: 70
##
    Min.
           :0.000
##
    1st Qu.:1.000
                     Refused
                               : 9
##
    Median :2.000
                     NA's
                               :2089
##
    Mean
           :2.395
    3rd Qu.:4.000
##
##
    Max.
           :7.000
##
    NA's
           :1419
```



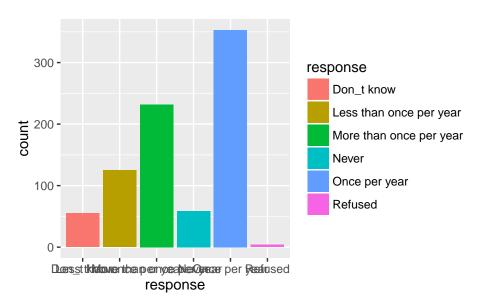
Q46. On average, how many days per week does this member of your household use public transportation?

```
##
         Q46
                           Q46_Codes
                      Don_t know: 42
##
    Min.
           :0.0000
##
    1st Qu.:0.0000
                      Refused
    Median :0.0000
                      NA's
                                 :2117
##
           :0.5727
##
    Mean
    3rd Qu.:0.0000
##
           :7.0000
##
    Max.
    NA's
           :1391
```



Q47. How frequently does this member of your household visit a doctor's office for wellness appointments?

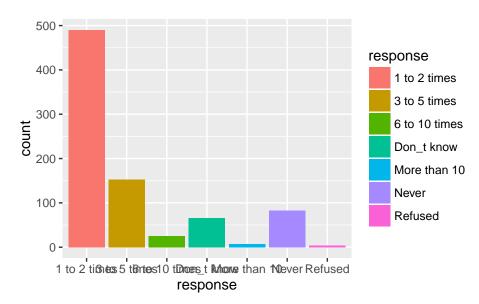
```
##
                          Q47
##
    Don_t know
    Less than once per year: 125
##
   More than once per year: 232
##
##
    Never
                            : 59
                            : 353
##
    Once per year
##
    Refused
                                4
    NA's
##
                            :1340
```



Q48. How frequently does this member of the household get sick in a typical year?

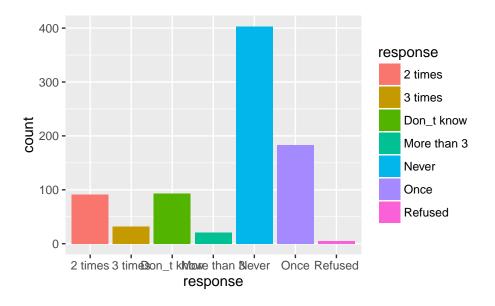
Q48

```
1 to 2 times : 490
##
   3 to 5 times : 153
##
  Never
##
  Don_t know
                   66
   6 to 10 times:
                   25
##
##
   (Other)
                : 11
##
   NA's
                :1340
```



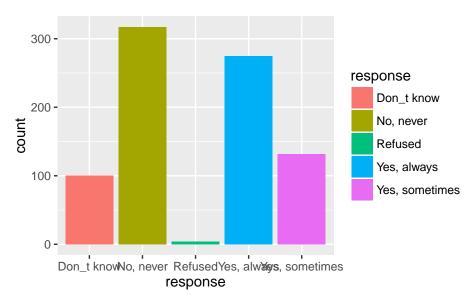
Q49. How many times has this member of your household had influenza or another respiratory illness in the last two years?

Q49 ## Never : 403 ## : 183 Once ## Don_t know: 93 2 times ## 91 ## 3 times 32 ## (Other) : 26 ## NA's :1340



Q50. Does this member of your household get an annual influenza vaccine?

```
##
                 Q50
##
                   : 100
    Don_t know
##
    No, never
                   : 317
##
    Refused
    Yes, always
                   : 275
##
    Yes, sometimes: 132
##
##
    NA's
                   :1340
```



Working analysis

```
#' Q1 vs. Q13 table
#' Knowing influenza is different from stomach flu; vs. getting the flu vaccine
```

```
a = with(data, table(Q1, Q13))
print(a)
```

```
##
            Q13
             No, never Refused Yes, every year Yes, some years
## Q1
##
     No
                    260
                              4
                                             143
                                                               81
##
     Refused
                      2
                             10
                                               4
                                                                0
     Yes
                    557
                              4
                                             761
                                                              342
##
```

summary(a)

```
## Number of cases in table: 2168
## Number of factors: 2
## Test for independence of all factors:
## Chisq = 813.4, df = 6, p-value = 1.981e-172
## Chi-squared approximation may be incorrect
```

to-do:

- need to remove NA's
- ggplot(q7) + geom_bar(aes(x = option, fill = response), position = "dodge")
- $ggplot(data = data) + geom_bar(mapping = aes(x = Q1)) + stat_sum()$