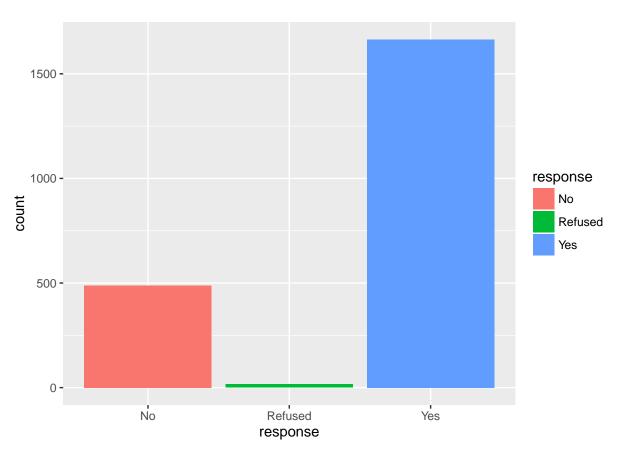
# flu survey

# Summary tables & plots

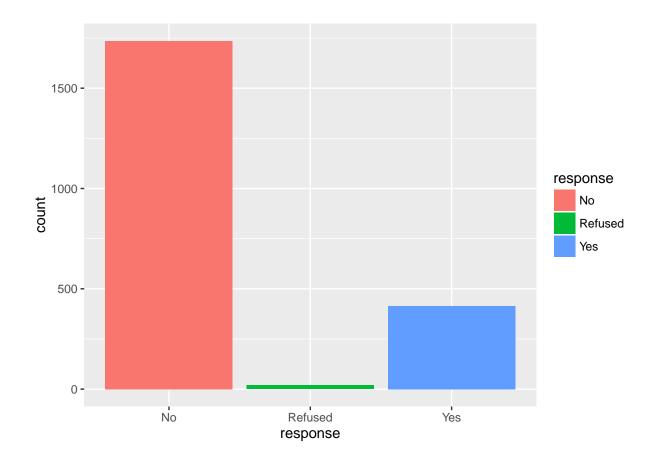
Q1. Before receiving this survey, did you know influenza is different from the stomach flu?

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



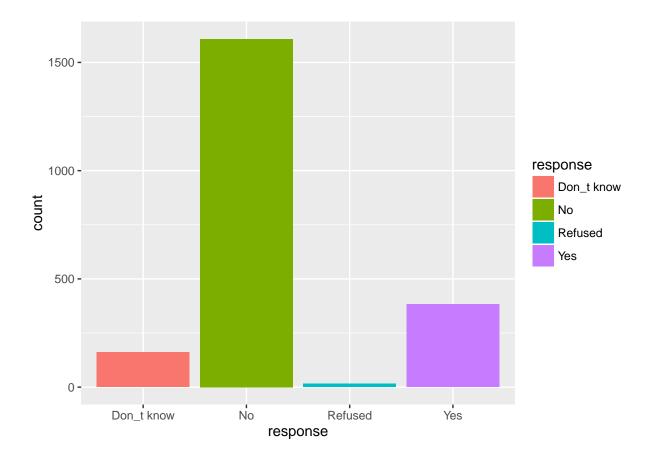
Q2. Have you had an illness with influenza like symptoms since August 2015?

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



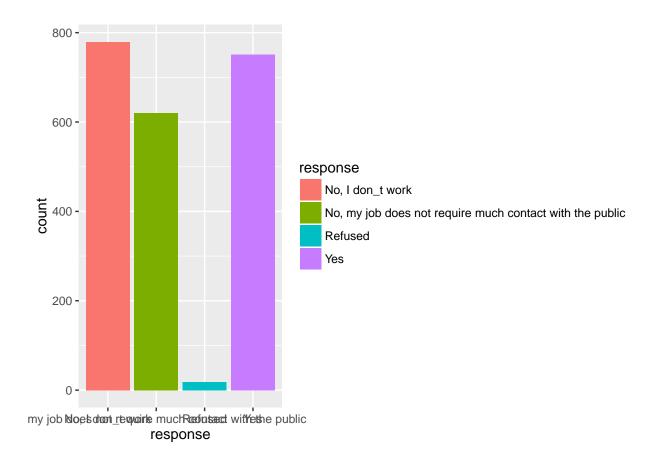
Q3. Has any other person in your household had an illness with influenza like symptoms since August 2015?

## Q3 ## Don\_t know: 161 ## No :1608 ## Refused : 16 ## Yes : 383



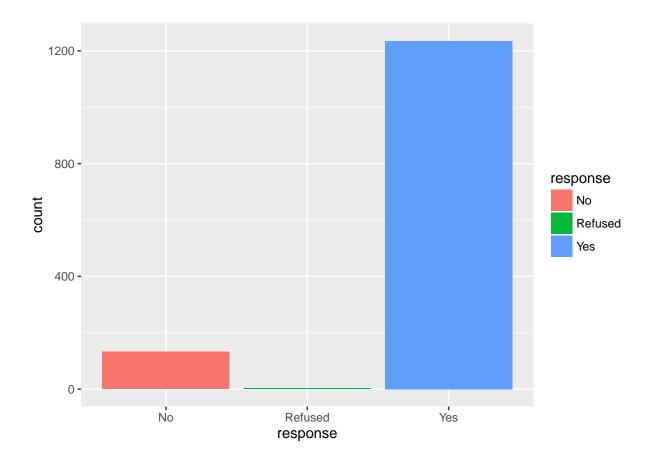
# Q4. Does your job require you to have a lot of contact with the public?

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



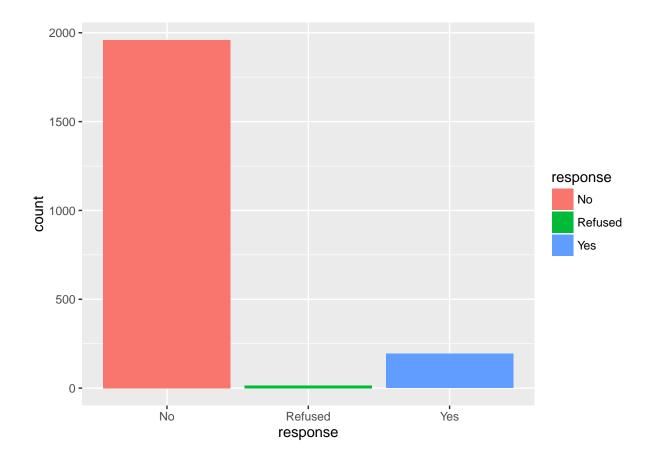
# Q5. Do you have a car that you can use to travel to work?

## 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?



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

1

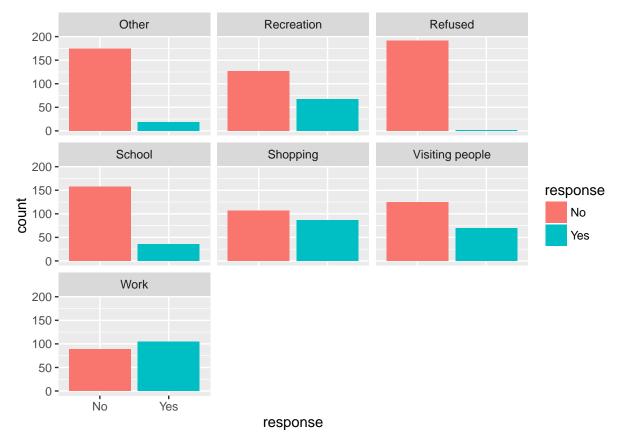
10

Horse

(Other)

##

##



School 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

## ## ##

##

Work

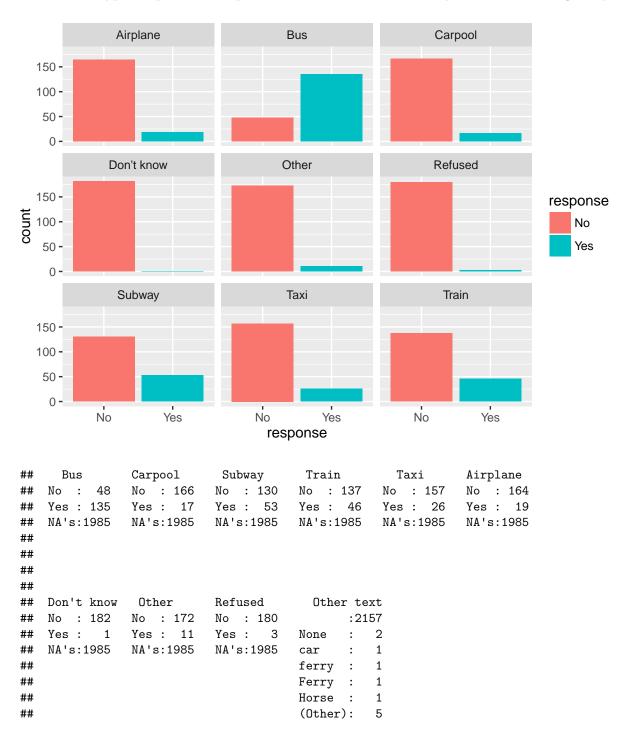
## Refused Other text ## Other :2149 ## No : 175 No : 192

Yes: 19 Yes: 2 church, adult ed NA's:1974 ## NA's:1974 doc. app. 1 ## Doctor ## doctor visits ## Doctor's appointments: 1 ## (Other)

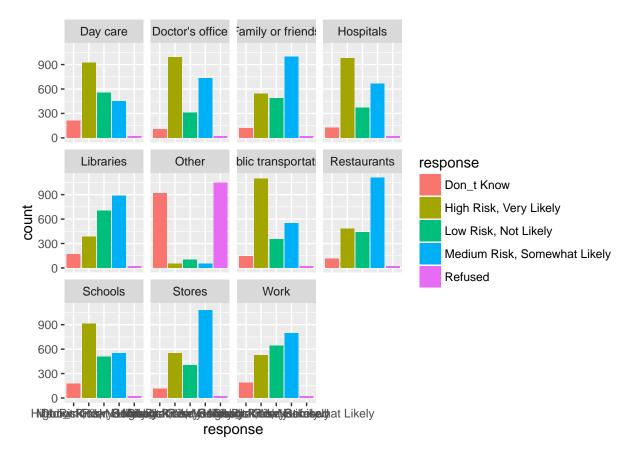
## Q9. Do other members of your household regularly use public transportation?

## Q9 ## Don\_t know: 32 :1935 ## No ## Refused : 18 ## Yes : 183 14

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?



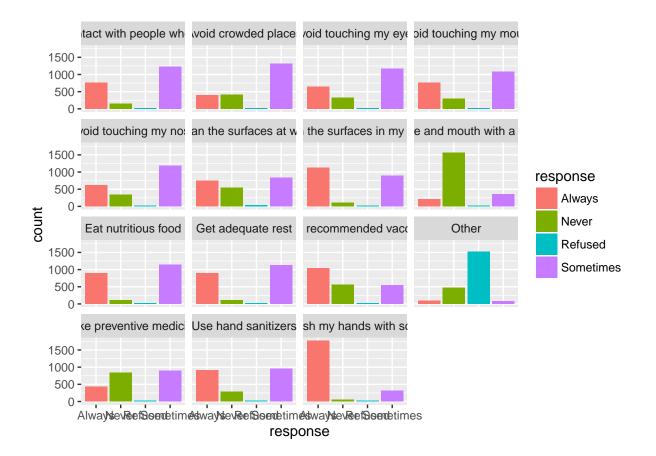
##	,	Work		Schools
##	Don t Know	:185	Don t Know	:178
##	High Risk, Very Likely	:524	High Risk, Very Likely	:909
##	Low Risk, Not Likely			
##	Medium Risk, Somewhat Likely:795		Medium Risk, Somewhat Likely:551	
##	Refused	: 21	Refused	: 22
##				
##				
##	Da	y care		Stores
##	Don_t Know	:214	Don_t Know	: 115
##	High Risk, Very Likely	:924	High Risk, Very Likely	: 551
##	Low Risk, Not Likely	:554	Low Risk, Not Likely	: 405
##	Medium Risk, Somewhat Likely:454		Medium Risk, Somewhat Likely: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 Likely:1111		•	
##	Refused	: 21	Refused	: 23
##				
##				
##	•	pitals		tor's office
##	Don_t Know	:123	Don_t Know	:110
##	High Risk, Very Likely	:982	High Risk, Very Likely	:994

```
## Low Risk, Not Likely
                                       Low Risk, Not Likely
                                :374
   Medium Risk, Somewhat Likely:669
##
                                       Medium Risk, Somewhat Likely: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
##
##
##
                       Family or friends
                                                                   Other
##
  Don_t Know
                                : 121
                                         Don_t Know
                                                                      : 915
   High Risk, Very Likely
                                : 541
                                         High Risk, Very Likely
                                                                      : 51
  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:
##
   none
##
    gym
               7
   n/a
   (Other): 126
```

## Q13. Do you get the flu vaccine?

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

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
             : 324
                                                             : 300
##
    Never
                           Never
                                     : 349
                                                   Never
##
    Refused: 23
                           Refused: 23
                                                   Refused :
                                                               25
##
    Sometimes:1168
                           Sometimes:1183
                                                   Sometimes: 1085
##
##
##
##
    Wash my hands with soap Use hand sanitizers Clean the surfaces in my home
    Always
##
             :1774
                            Always
                                      :911
                                                 Always
                                                           :1132
    Never
             : 52
                            Never
                                      :278
                                                 Never
                                                           : 115
##
   Refused : 25
##
                            Refused : 22
                                                 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
##
   Always
             :1041
                            Always
                                      :425
```

:831

Never

Never

##

: 564

```
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
##
##
            : 765
                                           Always
                                                    : 406
   Always
##
   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
##
   Sometimes: 87
                     avoid sick people:
                                          3
##
                                          3
                     N/A
##
                                          3
                     nothing
##
                     (Other)
                                      : 126
```

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

```
## $0 :970
## $30 to $60 : 54
## Don_t know : 80
## 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?

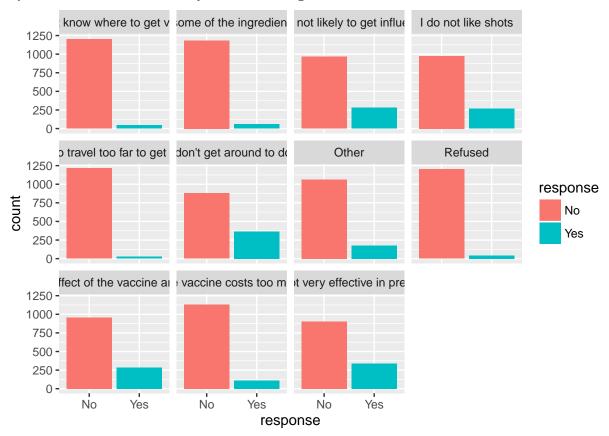
```
## Q15
## No, less likely: 70
## No, no effect :878
## Refused : 2
## Yes, more likely:381
## NA's :837
```

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
```

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?



## 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 :878
## No :976
## 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
```

```
## Always get sick when I get the shot : 1
## because
## because i get treatments to lower and over active immune system.: 1
## (Other) : 170
```

#### Q19. Do you have health insurance?

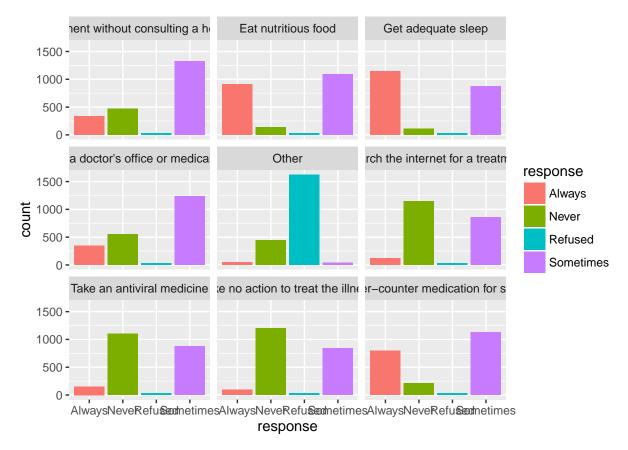
```
## Q19
## No : 154
## Refused: 20
## Yes :1994
```

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

```
## Q20
## Don_t know :228
## It varies from season to season:433
## Not effective :144
## Refused : 19
## Somewhat effective :961
## Very effective :383
```

## Q21. Are influenza vaccines covered by your health insurance?

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



```
Go to a doctor's office or medical clinic
##
    Always
            : 349
   Never
             : 552
##
##
    Refused: 32
    Sometimes:1235
##
##
##
##
##
    Decide on treatment without consulting a health practitioner
    Always
            : 335
##
##
   Never
             : 473
##
    Refused: 31
##
    Sometimes:1329
##
##
##
    Search the internet for a treatment Get adequate sleep
##
            : 126
                                        Always
##
   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

##

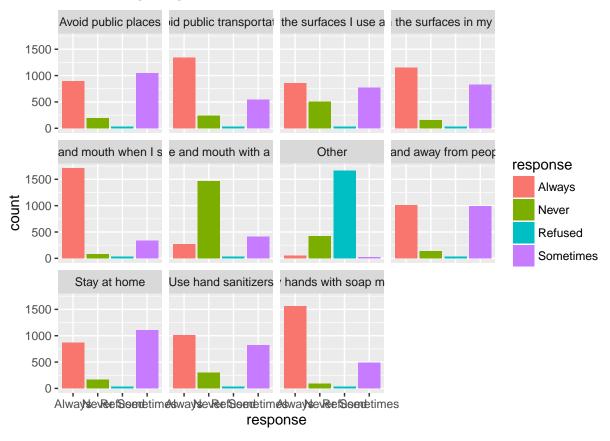
: 135

Never

: 210

```
Refused: 33
                         Refused: 32
##
    Sometimes: 1091
                         Sometimes:1130
##
##
##
##
    Take an antiviral medicine Take no action to treat the illness
##
    Always
                                Always
                                             96
             : 153
    Never
##
             :1103
                                Never
                                          :1199
    Refused: 35
##
                                Refused
                                             34
    Sometimes: 877
                                Sometimes: 839
##
##
##
##
##
          Other
                                        Other text
##
             : 54
                                              :2046
    Always
##
    Never
             : 448
                     none
                                                  6
##
    Refused :1628
                                                  2
                     dont know
##
    Sometimes: 38
                     drink lots of fluids
##
                     eat chicken noodle soup:
                                                  2
##
                     n/a
##
                      (Other)
                                              : 108
```

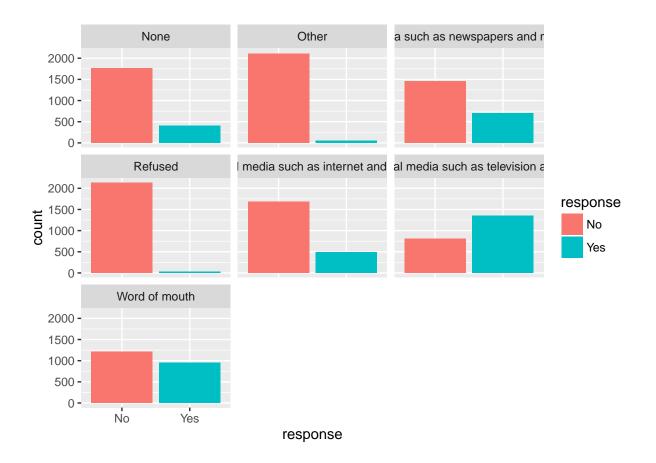
Q23. Which of the following actions do you take when you have influenza symptoms to avoid someone else from getting sick?



## Stand away from people Avoid public places Avoid public transportation

```
Always
             :1006
                           Always
                                    : 897
                                               Always
                                                        :1342
                                    : 196
##
   Never
             : 135
                           Never
                                               Never
                                                        : 245
   Refused: 31
                           Refused: 31
##
                                               Refused: 31
   Sometimes: 996
                           Sometimes:1044
                                               Sometimes: 550
##
##
##
##
                     Wash my hands with soap more often Use hand sanitizers
##
       Stay at home
                              :1559
##
   Always
            : 869
                     Always
                                                        Always
                                                                  :1014
   Never
                              : 92
                                                                  : 299
##
             : 163
                     Never
                                                        Never
   Refused : 30
                     Refused: 29
                                                        Refused :
                                                                    30
##
   Sometimes:1106
                     Sometimes: 488
                                                        Sometimes: 825
##
##
##
##
   Clean the surfaces in my home Clean the surfaces I use at work
##
   Always
                                  Always
                                           :856
             :1151
                                           :508
##
   Never
             : 153
                                  Never
##
   Refused : 32
                                  Refused: 32
   Sometimes: 832
##
                                  Sometimes:772
##
##
##
##
   Cover my nose and mouth with a surgical mask
           : 267
##
   Always
  Never
             :1463
##
   Refused: 29
##
   Sometimes: 409
##
##
##
##
   Cover my nose and mouth when I sneeze or cough
                                                         Other
##
   Always
            :1717
                                                   Always
                                                             : 54
##
  Never
             : 81
                                                             : 421
                                                   Never
##
   Refused :
               29
                                                   Refused: 1665
   Sometimes: 341
##
                                                   Sometimes: 28
##
##
##
          Other text
##
##
              :2078
##
   none
                   3
##
   stay in bed:
                   2
##
  dont know
                   2
## na
## never had
                   2
## (Other)
                  75
```

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 text
    Other
               Refused
   No :2114
               No :2138
                                      :2114
               Yes: 30
                          CDC
##
    Yes: 54
```

```
## doctor : 2
## Internet : 2
## Online news: 2
## work : 2
## (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
                                                       :1221
##
   Always
           : 649
                           Always
                                   : 648
                                               Alwavs
             : 217
                                    : 270
   Never
                           Never
                                               Never
                                                        : 268
##
##
   Refused: 34
                           Refused: 33
                                               Refused: 36
                                               Sometimes: 643
##
   Sometimes:1268
                           Sometimes:1217
##
##
##
##
                    Wash my hands with soap more often Use hand sanitizers
      Stay at home
##
   Always
            : 484
                     Always
                              :1477
                                                        Always
                                                                 :1077
             : 429
                                                                 : 257
##
   Never
                     Never
                              : 99
                                                        Never
##
   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
                                                               32
   Never
                                                   Never
                                                            : 393
                                                   Refused :1722
   Refused: 36
##
   Sometimes: 399
                                                   Sometimes: 21
##
##
##
##
##
        Other text
            :2100
##
##
  none
   nothing :
```

```
## n/a : 2
## stay home: 2
## - : 1
## (Other) : 51
```

#### Q26. Does your household have children?

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

#### 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
            : 90
## Never
## Refused :
## Sometimes: 285
##
   NA's
         :1592
##
##
  Keep the child out of school/daycare
##
  Always
           : 377
##
## Never
            : 46
## Refused : 4
##
   Sometimes: 149
##
   NA's
           :1592
##
##
   Stop child's social activities like play dates
                                                       Other
##
  Always
           : 388
                                                 Always
                                                          : 12
##
  Never
                                                 Never
  Refused :
                                                 Refused: 459
##
   Sometimes: 144
                                                 Sometimes: 12
##
  NA's :1592
                                                 NA's
                                                         :1592
##
##
##
                                                               Other text
##
                                                                    :2147
## Consult with the child's doctors.
                                                                        1
##
   crawling on floor
                                                                        1
## Depending on symptoms id have him wear a mask to help us not get it:
## doctor visit
                                                                        1
## give supplements & herbs
                                                                        1
## (Other)
                                                                       16
```

## Q28. Are you a single parent?

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

#### Q29. How do you care for a sick child?

```
A parent brings the child to work A parent stays home
                                     Always
##
   Never
             : 438
                                     Never
                                                 27
##
   Refused
                                     Refused
            :
##
   Sometimes: 41
                                     Sometimes: 193
##
            :1678
                                     NA's
                                              :1678
##
##
##
   Another adult stays home Send the child to school sick
##
   Always
           : 68
                            Always
                                     : 1
   Never
            : 202
                            Never
                                     : 414
##
##
   Refused: 4
                            Refused :
##
   Sometimes: 216
                            Sometimes: 70
##
  NA's
           :1678
                            NA's
                                     :1678
##
##
##
   Take the child to a relative or friends
                                                 Other
           :
##
  Always
                8
                                           Always
##
   Never
            : 292
                                           Never
                                                       76
##
   Refused :
                                           Refused: 404
   Sometimes: 186
                                           Sometimes:
##
  NA's
           :1678
                                           NA's
                                                    :1678
##
##
##
                                                                                  Other text
##
                                                                                       :2157
## Because of proper diets and physical training my family stays healthy the year round:
## Child stays home alone
## 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
            :
                4
                                             Always
  Never
                             Never
##
            : 77
                                             Never
                                                      : 25
                                      : 10
   Sometimes:
                             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 : 3
                                        :
                                             7
## 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
```

```
## Sometimes: 3 my children are grown : 1 ## 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
##
    Min.
           : 0.000
                     Refused: 52
    1st Qu.: 2.000
##
                     NA's
                            :2116
   Median : 4.000
##
   Mean
           : 4.868
##
    3rd Qu.: 6.000
##
  Max.
           :24.000
   NA's
           :52
```

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

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

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

## Household members

```
##
         Q35
                        Q36
                                         Q36_Codes
                                                             Q37
                                                               :0.000
##
    Female:799
                          :0.000
                   Min.
                                    Don_t know:
                                                  61
                                                       Min.
##
    Male
           :859
                   1st Qu.:0.000
                                    Refused
                                                   5
                                                       1st Qu.:0.000
    Refused: 5
                   Median :4.000
                                               :2102
                                                       Median :2.000
##
                                    NA's
##
    NA's
           :505
                          :2.873
                                                       Mean
                                                               :2.098
                   Mean
                   3rd Qu.:5.000
##
                                                       3rd Qu.:3.000
##
                   Max.
                          :7.000
                                                       Max.
                                                               :7.000
                                                       NA's
##
                   NA's
                           :571
                                                               :663
##
         Q37_Codes
                                               Q38_Codes
                            Q38
   Don_t know: 143
                      Min.
                               :0.0000
                                         Don_t know: 58
```

```
1st Qu.:0.0000
              : 15
                                        Refused
                                                  : 19
##
   NA's
              :2010
                      Median :0.0000
                                        NA's
                                                  :2091
                      Mean :0.3909
##
##
                      3rd Qu.:0.0000
##
                      Max. :7.0000
                             :582
##
                      NA's
##
                         039
                                              040
                                                                041
##
                                                                   :807
   Don_t know
                           : 84
                                   1 to 2 times :1025
                                                        Never
                                   3 to 5 times : 271
##
   Less than once per year:222
                                                        Once
                                                                   :400
##
                                   Never
                                               : 226
                                                        2 times
                                                                   :191
   More than once per year:593
   Never
                           :100
                                   Don_t know
                                              : 87
                                                        Don_t know:158
   Once per year
##
                           :656
                                   6 to 10 times:
                                                   32
                                                        3 times
                                                                   : 60
   Refused
                            : 8
##
                                   (Other)
                                                   22
                                                        (Other)
                                                                   : 47
   NA's
                                   NA's
##
                            :505
                                                : 505
                                                        NA's
                                                                   :505
##
                Q42
##
   Don_t know
                  :166
##
   No, never
                  :567
##
   Refused
                  : 6
   Yes, always
                  :661
##
   Yes, sometimes: 263
##
   NA's
                  :505
##
##
         Q43
                        Q44
                                        Q44_Codes
                                                           Q45
   Female: 388
                   Min. :0.000
                                   Don t know: 40
                                                      Min. :0.000
##
##
   Male
          : 431
                   1st Qu.:1.000
                                   Refused
                                                  3
                                                      1st Qu.:1.000
   Refused:
                   Median :5.000
                                              :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
                          :1383
                                                      NA's
                                                             :1419
##
         Q45_Codes
                           Q46
                                             Q46_Codes
##
   Don_t know: 70
                      Min. :0.0000
                                        Don_t know: 42
   Refused
                      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 \text{ to } 2 \text{ times} : 490
                                                                   : 403
                                                         Never
   Less than once per year: 125
                                    3 to 5 times : 153
                                                         Once
  More than once per year: 232
                                   Never
                                                         Don t know:
                                                                      93
##
                                                 : 83
##
   Never
                                    Don t know
                                                 : 66
                                                         2 times
                                                                       91
                           : 59
##
   Once per year
                            : 353
                                    6 to 10 times: 25
                                                         3 times
                                                                      32
   Refused
                            : 4
                                    (Other)
                                                 : 11
                                                         (Other)
                                                                    : 26
##
   NA's
                            :1340
                                   NA's
                                                 :1340
                                                         NA's
                                                                   :1340
##
                Q50
## Don_t know
                 : 100
## No, never
                  : 317
## Refused
                      4
##
  Yes, always
                  : 275
   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
                               :
##
    Median :4.000
                     NA's
                               :2102
##
   Mean
           :2.873
##
    3rd Qu.:5.000
           :7.000
##
   Max.
    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_Codes
         Q37
##
    Min.
           :0.000
                     Don_t know: 143
##
    1st Qu.:0.000
                     Refused
                              : 15
##
   Median :2.000
                     NA's
                               :2010
##
           :2.098
    Mean
##
    3rd Qu.:3.000
##
           :7.000
    Max.
##
   NA's
           :663
```

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

```
##
         Q38
                           Q38_Codes
##
   Min.
           :0.0000
                      Don_t know:
   1st Qu.:0.0000
                     Refused
                                   19
##
    Median :0.0000
                      NA's
                                :2091
##
    Mean
           :0.3909
##
    3rd Qu.:0.0000
##
   Max.
           :7.0000
## NA's
           :582
```

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

```
##
                         Q39
##
   Don_t know
                           : 84
##
   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
                           Q44_Codes
##
            :0.000
                      Don_t know: 40
    Min.
##
    1st Qu.:1.000
                      Refused
                                     3
                                 :2125
##
   Median :5.000
                      NA's
##
            :3.669
   Mean
##
    3rd Qu.:5.000
##
   {\tt Max.}
            :7.000
##
    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?

```
##
         045
                          Q45_Codes
##
   Min.
           :0.000
                     Don_t know: 70
   1st Qu.:1.000
                     Refused
##
   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
##
           :0.0000
                      Don_t know:
   Min.
##
    1st Qu.:0.0000
                      Refused
                                     9
##
   Median :0.0000
                      NA's
                                 :2117
           :0.5727
   Mean
##
    3rd Qu.:0.0000
##
           :7.0000
    Max.
           :1391
##
   NA's
```

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

```
## Q47

## Don_t know : 55

## Less than once per year: 125

## More than once per year: 232

## Never : 59
```

```
## Once per year : 353
## 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
                    25
## 6 to 10 times:
## (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
              :
##
   Once
                183
## 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

## Don_t know : 100

## No, never : 317

## Refused : 4

## Yes, always : 275

## Yes, sometimes: 132

## NA's :1340
```

# Analysis

#### Q1 vs. Q13 table

Knowing influenza is different from stomach flu; vs. getting the flu vaccine

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

```
## 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, rename columns
# ggplot(q7) + geom_bar(aes(x = option, fill = response), position = "dodge")
# ggplot(data = data) + geom_bar(mapping = aes(x = Q1)) + stat_sum()
```