

Sentiment_analysis

Separate comment in Youtube

```
#install.packages("syuzhet")
library(syuzhet)
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.2
## --

## v ggplot2 3.4.0      v purrr 1.0.1
## v tibble 3.1.8      v stringr 1.5.0
## v tidyr 1.3.0      v forcats 1.0.0
## v readr 2.1.3
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
```

Import file

```
#data = read.csv("ytdata1.csv")
data = read.csv(file.choose(), header = T)
glimpse(data)

## Rows: 229
## Columns: 4
## $ Comment      <chr> "That's very beautiful and was very much helpful for me. T~
## $ ReplyCount   <int> 2, 0, 2, 1, 1, 1, 2, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1~
## $ LikeCount    <int> 0, 0, 1, 0, 0, 0, 6, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0~
## $ PublishedAt  <chr> "01/12/2021", "01/12/2021", "10/29/2020", "09/20/2020", "0~
```

put column text

```
comment = iconv(data$Comment, to = 'utf-8')
comment
```

```
## [1] "That's very beautiful and was very much helpful for me. Thank you so much. Gonna try this out"
## [2] "Do you always use hot pressed paper for ocean scenes?"
## [3] "this is a very beautiful painting... i love it so much"
## [4] "very good and nice painting"
## [5] "Love from india madam"
## [6] NA
## [7] "Started painting with my granddaughter when she was amazed at a scribble I did. Started with F"
## [8] "What is the brand of this fan brush?"
## [9] "I'm in love with your waterscapes, I simply can't stop watching! It is your imagination or di"
## [10] "Thank you soo much!\nBeautiful job and really appreciate the color description"
## [11] "Excellent work where do you get the bottle with that type of applicator?"
## [12] "Wow...beautiful painting....."
## [13] "That's some fantastic work with that fan brush. Mighty pretty."
## [14] "So nice"
## [15] "Wow I just discovered your channel and it's now 3 am and I'm binge watching. Beautiful!"
## [16] "Stunning"
## [17] "Mam, can we paint it without having an artist mask fluid? Please reply.."
## [18] "Plz reply must... I will wait you...."
## [19] "Hello Sir... I don't know how to greet you.... Very beautiful and awesome.... Can you tell m"
## [20] "I love this, I probably will try it. Beautiful work!"
## [21] NA
## [22] "Super"
## [23] "Nice"
## [24] "beautiful!"
## [25] "amazing!"
## [26] "I was noticing that little instrument that you used to apply the masking fluid, and was wond"
## [27] "Stunning!"
## [28] "You got a mason town what your art thank you for sharing that welcome painting of the beach g"
## [29] "Nice drawing"
## [30] "Woow"
## [31] "Maria,\nI commented last Sunday on one of your paintings and I want you to know that your art"
## [32] "very very nice."
## [33] "Omg very very good painting"
## [34] "Speechless!!"
## [35] NA
## [36] NA
## [37] "where did you get your masking fluid container?"
## [38] "super"
## [39] "draw cat"
## [40] NA
## [41] "Hey!\nyour paintings are amazing."
## [42] "Simply superb!!!!"
## [43] "can i use inseed of art masking fluid also pva glue?"
## [44] "Thanks you so much. Your paintings inspired me."
## [45] "Have been watching your painting tutorials for sometime. . You really are a fantastic artist l"
## [46] NA
## [47] "nnnnnniiiiicccceeee work"
## [48] "Lovely painting Maria! How old are you?"
```

[49] "Oh, Maria! You are such an encouragement! I'm just beginning my painting journey at age 67. F
 ## [50] "Lovely but if we need to do it without the mask then how can we do?"
 ## [51] "Beautiful like always"
 ## [52] "It's amazing I love this paintig"
 ## [53] "Totally delightful, Maria! You do have such a talent. But it makes me want to keep on trying!"
 ## [54] "Si gracias maria esta marina la pinte anoche."
 ## [55] NA
 ## [56] NA
 ## [57] "So nice"
 ## [58] "Great work"
 ## [59] "it is so beautiful"
 ## [60] "Thanks for the video..Loved it and painted it..Turned out nice..I wish I could send you the p
 ## [61] "so beautiful!! I love watching it just come to life, right in front of the eyes"
 ## [62] "what is art masking"
 ## [63] NA
 ## [64] "I so enjoy your work and I will learn so much from being a patron. I can't wait to get started
 ## [65] "Beautiful"
 ## [66] "Beautiful painting.....it looks soooo real...:-)"
 ## [67] "Love it !"
 ## [68] "very nice"
 ## [69] "Ma'am I have done this on my canvas.thanks a lot."
 ## [70] "Speechless"
 ## [71] "@maria this painting is awesometoo good"
 ## [72] "Wow this is a assom painting"
 ## [73] "Ogladalam jak zahipnotyzowana super przyjemnosc, technicznie filmik swietnie zrobiony swietni
 ## [74] NA
 ## [75] "Not sure if this has been asked yet, but I would like to know which masking fluid you are usin
 ## [76] "This is just beautiful. I've just seen a picture in the paper with a scene nearly the same b
 ## [77] "AMAZING! Thank you so much for the tutorial Maria"
 ## [78] "who unlike this???"
 ## [79] "i love your paintings maria.you really inspire me to paint again.thank you for posting these v
 ## [80] "Marysiu kochana, pieknie malujesz , inspirujesz , masz w sobie to cos co choc tak ulotne to p
 ## [81] "So amazing!!. I love it. Looks so real. I love the beach and blue skies"
 ## [82] NA
 ## [83] "CAN U DO A HUMAN PAINTING PLEASE AND SOME TIPS ON IT??"
 ## [84] "WOW is really small word to express my emotion towards the painting"
 ## [85] "Grandiosa"
 ## [86] NA
 ## [87] "Thank you!.. going to Amazon right now to buy Art Masking Fluid for Watercolors!"
 ## [88] "This music is so calming"
 ## [89] "beautiful"
 ## [90] "Awesome Painting Maria"
 ## [91] "Yo! That is legit!that scenery is AMAZING !!!!!!"
 ## [92] "Very excellent painting ! I think these are great effort to achieve this perfection !"
 ## [93] "Marie, your work is delightful to watch and so helpful. I was very impressed with your techn
 ## [94] "Hello Maria, well following along with this tutorial was a great success. How do I know ????"
 ## [95] "Omg I don't usually pay much attention to speed paints as I only painted 2 things ever before
 ## [96] "how much time do u take to make this one? :D"
 ## [97] "Love this tutorial! Palm trees & Caribbean houses are what I love to paint. I can learn s
 ## [98] "Wonderful painting.."
 ## [99] "Maria Its me Riane i am just using my mom's account you know i have many watercolor paintings
 ## [100] "Beautiful painting,great use of the fan brush"
 ## [101] "Omgosh Maria, that is lovely! Thanks for sharing. I am going to follow along to see if I can
 ## [102] "Amazed"

[103] "What's the purpose of art masking fluid please? Beautiful painting. I wonder if you could do
 ## [104] "Your videos are always a great happiness for me. I love to watch them. Many thanks to share y
 ## [105] "beautiful"
 ## [106] "beautiful painting! i was wondering if you'd ever do/have done a snow scene?"
 ## [107] "Awesome!"
 ## [108] "Beautiful Maria !!"
 ## [109] "No i have not -- is that something online to order from?"
 ## [110] "Absolutely beautiful."
 ## [111] "Beautiful painting, Maria! Also, love the way you put up the colors and brush that you are us
 ## [112] "Can this resist be used with acrylics as well?"
 ## [113] "Beautiful!"
 ## [114] "amazing video Maria! you totally made my day (^_-), cheers Desiree"
 ## [115] "Wow. ...wonderful"
 ## [116] "Wow. This looks almost exactly like Urunao on my Pacific island of Guam. Awesome. I will email
 ## [117] "Maria you have such a beautiful talent. Thank you"
 ## [118] "I love to watch you work. I'm inspired!"
 ## [119] "Good afternoon Maria! Very nice,peaceful scene. Great tree detail, ocean colour reminds me of
 ## [120] "Your very welcome. Sophie"
 ## [121] "Wow!"
 ## [122] "Thank you for the sand color, very useful for me! And for all your art, thank you!"
 ## [123] "Superb!!!"
 ## [124] "I wish I could be there in that painting, it's flawless"
 ## [125] "Still looking for that bottle and tip LOL"
 ## [126] "So Beautiful!!!!"
 ## [127] "Your skill level is incredible! Wonderful work!"
 ## [128] "Wow. Just beautiful! Love the colors and so realistic."
 ## [129] "Nice"
 ## [130] "Interesante tecnica para usar el masking fluid...la botellita es una muy buena idea...cuanto
 ## [131] "Wonderful painting, Maria! I love the colors you used here, but I don't have any Holbein wat
 ## [132] "LOVE IT!"
 ## [133] "Very beautiful"
 ## [134] "beautiful Maria feel like going for holiday trip on this beautiful beach"
 ## [135] "Lovely beach scene. I particularly like the way you painted the palm trees. May I ask what l
 ## [136] "Beautiful! I like the idea of the masking fluid in the fine line bottle. Does it gum up at a
 ## [137] "Ah, a day at the beach, what would we do without a fan...brush. Very nice Maria. Have a gre
 ## [138] "Beautiful painting Maria. tfs"
 ## [139] "wow!! looks exactly where I live!! :D very beautiful painting!!"
 ## [140] NA
 ## [141] "wow,Maria you made my tongue unable to say anything because it so good that I am confused .
 ## [142] "i love all your paintings. it is beautiful , pretty , nice"
 ## [143] "@Maria Raczynska I'm 72 and recently started to paint with watercolors . The last time I pa
 ## [144] "From"
 ## [145] "thank you"
 ## [146] "thank you!!"
 ## [147] "Thank you. BTW, I love your videos."
 ## [148] "Hi Gary, you can find it under my art supplies at www.mariamorjane.com it's called: FINE LINE
 ## [149] "thank you so much"
 ## [150] "thank you"
 ## [151] "you can get it at dickblick.com or amazon.com here's my affiliate link: <https://www.amazon.com>
 ## [152] "thank you"
 ## [153] "Hi, if you don't have masking fluid I would just omit the areas and not use anything else :) r
 ## [154] "Thank you!"
 ## [155] "Ok"
 ## [156] "Just try to go around it, preserve white :)"


```
## [211] "Sona luvs random stuffs lol"
## [212] "thank you Antonietta :)"
## [213] "thank you Ernestina :) that's cool!"
## [214] "Hi, thank you so much, I actually thought of Thailand when I painted this beach :)"
## [215] "thank you!"
## [216] "your very welcome :) thank you for watching!"
## [217] "thank you Neha ;)"
## [218] "thank you so much!"
## [219] "Thank you Borek :)"
## [220] NA
## [221] "Maria Raczynska Thanks for replying, Maria! I started with a pad of Strathmore and by my thi
## [222] "thank you Ana :)"
## [223] NA
## [224] "Maria Raczynska Thank You! What about in the bottle... Does it gum up the tip of the bottle
## [225] "thank you Shannon :) I didn't feel like it gummed up.. once it's dry, it's easy to paint over
## [226] NA
## [227] "thank you Roshni :)"
## [228] "thank you so much Dhruvi ;)"
## [229] "thank you :-)"
```

```
a = get_nrc_sentiment(comment)
```

```
## Warning: 'spread()' was deprecated in tidyr 1.2.0.
## i Please use 'spread()' instead.
## i The deprecated feature was likely used in the syuzhet package.
## Please report the issue to the authors.
```

```
glimpse(a)
```

```
## Rows: 229
## Columns: 10
## $ anger      <dbl> 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, ~
## $ anticipation <dbl> 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, ~
## $ disgust     <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ fear        <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, ~
## $ joy         <dbl> 2, 0, 2, 1, 1, 0, 2, 0, 1, 1, 1, 1, 2, 0, 1, 0, 0, 0, 1, ~
## $ sadness     <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ surprise    <dbl> 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ trust       <dbl> 1, 0, 0, 1, 0, 0, 3, 0, 0, 0, 1, 0, 2, 0, 0, 0, 0, 0, 1, ~
## $ negative    <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, ~
## $ positive    <dbl> 2, 0, 2, 1, 1, 0, 3, 0, 1, 2, 1, 1, 2, 0, 1, 0, 0, 0, 2, ~
```

add column neutral

```
a$neutral = ifelse(a$negative + a$positive == 0, 1, 0)
glimpse(a)
```

```
## Rows: 229
## Columns: 11
```

```
## $ anger      <dbl> 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, ~
## $ anticipation <dbl> 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, ~
## $ disgust     <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ fear        <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, ~
## $ joy         <dbl> 2, 0, 2, 1, 1, 0, 2, 0, 1, 1, 1, 1, 2, 0, 1, 0, 0, 0, 1, 0, ~
## $ sadness     <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ surprise    <dbl> 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ trust       <dbl> 1, 0, 0, 1, 0, 0, 3, 0, 0, 0, 1, 0, 2, 0, 0, 0, 0, 0, 1, 0, ~
## $ negative    <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, ~
## $ positive    <dbl> 2, 0, 2, 1, 1, 0, 3, 0, 1, 2, 1, 1, 2, 0, 1, 0, 0, 0, 2, 0, ~
## $ neutral     <dbl> 0, 1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 0, 0, ~
```

export file

```
write.csv(a, "sentiment_data1.csv", row.names = F)
```

check total amount

```
colSums(a)
```

```
##      anger anticipation      disgust      fear      joy      sadness
##      9         74         5         13        140         29
## surprise      trust negative positive neutral
##      42         71        15        176        126
```

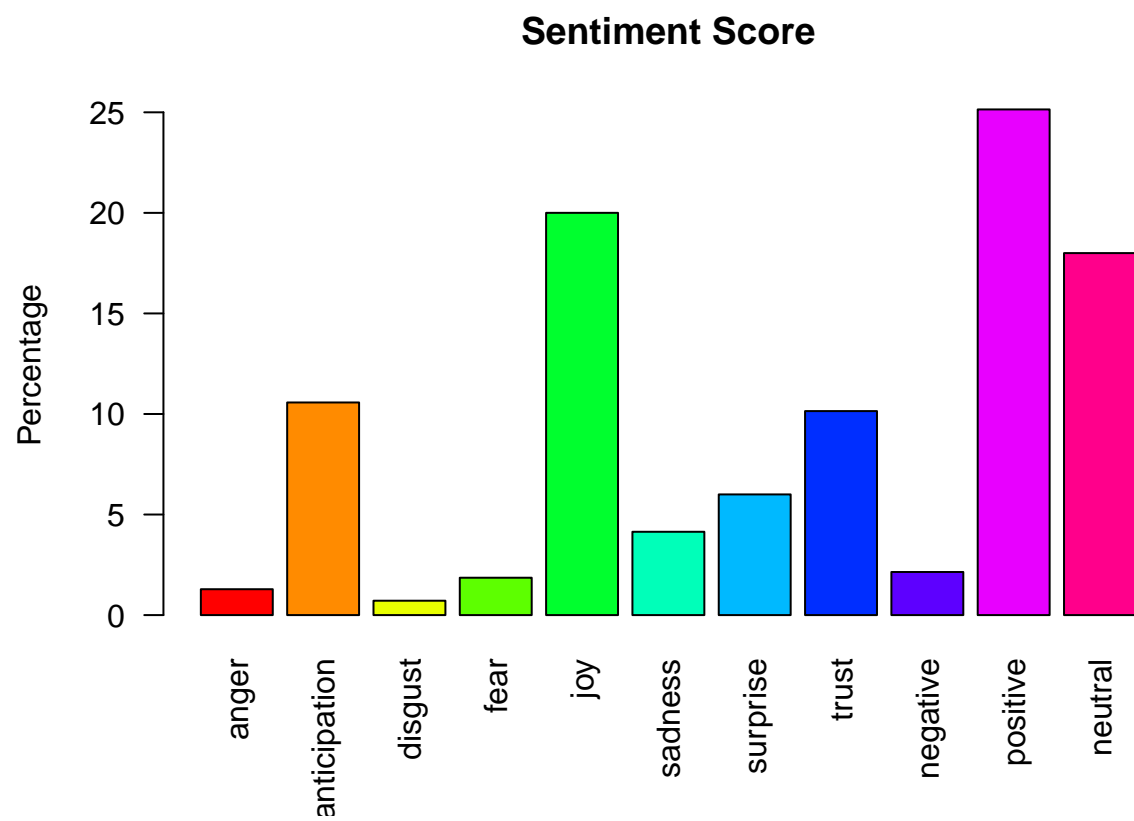
```
sum(a)
```

```
## [1] 700
```

```
cal_sum = 100*colSums(a)/sum(a) # Percentage
cal_sum
```

```
##      anger anticipation      disgust      fear      joy      sadness
## 1.2857143 10.5714286 0.7142857 1.8571429 20.0000000 4.1428571
## surprise      trust negative positive neutral
## 6.0000000 10.1428571 2.1428571 25.1428571 18.0000000
```

```
barplot(cal_sum,
        las = 2,
        col = rainbow(11),
        ylab = "Percentage",
        main = "Sentiment Score"
)
```



data

a

##	anger	anticipation	disgust	fear	joy	sadness	surprise	trust	negative
## 1	0	0	0	0	2	0	0	1	0
## 2	1	0	0	0	0	0	0	0	0
## 3	0	0	0	0	2	0	0	0	0
## 4	0	1	0	0	1	0	1	1	0
## 5	0	0	0	0	1	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0
## 7	0	1	0	0	2	0	0	3	0
## 8	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	1	0	0	0	0
## 10	0	0	0	0	1	0	0	0	0
## 11	0	0	0	0	1	0	0	1	0
## 12	0	0	0	0	1	0	0	0	0
## 13	1	1	0	1	2	0	0	2	0
## 14	0	0	0	0	0	0	0	0	0
## 15	0	0	0	0	1	0	0	0	0
## 16	0	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0	0
## 18	0	1	0	0	0	0	0	0	1

## 19	0	0	0	0	1	0	0	1	0
## 20	0	0	0	0	2	0	0	0	0
## 21	0	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0	0
## 24	0	0	0	0	1	0	0	0	0
## 25	0	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0	0
## 28	0	1	0	0	2	1	1	0	0
## 29	0	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0	0
## 31	0	1	0	0	2	1	1	1	0
## 32	0	0	0	0	0	0	0	0	0
## 33	0	1	0	0	1	0	1	1	0
## 34	0	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0	0
## 43	0	1	0	0	1	1	1	0	0
## 44	0	0	0	0	1	0	1	1	0
## 45	0	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0	0
## 48	0	1	0	0	1	1	1	1	0
## 49	0	5	0	1	3	0	1	3	0
## 50	0	1	0	0	1	1	1	1	0
## 51	0	0	0	0	1	0	0	0	0
## 52	0	0	0	0	1	0	0	0	0
## 53	0	1	0	0	1	0	0	1	0
## 54	0	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0	0
## 59	0	0	0	0	1	0	0	0	0
## 60	0	0	0	0	0	0	0	0	0
## 61	0	0	0	0	2	0	0	0	0
## 62	0	1	0	0	1	1	1	0	0
## 63	0	0	0	0	0	0	0	0	0
## 64	0	3	0	0	1	0	0	3	1
## 65	0	0	0	0	1	0	0	0	0
## 66	0	0	0	0	1	0	0	1	0
## 67	0	0	0	0	1	0	0	0	0
## 68	0	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0	0
## 71	0	1	0	0	1	0	1	1	0
## 72	0	0	0	0	0	0	0	0	0

## 73	0	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0	0
## 75	0	0	0	0	1	0	0	0	0
## 76	0	1	0	0	3	0	1	1	0
## 77	0	0	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0	0	0
## 79	0	1	0	0	3	0	1	2	0
## 80	0	0	0	0	0	0	0	0	0
## 81	0	0	0	0	2	1	0	1	0
## 82	0	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	1	1
## 85	0	0	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0	0	0
## 87	0	1	0	0	1	1	1	0	0
## 88	0	0	0	0	1	1	0	0	0
## 89	0	0	0	0	1	0	0	0	0
## 90	0	0	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0	0	0
## 92	0	1	0	0	3	0	1	3	0
## 93	1	3	1	1	3	0	1	3	0
## 94	0	3	0	0	3	1	2	2	0
## 95	0	1	0	0	2	0	1	1	0
## 96	0	1	0	0	0	0	0	0	0
## 97	0	2	1	0	4	0	1	2	0
## 98	0	0	0	0	1	0	1	1	0
## 99	0	0	0	0	0	0	0	1	0
## 100	0	0	0	0	1	0	0	0	0
## 101	0	1	0	0	1	1	1	1	0
## 102	0	0	0	0	0	0	0	0	0
## 103	0	1	0	0	2	2	1	1	1
## 104	0	3	0	1	3	0	0	1	0
## 105	0	0	0	0	0	0	0	0	0
## 106	0	0	0	0	1	0	0	0	0
## 107	0	0	0	0	0	0	0	0	0
## 108	0	0	0	0	1	0	0	0	0
## 109	0	0	0	0	0	0	0	0	0
## 110	0	0	0	0	1	0	0	0	0
## 111	0	0	0	0	2	0	0	0	0
## 112	0	0	0	0	0	0	0	0	1
## 113	0	0	0	0	1	0	0	0	0
## 114	0	0	0	0	0	0	0	0	0
## 115	0	0	0	0	1	0	1	1	0
## 116	0	0	0	0	0	0	0	0	0
## 117	0	0	0	0	1	0	0	0	0
## 118	0	1	0	1	2	0	1	1	0
## 119	1	3	1	0	3	0	3	3	0
## 120	0	0	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	0	0	0
## 122	0	1	0	0	1	1	1	0	0
## 123	0	0	0	0	0	0	0	0	0
## 124	0	0	0	0	0	0	0	0	0
## 125	0	0	0	0	0	0	0	0	0
## 126	0	0	0	0	1	0	0	0	0

## 127	0	0	0	0	1	0	1	2	0
## 128	0	0	0	0	2	0	0	0	0
## 129	0	0	0	0	0	0	0	0	0
## 130	0	0	0	0	0	0	0	0	0
## 131	0	0	0	0	2	0	1	2	0
## 132	0	0	0	0	1	0	0	0	0
## 133	0	0	0	0	0	0	0	0	0
## 134	0	1	0	0	3	0	1	0	0
## 135	0	2	0	0	3	1	1	2	0
## 136	0	0	0	0	1	0	0	0	0
## 137	0	0	0	0	1	0	0	0	0
## 138	0	0	0	0	1	0	0	0	0
## 139	0	0	0	0	1	0	0	0	0
## 140	0	0	0	0	0	0	0	0	0
## 141	0	1	0	0	1	1	1	1	1
## 142	0	1	0	0	3	0	0	1	0
## 143	0	1	0	0	0	0	0	0	0
## 144	0	0	0	0	0	0	0	0	0
## 145	0	0	0	0	0	0	0	0	0
## 146	0	0	0	0	0	0	0	0	0
## 147	0	0	0	0	1	0	0	0	0
## 148	0	1	0	0	1	1	1	0	0
## 149	0	0	0	0	0	0	0	0	0
## 150	0	0	0	0	0	0	0	0	0
## 151	0	0	0	0	0	0	0	0	0
## 152	0	0	0	0	0	0	0	0	0
## 153	0	0	0	0	0	0	0	0	1
## 154	0	0	0	0	0	0	0	0	0
## 155	0	0	0	0	0	0	0	0	0
## 156	0	1	0	0	1	0	0	1	0
## 157	0	0	0	0	0	0	0	0	0
## 158	0	0	0	0	0	0	0	0	0
## 159	0	0	0	0	0	0	0	0	0
## 160	1	1	0	1	1	1	0	1	1
## 161	0	1	0	0	1	0	0	0	0
## 162	0	0	0	0	0	0	0	0	0
## 163	0	0	0	0	0	0	0	0	0
## 164	0	0	0	0	0	0	0	0	0
## 165	0	0	0	0	0	0	0	0	0
## 166	0	0	0	0	0	0	0	0	0
## 167	0	0	0	0	0	0	0	0	0
## 168	0	1	0	0	1	0	1	1	0
## 169	0	1	0	0	1	1	1	0	0
## 170	0	0	0	0	0	0	0	0	0
## 171	0	0	0	0	0	0	0	0	0
## 172	0	0	0	0	0	0	0	0	0
## 173	0	0	0	0	0	0	0	0	0
## 174	3	0	2	3	0	3	1	0	3
## 175	0	1	0	0	1	0	0	0	0
## 176	0	1	0	0	1	0	0	1	0
## 177	0	0	0	0	0	0	0	0	0
## 178	0	0	0	0	0	0	0	0	0
## 179	0	0	0	0	0	0	0	0	0
## 180	0	0	0	0	0	0	0	0	0

## 181	0	0	0	0	0	0	0	0	0
## 182	0	1	0	0	2	0	1	3	0
## 183	0	0	0	0	0	0	0	0	0
## 184	0	1	0	0	1	0	0	1	0
## 185	0	0	0	0	0	0	0	0	0
## 186	0	0	0	0	0	0	0	0	0
## 187	0	0	0	0	0	0	0	0	0
## 188	0	0	0	0	0	0	0	0	0
## 189	0	0	0	0	0	0	0	0	0
## 190	0	1	0	0	1	0	0	1	0
## 191	0	0	0	0	0	0	0	0	0
## 192	0	0	0	0	0	0	0	0	0
## 193	0	0	0	0	1	0	0	0	0
## 194	0	0	0	0	1	0	0	1	0
## 195	0	1	0	0	1	0	0	0	0
## 196	0	0	0	0	0	0	0	0	0
## 197	0	0	0	0	0	0	0	0	0
## 198	0	0	0	0	0	0	0	0	0
## 199	0	0	0	0	0	0	0	0	0
## 200	0	0	0	0	0	0	0	0	0
## 201	0	1	0	0	1	0	0	0	0
## 202	0	4	0	1	2	2	1	1	1
## 203	0	0	0	0	0	0	0	0	0
## 204	0	0	0	0	0	0	0	0	0
## 205	0	0	0	0	0	0	0	0	0
## 206	0	2	0	0	1	1	1	0	0
## 207	0	0	0	0	0	0	0	0	0
## 208	0	0	0	0	0	0	0	0	0
## 209	0	1	0	1	2	2	1	0	1
## 210	0	0	0	0	0	0	0	0	0
## 211	0	0	0	0	0	0	0	0	0
## 212	0	0	0	0	0	0	0	0	0
## 213	0	0	0	0	0	0	0	0	0
## 214	0	1	0	0	1	0	0	0	0
## 215	0	0	0	0	0	0	0	0	0
## 216	0	0	0	0	0	0	0	0	0
## 217	0	0	0	0	0	0	0	0	0
## 218	0	0	0	0	0	0	0	0	0
## 219	0	0	0	0	0	0	0	0	0
## 220	0	0	0	0	0	0	0	0	0
## 221	0	0	0	0	2	0	0	1	0
## 222	0	0	0	0	0	0	0	0	0
## 223	0	0	0	0	0	0	0	0	0
## 224	0	0	0	0	0	0	0	0	0
## 225	1	2	0	2	2	2	0	2	2
## 226	0	0	0	0	0	0	0	0	0
## 227	0	0	0	0	0	0	0	0	0
## 228	0	0	0	0	0	0	0	0	0
## 229	0	0	0	0	0	0	0	0	0
##	positive neutral								
## 1	2	0							
## 2	0	1							
## 3	2	0							
## 4	1	0							

## 5	1	0
## 6	0	1
## 7	3	0
## 8	0	1
## 9	1	0
## 10	2	0
## 11	1	0
## 12	1	0
## 13	2	0
## 14	0	1
## 15	1	0
## 16	0	1
## 17	0	1
## 18	0	0
## 19	2	0
## 20	2	0
## 21	0	1
## 22	0	1
## 23	0	1
## 24	1	0
## 25	0	1
## 26	0	1
## 27	0	1
## 28	2	0
## 29	0	1
## 30	0	1
## 31	2	0
## 32	0	1
## 33	1	0
## 34	0	1
## 35	0	1
## 36	0	1
## 37	0	1
## 38	0	1
## 39	0	1
## 40	0	1
## 41	0	1
## 42	1	0
## 43	1	0
## 44	1	0
## 45	0	1
## 46	0	1
## 47	0	1
## 48	1	0
## 49	7	0
## 50	1	0
## 51	1	0
## 52	1	0
## 53	2	0
## 54	0	1
## 55	0	1
## 56	0	1
## 57	0	1
## 58	0	1

## 59	1	0
## 60	0	1
## 61	2	0
## 62	1	0
## 63	0	1
## 64	3	0
## 65	1	0
## 66	2	0
## 67	1	0
## 68	0	1
## 69	0	1
## 70	0	1
## 71	1	0
## 72	0	1
## 73	0	1
## 74	0	1
## 75	1	0
## 76	5	0
## 77	0	1
## 78	0	1
## 79	4	0
## 80	0	1
## 81	2	0
## 82	0	1
## 83	0	1
## 84	1	0
## 85	0	1
## 86	0	1
## 87	1	0
## 88	1	0
## 89	1	0
## 90	0	1
## 91	0	1
## 92	4	0
## 93	3	0
## 94	3	0
## 95	3	0
## 96	0	1
## 97	5	0
## 98	1	0
## 99	0	1
## 100	1	0
## 101	1	0
## 102	0	1
## 103	3	0
## 104	4	0
## 105	0	1
## 106	1	0
## 107	0	1
## 108	1	0
## 109	0	1
## 110	1	0
## 111	2	0
## 112	0	0

## 113	1	0
## 114	0	1
## 115	1	0
## 116	1	0
## 117	2	0
## 118	2	0
## 119	3	0
## 120	0	1
## 121	0	1
## 122	1	0
## 123	1	0
## 124	0	1
## 125	0	1
## 126	1	0
## 127	2	0
## 128	2	0
## 129	0	1
## 130	0	1
## 131	4	0
## 132	1	0
## 133	0	1
## 134	2	0
## 135	2	0
## 136	1	0
## 137	0	1
## 138	1	0
## 139	1	0
## 140	0	1
## 141	1	0
## 142	3	0
## 143	0	1
## 144	0	1
## 145	0	1
## 146	0	1
## 147	1	0
## 148	2	0
## 149	0	1
## 150	0	1
## 151	1	0
## 152	0	1
## 153	0	0
## 154	0	1
## 155	0	1
## 156	2	0
## 157	0	1
## 158	0	1
## 159	0	1
## 160	3	0
## 161	1	0
## 162	0	1
## 163	0	1
## 164	0	1
## 165	0	1
## 166	0	1

## 167	0	1
## 168	1	0
## 169	1	0
## 170	0	1
## 171	0	1
## 172	0	1
## 173	0	1
## 174	0	0
## 175	1	0
## 176	1	0
## 177	0	1
## 178	0	1
## 179	0	1
## 180	0	1
## 181	0	1
## 182	3	0
## 183	0	1
## 184	1	0
## 185	0	1
## 186	0	1
## 187	0	1
## 188	0	1
## 189	0	1
## 190	1	0
## 191	0	1
## 192	0	1
## 193	2	0
## 194	1	0
## 195	1	0
## 196	0	1
## 197	0	1
## 198	0	1
## 199	0	1
## 200	0	1
## 201	1	0
## 202	4	0
## 203	0	1
## 204	0	1
## 205	0	1
## 206	2	0
## 207	0	1
## 208	0	1
## 209	2	0
## 210	0	1
## 211	0	1
## 212	0	1
## 213	1	0
## 214	0	1
## 215	0	1
## 216	0	1
## 217	0	1
## 218	0	1
## 219	0	1
## 220	0	1

## 221	3	0
## 222	0	1
## 223	0	1
## 224	0	1
## 225	3	0
## 226	0	1
## 227	0	1
## 228	0	1
## 229	0	1