STATISTICAL ANALYSIS ON SPOTIFY SONGS

HEM BHUPAAL REDDY

## R Markdown

# Load Project\_data2018.csv  
df <-data.frame(read.csv("Project\_data2018.csv"))  
describe(df)

## vars n mean sd median trimmed mad  
## popularity 1 2000 66.54 6.18 66.00 66.08 5.93  
## acousticness 2 2000 0.28 0.28 0.18 0.24 0.23  
## danceability 3 2000 0.66 0.15 0.68 0.67 0.16  
## instrumentalness 4 2000 0.04 0.15 0.00 0.00 0.00  
## speechiness 5 2000 0.13 0.12 0.07 0.11 0.06  
## liveness 6 2000 0.17 0.13 0.12 0.15 0.05  
## energy 7 2000 0.59 0.19 0.60 0.60 0.19  
## loudness 8 2000 -7.19 3.54 -6.43 -6.72 2.36  
## valence 9 2000 0.45 0.22 0.44 0.44 0.25  
## duration\_ms 10 2000 201868.90 48860.78 200673.50 200570.96 37735.88  
## tempo 11 2000 121.65 30.36 120.22 120.86 34.82  
## key 12 2000 5.33 3.58 5.00 5.30 4.45  
## mode 13 2000 0.61 0.49 1.00 0.64 0.00  
## min max range skew kurtosis se  
## popularity 55.00 89.00 34.00 0.65 0.06 0.14  
## acousticness 0.00 1.00 1.00 0.98 -0.20 0.01  
## danceability 0.00 0.98 0.98 -0.63 0.65 0.00  
## instrumentalness 0.00 1.00 1.00 4.78 22.45 0.00  
## speechiness 0.00 0.74 0.74 1.48 1.60 0.00  
## liveness 0.03 0.94 0.91 2.40 6.85 0.00  
## energy 0.00 0.99 0.99 -0.37 -0.14 0.00  
## loudness -32.43 0.17 32.61 -2.42 10.35 0.08  
## valence 0.00 0.98 0.98 0.23 -0.76 0.00  
## duration\_ms 37640.00 512060.00 474420.00 0.58 2.67 1092.56  
## tempo 0.00 220.10 220.10 0.11 -0.27 0.68  
## key 0.00 11.00 11.00 0.01 -1.30 0.08  
## mode 0.00 1.00 1.00 -0.47 -1.78 0.01

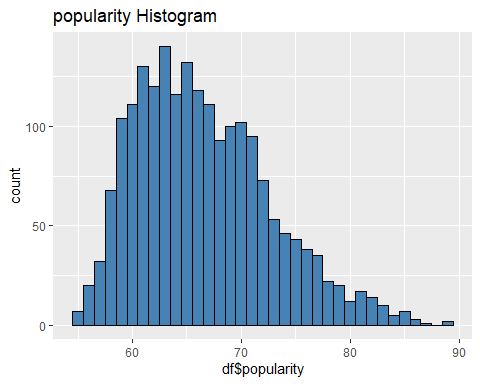
str(df)

## 'data.frame': 2000 obs. of 13 variables:  
## $ popularity : int 55 55 55 55 55 55 55 56 56 56 ...  
## $ acousticness : num 0.639 0.0869 0.628 0.26 0.325 0.239 0.000278 0.0704 0.714 0.974 ...  
## $ danceability : num 0.811 0.401 0.559 0.642 0.831 0.583 0.269 0.827 0.24 0.417 ...  
## $ instrumentalness: num 0 0.779 0 0.147 0 0 0 0.0129 0.0665 0.172 ...  
## $ speechiness : num 0.0291 0.0252 0.229 0.13 0.335 0.0304 0.0362 0.469 0.335 0.0409 ...  
## $ liveness : num 0.224 0.11 0.336 0.115 0.0639 0.111 0.609 0.095 0.522 0.631 ...  
## $ energy : num 0.365 0.505 0.631 0.551 0.574 0.459 0.666 0.351 0.82 0.362 ...  
## $ loudness : num -6.94 -8.57 -11.18 -8.41 -7.11 ...  
## $ valence : num 0.539 0.287 0.929 0.145 0.911 0.357 0.226 0.624 0.391 0.12 ...  
## $ duration\_ms : int 181350 266667 119987 234228 166385 169506 329080 54101 141024 209081 ...  
## $ tempo : num 97.9 97.8 173.2 113.1 130 ...  
## $ key : int 7 5 8 11 7 9 6 11 6 9 ...  
## $ mode : int 0 1 0 0 1 0 1 1 1 1 ...

Data Visualization

# Let's look at Popularity Histogram  
ggplot(df, aes(df$popularity)) +geom\_histogram(binwidth = 1, color = "black", fill = "steelblue") +ggtitle("popularity Histogram")

## Warning: Use of `df$popularity` is discouraged. Use `popularity` instead.

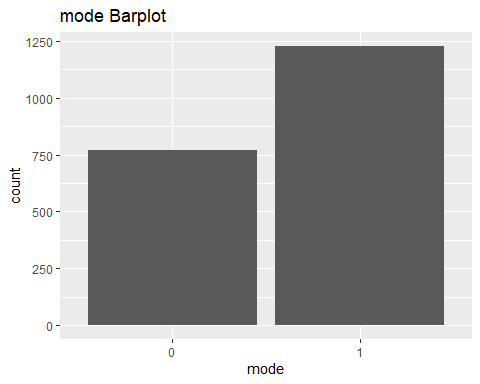


# Bar plot of mode  
ggplot(df, aes(as.factor(df$mode), fill = df$popularity)) +geom\_histogram(stat = "count") +ggtitle("mode Barplot") +labs(x = "mode")

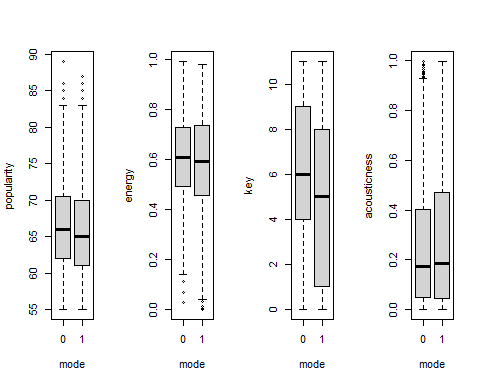
## Warning: Ignoring unknown parameters: binwidth, bins, pad

## Warning: Use of `df$mode` is discouraged. Use `mode` instead.

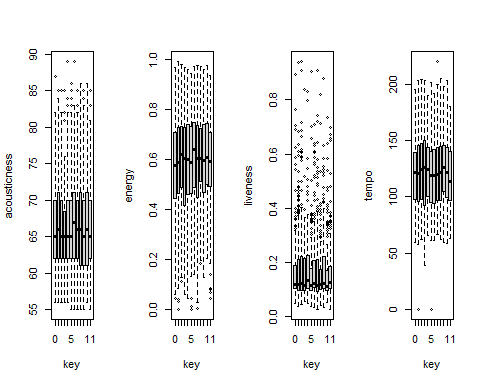
## Warning: Use of `df$popularity` is discouraged. Use `popularity` instead.



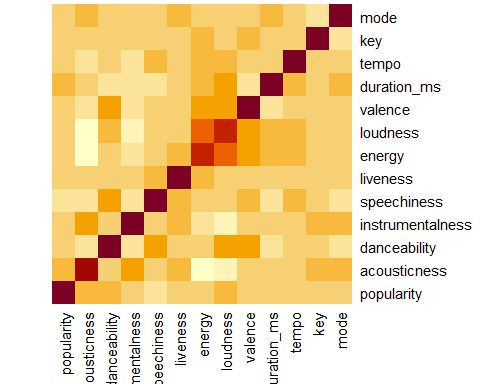
#boxplot   
par(mfcol = c(1,4))  
boxplot(df$popularity ~ df$mode, xlab = "mode", ylab = "popularity")  
boxplot(df$energy ~ df$mode, xlab = "mode", ylab = "energy")  
boxplot(df$key ~ df$mode, xlab = "mode", ylab = "key")  
boxplot(df$acousticness ~ df$mode, xlab = "mode", ylab = "acousticness")



par(mfcol = c(1,4))  
boxplot(df$popularity ~ df$key, xlab = "key", ylab = "acousticness")  
boxplot(df$energy ~ df$key, xlab = "key", ylab = "energy")  
boxplot(df$liveness ~ df$key, xlab = "key", ylab = "liveness")  
boxplot(df$tempo ~ df$key, xlab = "key", ylab = "tempo")



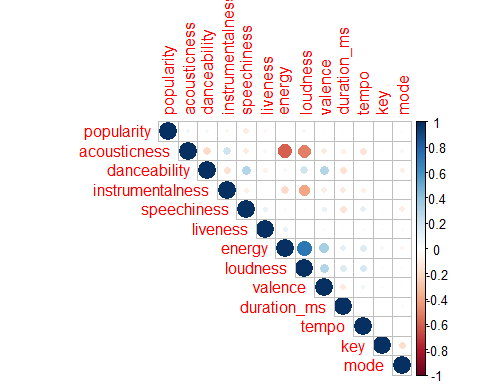
#heatmap  
par(mfcol = c(1,1))  
heatmap(cor(df),Rowv = NA, Colv = NA)



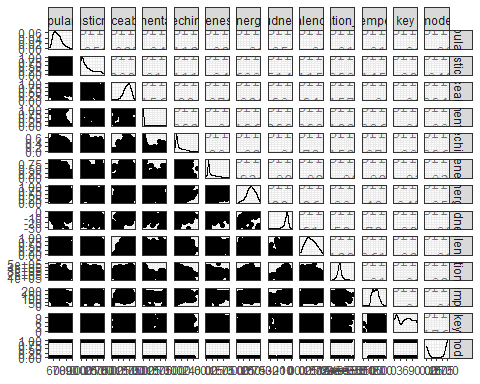
cor.mat <- cor(df)  
melt.cor.mat <- melt(cor.mat)  
melt.cor.mat

## Var1 Var2 value  
## 1 popularity popularity 1.000000000  
## 2 acousticness popularity 0.052840439  
## 3 danceability popularity 0.036813742  
## 4 instrumentalness popularity -0.046726376  
## 5 speechiness popularity -0.112506639  
## 6 liveness popularity -0.037718358  
## 7 energy popularity -0.014135960  
## 8 loudness popularity 0.049656144  
## 9 valence popularity -0.016557329  
## 10 duration\_ms popularity 0.014093481  
## 11 tempo popularity 0.009728753  
## 12 key popularity -0.003562697  
## 13 mode popularity -0.033883101  
## 14 popularity acousticness 0.052840439  
## 15 acousticness acousticness 1.000000000  
## 16 danceability acousticness -0.201586286  
## 17 instrumentalness acousticness 0.200757053  
## 18 speechiness acousticness -0.111389316  
## 19 liveness acousticness -0.046608593  
## 20 energy acousticness -0.600191033  
## 21 loudness acousticness -0.514410681  
## 22 valence acousticness -0.115352559  
## 23 duration\_ms acousticness -0.089640124  
## 24 tempo acousticness -0.145130043  
## 25 key acousticness 0.021654706  
## 26 mode acousticness 0.049461622  
## 27 popularity danceability 0.036813742  
## 28 acousticness danceability -0.201586286  
## 29 danceability danceability 1.000000000  
## 30 instrumentalness danceability -0.156187354  
## 31 speechiness danceability 0.288048260  
## 32 liveness danceability -0.071872214  
## 33 energy danceability 0.037824456  
## 34 loudness danceability 0.189810774  
## 35 valence danceability 0.294309392  
## 36 duration\_ms danceability -0.157296888  
## 37 tempo danceability -0.006552914  
## 38 key danceability -0.003691728  
## 39 mode danceability -0.094299242  
## 40 popularity instrumentalness -0.046726376  
## 41 acousticness instrumentalness 0.200757053  
## 42 danceability instrumentalness -0.156187354  
## 43 instrumentalness instrumentalness 1.000000000  
## 44 speechiness instrumentalness -0.093232789  
## 45 liveness instrumentalness -0.013542508  
## 46 energy instrumentalness -0.196407379  
## 47 loudness instrumentalness -0.399397604  
## 48 valence instrumentalness -0.097588530  
## 49 duration\_ms instrumentalness -0.122946316  
## 50 tempo instrumentalness -0.085954793  
## 51 key instrumentalness -0.029606849  
## 52 mode instrumentalness 0.002161837  
## 53 popularity speechiness -0.112506639  
## 54 acousticness speechiness -0.111389316  
## 55 danceability speechiness 0.288048260  
## 56 instrumentalness speechiness -0.093232789  
## 57 speechiness speechiness 1.000000000  
## 58 liveness speechiness 0.079705989  
## 59 energy speechiness 0.030717799  
## 60 loudness speechiness -0.032063419  
## 61 valence speechiness 0.077857523  
## 62 duration\_ms speechiness -0.153359208  
## 63 tempo speechiness 0.107166826  
## 64 key speechiness 0.008021565  
## 65 mode speechiness -0.095958096  
## 66 popularity liveness -0.037718358  
## 67 acousticness liveness -0.046608593  
## 68 danceability liveness -0.071872214  
## 69 instrumentalness liveness -0.013542508  
## 70 speechiness liveness 0.079705989  
## 71 liveness liveness 1.000000000  
## 72 energy liveness 0.092851467  
## 73 loudness liveness 0.022183050  
## 74 valence liveness 0.026387264  
## 75 duration\_ms liveness -0.021243337  
## 76 tempo liveness 0.027020485  
## 77 key liveness -0.032567247  
## 78 mode liveness 0.033955797  
## 79 popularity energy -0.014135960  
## 80 acousticness energy -0.600191033  
## 81 danceability energy 0.037824456  
## 82 instrumentalness energy -0.196407379  
## 83 speechiness energy 0.030717799  
## 84 liveness energy 0.092851467  
## 85 energy energy 1.000000000  
## 86 loudness energy 0.722336330  
## 87 valence energy 0.326231128  
## 88 duration\_ms energy 0.100139219  
## 89 tempo energy 0.148470408  
## 90 key energy 0.047135502  
## 91 mode energy -0.056794300  
## 92 popularity loudness 0.049656144  
## 93 acousticness loudness -0.514410681  
## 94 danceability loudness 0.189810774  
## 95 instrumentalness loudness -0.399397604  
## 96 speechiness loudness -0.032063419  
## 97 liveness loudness 0.022183050  
## 98 energy loudness 0.722336330  
## 99 loudness loudness 1.000000000  
## 100 valence loudness 0.291165085  
## 101 duration\_ms loudness 0.152336819  
## 102 tempo loudness 0.171901291  
## 103 key loudness 0.021949951  
## 104 mode loudness -0.022000444  
## 105 popularity valence -0.016557329  
## 106 acousticness valence -0.115352559  
## 107 danceability valence 0.294309392  
## 108 instrumentalness valence -0.097588530  
## 109 speechiness valence 0.077857523  
## 110 liveness valence 0.026387264  
## 111 energy valence 0.326231128  
## 112 loudness valence 0.291165085  
## 113 valence valence 1.000000000  
## 114 duration\_ms valence -0.132269808  
## 115 tempo valence 0.060737257  
## 116 key valence 0.031934134  
## 117 mode valence -0.018612790  
## 118 popularity duration\_ms 0.014093481  
## 119 acousticness duration\_ms -0.089640124  
## 120 danceability duration\_ms -0.157296888  
## 121 instrumentalness duration\_ms -0.122946316  
## 122 speechiness duration\_ms -0.153359208  
## 123 liveness duration\_ms -0.021243337  
## 124 energy duration\_ms 0.100139219  
## 125 loudness duration\_ms 0.152336819  
## 126 valence duration\_ms -0.132269808  
## 127 duration\_ms duration\_ms 1.000000000  
## 128 tempo duration\_ms 0.011502678  
## 129 key duration\_ms -0.010513357  
## 130 mode duration\_ms 0.029894643  
## 131 popularity tempo 0.009728753  
## 132 acousticness tempo -0.145130043  
## 133 danceability tempo -0.006552914  
## 134 instrumentalness tempo -0.085954793  
## 135 speechiness tempo 0.107166826  
## 136 liveness tempo 0.027020485  
## 137 energy tempo 0.148470408  
## 138 loudness tempo 0.171901291  
## 139 valence tempo 0.060737257  
## 140 duration\_ms tempo 0.011502678  
## 141 tempo tempo 1.000000000  
## 142 key tempo -0.003712958  
## 143 mode tempo -0.001865683  
## 144 popularity key -0.003562697  
## 145 acousticness key 0.021654706  
## 146 danceability key -0.003691728  
## 147 instrumentalness key -0.029606849  
## 148 speechiness key 0.008021565  
## 149 liveness key -0.032567247  
## 150 energy key 0.047135502  
## 151 loudness key 0.021949951  
## 152 valence key 0.031934134  
## 153 duration\_ms key -0.010513357  
## 154 tempo key -0.003712958  
## 155 key key 1.000000000  
## 156 mode key -0.175969203  
## 157 popularity mode -0.033883101  
## 158 acousticness mode 0.049461622  
## 159 danceability mode -0.094299242  
## 160 instrumentalness mode 0.002161837  
## 161 speechiness mode -0.095958096  
## 162 liveness mode 0.033955797  
## 163 energy mode -0.056794300  
## 164 loudness mode -0.022000444  
## 165 valence mode -0.018612790  
## 166 duration\_ms mode 0.029894643  
## 167 tempo mode -0.001865683  
## 168 key mode -0.175969203  
## 169 mode mode 1.000000000

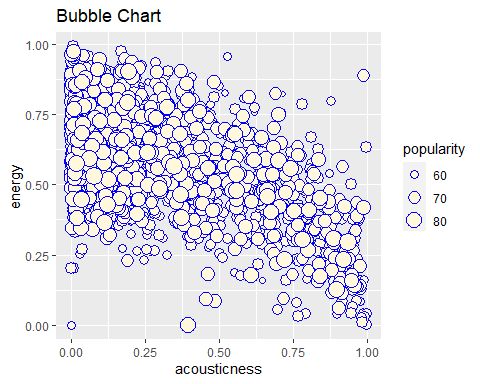
# corrplot  
cor <-round(cor(df[,1:13]),2)  
corrplot(cor, type = "upper")



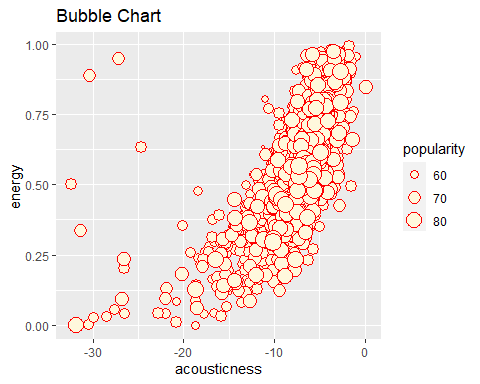
#generate scatter matrix  
ggpairs(df)+ theme\_bw()



#scatterplotMatrix(df, spread = FALSE, lty.smooth = 2, main = "Scatter Plot Matrix" )   
  
#bubble charts of popularity  
ggplot(df, aes( x = acousticness ,y = energy, size = popularity)) + geom\_point(shape =21, color = "blue", fill = "cornsilk") + labs(x ="acousticness", y = "energy", size = "popularity", title = "Bubble Chart")



ggplot(df, aes( x = loudness ,y = energy, size = popularity)) + geom\_point(shape =21, color = "red", fill = "cornsilk") + labs(x ="acousticness", y = "energy", size = "popularity", title = "Bubble Chart")



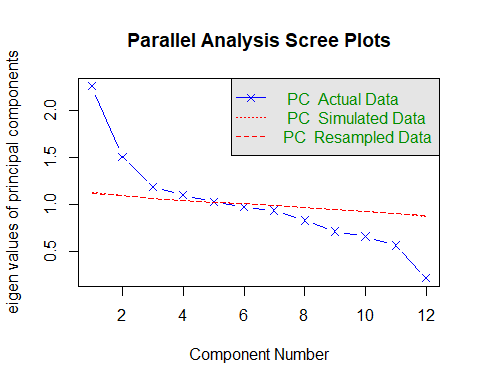
Data Pre-processing

#Define the normalize function& standardize funciton   
  
normalize <-function(x) {  
 return(((x -min(x))) / (max(x) -min(x)))  
}  
  
standardize <- function(x){   
 return((x-mean(x))/sd(x))  
 }  
# standardize the data frame  
df.norm <-as.data.frame(cbind(as.data.frame(lapply(df[2:13], standardize)),df$popularity)) %>%rename(popularity = "df$popularity")  
df.norm

## acousticness danceability instrumentalness speechiness liveness  
## 1 1.303454513 0.954502961 -0.239595183 -0.8203741917 0.371323785  
## 2 -0.686355011 -1.703083484 4.934119545 -0.8523892908 -0.487558424  
## 3 1.263809694 -0.678940415 -0.239595183 0.8206048646 1.215137886  
## 4 -0.062489717 -0.140941208 0.736702718 0.0079138862 -0.449888152  
## 5 0.171775124 1.084141324 -0.239595183 1.6907588414 -0.834878335  
## 6 -0.138175281 -0.523374379 -0.239595183 -0.8097024920 -0.480024370  
## 7 -0.998547151 -2.558696681 -0.239595183 -0.7620902932 3.271934756  
## 8 -0.745822240 1.058213651 -0.153920061 2.7907648120 -0.600569241  
## 9 1.573760099 -2.746672307 0.202063392 1.6907588414 2.616472017  
## 10 2.510819466 -1.599372793 0.902739776 -0.7235079943 3.437683954  
## 11 0.380811445 -0.536338216 -0.239595183 -0.8146278918 1.109661123  
## 12 -0.903320295 1.511947922 -0.239565495 0.7385148668 -0.419751934  
## 13 -0.199444548 0.779491170 -0.239595183 0.9519488611 1.524034119  
## 14 -0.199444548 -1.093783177 -0.239595183 -0.8294040914 -0.651800812  
## 15 -0.825832693 0.487804853 -0.239595183 -0.6906719951 -0.140991919  
## 16 0.031216219 -0.426145607 -0.239595183 2.6512118158 -0.657074650  
## 17 2.215285358 -1.424361003 -0.239453719 -0.7702992930 5.004767284  
## 18 0.319542178 -0.873397960 -0.239595183 -0.7489558936 0.913775707  
## 19 -0.249901591 1.071177488 -0.239595183 1.9288198350 -0.764058223  
## 20 0.200607720 -1.080819341 -0.239574528 -0.8162696918 -0.502626533  
## 21 -0.859710993 1.239707360 -0.239460361 -0.0905941111 -0.562898969  
## 22 -0.426501240 -0.315952998 -0.239595183 -0.3344014046 0.122699988  
## 23 -0.741497350 0.306311145 -0.209708512 -0.7793291928 0.657617855  
## 24 0.211419944 -0.277061489 -0.239595183 -0.6865674952 -0.133457864  
## 25 0.719594446 -1.489180185 -0.239595183 1.5840418442 -0.555364914  
## 26 -0.807451913 0.760045416 -0.239595183 1.2474728532 1.554170337  
## 27 0.539390722 -0.944699059 -0.239595183 -0.8425384911 -0.434820043  
## 28 1.339495258 1.291562705 -0.239595183 1.9206108352 -0.547830860  
## 29 1.231373023 -0.510410543 -0.239595183 2.4295688217 -0.321809226  
## 30 -0.784385837 -1.884577192 -0.239595183 -0.5502980989 -0.777619521  
## 31 -0.916655370 -0.892843714 -0.239595183 -0.8023143922 -0.602076052  
## 32 -0.983655115 -0.743759597 -0.239595183 -0.7588066933 1.870600625  
## 33 -0.853223659 -1.223421540 -0.239595183 2.1340448296 -0.306741117  
## 34 -0.192236399 0.941539124 -0.239595183 1.8303118377 3.490422335  
## 35 0.734010744 0.727635825 -0.239468995 1.6168778433 -0.382081662  
## 36 1.274621917 1.408237232 -0.239595183 -0.3196252050 -0.573446645  
## 37 -0.538227549 -0.244651898 -0.239576255 -0.2711921063 -0.517694642  
## 38 -0.859710993 1.369345723 -0.239595183 1.3952348493 -0.359479498  
## 39 -0.988628738 -0.640048906 -0.239595183 -0.7169407944 -0.729401573  
## 40 -0.929990446 1.058213651 -0.239595183 1.8221028379 -0.871041797  
## 41 0.997108182 -0.147423126 -0.239364723 -0.7588066933 -0.487558424  
## 42 -0.658243230 1.453610659 -0.239595183 1.8713568366 -0.601322647  
## 43 -0.908726407 0.792455007 -0.239567621 0.4429908746 -0.186196245  
## 44 0.532182573 -0.490964788 -0.239595183 -0.8014934922 0.461732439  
## 45 -0.621121263 0.928575288 -0.239424497 -0.7702992930 -0.703785787  
## 46 -0.785106652 0.371130327 -0.239545770 -0.6849256953 -0.321809226  
## 47 -0.926386371 -0.465037116 -0.239595183 -0.6627613959 -0.397149771  
## 48 -0.866558735 0.973948715 -0.239595183 1.8959838359 -0.487558424  
## 49 -0.987619597 1.628622449 -0.239595183 1.5922508440 -0.749743520  
## 50 -0.929269631 -1.152120441 -0.206985505 -0.8105233919 -0.434820043  
## 51 0.726802595 -0.147423126 -0.238958929 -0.3237297049 0.295983241  
## 52 -0.978465248 -0.776169187 -0.239595183 -0.8039561921 0.122699988  
## 53 1.180915980 -2.254046527 -0.239265765 -0.6685076957 -0.246468681  
## 54 -0.412084942 0.481322935 -0.239595183 -0.7194034944 0.243244859  
## 55 1.137667087 0.850792270 -0.239595183 1.6989678412 -0.246468681  
## 56 -0.949812856 -0.426145607 -0.239595183 -0.7456722937 -0.880082662  
## 57 -0.978573370 -0.439109443 -0.239595183 1.7974758385 -0.005378938  
## 58 -0.563456071 -0.860434123 -0.239595183 1.6497138425 1.147331396  
## 59 1.321474885 -0.017784763 -0.215154528 -0.8006725922 -0.457422206  
## 60 1.584572323 0.293347309 -0.239595183 -0.3237297049 -0.434820043  
## 61 -0.599496816 -0.225206144 -0.239595183 -0.6430597964 0.167904315  
## 62 -0.358023825 -0.503928625 -0.239595183 0.5743348711 -0.525228697  
## 63 -0.795198060 1.803634239 -0.239595183 1.4198618486 -0.502626533  
## 64 0.881777798 1.330454214 -0.239595183 -0.6997018949 -0.367013553  
## 65 0.701574074 0.286865390 -0.239595183 -0.6947764950 0.092563770  
## 66 2.359448337 -1.080819341 -0.239490911 -0.7497767936 3.942465604  
## 67 0.878173724 -0.095567781 -0.239595183 1.9206108352 0.506936766  
## 68 -0.527415326 -0.704868088 -0.239595183 -0.6717912956 -0.621664594  
## 69 0.701574074 0.688744316 -0.239595183 1.8795658363 -0.510160588  
## 70 1.458429716 0.727635825 -0.239595183 1.1735918552 0.228176750  
## 71 -0.639862450 1.272116950 0.132327827 -0.5133575999 0.672685964  
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## 1953 -0.915574148 -0.400217934 -0.239196694 -0.6011938975 0.469266493  
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## energy loudness valence duration\_ms tempo  
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## 5 -0.1005536390 0.0229009213 2.0743711611 -0.7262246282 0.2750309578  
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## 8 -1.2705442775 -1.2455560887 0.7797763280 -3.0242639674 -1.4698041391  
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## 14 -0.0113615275 0.4492065088 -0.8350841258 0.0125068914 -1.3055897899  
## 15 0.9854914829 0.7361429619 -1.2951840316 -0.2124383401 -0.9112909153  
## 16 0.0620907996 0.6411571016 0.2790793717 -0.1448381127 1.2471430179  
## 17 -2.0103141432 -1.7843746893 -0.9252997936 2.4146992907 0.6352749513  
## 18 -0.3786231629 0.5402346250 -0.0592293826 0.0594361441 1.7138661512  
## 19 -0.0848138546 -0.9651216438 0.5542371585 -0.3217284444 -1.1748704253  
## 20 -0.8350769098 0.4121733311 -0.8350841258 0.8677326571 -0.1943599177  
## 21 0.3139273496 0.3202971269 -0.9343213604 -0.4527537717 0.7360892560  
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## 23 1.0641904048 0.3725958893 2.0292633272 0.1404827383 -0.3840001549  
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## 1805 -0.09257218 0.7926854 75  
## 1806 -0.09257218 0.7926854 75  
## 1807 -0.93159496 -1.2609037 75  
## 1808 1.30579912 0.7926854 75  
## 1809 -1.21126922 -1.2609037 75  
## 1810 0.74645060 0.7926854 75  
## 1811 1.58547338 -1.2609037 75  
## 1812 0.74645060 -1.2609037 75  
## 1813 -0.65192070 -1.2609037 75  
## 1814 -0.93159496 0.7926854 75  
## 1815 0.18710208 -1.2609037 76  
## 1816 -1.21126922 0.7926854 76  
## 1817 0.18710208 -1.2609037 76  
## 1818 1.30579912 -1.2609037 76  
## 1819 -0.37224644 0.7926854 76  
## 1820 -0.65192070 -1.2609037 76  
## 1821 1.02612486 0.7926854 76  
## 1822 1.58547338 -1.2609037 76  
## 1823 1.30579912 0.7926854 76  
## 1824 1.58547338 -1.2609037 76  
## 1825 -0.93159496 -1.2609037 76  
## 1826 0.74645060 -1.2609037 76  
## 1827 0.18710208 -1.2609037 76  
## 1828 -0.93159496 0.7926854 76  
## 1829 0.18710208 0.7926854 76  
## 1830 1.58547338 -1.2609037 76  
## 1831 -1.49094348 0.7926854 76  
## 1832 -1.21126922 0.7926854 76  
## 1833 -0.37224644 -1.2609037 76  
## 1834 -0.09257218 0.7926854 76  
## 1835 0.46677634 0.7926854 76  
## 1836 1.30579912 0.7926854 76  
## 1837 0.74645060 0.7926854 76  
## 1838 -0.09257218 -1.2609037 76  
## 1839 -0.93159496 -1.2609037 76  
## 1840 1.02612486 -1.2609037 76  
## 1841 -1.49094348 0.7926854 76  
## 1842 -1.21126922 0.7926854 76  
## 1843 0.74645060 0.7926854 76  
## 1844 0.74645060 0.7926854 76  
## 1845 -1.21126922 0.7926854 76  
## 1846 -1.49094348 0.7926854 76  
## 1847 -0.37224644 -1.2609037 76  
## 1848 -0.09257218 -1.2609037 76  
## 1849 1.02612486 0.7926854 76  
## 1850 -0.93159496 0.7926854 76  
## 1851 1.30579912 0.7926854 76  
## 1852 -1.21126922 0.7926854 76  
## 1853 1.58547338 0.7926854 77  
## 1854 -1.21126922 -1.2609037 77  
## 1855 -1.49094348 -1.2609037 77  
## 1856 -0.09257218 -1.2609037 77  
## 1857 0.46677634 0.7926854 77  
## 1858 -0.37224644 0.7926854 77  
## 1859 -0.09257218 0.7926854 77  
## 1860 0.18710208 0.7926854 77  
## 1861 0.74645060 0.7926854 77  
## 1862 -0.37224644 0.7926854 77  
## 1863 0.18710208 0.7926854 77  
## 1864 -0.09257218 0.7926854 77  
## 1865 -1.21126922 0.7926854 77  
## 1866 1.30579912 -1.2609037 77  
## 1867 1.30579912 0.7926854 77  
## 1868 -1.21126922 0.7926854 77  
## 1869 1.30579912 -1.2609037 77  
## 1870 -0.93159496 0.7926854 77  
## 1871 -0.09257218 -1.2609037 77  
## 1872 -0.37224644 -1.2609037 77  
## 1873 -1.21126922 0.7926854 77  
## 1874 1.58547338 0.7926854 77  
## 1875 0.74645060 0.7926854 77  
## 1876 0.18710208 0.7926854 77  
## 1877 0.74645060 -1.2609037 77  
## 1878 1.58547338 0.7926854 77  
## 1879 1.02612486 0.7926854 77  
## 1880 0.18710208 -1.2609037 77  
## 1881 1.58547338 -1.2609037 77  
## 1882 -1.49094348 0.7926854 77  
## 1883 0.46677634 -1.2609037 77  
## 1884 0.46677634 0.7926854 77  
## 1885 0.46677634 0.7926854 77  
## 1886 -1.21126922 0.7926854 77  
## 1887 -1.21126922 0.7926854 77  
## 1888 -1.49094348 -1.2609037 78  
## 1889 -1.49094348 0.7926854 78  
## 1890 0.18710208 -1.2609037 78  
## 1891 1.30579912 -1.2609037 78  
## 1892 -0.37224644 -1.2609037 78  
## 1893 0.74645060 -1.2609037 78  
## 1894 0.18710208 -1.2609037 78  
## 1895 -0.37224644 0.7926854 78  
## 1896 1.30579912 -1.2609037 78  
## 1897 0.74645060 0.7926854 78  
## 1898 -0.09257218 0.7926854 78  
## 1899 0.74645060 0.7926854 78  
## 1900 -0.37224644 0.7926854 78  
## 1901 -1.49094348 0.7926854 78  
## 1902 0.46677634 0.7926854 78  
## 1903 1.58547338 -1.2609037 78  
## 1904 1.58547338 0.7926854 78  
## 1905 1.02612486 -1.2609037 78  
## 1906 1.58547338 -1.2609037 78  
## 1907 -0.09257218 0.7926854 78  
## 1908 -1.21126922 -1.2609037 78  
## 1909 0.46677634 0.7926854 78  
## 1910 -0.09257218 -1.2609037 79  
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## 1913 -1.21126922 0.7926854 79  
## 1914 0.46677634 0.7926854 79  
## 1915 -0.09257218 0.7926854 79  
## 1916 1.02612486 0.7926854 79  
## 1917 0.74645060 0.7926854 79  
## 1918 0.46677634 0.7926854 79  
## 1919 -0.09257218 0.7926854 79  
## 1920 0.18710208 -1.2609037 79  
## 1921 -1.21126922 0.7926854 79  
## 1922 -1.21126922 0.7926854 79  
## 1923 0.46677634 0.7926854 79  
## 1924 -0.09257218 0.7926854 79  
## 1925 0.74645060 -1.2609037 79  
## 1926 -0.37224644 -1.2609037 79  
## 1927 -0.93159496 0.7926854 79  
## 1928 1.58547338 -1.2609037 79  
## 1929 -1.49094348 0.7926854 79  
## 1930 0.46677634 0.7926854 80  
## 1931 -1.21126922 0.7926854 80  
## 1932 0.74645060 0.7926854 80  
## 1933 1.58547338 0.7926854 80  
## 1934 0.74645060 -1.2609037 80  
## 1935 0.46677634 0.7926854 80  
## 1936 0.46677634 -1.2609037 80  
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## 1938 -0.09257218 -1.2609037 80  
## 1939 1.02612486 0.7926854 80  
## 1940 0.18710208 0.7926854 80  
## 1941 -1.21126922 0.7926854 80  
## 1942 0.18710208 0.7926854 81  
## 1943 1.58547338 0.7926854 81  
## 1944 1.30579912 0.7926854 81  
## 1945 -1.21126922 0.7926854 81  
## 1946 -0.37224644 0.7926854 81  
## 1947 1.02612486 0.7926854 81  
## 1948 0.18710208 0.7926854 81  
## 1949 -1.21126922 0.7926854 81  
## 1950 0.74645060 0.7926854 81  
## 1951 -0.09257218 0.7926854 81  
## 1952 1.02612486 -1.2609037 81  
## 1953 -1.21126922 0.7926854 81  
## 1954 -0.93159496 0.7926854 81  
## 1955 -0.65192070 -1.2609037 81  
## 1956 1.02612486 -1.2609037 81  
## 1957 -1.21126922 0.7926854 81  
## 1958 1.58547338 0.7926854 81  
## 1959 -1.21126922 -1.2609037 82  
## 1960 -1.49094348 -1.2609037 82  
## 1961 -0.37224644 -1.2609037 82  
## 1962 0.46677634 0.7926854 82  
## 1963 -0.09257218 -1.2609037 82  
## 1964 -1.21126922 0.7926854 82  
## 1965 0.46677634 -1.2609037 82  
## 1966 -1.49094348 0.7926854 82  
## 1967 -1.21126922 0.7926854 82  
## 1968 -0.93159496 0.7926854 82  
## 1969 -1.21126922 -1.2609037 82  
## 1970 1.02612486 -1.2609037 82  
## 1971 -0.65192070 0.7926854 82  
## 1972 0.18710208 0.7926854 82  
## 1973 -0.09257218 -1.2609037 83  
## 1974 0.46677634 0.7926854 83  
## 1975 1.02612486 -1.2609037 83  
## 1976 -1.21126922 0.7926854 83  
## 1977 0.46677634 0.7926854 83  
## 1978 0.18710208 0.7926854 83  
## 1979 1.30579912 0.7926854 83  
## 1980 1.58547338 0.7926854 83  
## 1981 -1.21126922 -1.2609037 83  
## 1982 -0.37224644 0.7926854 83  
## 1983 -0.37224644 -1.2609037 84  
## 1984 1.30579912 0.7926854 84  
## 1985 1.02612486 0.7926854 84  
## 1986 -0.09257218 0.7926854 84  
## 1987 -1.21126922 -1.2609037 84  
## 1988 -0.65192070 0.7926854 85  
## 1989 -0.93159496 0.7926854 85  
## 1990 1.02612486 -1.2609037 85  
## 1991 1.58547338 0.7926854 85  
## 1992 -1.21126922 -1.2609037 85  
## 1993 -0.09257218 0.7926854 85  
## 1994 0.46677634 0.7926854 85  
## 1995 0.74645060 0.7926854 86  
## 1996 -0.09257218 -1.2609037 86  
## 1997 1.30579912 -1.2609037 86  
## 1998 -1.49094348 0.7926854 87  
## 1999 0.18710208 -1.2609037 89  
## 2000 -0.37224644 -1.2609037 89

Data Reduction and Transformation

#Performing PCA on the data  
# Perform Scree Plot and Parallel Analysis  
fa.parallel(df.norm[, 2:13], fa = "pc", n.iter = 100)



## Parallel analysis suggests that the number of factors = NA and the number of components = 4

# Perform PCA with 4 components  
#extract the components and rotate the component  
pc <-principal(df[, 2:13], nfactors = 4, rotate = "none", scores = TRUE)  
pc\_var <-principal(df.norm[, 2:13], nfactors = 4, rotate = "varimax", scores = TRUE)  
#compute the components score  
head(pc$scores)

## PC1 PC2 PC3 PC4  
## [1,] -0.5578212 0.84701043 -0.958723115 -0.53666684  
## [2,] -1.4448442 -1.69603726 -0.002420589 0.16289206  
## [3,] -0.0669266 1.68338198 -0.098227874 1.91325577  
## [4,] -0.4900811 -0.18978817 -2.039968645 0.69147535  
## [5,] 0.5323058 1.85858275 0.467246649 -0.82890395  
## [6,] -0.4956228 0.07820102 -1.610902024 -0.08730925

pc$loadings

##   
## Loadings:  
## PC1 PC2 PC3 PC4   
## acousticness -0.738 0.100   
## danceability 0.350 0.650 -0.320  
## instrumentalness -0.483 0.123  
## speechiness 0.173 0.618 0.148 0.335  
## liveness 0.361 0.657  
## energy 0.831 -0.210   
## loudness 0.857 -0.208 -0.110  
## valence 0.463 0.356 -0.262  
## duration\_ms 0.116 -0.624 -0.179   
## tempo 0.278 0.139 0.450  
## key 0.112 -0.723 0.208  
## mode -0.282 0.656 -0.263  
##   
## PC1 PC2 PC3 PC4  
## SS loadings 2.678 1.514 1.173 1.070  
## Proportion Var 0.223 0.126 0.098 0.089  
## Cumulative Var 0.223 0.349 0.447 0.536

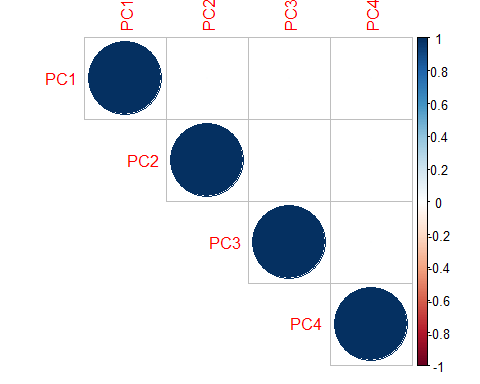
pc <-cbind(as.data.frame(pc$scores), df.norm$popularity) %>%rename(popularity = "df.norm$popularity")  
pc

## PC1 PC2 PC3 PC4 popularity  
## 1 -0.5578212378 0.847010428 -0.9587231148 -0.5366668355 55  
## 2 -1.4448441639 -1.696037255 -0.0024205891 0.1628920642 55  
## 3 -0.0669266010 1.683381976 -0.0982278737 1.9132557739 55  
## 4 -0.4900811482 -0.189788168 -2.0399686451 0.6914753543 55  
## 5 0.5323057897 1.858582751 0.4672466487 -0.8289039450 55  
## 6 -0.4956227958 0.078201025 -1.6109020241 -0.0873092501 55  
## 7 0.3398260851 -3.123421284 0.8449471763 3.2687292210 55  
## 8 -0.4079380995 3.319047225 0.1065047981 -0.3237963303 56  
## 9 -0.4088370420 -0.319829981 1.1786875144 2.3604320546 56  
## 10 -1.8177042313 -1.050691120 0.7678575814 3.4053486781 56  
## 11 -0.0893228880 -0.962719214 0.6169765130 -0.6450978867 56  
## 12 0.9903649746 1.807225301 0.5054679679 -0.2055773790 56  
## 13 0.9504781244 0.453029298 1.8013488386 0.8955040628 56  
## 14 -0.2623089833 -1.109315370 -0.9553635635 -0.6780818829 56  
## 15 0.4527354319 -0.791040814 0.7017443280 -0.8581687516 56  
## 16 0.5808976890 1.190126595 -0.7102460034 1.3224328757 56  
## 17 -1.8742200813 -1.795144181 1.8674076044 3.2045193992 56  
## 18 0.0262226452 -0.884405554 0.4698149593 1.0858275151 56  
## 19 0.0533723398 2.015028072 -1.6440042410 -0.1044613582 56  
## 20 -0.5322269397 -1.529623793 0.8249220275 -0.7724565853 56  
## 21 0.5846505555 0.644413043 -1.5593950776 0.3958985943 56  
## 22 0.4438752969 -0.592745288 -0.8368923739 0.4578872849 56  
## 23 1.0130699502 -0.084550129 -0.1562336262 -0.4722789535 56  
## 24 -0.1899531661 -0.443604102 0.4486216944 -0.1474496241 56  
## 25 -1.3732608682 0.039949134 -0.2878168687 0.2593177287 56  
## 26 0.7485191711 0.970538539 2.2038333522 1.0545079529 56  
## 27 -0.4840877888 -2.398213890 -0.6339502911 -0.0400775171 56  
## 28 0.3460833277 1.029728097 1.0893064008 -0.6690786567 57  
## 29 0.6980107369 1.247535268 0.4982378832 0.6256697052 57  
## 30 0.0840925594 -1.952795695 0.0771268537 -0.0650873940 57  
## 31 0.8087876634 -0.706136074 -1.7711904610 0.6803727072 57  
## 32 0.5044004591 -0.668047283 0.3215177051 1.0813461485 57  
## 33 0.3023480415 0.082592463 1.1933610641 -0.2202213595 57  
## 34 1.0868138259 1.600633774 -0.1644106009 2.3704669908 57  
## 35 0.7856536897 1.034017096 1.3012923340 -0.4648183639 57  
## 36 0.1200241061 1.130968953 0.3998142105 -2.3103630916 57  
## 37 -0.7075574564 -0.514981784 0.6323359436 -0.7976554863 57  
## 38 -0.0192518418 2.105568487 -1.4178214939 0.3627723700 57  
## 39 1.0710530594 -0.950065065 -0.5717245725 -0.0349607197 57  
## 40 0.8044850539 -0.078759933 -0.9221607053 0.1109044687 57  
## 41 -1.0661535152 0.653676619 1.4701217670 -1.3106535742 57  
## 42 1.0954625839 1.050141341 1.3504338284 -0.8195082893 57  
## 43 0.3538072565 1.092042708 -0.3718527296 -0.3029178830 57  
## 44 -0.0355554319 -0.168536503 -0.9059095865 0.5831924495 57  
## 45 -0.2036398004 -0.046139178 0.3452610276 -1.4603370005 57  
## 46 -0.3988446094 0.513573357 0.3422960973 -0.9222414516 57  
## 47 0.9069094861 -0.412092535 -0.4876166615 0.1915511889 57  
## 48 0.7366563678 0.856334391 -1.0047196383 -0.1810653829 57  
## 49 0.6342882907 2.321993401 -0.4104020728 0.0350702165 57  
## 50 0.7183172110 -0.695773512 1.3976616201 -0.6819281778 57  
## 51 -0.2504482591 -0.312956461 -0.1146780774 0.4379677089 57  
## 52 0.7657542787 -0.761351480 -0.8689737466 0.6943717004 57  
## 53 -0.9697425542 -3.312061609 -0.9157967290 -0.5618989346 57  
## 54 0.7025837311 0.368707801 0.2239431890 -0.3294801010 57  
## 55 -0.2111011126 0.362578008 0.0720258063 -0.6267788676 57  
## 56 0.8087900461 -0.566332293 -1.1715465118 -0.9289431118 57  
## 57 0.2559356855 0.580728033 1.4968588580 0.2477946428 57  
## 58 1.1073318387 0.240573392 2.2608513024 1.3305225658 57  
## 59 -1.5279106745 -1.455502678 0.2276449919 -1.0804545716 57  
## 60 -0.8910456455 0.317450984 -0.0533748875 0.1561388210 58  
## 61 0.4273048116 -0.613599136 0.3150320859 -0.0819918687 58  
## 62 -0.1654542008 0.509243914 -1.6006426007 1.4647694768 58  
## 63 0.4716519045 1.637066315 0.4947857243 -1.2124638225 58  
## 64 -0.1477067591 0.611010914 0.3481309758 -1.0761683029 58  
## 65 0.1199856195 -0.678794698 -0.0136112390 -0.1749856203 58  
## 66 -1.9599349201 -0.363465040 0.5414186042 2.7428713506 58  
## 67 0.7664112354 0.586443262 -0.7560189366 0.9839679301 58  
## 68 0.7196895341 -1.225480559 0.1635574926 -0.2445751425 58  
## 69 -0.3804883148 1.211293624 1.5765652550 -0.3670435640 58  
## 70 -0.6219769553 1.858091217 -0.8493882405 0.2202093296 58  
## 71 -0.3715388078 0.729283305 1.4067185205 -0.1733340237 58  
## 72 0.8752871967 0.677903955 1.1711973333 0.0043446149 58  
## 73 0.5316881664 1.473726236 0.4104747814 -0.4763063396 58  
## 74 -0.0409078982 -0.025967672 -1.0998841055 -0.5604298550 58  
## 75 0.4163324140 -1.970175421 0.9328631686 1.0989279864 58  
## 76 -0.2753383520 0.869526032 -0.9424778765 0.2787828526 58  
## 77 0.1323865578 -0.347077450 -0.2789992924 -0.7972584341 58  
## 78 -0.1115787513 -1.136733618 -0.9038696061 -0.3194895247 58  
## 79 -1.1544427951 -0.298567435 -0.2663596800 -0.5711758282 58  
## 80 -0.3953095128 -1.505426290 0.7291085498 0.9221190781 58  
## 81 1.1398290095 0.135541469 1.5181797376 -0.2978862451 58  
## 82 0.6312716238 1.910596766 1.5237307270 -0.4650564168 58  
## 83 0.4174922802 -0.889429053 -0.0344764605 -0.3109984710 58  
## 84 0.4087351753 1.738182350 0.1661513522 -0.6935046807 58  
## 85 -0.7807622517 -0.425300549 1.1319378032 0.6980049105 58  
## 86 0.3343664269 1.582387827 -0.6358283948 -0.4713481122 58  
## 87 0.8536198338 1.387571574 -1.5585630928 -0.5080157240 58  
## 88 0.4099114507 -0.728954271 -1.0155269551 -0.9345679154 58  
## 89 0.0664183010 -0.161178429 1.5770517035 4.5448816649 58  
## 90 -0.0415001278 -1.214233616 1.1940302895 -0.0391138739 58  
## 91 1.1448479476 -0.498607287 1.3231207757 0.0485792508 58  
## 92 0.1439459443 -0.487702684 -0.6869149012 -0.3301262143 58  
## 93 0.5168164811 -0.996076229 0.1713963855 -0.6256528043 58  
## 94 -0.1394083281 -0.456928489 1.1411910142 -0.6429449294 58  
## 95 0.2364793995 -0.963190661 -0.1439216392 1.1886725777 58  
## 96 0.8494301444 -1.644074161 1.4285816283 1.0163530417 58  
## 97 0.1602293053 -0.428857433 0.8607840024 -1.0212424501 58  
## 98 0.5118967107 -1.274158847 -0.4662942194 -0.2628052932 58  
## 99 -0.4994634211 -1.363628290 -0.0900225252 -0.7883389281 58  
## 100 0.3439542967 0.209447770 0.6022624980 -0.0701678703 58  
## 101 0.8208706881 -0.531049937 -0.3133143262 0.2841753993 58  
## 102 0.9377328083 0.293827557 2.0640706941 1.4210744247 58  
## 103 -0.4700946286 -1.094159060 -0.0620272106 -1.1490220678 58  
## 104 -0.0731606458 -0.251633616 -0.6857635665 -1.3416577071 58  
## 105 0.0116112283 -0.069996515 -1.9668915867 1.2487651914 58  
## 106 -0.5861144301 -0.468815587 1.0333043581 -0.5574777480 58  
## 107 -0.3105626532 0.006401633 -1.5374632639 0.5968874538 58  
## 108 0.3296519624 -2.245083865 0.7067326129 -0.5181563582 58  
## 109 0.8746583949 -1.245540920 0.3558167358 0.1477699523 58  
## 110 -0.4094979106 -0.936150829 0.8087044732 -0.2236007492 58  
## 111 -0.1833196770 0.240328524 0.1144372573 0.0002322901 58  
## 112 -0.0410284915 -0.353672726 -0.6603554769 -0.4863796029 58  
## 113 -0.5803952583 -0.706701916 -0.3835781031 -0.9233062664 58  
## 114 0.5577908802 -1.645443169 1.4407185807 0.5410565553 58  
## 115 -1.1112308940 0.026145247 -1.4677148081 0.1789533786 58  
## 116 0.7679346266 -0.484636964 -0.6862178207 -1.0361378343 58  
## 117 0.2102916470 -1.197069516 -0.5921263058 1.2984458559 58  
## 118 0.4166622037 0.430603687 1.3826312102 -0.2349700936 58  
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## 1819 0.6594866177 -0.166143289 0.8794578570 -0.2132605899 76  
## 1820 0.1434530081 0.486857011 -0.4527131189 -0.9707594360 76  
## 1821 -0.8060527390 0.347395973 -0.1030520779 1.3968572791 76  
## 1822 0.8630420909 0.663029628 -1.5493954542 0.3378358586 76  
## 1823 0.6990414109 1.416853189 -0.0879058528 -0.2421966436 76  
## 1824 0.6476513202 1.293761503 -0.8481015145 0.9998278031 76  
## 1825 -0.7333903563 3.695750322 0.4764388968 -0.3128781374 76  
## 1826 1.5816614294 -0.329485082 -1.2176357333 0.0706229923 76  
## 1827 -0.9665211972 1.145609560 0.2105179118 2.5709141594 76  
## 1828 0.7591263221 -0.201919339 0.8201980811 -0.7014379071 76  
## 1829 0.4000354344 -0.565704282 0.1981321976 -0.2193799260 76  
## 1830 -0.6417712786 -0.687806948 -1.7897072432 1.5734171704 76  
## 1831 -1.4049289917 0.124086012 1.0662164986 -1.1569835504 76  
## 1832 -0.0275542182 1.741787246 1.5768104301 -0.2356476242 76  
## 1833 0.6395488965 0.020804216 -0.0417253654 0.9857251821 76  
## 1834 -0.9527491114 -0.800016450 0.1304854405 -0.4313422264 76  
## 1835 1.1474009379 -0.442711615 1.6851762320 3.0799086324 76  
## 1836 0.0487875489 -1.316456531 -0.5409469538 0.7147961057 76  
## 1837 0.2823673923 -0.888219224 -0.1502534675 -0.0959387026 76  
## 1838 -0.4360814149 0.250221228 -0.5767933557 0.3435441181 76  
## 1839 -0.2176621087 0.246865324 -0.6844355283 -1.7228078269 76  
## 1840 -0.9970732179 0.885889571 -1.4594850459 0.0403336073 76  
## 1841 -0.2685316638 -0.831506797 0.8965135781 -1.5381294877 76  
## 1842 -0.4724091084 -0.156819447 0.8877748448 -1.3610394584 76  
## 1843 -0.5293967813 -0.241840632 -0.4411770048 -0.9267875472 76  
## 1844 0.0486682786 0.314713782 -0.3096695203 -1.8829394649 76  
## 1845 1.3495869940 0.057853097 1.2033856017 -0.4782379491 76  
## 1846 -0.2088436679 -0.195907030 1.1022547166 -1.3638829312 76  
## 1847 0.1107358703 -1.314495654 -0.6093015399 1.4429846890 76  
## 1848 -0.2439774808 -1.568001770 -1.6288757087 -0.5561110828 76  
## 1849 -0.0306723646 -0.182219580 -0.0984316998 0.0121504519 76  
## 1850 0.3813480164 -0.603685582 0.8475150970 -0.6263773613 76  
## 1851 0.4671020446 -0.311639803 -0.4124747190 -0.3726937352 76  
## 1852 0.7952539777 -0.323358632 1.2392639866 -0.9753802463 76  
## 1853 1.2767637542 -0.746592774 0.0552081075 1.3129202335 77  
## 1854 0.2446861112 0.795040569 0.2775486188 0.4853581733 77  
## 1855 -0.8971046247 -0.571410195 -0.2016674175 0.1248332363 77  
## 1856 0.4496502192 -0.347093526 -0.7507077428 0.6759800052 77  
## 1857 0.4130281911 1.100090637 0.6648205404 0.7524598899 77  
## 1858 0.0386978483 -0.413409912 0.5274214683 0.0715466183 77  
## 1859 -0.5738779091 -0.995407206 0.0733790760 -0.8472631749 77  
## 1860 -0.1180331483 0.262357216 0.0817740352 -1.0530147741 77  
## 1861 0.2831659438 -0.268402128 -0.0669866168 0.1291865873 77  
## 1862 -0.8023558288 -0.674389956 0.2246405290 -0.9135141440 77  
## 1863 0.5775149149 0.328025106 0.4437651307 -0.8247988194 77  
## 1864 -0.6915587232 -0.133120240 0.6744439777 0.0061337204 77  
## 1865 -0.0910771431 -0.733308266 0.8533743033 -1.0425874731 77  
## 1866 1.3534821301 0.990248153 -1.3617734677 0.6824835115 77  
## 1867 -0.0701938728 -0.816544603 -0.6808891530 0.1262058645 77  
## 1868 -1.0411702979 -0.364652295 1.3416580877 0.4836652194 77  
## 1869 0.2054909784 -1.358489999 -1.7467520619 0.9970082423 77  
## 1870 0.0139796148 -0.793263717 0.6113494977 -1.0264935386 77  
## 1871 0.5407852714 0.065853009 -0.1229057507 1.2924194245 77  
## 1872 1.0778479903 -0.465754397 -0.3150788292 0.8857111319 77  
## 1873 -0.2644168881 -0.564945559 0.8387614497 -0.3781488656 77  
## 1874 -1.4456612971 -0.656953142 -1.2539821824 -0.4255212925 77  
## 1875 0.6870232735 0.053625891 -0.3906852357 -1.5682519817 77  
## 1876 0.4971397016 -0.788030625 0.0074686954 -0.8349920605 77  
## 1877 0.5238653437 -0.516166400 -1.2817005447 1.0994184699 77  
## 1878 1.3309475184 -1.214764042 -0.5580968776 1.0461144130 77  
## 1879 1.1420766436 -0.531505458 -0.3947777848 -0.2993997674 77  
## 1880 0.2277324705 -0.715221335 -0.8021574102 1.0594164671 77  
## 1881 0.0051142121 0.089798133 -1.7280841922 0.7479939747 77  
## 1882 0.6331955380 -0.823935507 1.1035567665 -1.2607650460 77  
## 1883 0.6018570697 -0.767902227 -0.7474000846 1.5373945000 77  
## 1884 0.8445836292 -0.260573341 0.5579237427 0.5785795225 77  
## 1885 1.1396105983 -0.524693276 0.0607055425 -0.4303299220 77  
## 1886 -2.1571083826 0.322103187 1.4148717803 -0.2112359368 77  
## 1887 1.2009826022 -1.153811065 1.1596741667 0.2752934515 77  
## 1888 -0.5679073418 0.814201115 0.2022573457 -0.8710468478 78  
## 1889 0.6528137093 -0.354286897 1.2143691427 -0.6213827040 78  
## 1890 0.6646673035 0.798362729 -0.7413436520 -0.1871600217 78  
## 1891 0.3384188945 2.514670750 -1.2199601726 -0.1783995073 78  
## 1892 0.3679305310 -0.227326836 -0.7985934641 -0.4304643240 78  
## 1893 0.5739350290 1.445238451 -1.0483264120 0.4214653240 78  
## 1894 -0.8587568415 0.222501300 -1.1190872856 0.3702985453 78  
## 1895 0.2437195536 -0.517330024 0.8250371253 0.2138570931 78  
## 1896 -0.2303277250 1.309444849 -1.1525134539 0.5666426334 78  
## 1897 0.8329905201 -0.545602919 -0.2763212059 -0.9280848620 78  
## 1898 -0.6485656662 -1.899594922 -0.1723172110 0.0591024124 78  
## 1899 0.0364414304 -0.236001952 -0.2850426000 -0.8880968137 78  
## 1900 1.1752304489 0.242659787 1.6481852709 0.8424834100 78  
## 1901 0.1859250181 -0.063798027 1.0390391521 -1.4695296816 78  
## 1902 0.4227129364 0.311056228 -0.0078415546 -1.4841006140 78  
## 1903 0.6471051773 -0.648906489 -2.6398804887 -0.8331431550 78  
## 1904 0.2962218451 -0.144651418 -0.7385232654 -0.6118722090 78  
## 1905 -0.4183477496 -0.653834631 -1.9524260560 -0.1504077294 78  
## 1906 0.2591630864 -0.439328390 -2.1995888011 -0.0827352038 78  
## 1907 0.4322995846 -0.665950470 0.3796329513 -0.2150914516 78  
## 1908 -0.6272124709 -0.666167839 -0.2689959737 -0.1017725586 78  
## 1909 -0.8439829641 -0.783464605 -0.3883946939 -0.9406058230 78  
## 1910 0.2120537998 3.233614749 -0.0199695415 0.3385274979 79  
## 1911 0.7448156834 0.221320595 0.3193356620 0.5249046574 79  
## 1912 0.4394038155 -0.936604280 1.3561738988 0.4334158914 79  
## 1913 -0.3839278511 -1.787128853 0.6240816278 0.2273876576 79  
## 1914 0.2069752592 0.314277844 0.1087532951 -0.4486465445 79  
## 1915 0.4305312682 0.102012660 0.2646654448 -1.4512051560 79  
## 1916 -0.6035718269 0.887216748 0.7483147425 0.7114363254 79  
## 1917 0.5046860143 -0.529172213 -0.4271525374 -1.1705835429 79  
## 1918 -0.8040468176 -0.588770204 0.5005113554 1.2615665762 79  
## 1919 -0.8787501838 0.260130218 0.4796232437 -0.4659673221 79  
## 1920 0.1130925916 0.028719591 -1.2353515104 -0.4975520929 79  
## 1921 0.4090981076 -0.178789383 1.5417643706 -0.0695277503 79  
## 1922 -1.2682378563 -0.460437430 0.6972799339 -1.2881259054 79  
## 1923 0.8076967506 -0.822334957 0.1080882223 0.4416802459 79  
## 1924 0.6503174094 -0.298946501 0.6252562511 -0.5981306878 79  
## 1925 1.0625883729 0.928462810 -1.3766829765 -0.7069823999 79  
## 1926 -0.1325827390 -0.998813061 -0.4528760969 1.3543614938 79  
## 1927 0.4182725752 -0.930408908 0.5530646506 -1.3855285356 79  
## 1928 1.0158693450 0.327914619 -1.8167565802 -0.3995601700 79  
## 1929 -0.1626310927 -1.185834029 2.5440215796 2.4112630901 79  
## 1930 -0.3785081210 -0.482347879 -0.2592696664 -1.1545359226 80  
## 1931 -0.2313248262 0.559299183 1.0341298722 -2.1914651403 80  
## 1932 -0.4065086346 0.857985480 -0.0354811191 -0.8832214767 80  
## 1933 -0.3989659172 0.299497611 -0.7839354590 -1.0766792197 80  
## 1934 0.6266127859 0.726653794 -1.4016031918 -0.5987525042 80  
## 1935 -1.6368638631 -1.067547404 -0.0524511733 0.4015836720 80  
## 1936 0.5881308570 1.223486239 -0.7963711928 -0.4131080012 80  
## 1937 -0.3207933294 0.737432708 -0.9176015024 0.4298581122 80  
## 1938 -0.0521086133 0.531476128 -0.9816570584 -0.7764889408 80  
## 1939 -0.4842454729 -0.577198592 -0.6918666358 -0.6772368031 80  
## 1940 0.2663172103 -1.534661767 0.1215262388 0.8217625285 80  
## 1941 1.0996107985 0.044961944 0.9370257458 -1.8444030358 80  
## 1942 0.5198115714 -0.763365490 0.1331813148 -0.6056014053 81  
## 1943 -0.9784684344 -0.430670128 -0.9617645600 -0.6763272747 81  
## 1944 0.7490387714 1.347898575 -0.0206213343 -0.1817654763 81  
## 1945 0.4217357334 -0.324713755 1.1860110048 0.0917572166 81  
## 1946 0.5938129144 -0.783244474 0.5917288205 0.0062757159 81  
## 1947 0.4668064409 0.194519231 -0.2608753948 -0.0422291270 81  
## 1948 0.6739351726 -1.145689970 -0.2624116939 -1.3514474884 81  
## 1949 -0.9232995067 -0.015087893 1.2208333241 0.2980165396 81  
## 1950 -0.2425722198 0.028678238 -0.1771822209 -0.4253202695 81  
## 1951 -5.9438074431 -0.864578738 -0.0667848609 0.5047905650 81  
## 1952 0.6407563414 -0.199817604 -1.1785831912 0.9512023940 81  
## 1953 0.3194697320 -0.997329948 1.2798575878 0.3464918220 81  
## 1954 -0.1163442264 -0.591441243 0.5765358829 -1.1841608621 81  
## 1955 0.7588399304 0.406254571 -0.4274781464 -1.1512086141 81  
## 1956 0.9715126686 -0.377606837 -1.6771121160 -0.3431523459 81  
## 1957 -0.9153906973 -0.653701000 0.8468433675 -1.0922047865 81  
## 1958 0.8285520968 -0.336403101 -0.2693619845 0.3938031061 81  
## 1959 0.6329584260 1.575909899 1.2303230811 1.7239998237 82  
## 1960 0.6295469694 -0.219375461 -0.1139294800 -1.0427704770 82  
## 1961 0.1366577686 1.011788811 -0.3104141911 -0.6035856225 82  
## 1962 0.5457523223 -0.240183913 -0.0936407595 -1.0547040250 82  
## 1963 1.1938509771 0.115486193 -0.2013298847 0.8253164453 82  
## 1964 -0.0394558093 -1.778974646 1.1913535842 0.7318291114 82  
## 1965 0.8403820972 0.538902051 -0.9289078408 1.5376284199 82  
## 1966 -1.2645178319 0.697973880 2.4152820446 0.4872782606 82  
## 1967 -1.5915694180 -0.724031997 0.6065430118 -1.2773726411 82  
## 1968 0.1689765906 -0.532755332 0.6991331571 -1.3126622969 82  
## 1969 0.8719598010 0.203631840 -0.0657773747 -0.7635426345 82  
## 1970 1.3470275709 0.241228027 -1.5536614158 -0.3350720604 82  
## 1971 0.0281133583 -2.215230534 1.0566625331 2.1485521554 82  
## 1972 0.3714741084 -0.366923109 0.1579954064 -0.0301021203 82  
## 1973 -0.1629584532 1.061212997 -0.4677487925 -0.4463493031 83  
## 1974 -1.2039077774 -0.424496597 0.0936849589 0.3369945563 83  
## 1975 -0.6712987585 0.543016094 -1.2442116942 0.7818088070 83  
## 1976 -1.5188556681 0.407823517 1.1348940296 -0.6924361268 83  
## 1977 -0.2276615834 0.066524050 0.8819736359 0.9499922703 83  
## 1978 -0.0228177949 0.079874962 0.1928520141 -0.8197483000 83  
## 1979 -1.5795818209 -1.165803042 -0.5832896971 0.9090502140 83  
## 1980 -0.4645952913 -0.534252187 -0.9024296903 -0.4264271604 83  
## 1981 0.2049882947 -0.127103285 0.1390343845 0.8862760011 83  
## 1982 -2.9312903764 -0.160009389 0.2867465406 -0.3950258455 83  
## 1983 0.1684968490 -0.335608016 -0.6840708329 0.0295261291 84  
## 1984 0.0632782384 -0.710137599 -0.6056403250 -0.0475579132 84  
## 1985 -0.4116121680 0.752214934 -0.3364137428 -0.6626781670 84  
## 1986 0.9061238312 -0.671238482 0.0534281570 -1.5528205135 84  
## 1987 -0.2977532243 0.162877653 -0.0177548401 -0.2112068058 84  
## 1988 -0.8923434031 -1.031914638 0.4991361875 -0.6208341222 85  
## 1989 -0.0935299825 0.744952318 0.8697786177 -2.3640528850 85  
## 1990 0.2084976886 1.755113954 -1.1919876645 -0.7641931992 85  
## 1991 -1.5597352016 0.890735827 -0.7803936911 -1.5168847754 85  
## 1992 -2.2289198075 0.419977936 -0.0409971892 0.7832625605 85  
## 1993 0.9049757193 -0.577868072 0.3113748322 -1.1232472226 85  
## 1994 -0.6270254753 -0.814771125 -0.0365606809 -0.2940971474 85  
## 1995 0.1711334108 0.407128738 -0.1859147921 -1.1203769611 86  
## 1996 0.0024465749 -0.704279861 -0.8465052091 0.9230491013 86  
## 1997 -0.2918765360 0.635790111 -1.6618372221 0.0367059079 86  
## 1998 0.0698614112 0.390633030 1.5395747682 0.4099968219 87  
## 1999 -0.3569099617 -0.487340603 -0.7731341945 1.2411667506 89  
## 2000 -1.9324592625 -0.824356384 -1.0180268712 0.2862357651 89

# corrplot of pca data  
cor(pc)

## PC1 PC2 PC3 PC4 popularity  
## PC1 1.000000e+00 3.378873e-16 6.096443e-17 -1.693086e-17 0.001695892  
## PC2 3.378873e-16 1.000000e+00 1.301797e-17 1.800321e-16 -0.035947253  
## PC3 6.096443e-17 1.301797e-17 1.000000e+00 2.478142e-15 -0.047279290  
## PC4 -1.693086e-17 1.800321e-16 2.478142e-15 1.000000e+00 -0.069399631  
## popularity 1.695892e-03 -3.594725e-02 -4.727929e-02 -6.939963e-02 1.000000000

cor <-cor(pc[,1:4])  
corrplot(cor, type = "upper")



#########################Splitting data into training and validation sets

#default seperation of traning and validate datasets  
set.seed(111)  
indices.df <- sample(c(1:dim(df)[1]), dim(df)[1]\*0.6)  
train.df <- df[indices.df, ]  
valid.df <- df[-indices.df, ]  
train.df

## popularity acousticness danceability instrumentalness speechiness liveness  
## 1998 87 7.69e-02 0.6710 3.35e-04 0.3070 0.0856  
## 507 62 4.31e-01 0.7600 1.25e-06 0.3860 0.1060  
## 1748 74 3.27e-02 0.6550 2.64e-03 0.1880 0.0611  
## 979 65 4.59e-01 0.3420 0.00e+00 0.0425 0.1220  
## 175 59 4.20e-01 0.5480 0.00e+00 0.0375 0.1050  
## 793 64 6.21e-01 0.6490 0.00e+00 0.0398 0.0563  
## 699 63 8.46e-01 0.4440 7.64e-01 0.0695 0.3750  
## 69 58 4.72e-01 0.7700 0.00e+00 0.3580 0.1070  
## 1699 73 6.32e-01 0.6910 4.79e-01 0.0544 0.1080  
## 1608 72 4.82e-01 0.8290 0.00e+00 0.3670 0.6310  
## 1818 76 1.13e-01 0.8080 0.00e+00 0.4420 0.7340  
## 305 60 5.49e-01 0.8490 2.29e-03 0.0447 0.1020  
## 1069 66 3.11e-02 0.8850 0.00e+00 0.2000 0.1540  
## 586 62 2.08e-01 0.8640 5.27e-06 0.3860 0.1000  
## 996 66 1.91e-01 0.4670 0.00e+00 0.0302 0.0769  
## 1903 78 5.42e-01 0.9030 1.28e-05 0.2140 0.0595  
## 1928 79 3.23e-01 0.8260 0.00e+00 0.0524 0.1430  
## 1358 69 2.41e-01 0.5740 8.06e-03 0.0728 0.0962  
## 1626 72 7.50e-01 0.6710 1.38e-06 0.0605 0.1100  
## 281 60 3.78e-02 0.5380 0.00e+00 0.1190 0.1590  
## 1944 81 1.86e-01 0.7360 0.00e+00 0.3110 0.1140  
## 763 64 2.65e-01 0.6840 0.00e+00 0.6410 0.1310  
## 1968 82 1.84e-01 0.7650 3.56e-05 0.0300 0.1320  
## 625 63 5.99e-03 0.5760 0.00e+00 0.0471 0.1880  
## 1851 76 2.69e-01 0.7370 0.00e+00 0.0323 0.2190  
## 135 59 8.28e-01 0.7390 7.35e-05 0.2200 0.1210  
## 405 61 1.07e-03 0.7120 0.00e+00 0.0335 0.2190  
## 143 59 4.13e-01 0.6590 0.00e+00 0.2640 0.1250  
## 1793 75 7.62e-02 0.7350 2.17e-05 0.0930 0.1110  
## 649 63 1.30e-02 0.8890 0.00e+00 0.3570 0.1840  
## 1855 77 7.65e-02 0.5960 3.34e-01 0.0970 0.1040  
## 40 57 1.93e-02 0.8270 0.00e+00 0.3510 0.0591  
## 1049 66 9.59e-01 0.5090 2.29e-01 0.0313 0.0963  
## 1992 85 7.20e-01 0.4980 0.00e+00 0.1880 0.1440  
## 1479 70 4.26e-02 0.6000 0.00e+00 0.0950 0.0882  
## 180 59 8.74e-01 0.7160 4.20e-05 0.3400 0.1360  
## 1124 67 8.18e-01 0.6560 3.86e-03 0.1620 0.1070  
## 1564 71 4.59e-02 0.5450 7.24e-03 0.0359 0.1500  
## 1062 66 5.53e-02 0.6600 0.00e+00 0.1720 0.1290  
## 1978 83 2.97e-01 0.7520 9.11e-06 0.0705 0.0936  
## 701 63 8.84e-01 0.3740 1.23e-02 0.0353 0.1220  
## 1460 70 7.15e-01 0.8160 7.85e-01 0.0379 0.1080  
## 836 64 4.94e-01 0.7340 2.93e-03 0.3060 0.1020  
## 1503 70 7.63e-01 0.4510 2.49e-06 0.0310 0.1350  
## 798 64 8.69e-01 0.8200 9.61e-01 0.0802 0.0925  
## 197 59 1.02e-01 0.9120 0.00e+00 0.1410 0.1790  
## 821 64 7.37e-01 0.7900 3.56e-01 0.0706 0.1380  
## 421 61 3.60e-03 0.4890 1.33e-06 0.0540 0.1110  
## 1478 70 5.61e-02 0.6630 3.77e-05 0.1030 0.0778  
## 100 58 2.25e-01 0.6480 1.32e-03 0.0821 0.0682  
## 1344 69 4.16e-01 0.4580 9.19e-02 0.1500 0.0966  
## 1833 76 3.81e-03 0.8000 0.00e+00 0.0485 0.3590  
## 1116 67 5.71e-01 0.8660 0.00e+00 0.3200 0.1000  
## 874 65 5.93e-02 0.7500 0.00e+00 0.0412 0.1990  
## 1234 68 7.82e-01 0.3560 0.00e+00 0.0652 0.1090  
## 186 59 2.70e-02 0.8790 0.00e+00 0.0610 0.0656  
## 1592 71 1.46e-01 0.7090 3.29e-06 0.1660 0.2490  
## 61 58 1.11e-01 0.6290 0.00e+00 0.0507 0.1970  
## 1917 79 6.05e-02 0.6980 1.94e-04 0.0597 0.0926  
## 1115 67 2.32e-01 0.5610 0.00e+00 0.0717 0.1070  
## 605 63 4.67e-02 0.7130 0.00e+00 0.1110 0.2150  
## 855 65 1.40e-01 0.6340 0.00e+00 0.0291 0.2160  
## 864 65 1.52e-02 0.8180 0.00e+00 0.1110 0.1190  
## 1397 69 2.05e-01 0.8020 7.48e-04 0.2890 0.2460  
## 1517 71 4.69e-01 0.8170 0.00e+00 0.1400 0.1310  
## 769 64 9.22e-01 0.4380 2.98e-04 0.0363 0.1480  
## 1276 68 1.33e-02 0.7950 0.00e+00 0.2590 0.1130  
## 170 59 1.64e-01 0.7490 1.22e-05 0.1410 0.1760  
## 592 62 9.42e-02 0.6500 0.00e+00 0.4580 0.1350  
## 1066 66 1.53e-01 0.6640 9.14e-05 0.0543 0.1730  
## 1447 70 1.07e-01 0.7920 0.00e+00 0.0851 0.1830  
## 388 61 5.76e-02 0.6020 0.00e+00 0.0347 0.0932  
## 308 60 8.48e-01 0.2610 0.00e+00 0.0368 0.1130  
## 1137 67 2.26e-02 0.6980 0.00e+00 0.0520 0.0622  
## 985 66 1.52e-01 0.7260 0.00e+00 0.2960 0.6420  
## 91 58 5.27e-03 0.5410 0.00e+00 0.1220 0.0867  
## 310 60 2.06e-01 0.8350 0.00e+00 0.4460 0.1290  
## 1711 73 3.54e-01 0.7910 2.93e-05 0.0464 0.1040  
## 408 61 8.95e-02 0.5770 1.10e-05 0.4180 0.1030  
## 400 61 1.92e-02 0.9020 0.00e+00 0.2660 0.1090  
## 1661 72 9.84e-02 0.6000 1.26e-06 0.0493 0.1100  
## 1581 71 3.28e-01 0.7220 1.47e-05 0.2470 0.1980  
## 1871 77 1.54e-01 0.6990 3.20e-06 0.0336 0.3620  
## 1051 66 2.24e-01 0.4690 0.00e+00 0.1220 0.1300  
## 1373 69 9.41e-02 0.6230 0.00e+00 0.0595 0.1190  
## 1146 67 2.16e-02 0.8730 3.56e-04 0.1500 0.0867  
## 728 63 5.98e-01 0.8180 1.35e-04 0.2920 0.1080  
## 606 63 3.90e-01 0.7510 0.00e+00 0.0519 0.1210  
## 316 60 2.44e-04 0.8850 1.16e-06 0.3590 0.4540  
## 1082 66 5.54e-01 0.7750 2.85e-03 0.0920 0.1120  
## 1409 70 4.91e-02 0.4910 0.00e+00 0.0481 0.2420  
## 797 64 2.15e-01 0.8960 3.92e-06 0.2380 0.1840  
## 1625 72 3.80e-02 0.6250 2.31e-05 0.0776 0.1670  
## 1514 71 5.95e-02 0.7430 0.00e+00 0.2120 0.2990  
## 410 61 1.93e-02 0.7200 0.00e+00 0.2210 0.1070  
## 786 64 3.59e-01 0.7850 1.98e-03 0.0634 0.0774  
## 885 65 1.19e-02 0.7250 0.00e+00 0.1590 0.0860  
## 736 64 6.35e-01 0.5680 0.00e+00 0.0288 0.1220  
## 147 59 2.04e-03 0.8530 4.43e-06 0.2040 0.1010  
## 1313 69 2.13e-02 0.8220 0.00e+00 0.5740 0.0757  
## 473 62 5.63e-02 0.8740 0.00e+00 0.3520 0.0956  
## 795 64 1.14e-01 0.6530 0.00e+00 0.3190 0.1110  
## 988 66 5.06e-02 0.5380 9.52e-05 0.0343 0.1000  
## 1948 81 1.02e-02 0.7050 8.55e-04 0.0385 0.1000  
## 459 61 8.06e-01 0.7710 2.48e-05 0.0404 0.1040  
## 1823 76 1.04e-03 0.9220 5.86e-05 0.2700 0.1050  
## 716 63 3.21e-02 0.5990 0.00e+00 0.2990 0.4000  
## 351 61 7.52e-02 0.8230 0.00e+00 0.5010 0.0976  
## 1542 71 4.62e-01 0.6980 4.24e-04 0.2990 0.3350  
## 1772 75 7.42e-02 0.5360 0.00e+00 0.0621 0.0847  
## 95 58 3.02e-02 0.6230 0.00e+00 0.1440 0.2500  
## 1158 67 1.40e-01 0.6220 3.69e-04 0.0372 0.1190  
## 658 63 2.17e-02 0.5810 5.39e-03 0.0274 0.2590  
## 713 63 1.23e-02 0.5460 3.26e-01 0.0501 0.1030  
## 1612 72 1.24e-01 0.9180 0.00e+00 0.0605 0.0595  
## 530 62 3.00e-01 0.6940 0.00e+00 0.0706 0.1580  
## 1606 72 1.14e-02 0.8100 5.69e-06 0.1700 0.1070  
## 1293 68 7.99e-01 0.4440 0.00e+00 0.0300 0.1140  
## 564 62 8.85e-01 0.6070 0.00e+00 0.0902 0.1650  
## 1965 82 1.69e-02 0.5960 0.00e+00 0.4630 0.1240  
## 645 63 3.34e-01 0.5400 1.66e-03 0.0554 0.1770  
## 415 61 1.13e-01 0.8410 9.65e-05 0.0458 0.1310  
## 1734 74 3.07e-01 0.8770 0.00e+00 0.0587 0.0929  
## 1144 67 7.09e-02 0.9140 2.37e-03 0.1660 0.0599  
## 534 62 3.06e-01 0.7790 7.39e-01 0.0396 0.1060  
## 508 62 1.83e-02 0.7910 0.00e+00 0.2660 0.0963  
## 1532 71 3.01e-01 0.7920 0.00e+00 0.0940 0.1000  
## 1889 78 3.81e-02 0.7420 0.00e+00 0.2020 0.0952  
## 283 60 1.71e-01 0.6050 0.00e+00 0.3850 0.1510  
## 1966 82 6.07e-01 0.7950 0.00e+00 0.0574 0.6230  
## 497 62 1.40e-01 0.6930 0.00e+00 0.1070 0.0464  
## 1450 70 4.34e-01 0.7310 3.34e-06 0.0555 0.1140  
## 959 65 2.56e-01 0.6610 2.46e-02 0.0280 0.1050  
## 900 65 6.04e-02 0.9660 2.20e-01 0.0674 0.0511  
## 1176 67 9.13e-01 0.5410 1.99e-03 0.3130 0.1260  
## 215 59 1.68e-02 0.7060 4.62e-05 0.0565 0.1060  
## 1763 74 5.79e-01 0.5030 1.49e-06 0.0470 0.0712  
## 1754 74 7.98e-01 0.3970 4.16e-06 0.1100 0.0824  
## 13 56 2.22e-01 0.7840 0.00e+00 0.2450 0.3770  
## 87 58 5.53e-02 0.8340 0.00e+00 0.3050 0.0740  
## 997 66 9.06e-02 0.7620 0.00e+00 0.1640 0.1700  
## 50 57 1.95e-02 0.4860 4.91e-03 0.0303 0.1170  
## 819 64 6.39e-04 0.6300 8.52e-01 0.0387 0.2030  
## 1900 78 1.61e-02 0.7100 2.77e-06 0.0722 0.4510  
## 1094 66 3.22e-01 0.7020 0.00e+00 0.0417 0.0858  
## 840 64 1.76e-01 0.8290 0.00e+00 0.1050 0.0877  
## 932 65 2.98e-02 0.6150 0.00e+00 0.0320 0.1060  
## 908 65 4.13e-01 0.6360 0.00e+00 0.3290 0.3390  
## 1828 76 8.76e-02 0.9070 2.60e-06 0.1840 0.1060  
## 1530 71 2.79e-01 0.8990 0.00e+00 0.3430 0.0836  
## 268 60 4.69e-01 0.7640 0.00e+00 0.0833 0.1230  
## 342 60 4.22e-03 0.7920 0.00e+00 0.4580 0.2850  
## 1794 75 1.21e-01 0.7000 7.08e-06 0.0666 0.1030  
## 1967 82 8.39e-01 0.6820 3.26e-05 0.0314 0.0983  
## 1570 71 1.93e-01 0.6850 0.00e+00 0.0987 0.1390  
## 707 63 2.61e-01 0.9070 0.00e+00 0.3540 0.0785  
## 1196 67 3.29e-01 0.6860 0.00e+00 0.1310 0.1360  
## 336 60 7.39e-01 0.4060 1.61e-02 0.0450 0.1080  
## 661 63 9.82e-02 0.5540 8.12e-02 0.0804 0.5610  
## 1247 68 8.67e-02 0.9170 0.00e+00 0.2660 0.5880  
## 627 63 1.72e-02 0.8190 1.11e-05 0.1680 0.1070  
## 624 63 1.03e-01 0.6860 1.15e-01 0.0263 0.1220  
## 1193 67 2.14e-01 0.5190 0.00e+00 0.3650 0.0571  
## 90 58 1.51e-01 0.4760 6.33e-02 0.0287 0.0982  
## 300 60 2.05e-01 0.7920 4.10e-06 0.1910 0.1960  
## 772 64 2.47e-01 0.8880 0.00e+00 0.2710 0.4460  
## 675 63 5.01e-02 0.7120 0.00e+00 0.0386 0.2530  
## 1738 74 1.11e-01 0.8000 0.00e+00 0.2710 0.4290  
## 833 64 2.25e-01 0.7250 0.00e+00 0.0433 0.0779  
## 521 62 6.01e-04 0.6600 3.12e-01 0.0332 0.0949  
## 1976 83 7.79e-01 0.6990 9.93e-04 0.0993 0.1370  
## 1719 73 1.89e-01 0.7350 0.00e+00 0.1400 0.1250  
## 1747 74 4.22e-02 0.4600 5.04e-05 0.3260 0.1380  
## 687 63 9.49e-01 0.5930 1.31e-05 0.0722 0.1940  
## 1914 79 1.65e-02 0.9120 1.26e-02 0.1230 0.1040  
## 67 58 5.21e-01 0.6490 0.00e+00 0.3630 0.2420  
## 48 57 3.69e-02 0.8140 0.00e+00 0.3600 0.1100  
## 1023 66 1.14e-01 0.6530 3.23e-06 0.0663 0.1170  
## 684 63 4.91e-04 0.5220 2.22e-06 0.0435 0.1580  
## 155 59 5.74e-01 0.8720 1.79e-06 0.0629 0.0617  
## 749 64 2.20e-01 0.7360 1.52e-03 0.0296 0.1270  
## 362 61 8.37e-04 0.4840 9.29e-06 0.0912 0.1700  
## 266 60 2.36e-02 0.8410 0.00e+00 0.4160 0.4180  
## 1187 67 7.47e-02 0.7340 5.77e-04 0.0806 0.0968  
## 1704 73 8.57e-01 0.5520 0.00e+00 0.0359 0.0838  
## 1377 69 5.58e-01 0.7410 0.00e+00 0.0357 0.0583  
## 928 65 2.67e-01 0.6600 0.00e+00 0.0594 0.0857  
## 773 64 1.24e-01 0.6660 2.86e-01 0.0268 0.0950  
## 1807 75 2.90e-01 0.5090 0.00e+00 0.0276 0.1310  
## 927 65 1.23e-03 0.6440 0.00e+00 0.0939 0.0793  
## 1021 66 9.44e-01 0.4790 9.42e-05 0.0639 0.1260  
## 1254 68 1.29e-01 0.8530 0.00e+00 0.3310 0.2670  
## 590 62 5.34e-02 0.8260 1.18e-06 0.0619 0.1210  
## 451 61 9.87e-01 0.3300 9.30e-01 0.0332 0.2100  
## 923 65 4.03e-02 0.7400 2.77e-06 0.1960 0.2530  
## 895 65 2.99e-01 0.8310 0.00e+00 0.1430 0.0757  
## 882 65 1.86e-01 0.9520 1.31e-06 0.0814 0.3270  
## 1481 70 4.82e-01 0.7460 1.36e-05 0.1440 0.0838  
## 1223 68 4.58e-01 0.5610 0.00e+00 0.0381 0.1380  
## 1640 72 1.65e-01 0.6940 8.92e-04 0.0301 0.2500  
## 1539 71 7.36e-01 0.7590 9.89e-03 0.1200 0.1070  
## 331 60 1.07e-01 0.9470 6.91e-04 0.1240 0.1080  
## 1364 69 6.70e-02 0.6310 0.00e+00 0.0878 0.0952  
## 518 62 7.89e-02 0.6560 0.00e+00 0.0765 0.1330  
## 372 61 1.31e-01 0.4950 6.77e-06 0.0290 0.1040  
## 568 62 6.49e-02 0.7810 0.00e+00 0.0296 0.2930  
## 168 59 5.79e-01 0.6990 7.16e-06 0.0296 0.1670  
## 1382 69 2.73e-02 0.4940 0.00e+00 0.0405 0.1050  
## 1398 69 4.58e-02 0.5370 2.54e-06 0.0411 0.1120  
## 1277 68 9.84e-01 0.1440 6.99e-01 0.0582 0.1060  
## 641 63 4.56e-02 0.5890 1.51e-06 0.3610 0.1370  
## 943 65 2.75e-01 0.7730 0.00e+00 0.2230 0.1120  
## 217 59 5.14e-02 0.4830 1.63e-01 0.0323 0.0981  
## 1043 66 3.66e-02 0.6370 3.08e-02 0.0337 0.0809  
## 839 64 4.84e-02 0.5750 4.17e-04 0.0300 0.2860  
## 299 60 4.69e-01 0.6220 1.28e-05 0.2080 0.1850  
## 718 63 1.50e-02 0.6470 0.00e+00 0.0378 0.0684  
## 1984 84 3.31e-01 0.6800 0.00e+00 0.0400 0.1350  
## 1806 75 6.93e-01 0.4700 0.00e+00 0.0371 0.1040  
## 120 58 7.28e-01 0.9530 0.00e+00 0.3900 0.2700  
## 771 64 4.07e-01 0.6180 0.00e+00 0.3310 0.1830  
## 522 62 7.86e-01 0.6370 4.27e-06 0.5440 0.9390  
## 12 56 2.67e-02 0.8970 4.47e-06 0.2190 0.1190  
## 63 58 5.67e-02 0.9420 0.00e+00 0.3020 0.1080  
## 938 65 5.27e-03 0.3760 1.62e-03 0.0325 0.1230  
## 1493 70 4.15e-01 0.8220 0.00e+00 0.2970 0.0797  
## 743 64 3.41e-01 0.5600 9.81e-06 0.0446 0.1550  
## 172 59 1.81e-01 0.6240 0.00e+00 0.0436 0.1900  
## 1836 76 9.65e-02 0.4580 0.00e+00 0.0269 0.1560  
## 1422 70 3.27e-01 0.7360 0.00e+00 0.1960 0.2290  
## 1439 70 3.41e-01 0.6720 2.40e-05 0.0340 0.1060  
## 1310 69 7.79e-02 0.8220 0.00e+00 0.2850 0.1610  
## 1012 66 3.52e-01 0.5430 0.00e+00 0.2110 0.2800  
## 1983 84 1.75e-02 0.6690 2.94e-03 0.0286 0.1460  
## 1838 76 5.56e-01 0.8260 1.85e-05 0.0674 0.2730  
## 246 60 2.70e-01 0.8030 0.00e+00 0.3180 0.0819  
## 1030 66 1.32e-01 0.8590 0.00e+00 0.1820 0.3340  
## 719 63 2.81e-01 0.6200 1.02e-05 0.0345 0.1140  
## 544 62 1.94e-01 0.5510 0.00e+00 0.1890 0.0956  
## 106 58 4.81e-01 0.6110 4.82e-06 0.0350 0.1070  
## 134 59 2.44e-01 0.7170 0.00e+00 0.3430 0.1480  
## 587 62 4.54e-01 0.6030 1.40e-04 0.0402 0.1540  
## 720 63 3.70e-01 0.7650 0.00e+00 0.0437 0.0390  
## 195 59 2.95e-02 0.9710 0.00e+00 0.2300 0.0970  
## 409 61 1.94e-01 0.7730 4.43e-04 0.1080 0.1410  
## 837 64 1.60e-01 0.9280 3.29e-04 0.1230 0.0940  
## 1736 74 2.22e-01 0.8840 0.00e+00 0.4180 0.1120  
## 1425 70 9.04e-01 0.5030 0.00e+00 0.0547 0.3030  
## 978 65 5.81e-01 0.6720 2.08e-06 0.0268 0.1010  
## 1791 75 9.56e-01 0.4510 0.00e+00 0.2350 0.1950  
## 1566 71 3.42e-01 0.7820 1.88e-05 0.0611 0.1330  
## 367 61 6.42e-01 0.5030 1.43e-03 0.0259 0.1110  
## 721 63 6.96e-01 0.1200 9.39e-01 0.0383 0.1100  
## 1040 66 6.57e-01 0.6040 0.00e+00 0.0353 0.0932  
## 696 63 3.63e-02 0.6700 5.35e-06 0.0731 0.2210  
## 128 59 2.78e-04 0.2690 0.00e+00 0.0362 0.6090  
## 1442 70 8.10e-01 0.6600 2.15e-06 0.0482 0.1100  
## 30 57 5.97e-02 0.3730 0.00e+00 0.0620 0.0715  
## 1127 67 1.15e-01 0.7720 0.00e+00 0.6490 0.0898  
## 496 62 1.12e-01 0.4310 0.00e+00 0.0298 0.1290  
## 703 63 7.24e-02 0.5880 1.23e-05 0.0434 0.6730  
## 1102 67 2.42e-01 0.5570 0.00e+00 0.0325 0.1140  
## 1957 81 7.51e-01 0.5010 0.00e+00 0.0319 0.1050  
## 453 61 6.79e-02 0.9010 0.00e+00 0.4130 0.5360  
## 1214 68 2.59e-01 0.4940 1.15e-06 0.0282 0.1090  
## 1235 68 3.55e-02 0.7820 0.00e+00 0.3410 0.0615  
## 127 58 1.82e-01 0.7900 7.06e-06 0.1420 0.3380  
## 1308 69 9.36e-02 0.7900 0.00e+00 0.2120 0.3570  
## 1989 85 5.56e-01 0.7600 0.00e+00 0.0466 0.0703  
## 1264 68 7.71e-01 0.6170 0.00e+00 0.0326 0.0809  
## 1075 66 6.30e-01 0.7220 2.56e-04 0.0451 0.1290  
## 554 62 8.16e-01 0.7790 9.03e-01 0.0555 0.1080  
## 990 66 3.25e-02 0.7250 3.55e-06 0.0363 0.0531  
## 219 59 5.23e-01 0.5710 5.48e-05 0.0401 0.1480  
## 859 65 3.28e-01 0.6310 0.00e+00 0.0280 0.2390  
## 1980 83 6.97e-01 0.5530 0.00e+00 0.0362 0.0813  
## 834 64 3.05e-02 0.6160 0.00e+00 0.3110 0.3760  
## 1244 68 1.83e-03 0.9380 0.00e+00 0.1440 0.0770  
## 1707 73 3.37e-01 0.7950 0.00e+00 0.0675 0.0983  
## 1995 86 2.58e-01 0.7400 3.72e-03 0.1450 0.1230  
## 510 62 7.61e-02 0.8460 0.00e+00 0.3360 0.0820  
## 216 59 7.06e-02 0.8560 1.33e-06 0.1950 0.0991  
## 1334 69 2.14e-01 0.6660 0.00e+00 0.0326 0.0979  
## 1186 67 6.83e-04 0.4990 1.36e-01 0.1160 0.0871  
## 311 60 3.81e-02 0.5140 9.55e-06 0.0629 0.1030  
## 1649 72 2.18e-01 0.7370 0.00e+00 0.0441 0.3160  
## 588 62 5.55e-02 0.6940 2.90e-03 0.4820 0.5470  
## 1930 80 6.57e-01 0.6310 0.00e+00 0.0277 0.1100  
## 1154 67 2.35e-02 0.7360 0.00e+00 0.1330 0.1510  
## 974 65 3.66e-03 0.5890 4.87e-05 0.0623 0.0843  
## 1789 75 6.06e-01 0.5510 3.02e-05 0.0985 0.1100  
## 1554 71 3.11e-02 0.9390 0.00e+00 0.2910 0.1920  
## 546 62 7.35e-02 0.5880 8.15e-01 0.0372 0.1280  
## 1032 66 7.56e-03 0.4480 0.00e+00 0.0319 0.1170  
## 520 62 8.76e-01 0.7170 6.94e-04 0.0368 0.0836  
## 1962 82 1.71e-01 0.7530 0.00e+00 0.0449 0.1120  
## 804 64 2.29e-01 0.7810 5.36e-04 0.0647 0.0881  
## 369 61 3.28e-01 0.8220 0.00e+00 0.4490 0.1220  
## 791 64 2.48e-04 0.4430 7.59e-03 0.0322 0.0802  
## 993 66 8.35e-02 0.8070 0.00e+00 0.2740 0.1510  
## 1027 66 7.44e-01 0.5070 2.98e-06 0.0377 0.2610  
## 337 60 1.84e-01 0.9620 0.00e+00 0.2460 0.0590  
## 1236 68 8.14e-01 0.5160 4.50e-06 0.2490 0.0995  
## 1652 72 7.71e-01 0.4260 7.88e-06 0.0524 0.3940  
## 1852 76 3.90e-01 0.7300 0.00e+00 0.0451 0.2130  
## 482 62 2.12e-03 0.8080 2.10e-05 0.0984 0.1260  
## 764 64 6.60e-01 0.7120 6.42e-06 0.2010 0.1010  
## 1256 68 4.24e-04 0.6950 2.30e-03 0.0478 0.3650  
## 303 60 4.06e-01 0.7490 0.00e+00 0.2290 0.2960  
## 1309 69 3.67e-02 0.8500 0.00e+00 0.3450 0.1550  
## 1156 67 1.76e-01 0.5800 0.00e+00 0.2930 0.5140  
## 26 56 5.33e-02 0.7810 0.00e+00 0.2810 0.3810  
## 1859 77 4.49e-01 0.5070 0.00e+00 0.0266 0.1470  
## 1990 85 5.56e-01 0.9210 4.04e-03 0.0804 0.1020  
## 1500 70 3.50e-01 0.3660 0.00e+00 0.0331 0.1450  
## 346 61 2.17e-01 0.8230 0.00e+00 0.4160 0.0687  
## 455 61 5.71e-01 0.7170 8.99e-06 0.1150 0.1020  
## 963 65 3.76e-02 0.7410 0.00e+00 0.1120 0.5820  
## 1925 79 1.57e-01 0.8420 4.82e-06 0.2280 0.0642  
## 962 65 5.61e-01 0.7280 2.22e-06 0.0364 0.0571  
## 1687 73 2.29e-01 0.5800 0.00e+00 0.1060 0.1090  
## 559 62 4.39e-01 0.4510 0.00e+00 0.0574 0.4780  
## 854 65 3.99e-01 0.7500 0.00e+00 0.0312 0.0421  
## 931 65 4.40e-01 0.5200 0.00e+00 0.4620 0.1850  
## 1884 77 9.03e-03 0.7450 4.65e-01 0.0774 0.2970  
## 456 61 4.83e-01 0.6390 2.22e-06 0.0479 0.2190  
## 526 62 2.32e-01 0.7620 1.11e-06 0.1090 0.1130  
## 144 59 1.73e-01 0.6770 0.00e+00 0.0320 0.0427  
## 272 60 3.25e-03 0.4350 3.10e-06 0.0511 0.3520  
## 1332 69 6.10e-01 0.7620 0.00e+00 0.0866 0.4640  
## 1750 74 4.55e-01 0.0000 4.08e-01 0.0000 0.1110  
## 274 60 2.57e-01 0.6860 2.81e-03 0.0968 0.0880  
## 1808 75 2.37e-01 0.6700 0.00e+00 0.0393 0.4650  
## 823 64 7.90e-01 0.1200 8.89e-01 0.0383 0.1120  
## 1002 66 1.67e-01 0.2800 0.00e+00 0.1110 0.1390  
## 1724 73 9.15e-01 0.4560 1.10e-03 0.0334 0.0959  
## 732 63 2.83e-01 0.6590 2.07e-02 0.0606 0.1920  
## 1870 77 3.46e-01 0.6380 0.00e+00 0.0337 0.1050  
## 440 61 6.28e-03 0.3970 0.00e+00 0.0639 0.2380  
## 1208 67 9.22e-02 0.7080 0.00e+00 0.2100 0.0541  
## 1029 66 4.04e-01 0.7110 0.00e+00 0.0322 0.1220  
## 1406 70 9.61e-02 0.5210 6.15e-06 0.0362 0.3950  
## 1713 73 1.68e-02 0.5480 2.25e-05 0.0777 0.1430  
## 1352 69 2.02e-01 0.7450 0.00e+00 0.0880 0.1200  
## 349 61 3.17e-03 0.9160 0.00e+00 0.2410 0.0933  
## 1074 66 1.92e-01 0.3200 0.00e+00 0.0493 0.1020  
## 1157 67 6.90e-01 0.7960 0.00e+00 0.0558 0.0646  
## 512 62 9.30e-01 0.5580 6.79e-05 0.1430 0.6040  
## 81 58 1.41e-01 0.6990 0.00e+00 0.2390 0.2720  
## 1020 66 2.23e-01 0.7180 0.00e+00 0.1420 0.1200  
## 1722 73 5.97e-01 0.6140 0.00e+00 0.0302 0.1100  
## 1141 67 6.18e-01 0.7160 2.57e-01 0.0305 0.1360  
## 1723 73 4.05e-01 0.7450 1.83e-04 0.0327 0.1270  
## 256 60 6.94e-02 0.7210 0.00e+00 0.0626 0.1150  
## 1301 68 9.21e-01 0.6500 0.00e+00 0.0519 0.1270  
## 449 61 9.86e-03 0.8980 0.00e+00 0.1020 0.0509  
## 853 65 3.50e-02 0.5430 2.27e-04 0.0365 0.3040  
## 567 62 2.70e-02 0.4460 0.00e+00 0.2280 0.0931  
## 551 62 6.79e-01 0.6420 0.00e+00 0.0291 0.0984  
## 1911 79 8.02e-02 0.7760 0.00e+00 0.2470 0.1590  
## 1282 68 8.20e-01 0.6810 0.00e+00 0.0339 0.2850  
## 1771 74 2.29e-01 0.6730 4.78e-04 0.0496 0.1860  
## 1848 76 1.61e-01 0.5120 0.00e+00 0.1310 0.0672  
## 642 63 6.94e-01 0.6200 0.00e+00 0.0464 0.1190  
## 498 62 3.66e-01 0.8270 1.25e-05 0.0621 0.0930  
## 1231 68 6.54e-01 0.5120 0.00e+00 0.2850 0.1480  
## 954 65 4.95e-02 0.6640 8.18e-06 0.0283 0.0750  
## 1703 73 1.81e-01 0.6370 6.37e-04 0.0747 0.1370  
## 1005 66 1.52e-02 0.8170 0.00e+00 0.2490 0.1250  
## 789 64 4.55e-02 0.6670 1.93e-04 0.2700 0.2130  
## 1959 82 8.52e-02 0.8970 0.00e+00 0.2920 0.5340  
## 617 63 4.23e-02 0.5970 0.00e+00 0.0520 0.5820  
## 654 63 3.90e-02 0.4910 0.00e+00 0.0432 0.1120  
## 277 60 1.52e-01 0.6060 7.65e-04 0.0320 0.1960  
## 1072 66 2.96e-01 0.7850 0.00e+00 0.1930 0.1760  
## 1381 69 1.47e-01 0.8090 1.85e-06 0.0833 0.5320  
## 470 61 1.36e-01 0.7060 0.00e+00 0.4410 0.2680  
## 809 64 7.16e-03 0.7280 0.00e+00 0.0347 0.1640  
## 286 60 2.71e-01 0.6410 2.23e-03 0.0300 0.1330  
## 1667 72 1.03e-01 0.5410 0.00e+00 0.0889 0.0779  
## 1440 70 4.88e-01 0.6890 1.60e-04 0.0301 0.0659  
## 1565 71 2.30e-01 0.6640 0.00e+00 0.1130 0.1640  
## 1819 76 3.91e-04 0.5280 1.10e-02 0.0485 0.1400  
## 632 63 4.92e-02 0.7550 0.00e+00 0.2060 0.2260  
## 1226 68 1.22e-01 0.5650 4.69e-02 0.0311 0.1080  
## 1240 68 2.78e-01 0.7650 1.87e-05 0.3900 0.6090  
## 391 61 6.91e-01 0.8030 6.99e-04 0.0335 0.1060  
## 1920 79 1.41e-02 0.8170 4.96e-04 0.0621 0.0990  
## 1019 66 1.38e-02 0.8120 0.00e+00 0.3270 0.1320  
## 140 59 3.36e-01 0.6330 0.00e+00 0.3130 0.2620  
## 1367 69 1.85e-01 0.8490 1.18e-03 0.0574 0.0954  
## 778 64 1.75e-02 0.9430 1.80e-05 0.1580 0.1140  
## 417 61 1.59e-02 0.6380 9.60e-06 0.1100 0.1270  
## 1217 68 2.67e-02 0.5920 0.00e+00 0.0512 0.3520  
## 724 63 7.63e-01 0.4330 0.00e+00 0.1650 0.0903  
## 1237 68 8.77e-01 0.2400 9.20e-04 0.0329 0.1000  
## 1288 68 1.03e-01 0.5410 0.00e+00 0.0889 0.0779  
## 604 63 7.18e-01 0.4470 1.63e-02 0.0280 0.1050  
## 535 62 6.60e-02 0.8770 0.00e+00 0.3420 0.0745  
## 1356 69 6.92e-02 0.9040 0.00e+00 0.3200 0.3390  
## 313 60 3.95e-01 0.3000 8.34e-04 0.0305 0.1370  
## 1065 66 1.58e-01 0.7850 4.60e-06 0.0675 0.1810  
## 597 63 3.43e-01 0.7830 0.00e+00 0.0696 0.0983  
## 812 64 7.60e-01 0.8360 4.18e-03 0.1840 0.1360  
## 200 59 3.22e-04 0.5110 0.00e+00 0.4040 0.1110  
## 1529 71 7.38e-01 0.5990 2.19e-05 0.0392 0.1020  
## 747 64 2.89e-02 0.7110 0.00e+00 0.2530 0.3710  
## 1651 72 1.32e-02 0.6110 0.00e+00 0.0346 0.1050  
## 893 65 1.02e-03 0.5660 0.00e+00 0.3230 0.1580  
## 583 62 7.19e-01 0.4400 8.34e-01 0.0316 0.1100  
## 685 63 2.24e-01 0.4770 8.36e-06 0.0653 0.1180  
## 55 57 5.93e-01 0.7950 0.00e+00 0.3360 0.1420  
## 1721 73 3.23e-01 0.6900 0.00e+00 0.0320 0.2030  
## 419 61 1.43e-03 0.3950 0.00e+00 0.1330 0.2610  
## 537 62 2.64e-02 0.7670 0.00e+00 0.3080 0.3110  
## 38 57 3.88e-02 0.8750 0.00e+00 0.2990 0.1270  
## 1343 69 2.48e-01 0.7210 0.00e+00 0.0320 0.2120  
## 880 65 4.38e-01 0.6590 4.25e-05 0.2390 0.1140  
## 1553 71 4.76e-02 0.6420 0.00e+00 0.0848 0.0646  
## 818 64 5.43e-02 0.7760 4.27e-04 0.0792 0.1890  
## 1760 74 1.61e-01 0.5500 0.00e+00 0.0520 0.1080  
## 609 63 5.15e-02 0.7690 0.00e+00 0.3060 0.1110  
## 970 65 8.12e-01 0.7370 0.00e+00 0.2290 0.1080  
## 484 62 7.03e-02 0.6580 0.00e+00 0.0279 0.1300  
## 209 59 1.71e-01 0.6450 0.00e+00 0.3430 0.3370  
## 1982 83 8.94e-01 0.5220 2.60e-02 0.0357 0.0941  
## 79 58 4.66e-01 0.7540 1.79e-03 0.0378 0.1000  
## 1629 72 7.10e-01 0.6460 3.16e-03 0.0372 0.1080  
## 1451 70 5.69e-01 0.9560 3.94e-01 0.0773 0.3140  
## 289 60 1.22e-01 0.7000 5.49e-04 0.0428 0.1140  
## 1497 70 2.15e-01 0.4040 0.00e+00 0.1030 0.0521  
## 412 61 6.88e-01 0.6570 2.54e-05 0.0463 0.2720  
## 1291 68 1.16e-01 0.6200 0.00e+00 0.0724 0.3120  
## 958 65 2.06e-02 0.9660 4.06e-06 0.1010 0.0715  
## 698 63 8.11e-01 0.6030 1.83e-03 0.0285 0.1200  
## 1423 70 2.21e-01 0.8310 0.00e+00 0.2640 0.2910  
## 480 62 2.24e-01 0.6730 0.00e+00 0.3320 0.1350  
## 1329 69 2.01e-02 0.7680 0.00e+00 0.2590 0.2680  
## 1599 71 1.07e-01 0.7820 0.00e+00 0.0898 0.0779  
## 816 64 2.66e-01 0.3280 1.95e-06 0.2820 0.1780  
## 665 63 5.72e-04 0.4920 4.75e-06 0.0520 0.1230  
## 1488 70 2.38e-02 0.6560 0.00e+00 0.0737 0.0481  
## 433 61 3.02e-02 0.7540 0.00e+00 0.0660 0.3620  
## 435 61 9.27e-03 0.6080 1.34e-05 0.0641 0.3320  
## 376 61 5.01e-01 0.4320 6.59e-06 0.0771 0.2030  
## 1035 66 5.98e-01 0.7140 0.00e+00 0.0370 0.0943  
## 1895 78 1.94e-01 0.7290 9.86e-03 0.0315 0.2480  
## 1083 66 1.60e-03 0.6380 6.55e-03 0.0425 0.1210  
## 1761 74 3.02e-02 0.7030 2.06e-06 0.0412 0.1260  
## 92 58 1.92e-01 0.5740 0.00e+00 0.0396 0.1850  
## 1434 70 7.70e-01 0.5330 1.64e-04 0.5170 0.0969  
## 1218 68 5.29e-03 0.7340 0.00e+00 0.2850 0.1830  
## 1046 66 1.18e-01 0.7670 0.00e+00 0.0509 0.0737  
## 924 65 3.58e-01 0.5910 0.00e+00 0.1600 0.3570  
## 1525 71 3.43e-01 0.6900 2.18e-03 0.1300 0.1130  
## 10 56 9.74e-01 0.4170 1.72e-01 0.0409 0.6310  
## 670 63 5.54e-01 0.6550 0.00e+00 0.0862 0.1150  
## 49 57 3.31e-03 0.9150 0.00e+00 0.3230 0.0752  
## 1366 69 1.42e-01 0.3230 1.62e-04 0.0338 0.1630  
## 1166 67 9.42e-01 0.3360 0.00e+00 0.0497 0.1880  
## 176 59 6.17e-02 0.6460 0.00e+00 0.0520 0.0692  
## 1058 66 8.06e-01 0.6760 0.00e+00 0.0308 0.1250  
## 9 56 7.14e-01 0.2400 6.65e-02 0.3350 0.5220  
## 1985 84 5.35e-01 0.7520 2.55e-06 0.2530 0.1040  
## 1194 67 5.85e-02 0.6820 3.18e-05 0.0591 0.2260  
## 19 56 2.08e-01 0.8290 0.00e+00 0.3640 0.0733  
## 553 62 6.21e-02 0.5670 0.00e+00 0.0518 0.5190  
## 118 58 6.35e-02 0.7430 0.00e+00 0.1810 0.1110  
## 1464 70 1.85e-03 0.4320 0.00e+00 0.2110 0.3080  
## 42 57 9.47e-02 0.8880 0.00e+00 0.3570 0.0949  
## 339 60 1.58e-01 0.3250 4.79e-03 0.0455 0.5750  
## 1821 76 6.96e-01 0.6100 1.03e-04 0.3600 0.0852  
## 1207 67 1.87e-01 0.8570 1.81e-03 0.1940 0.0851  
## 614 63 8.86e-02 0.7960 0.00e+00 0.3530 0.2680  
## 1189 67 1.46e-01 0.8550 8.54e-04 0.0534 0.1070  
## 1185 67 1.74e-01 0.8120 0.00e+00 0.0376 0.1230  
## 1906 78 2.81e-03 0.6300 0.00e+00 0.0253 0.0719  
## 1106 67 7.88e-02 0.7990 5.66e-06 0.0611 0.1000  
## 32 57 4.41e-03 0.5490 0.00e+00 0.0366 0.4230  
## 1677 73 1.27e-03 0.9640 6.57e-06 0.4210 0.1150  
## 1996 86 1.24e-01 0.5850 7.01e-05 0.0712 0.1310  
## 290 60 3.27e-01 0.4950 5.39e-06 0.0276 0.2690  
## 1199 67 6.65e-01 0.7410 8.54e-01 0.0308 0.1160  
## 1426 70 1.68e-02 0.7130 0.00e+00 0.1500 0.1180  
## 1100 67 1.43e-01 0.3750 0.00e+00 0.0315 0.1100  
## 1259 68 4.61e-01 0.7480 4.70e-06 0.0381 0.0834  
## 1092 66 3.91e-01 0.7850 1.61e-02 0.0732 0.2670  
## 207 59 2.13e-01 0.6770 7.02e-06 0.3240 0.5540  
## 159 59 1.46e-02 0.5650 0.00e+00 0.0384 0.0606  
## 964 65 2.46e-01 0.7610 0.00e+00 0.0897 0.1030  
## 1103 67 3.80e-02 0.8590 0.00e+00 0.1420 0.1050  
## 422 61 7.28e-02 0.8010 0.00e+00 0.2010 0.1850  
## 192 59 1.51e-03 0.7530 7.10e-06 0.1650 0.2910  
## 1509 71 2.91e-02 0.5720 0.00e+00 0.0356 0.0963  
## 80 58 4.08e-01 0.4830 2.42e-06 0.0445 0.3360  
## 202 59 6.59e-02 0.4700 3.85e-05 0.1040 0.0962  
## 948 65 4.70e-02 0.5340 3.28e-02 0.0401 0.0883  
## 1729 74 3.20e-02 0.6420 0.00e+00 0.0812 0.1680  
## 752 64 4.31e-01 0.5120 0.00e+00 0.4380 0.2260  
## 682 63 2.85e-02 0.6280 3.32e-03 0.0268 0.2540  
## 188 59 1.17e-02 0.5320 0.00e+00 0.5910 0.0528  
## 584 62 9.47e-01 0.7710 9.62e-01 0.2580 0.2930  
## 111 58 1.17e-02 0.7930 1.90e-04 0.1510 0.1090  
## 191 59 3.27e-01 0.2360 1.50e-04 0.0404 0.2060  
## 782 64 1.17e-01 0.8500 1.03e-02 0.2090 0.1080  
## 1177 67 1.70e-01 0.6560 0.00e+00 0.0392 0.2190  
## 1087 66 5.52e-01 0.8500 0.00e+00 0.0689 0.1270  
## 320 60 1.54e-01 0.8840 1.67e-06 0.3030 0.1580  
## 1432 70 8.80e-01 0.6360 1.14e-01 0.1980 0.1080  
## 858 65 7.93e-02 0.5190 0.00e+00 0.0616 0.1110  
## 1433 70 9.67e-02 0.7550 0.00e+00 0.2880 0.1580  
## 344 61 3.24e-01 0.6860 0.00e+00 0.0392 0.0859  
## 364 61 8.31e-04 0.9380 2.43e-04 0.0980 0.0820  
## 1181 67 2.12e-01 0.6530 0.00e+00 0.0449 0.1110  
## 317 60 7.39e-02 0.7710 2.82e-05 0.3210 0.1370  
## 1109 67 4.43e-01 0.8490 1.41e-04 0.2910 0.0786  
## 972 65 3.75e-01 0.3600 0.00e+00 0.0302 0.0768  
## 60 58 7.17e-01 0.7090 0.00e+00 0.0896 0.1170  
## 1174 67 3.02e-03 0.3940 1.90e-02 0.0404 0.1860  
## 1009 66 1.05e-01 0.9500 0.00e+00 0.4620 0.4110  
## 695 63 8.44e-01 0.4440 0.00e+00 0.0516 0.0956  
## 1328 69 1.28e-02 0.7280 0.00e+00 0.2060 0.0882  
## 1811 75 4.41e-02 0.7370 6.66e-05 0.0437 0.3500  
## 572 62 6.32e-01 0.6910 4.79e-01 0.0544 0.1080  
## 4 55 2.60e-01 0.6420 1.47e-01 0.1300 0.1150  
## 884 65 3.75e-03 0.9150 2.41e-03 0.0400 0.2530  
## 650 63 2.27e-02 0.8930 7.44e-03 0.0488 0.1020  
## 509 62 4.13e-02 0.8080 1.29e-06 0.0645 0.1800  
## 1758 74 8.21e-01 0.7590 4.57e-06 0.1730 0.1070  
## 1446 70 8.00e-01 0.8090 0.00e+00 0.0487 0.2210  
## 738 64 1.66e-02 0.5920 1.50e-05 0.0558 0.1230  
## 1212 68 2.57e-01 0.7480 0.00e+00 0.1940 0.1300  
## 75 58 5.09e-03 0.4540 4.53e-02 0.0447 0.1850  
## 1371 69 3.32e-01 0.7970 1.06e-06 0.0365 0.2580  
## 1368 69 6.99e-02 0.7280 7.01e-06 0.1850 0.3180  
## 539 62 3.04e-01 0.6570 0.00e+00 0.0886 0.3760  
## 1598 71 1.75e-01 0.8370 0.00e+00 0.1010 0.0897  
## 1269 68 9.15e-01 0.4040 2.52e-03 0.0344 0.1340  
## 1467 70 1.39e-02 0.8500 3.84e-04 0.0665 0.0947  
## 374 61 5.29e-02 0.5290 0.00e+00 0.3270 0.0946  
## 944 65 2.96e-01 0.7640 1.01e-05 0.1400 0.0769  
## 436 61 3.93e-02 0.6430 0.00e+00 0.0629 0.1090  
## 634 63 1.57e-03 0.4170 0.00e+00 0.1030 0.4050  
## 1888 78 6.80e-01 0.7670 0.00e+00 0.0520 0.1920  
## 1623 72 1.62e-01 0.5540 4.82e-03 0.1300 0.0805  
## 247 60 1.55e-01 0.8370 5.11e-04 0.3300 0.2250  
## 1417 70 2.83e-01 0.4720 0.00e+00 0.0447 0.8300  
## 1133 67 4.05e-02 0.8840 0.00e+00 0.3640 0.1950  
## 187 59 1.01e-01 0.7150 0.00e+00 0.3960 0.1100  
## 653 63 2.75e-01 0.3020 3.58e-05 0.2380 0.3690  
## 276 60 1.04e-01 0.6910 0.00e+00 0.3470 0.1230  
## 1163 67 3.56e-02 0.5250 0.00e+00 0.0455 0.1030  
## 1799 75 2.55e-01 0.7130 0.00e+00 0.3740 0.1060  
## 965 65 2.06e-01 0.8230 3.95e-06 0.0431 0.1060  
## 359 61 2.43e-02 0.8100 0.00e+00 0.3020 0.2550  
## 1164 67 3.79e-02 0.6660 1.20e-01 0.2830 0.1050  
## 1449 70 1.73e-02 0.7400 0.00e+00 0.0879 0.2760  
## 93 58 2.61e-01 0.5970 7.47e-02 0.0271 0.0973  
## 1757 74 3.96e-01 0.8260 0.00e+00 0.0584 0.0979  
## 85 58 8.05e-01 0.5140 0.00e+00 0.0941 0.2110  
## 1056 66 6.08e-03 0.6040 1.09e-01 0.0555 0.1100  
## 1877 77 1.69e-02 0.4590 0.00e+00 0.1000 0.0621  
## 1878 77 1.14e-02 0.6060 1.06e-06 0.1840 0.2060  
## 72 58 1.29e-01 0.7060 0.00e+00 0.4240 0.0952  
## 841 64 9.80e-01 0.1410 9.06e-01 0.0454 0.1040  
## 1557 71 8.72e-01 0.8020 0.00e+00 0.0776 0.0863  
## 1080 66 5.90e-02 0.6970 0.00e+00 0.0282 0.0762  
## 1810 75 6.58e-02 0.6780 0.00e+00 0.1370 0.3030  
## 505 62 6.32e-02 0.6330 0.00e+00 0.0458 0.3080  
## 380 61 1.52e-02 0.6760 4.41e-06 0.2780 0.1070  
## 1921 79 5.89e-02 0.8350 6.00e-05 0.1250 0.3960  
## 37 57 1.28e-01 0.6260 2.85e-06 0.0960 0.1060  
## 994 66 1.53e-02 0.5170 0.00e+00 0.0558 0.1060  
## 1379 69 4.08e-01 0.6920 0.00e+00 0.1240 0.0986  
## 1943 81 6.76e-01 0.5510 0.00e+00 0.0262 0.0928  
## 580 62 4.99e-02 0.7030 0.00e+00 0.0862 0.3380  
## 1637 72 8.35e-01 0.5720 1.37e-04 0.0344 0.0906  
## 1477 70 1.46e-01 0.5170 0.00e+00 0.0375 0.3220  
## 179 59 1.77e-01 0.5140 0.00e+00 0.4080 0.3510  
## 1571 71 8.49e-03 0.6200 1.62e-01 0.0373 0.2050  
## 1457 70 9.25e-03 0.6460 3.08e-04 0.0381 0.1150  
## 129 59 2.00e-01 0.7130 2.09e-05 0.0511 0.1370  
## 1783 75 3.01e-01 0.7020 2.01e-03 0.1300 0.2180  
## 1148 67 1.26e-01 0.7610 0.00e+00 0.1820 0.0839  
## 902 65 1.26e-01 0.5800 7.32e-05 0.1040 0.0990  
## 1778 75 1.02e-02 0.6380 0.00e+00 0.0798 0.0944  
## 1740 74 1.64e-01 0.8800 1.71e-02 0.1250 0.0957  
## 18 56 3.66e-01 0.5290 0.00e+00 0.0378 0.2960  
## 162 59 1.22e-01 0.6520 3.90e-04 0.0262 0.1690  
## 468 61 8.50e-01 0.6870 1.25e-04 0.0388 0.1060  
## 1654 72 1.82e-01 0.8600 3.17e-06 0.0538 0.0581  
## 1333 69 9.35e-02 0.8140 0.00e+00 0.0809 0.0892  
## 886 65 8.33e-01 0.5280 1.53e-06 0.0523 0.1030  
## 1832 76 8.80e-02 0.9310 0.00e+00 0.4120 0.1360  
## 1494 70 3.56e-01 0.6900 0.00e+00 0.0472 0.3080  
## 1168 67 2.65e-01 0.7770 0.00e+00 0.3280 0.0771  
## 968 65 4.21e-01 0.3800 2.63e-06 0.0653 0.0788  
## 1924 79 2.86e-01 0.6720 0.00e+00 0.0457 0.2420  
## 366 61 1.89e-05 0.6190 5.55e-03 0.0315 0.3800  
## 961 65 8.53e-01 0.5690 1.51e-04 0.0277 0.1280  
## 114 58 1.33e-01 0.4450 0.00e+00 0.0501 0.2730  
## 378 61 1.88e-01 0.6780 1.67e-06 0.2610 0.1640  
## 1665 72 2.37e-02 0.8130 0.00e+00 0.0918 0.2880  
## 138 59 8.96e-02 0.8060 0.00e+00 0.2440 0.2110  
## 335 60 6.96e-02 0.8530 1.65e-06 0.0511 0.1350  
## 651 63 9.47e-01 0.6790 0.00e+00 0.3950 0.1150  
## 1444 70 1.16e-01 0.8860 7.37e-02 0.0612 0.1450  
## 22 56 1.59e-01 0.6150 0.00e+00 0.0883 0.1910  
## 1201 67 2.14e-02 0.8270 4.13e-06 0.0744 0.0430  
## 1354 69 1.07e-01 0.8470 7.40e-06 0.0397 0.1060  
## 639 63 2.73e-02 0.6570 0.00e+00 0.1360 0.3200  
## 20 56 3.33e-01 0.4970 3.11e-06 0.0296 0.1080  
## 788 64 5.78e-01 0.4660 0.00e+00 0.1450 0.2840  
## 486 62 1.51e-01 0.5230 0.00e+00 0.0297 0.1320  
## 1997 86 1.23e-01 0.7850 0.00e+00 0.0364 0.0887  
## 1251 68 6.43e-02 0.7800 3.13e-02 0.0671 0.1740  
## 808 64 2.80e-01 0.7960 0.00e+00 0.0532 0.1200  
## 1814 75 1.60e-01 0.7690 0.00e+00 0.0633 0.0935  
## 117 58 2.51e-03 0.5290 9.65e-02 0.0579 0.2200  
## 646 63 1.32e-01 0.6980 1.17e-03 0.1310 0.1990  
## 1410 70 9.52e-02 0.6110 0.00e+00 0.0274 0.1100  
## 1686 73 1.02e-01 0.6880 0.00e+00 0.1380 0.3550  
## 264 60 9.96e-02 0.7150 3.41e-06 0.2400 0.1860  
## 14 56 2.22e-01 0.4950 0.00e+00 0.0280 0.0882  
## 1952 81 4.00e-02 0.6990 3.11e-06 0.0594 0.2940  
## 1994 85 3.71e-01 0.5720 0.00e+00 0.0308 0.2310  
## 426 61 4.32e-01 0.3950 0.00e+00 0.0456 0.1080  
## 1393 69 2.38e-01 0.7000 3.18e-01 0.0329 0.6580  
## 1508 71 6.71e-01 0.7420 1.43e-06 0.0282 0.1450  
## 62 58 1.78e-01 0.5860 0.00e+00 0.1990 0.1050  
## 1302 68 8.69e-01 0.6930 0.00e+00 0.0356 0.1100  
## 1427 70 8.41e-01 0.6860 1.09e-03 0.1510 0.0816  
## 467 61 7.39e-01 0.5690 1.25e-06 0.0389 0.9400  
## 258 60 2.68e-01 0.7090 0.00e+00 0.1860 0.2400  
## 689 63 3.02e-01 0.7380 0.00e+00 0.1870 0.0855  
## 890 65 1.58e-01 0.8900 2.28e-04 0.1240 0.1180  
## 1849 76 3.74e-01 0.6930 0.00e+00 0.0801 0.2520  
## 582 62 5.36e-01 0.6710 1.51e-01 0.0273 0.1200  
## 226 59 4.19e-02 0.4050 1.38e-05 0.1420 0.1080  
## 1188 67 6.26e-03 0.8790 4.33e-02 0.0883 0.0653  
## 577 62 2.95e-02 0.6360 7.79e-01 0.0563 0.1190  
## 1104 67 1.09e-01 0.4900 0.00e+00 0.0363 0.1680  
## 1063 66 2.29e-01 0.5800 0.00e+00 0.1060 0.1090  
## 287 60 2.88e-01 0.8210 0.00e+00 0.0899 0.1040  
## 66 58 9.32e-01 0.4970 1.57e-05 0.0377 0.6980  
## 1060 66 6.31e-01 0.5330 6.81e-01 0.0330 0.0720  
## 1737 74 4.90e-02 0.7500 5.52e-03 0.0285 0.1550  
## 672 63 4.25e-01 0.6430 6.65e-01 0.0898 0.0958  
## 1219 68 3.71e-01 0.8560 0.00e+00 0.1690 0.1090  
## 757 64 8.09e-02 0.8800 5.82e-05 0.2210 0.2140  
## 1387 69 4.67e-02 0.8240 3.29e-05 0.0755 0.1980  
## 768 64 9.99e-03 0.6170 4.94e-01 0.0260 0.4260  
## 255 60 1.13e-01 0.8490 0.00e+00 0.2140 0.1520  
## 1055 66 8.37e-04 0.6110 0.00e+00 0.0437 0.1120  
## 969 65 2.95e-01 0.6390 0.00e+00 0.0286 0.1830  
## 1656 72 5.84e-01 0.5060 9.58e-05 0.0412 0.0891  
## 53 57 6.05e-01 0.3160 4.96e-05 0.0476 0.1420  
## 1024 66 2.16e-01 0.5970 0.00e+00 0.0537 0.1120  
## 395 61 5.85e-02 0.7650 0.00e+00 0.3100 0.2200  
## 416 61 8.67e-01 0.7520 0.00e+00 0.4110 0.0486  
## 1036 66 9.31e-01 0.4100 8.98e-02 0.0337 0.1180  
## 1915 79 1.13e-01 0.8220 0.00e+00 0.0934 0.1060  
## 838 64 8.03e-01 0.5810 2.03e-01 0.0807 0.0879  
## 1476 70 3.51e-02 0.8200 1.59e-02 0.3080 0.1220  
## 1641 72 7.33e-02 0.5520 0.00e+00 0.3420 0.0865  
## 1639 72 4.85e-01 0.8550 7.89e-06 0.2990 0.1120  
## 1927 79 3.94e-01 0.6370 0.00e+00 0.0338 0.0921  
## 1548 71 5.91e-01 0.6130 0.00e+00 0.0340 0.0959  
## 1475 70 1.75e-01 0.7640 0.00e+00 0.2880 0.1050  
## 1360 69 1.12e-01 0.7800 0.00e+00 0.4840 0.3290  
## 1292 68 4.31e-01 0.8160 8.99e-02 0.0752 0.0995  
## 1672 72 1.65e-01 0.7920 0.00e+00 0.0589 0.0501  
## 842 64 5.41e-04 0.6760 0.00e+00 0.0308 0.4310  
## 677 63 1.52e-02 0.7580 0.00e+00 0.1470 0.1160  
## 1816 76 3.56e-01 0.6160 0.00e+00 0.0298 0.2400  
## 385 61 3.01e-02 0.9030 1.61e-05 0.2370 0.1790  
## 68 58 1.31e-01 0.5550 0.00e+00 0.0472 0.0922  
## 570 62 7.96e-01 0.7210 6.23e-01 0.0999 0.1050  
## 254 60 1.25e-01 0.5800 0.00e+00 0.2000 0.0860  
## 1792 75 3.63e-03 0.7010 7.95e-04 0.0417 0.1210  
## 1655 72 1.81e-01 0.7070 0.00e+00 0.0350 0.1020  
## 1797 75 6.49e-01 0.6070 0.00e+00 0.0310 0.0928  
## 1854 77 1.88e-01 0.6730 0.00e+00 0.1960 0.1220  
## 166 59 4.66e-02 0.8620 5.00e-05 0.4470 0.1190  
## 1550 71 1.28e-01 0.7740 0.00e+00 0.1280 0.0895  
## 1513 71 2.40e-01 0.7410 0.00e+00 0.3240 0.1180  
## 1882 77 1.94e-01 0.6530 0.00e+00 0.0474 0.1650  
## 680 63 1.07e-01 0.6170 0.00e+00 0.2780 0.2030  
## 488 62 6.28e-02 0.4740 3.00e-06 0.0354 0.1090  
## 911 65 5.97e-03 0.8880 3.65e-02 0.0604 0.1530  
## 1576 71 5.54e-01 0.7750 2.85e-03 0.0920 0.1120  
## 936 65 8.41e-01 0.6340 2.13e-02 0.0774 0.1100  
## 663 63 2.58e-01 0.4250 0.00e+00 0.0350 0.1170  
## 1782 75 3.76e-01 0.6690 0.00e+00 0.5220 0.1870  
## 1489 70 1.06e-01 0.7110 4.40e-05 0.0924 0.1130  
## 814 64 3.17e-01 0.7300 0.00e+00 0.0489 0.3840  
## 296 60 2.78e-01 0.8740 8.73e-04 0.0677 0.1420  
## 1898 78 6.82e-01 0.4940 0.00e+00 0.0342 0.0869  
## 517 62 8.01e-01 0.3490 0.00e+00 0.0402 0.0968  
## 1642 72 7.25e-01 0.7460 6.67e-06 0.0649 0.1010  
## 1675 73 3.17e-01 0.7210 0.00e+00 0.3940 0.1530  
## 1050 66 1.24e-01 0.6550 3.75e-06 0.0389 0.1060  
## 406 61 1.33e-02 0.5930 0.00e+00 0.5410 0.6400  
## 244 60 6.40e-01 0.5870 3.91e-01 0.0394 0.1100  
## 741 64 3.26e-02 0.6910 0.00e+00 0.0294 0.0608  
## 1130 67 1.52e-01 0.4670 6.83e-01 0.1000 0.2910  
## 126 58 3.48e-01 0.8660 0.00e+00 0.2420 0.1000  
## 1018 66 1.81e-01 0.6430 3.30e-02 0.0387 0.7980  
## 1679 73 3.39e-01 0.5850 4.04e-02 0.0370 0.1950  
## 45 57 1.05e-01 0.8070 2.57e-05 0.0352 0.0813  
## 265 60 3.88e-01 0.6890 0.00e+00 0.0368 0.1290  
## 907 65 9.21e-01 0.3690 7.18e-04 0.0317 0.1680  
## 802 64 2.98e-01 0.6480 2.62e-02 0.0995 0.2520  
## 1351 69 8.48e-02 0.8520 1.67e-01 0.0602 0.1420  
## 983 66 7.25e-01 0.5810 0.00e+00 0.0698 0.1160  
## 1779 75 4.78e-02 0.4970 0.00e+00 0.0273 0.3900  
## 1521 71 1.23e-01 0.9250 0.00e+00 0.2910 0.0931  
## 1955 81 1.09e-01 0.7750 2.33e-05 0.0542 0.1340  
## 1471 70 4.07e-03 0.7010 1.51e-04 0.0836 0.0450  
## 158 59 4.44e-01 0.7270 0.00e+00 0.0987 0.1180  
## 1197 67 8.27e-04 0.2160 4.66e-04 0.1530 0.1330  
## 635 63 4.28e-03 0.5250 0.00e+00 0.0419 0.1460  
## 525 62 9.33e-01 0.6520 5.11e-05 0.2060 0.5910  
## 1496 70 2.28e-02 0.6230 0.00e+00 0.0409 0.1200  
## 1593 71 3.57e-02 0.7400 4.85e-05 0.0446 0.3560  
## 754 64 3.49e-01 0.8860 1.38e-03 0.0465 0.0985  
## 1664 72 1.74e-01 0.7830 0.00e+00 0.0510 0.4120  
## 98 58 3.67e-01 0.5940 0.00e+00 0.0423 0.0948  
## 1390 69 3.10e-01 0.7490 0.00e+00 0.3450 0.2320  
## 1725 73 3.23e-01 0.7670 0.00e+00 0.3360 0.0676  
## 600 63 8.43e-02 0.6400 0.00e+00 0.0297 0.2220  
## 263 60 4.64e-01 0.3870 5.27e-03 0.0318 0.1020  
## 995 66 3.94e-01 0.7690 0.00e+00 0.2620 0.1060  
## 1932 80 2.24e-01 0.7640 8.71e-05 0.1540 0.1190  
## 1671 72 2.70e-01 0.4890 0.00e+00 0.0292 0.1050  
## 502 62 2.03e-01 0.8440 1.98e-06 0.1920 0.0848  
## 681 63 1.29e-02 0.5760 4.69e-06 0.0509 0.3440  
## 1504 70 3.83e-01 0.7170 0.00e+00 0.0568 0.3980  
## 457 61 5.76e-01 0.7840 8.51e-01 0.0513 0.1280  
## 1627 72 1.39e-01 0.5690 0.00e+00 0.0834 0.1320  
## 822 64 3.24e-02 0.6490 1.85e-02 0.0306 0.0658  
## 101 58 2.44e-02 0.6050 3.72e-05 0.0753 0.3090  
## 382 61 8.04e-01 0.7840 0.00e+00 0.2150 0.1800  
## 1155 67 7.59e-03 0.8550 0.00e+00 0.1930 0.1010  
## 1246 68 1.08e-02 0.7290 0.00e+00 0.2500 0.1620  
## 199 59 5.28e-01 0.7670 5.60e-02 0.2610 0.2080  
## 1939 80 1.62e-01 0.5780 0.00e+00 0.0832 0.0760  
## 340 60 2.12e-03 0.0000 9.05e-01 0.0000 0.4290  
## 1455 70 7.74e-01 0.5140 2.91e-06 0.0337 0.1210  
## 581 62 6.74e-01 0.7460 3.75e-04 0.1090 0.5290  
## 1940 80 2.81e-02 0.4680 7.97e-06 0.0476 0.1100  
## 1904 78 4.23e-01 0.6650 0.00e+00 0.0578 0.0969  
## 269 60 4.14e-02 0.6440 0.00e+00 0.0643 0.3400  
## 1152 67 6.67e-01 0.6260 0.00e+00 0.0339 0.0605  
## 799 64 5.91e-01 0.7970 7.24e-02 0.0800 0.1480  
## 221 59 2.77e-01 0.6350 6.34e-03 0.0338 0.0810  
## 25 56 4.77e-01 0.4340 0.00e+00 0.3220 0.1010  
## 161 59 3.05e-01 0.7500 4.30e-03 0.0675 0.0621  
## 615 63 1.60e-01 0.4970 1.40e-05 0.0315 0.0840  
## 1173 67 3.00e-02 0.5850 8.41e-06 0.1450 0.1960  
## 1766 74 3.15e-01 0.7540 0.00e+00 0.0752 0.2030  
## 1326 69 8.32e-01 0.5930 0.00e+00 0.3970 0.1080  
## 1512 71 3.71e-01 0.9000 0.00e+00 0.4350 0.1420  
## 671 63 2.57e-01 0.3880 1.85e-01 0.0593 0.1130  
## 1653 72 4.43e-01 0.7980 7.43e-05 0.3600 0.2190  
## 519 62 1.01e-01 0.7330 6.98e-06 0.0322 0.0694  
## 1674 73 4.68e-02 0.6040 0.00e+00 0.0322 0.0909  
## 1380 69 9.45e-05 0.5950 5.29e-02 0.0312 0.1960  
## 1618 72 1.95e-01 0.6890 1.11e-03 0.0517 0.2240  
## 1663 72 1.89e-01 0.5690 0.00e+00 0.0405 0.1110  
## 1620 72 8.13e-04 0.6450 0.00e+00 0.2990 0.1280  
## 1474 70 3.37e-01 0.6690 0.00e+00 0.0318 0.1980  
## 5 55 3.25e-01 0.8310 0.00e+00 0.3350 0.0639  
## 423 61 2.12e-04 0.5050 3.75e-06 0.1560 0.5880  
## 1239 68 6.05e-03 0.5340 9.29e-02 0.0495 0.1080  
## 295 60 9.76e-01 0.4960 9.83e-03 0.0299 0.0966  
## 1297 68 3.15e-01 0.6160 0.00e+00 0.0670 0.1750  
## 676 63 4.81e-02 0.8560 0.00e+00 0.0597 0.1080  
## 1484 70 5.60e-01 0.5340 0.00e+00 0.1170 0.1330  
## 1111 67 5.61e-02 0.4300 0.00e+00 0.0336 0.7040  
## 826 64 9.96e-01 0.3910 9.49e-01 0.0790 0.1340  
## 1712 73 7.65e-01 0.7000 1.58e-03 0.0345 0.1280  
## 328 60 4.04e-01 0.6710 9.24e-01 0.0506 0.0917  
## 145 59 2.48e-01 0.7290 0.00e+00 0.0533 0.1140  
## 52 57 5.85e-03 0.5440 0.00e+00 0.0311 0.1910  
## 334 60 8.81e-03 0.7920 4.25e-05 0.0393 0.1040  
## 1418 70 3.85e-01 0.6510 0.00e+00 0.0466 0.1810  
## 425 61 2.87e-02 0.7050 1.93e-02 0.0489 0.0863  
## 1178 67 9.98e-02 0.6940 6.35e-04 0.1620 0.1200  
## 1131 67 7.74e-05 0.8990 0.00e+00 0.1780 0.1200  
## 811 64 2.81e-01 0.5160 1.27e-05 0.0397 0.0847  
## 1429 70 6.32e-02 0.9360 0.00e+00 0.4570 0.1040  
## 1436 70 3.84e-01 0.7230 0.00e+00 0.2980 0.3840  
## 758 64 1.85e-02 0.9510 0.00e+00 0.4110 0.1490  
## 1411 70 2.92e-02 0.4740 0.00e+00 0.0289 0.1330  
## 1510 71 2.10e-03 0.7160 0.00e+00 0.1490 0.1150  
## 830 64 3.79e-01 0.7300 3.09e-04 0.1380 0.0893  
## 358 61 9.30e-01 0.4410 2.30e-04 0.0352 0.1050  
## 914 65 2.51e-01 0.8590 0.00e+00 0.3570 0.1320  
## 149 59 1.08e-01 0.5480 0.00e+00 0.0287 0.0852  
## 1162 67 1.05e-01 0.7740 7.41e-01 0.2140 0.3480  
## 904 65 2.20e-01 0.7410 0.00e+00 0.0947 0.0981  
## 1307 69 3.63e-01 0.6070 0.00e+00 0.0323 0.2580  
## 899 65 7.61e-01 0.4030 6.18e-02 0.0531 0.1230  
## 1134 67 3.72e-02 0.7060 0.00e+00 0.0416 0.3790  
## 1531 71 2.41e-01 0.7550 0.00e+00 0.2160 0.1070  
## 259 60 1.02e-02 0.6800 1.05e-03 0.0582 0.1130  
## 1140 67 4.55e-01 0.6740 9.10e-04 0.1470 0.2080  
## 796 64 4.99e-01 0.9110 2.46e-04 0.1530 0.0937  
## 1179 67 1.42e-02 0.7460 1.07e-02 0.1690 0.1210  
## 504 62 2.38e-05 0.4330 1.79e-06 0.1450 0.0813  
## 427 61 4.06e-01 0.6040 0.00e+00 0.0478 0.3950  
## 596 63 9.59e-02 0.6550 0.00e+00 0.0555 0.1070  
## 452 61 1.61e-01 0.5270 0.00e+00 0.7410 0.4980  
## 1064 66 2.04e-01 0.6430 0.00e+00 0.0407 0.0707  
## 669 63 3.96e-01 0.6470 4.95e-02 0.0295 0.1170  
## 1546 71 2.78e-01 0.6860 4.76e-05 0.3740 0.1060  
## 1330 69 3.18e-01 0.6520 2.87e-06 0.0353 0.2080  
## 599 63 2.30e-01 0.5250 0.00e+00 0.3450 0.2130  
## 1611 72 5.50e-03 0.7030 0.00e+00 0.2210 0.1150  
## 490 62 1.13e-01 0.8860 0.00e+00 0.3380 0.1510  
## 982 66 9.15e-02 0.5460 8.67e-05 0.0401 0.1680  
## 1339 69 7.59e-01 0.5640 0.00e+00 0.4590 0.0989  
## 1284 68 5.24e-02 0.7280 0.00e+00 0.1760 0.0658  
## 1221 68 3.12e-01 0.7670 0.00e+00 0.0523 0.0973  
## 776 64 4.01e-01 0.7290 1.44e-06 0.0321 0.1210  
## 898 65 2.78e-01 0.8630 8.26e-02 0.1700 0.0991  
## 668 63 7.40e-02 0.4490 8.79e-06 0.0674 0.4830  
## 1881 77 2.70e-01 0.6590 0.00e+00 0.0644 0.1870  
## 1595 71 1.46e-02 0.6490 1.63e-06 0.0297 0.1450  
## 1 55 6.39e-01 0.8110 0.00e+00 0.0291 0.2240  
## 469 61 3.01e-01 0.4730 0.00e+00 0.0383 0.1040  
## 825 64 3.29e-01 0.6390 1.53e-06 0.0357 0.3820  
## 110 58 5.03e-02 0.6000 0.00e+00 0.1450 0.0995  
## 975 65 6.20e-02 0.5240 0.00e+00 0.0650 0.2090  
## 1506 71 5.68e-01 0.7020 0.00e+00 0.0248 0.1040  
## 1689 73 6.85e-01 0.8190 2.03e-06 0.0489 0.1160  
## 1081 66 1.70e-01 0.5450 0.00e+00 0.4540 0.1450  
## 1010 66 1.45e-01 0.6790 0.00e+00 0.4450 0.1820  
## 905 65 6.26e-02 0.7270 1.21e-06 0.0488 0.1760  
## 1169 67 1.86e-01 0.5510 7.91e-02 0.0542 0.1520  
## 1523 71 2.65e-01 0.7980 1.25e-06 0.0476 0.1140  
## 1468 70 2.27e-01 0.8300 0.00e+00 0.2950 0.1120  
## 285 60 1.19e-02 0.5780 1.79e-05 0.0405 0.0744  
## 44 57 4.25e-01 0.5880 0.00e+00 0.0314 0.2360  
## 1227 68 2.29e-01 0.7970 0.00e+00 0.0479 0.2240  
## 1316 69 8.62e-01 0.4780 1.13e-03 0.0339 0.1760  
## 454 61 7.32e-01 0.5980 5.02e-01 0.0264 0.0946  
## 1336 69 1.45e-01 0.6520 5.65e-06 0.0418 0.1640  
## 950 65 1.86e-02 0.6170 0.00e+00 0.0402 0.1870  
## 1777 75 9.69e-02 0.5730 0.00e+00 0.0288 0.3290  
## 1634 72 2.17e-02 0.7080 0.00e+00 0.0395 0.0730  
## 23 56 7.16e-02 0.7110 4.50e-03 0.0341 0.2620  
## 1375 69 4.86e-01 0.7400 0.00e+00 0.0623 0.1630  
## 1876 77 9.45e-02 0.6010 1.68e-06 0.0486 0.1200  
## 976 65 5.30e-01 0.7290 0.00e+00 0.0415 0.0985  
## 104 58 3.09e-01 0.7560 6.27e-05 0.0525 0.0423  
## 333 60 3.54e-03 0.7580 6.50e-06 0.1380 0.2920  
## 813 64 2.63e-02 0.5400 7.12e-06 0.0418 0.3500  
## 137 59 6.31e-01 0.8810 0.00e+00 0.0901 0.0986  
## 1632 72 1.85e-01 0.7040 0.00e+00 0.1790 0.0948  
## 742 64 7.21e-02 0.7640 6.45e-06 0.0298 0.0940  
## 1491 70 1.70e-01 0.5580 0.00e+00 0.1780 0.2890  
## 1931 80 6.60e-01 0.7690 0.00e+00 0.0385 0.0914  
## 1907 78 5.73e-02 0.6220 0.00e+00 0.0660 0.1300  
## 119 58 1.35e-01 0.7270 0.00e+00 0.2590 0.1820  
## 1563 71 2.54e-04 0.6180 3.78e-04 0.0304 0.0618  
## 288 60 8.54e-02 0.8510 0.00e+00 0.2680 0.3740  
## 1693 73 3.53e-01 0.6760 0.00e+00 0.0374 0.1030  
## 1033 66 1.57e-01 0.5720 7.21e-06 0.0764 0.1090  
## 1401 69 3.17e-02 0.7980 0.00e+00 0.0839 0.2140  
## 131 59 1.31e-03 0.3950 6.66e-05 0.0304 0.3640  
## 493 62 4.55e-01 0.6190 0.00e+00 0.0328 0.1670  
## 1402 69 1.61e-01 0.6840 3.63e-04 0.0714 0.0871  
## 1716 73 1.72e-01 0.6350 0.00e+00 0.1090 0.1250  
## 737 64 3.94e-02 0.8280 0.00e+00 0.3010 0.0806  
## 1826 76 6.55e-03 0.6030 3.04e-06 0.0487 0.1430  
## 1865 77 5.58e-02 0.5750 0.00e+00 0.0439 0.0912  
## 1584 71 2.68e-02 0.7690 9.95e-05 0.0339 0.0840  
## 352 61 1.38e-02 0.6730 0.00e+00 0.0345 0.2110  
## 1934 80 5.21e-02 0.8610 0.00e+00 0.1760 0.0924  
## 1279 68 1.88e-01 0.7720 0.00e+00 0.0468 0.4340  
## 922 65 5.19e-02 0.5670 0.00e+00 0.0554 0.1830  
## 547 62 4.95e-01 0.5560 0.00e+00 0.5450 0.3080  
## 1472 70 6.68e-01 0.7670 1.45e-04 0.0385 0.2170  
## 322 60 6.47e-02 0.7340 0.00e+00 0.2500 0.4450  
## 404 61 4.68e-01 0.5430 0.00e+00 0.1290 0.1710  
## 722 63 2.23e-02 0.6280 0.00e+00 0.0338 0.0797  
## 1172 67 6.35e-01 0.5400 1.93e-05 0.1150 0.0993  
## 1726 74 7.91e-02 0.4310 0.00e+00 0.0474 0.3120  
## 1873 77 1.97e-01 0.5140 2.30e-05 0.2750 0.0958  
## 602 63 5.13e-01 0.6490 1.18e-06 0.0455 0.0774  
## 693 63 1.29e-01 0.4780 6.33e-04 0.0710 0.2640  
## 1868 77 6.99e-01 0.4840 8.61e-01 0.0687 0.1050  
## 1547 71 7.47e-01 0.7080 9.24e-05 0.0371 0.1370  
## 154 59 2.86e-01 0.5980 0.00e+00 0.4520 0.0875  
## 1312 69 2.43e-01 0.7340 0.00e+00 0.0571 0.1010  
## 516 62 5.90e-01 0.6160 0.00e+00 0.4620 0.1420  
## 1414 70 2.52e-01 0.6890 1.95e-05 0.0306 0.1780  
## 1369 69 1.61e-01 0.6650 6.69e-02 0.2530 0.9070  
## 603 63 1.31e-01 0.6590 9.89e-05 0.0296 0.0574  
## 1647 72 6.27e-01 0.6510 2.02e-04 0.2990 0.0961  
## 856 65 1.36e-01 0.5700 0.00e+00 0.0465 0.2050  
## 1961 82 2.59e-01 0.8890 0.00e+00 0.0905 0.2520  
## 1483 70 5.89e-01 0.8250 0.00e+00 0.2260 0.4130  
## 623 63 2.45e-01 0.7950 0.00e+00 0.1800 0.0973  
## 935 65 4.06e-01 0.4260 3.35e-03 0.0616 0.3620  
## 1975 83 6.61e-01 0.5920 3.31e-04 0.0603 0.1460  
## 1731 74 4.67e-02 0.8920 1.89e-04 0.0902 0.1390  
## 947 65 5.27e-01 0.7980 3.53e-04 0.0303 0.0959  
## 237 60 2.30e-02 0.5260 0.00e+00 0.0313 0.0948  
## 282 60 1.75e-01 0.8540 0.00e+00 0.2440 0.2410  
## 1516 71 6.53e-04 0.2310 2.60e-02 0.0574 0.0694  
## 861 65 3.95e-01 0.5970 8.35e-06 0.0502 0.1280  
## 279 60 9.67e-01 0.7480 5.12e-02 0.2580 0.1210  
## 477 62 5.68e-02 0.2520 1.77e-06 0.0402 0.1220  
## 332 60 4.47e-01 0.7890 0.00e+00 0.0599 0.1350  
## 1150 67 2.53e-01 0.8110 0.00e+00 0.1290 0.1480  
## 163 59 1.42e-03 0.7720 0.00e+00 0.0737 0.6170  
## 992 66 2.59e-01 0.7150 7.48e-06 0.0507 0.1280  
## 1561 71 5.96e-01 0.4560 5.73e-04 0.0640 0.1290  
## 1448 70 2.74e-01 0.5620 0.00e+00 0.4840 0.1020  
## 1232 68 1.55e-01 0.7560 2.85e-03 0.1620 0.3300  
## 1646 72 1.86e-01 0.5730 0.00e+00 0.0758 0.6100  
## 252 60 3.30e-02 0.8790 0.00e+00 0.3090 0.7160  
## 165 59 2.19e-01 0.3450 5.51e-06 0.0292 0.0549  
## 926 65 2.14e-03 0.7790 0.00e+00 0.2580 0.1020  
## 1026 66 2.48e-02 0.4140 0.00e+00 0.2540 0.0793  
## 1456 70 9.57e-01 0.0559 1.00e+00 0.1040 0.1120  
## 121 58 2.95e-01 0.7380 2.25e-05 0.2140 0.1260  
## 1861 77 1.68e-01 0.6120 0.00e+00 0.1640 0.1170  
## 368 61 1.22e-02 0.5410 1.15e-06 0.0457 0.0696  
## 762 64 4.02e-02 0.7320 2.66e-06 0.2320 0.1210  
## 250 60 2.18e-02 0.5510 0.00e+00 0.1630 0.3020  
## 934 65 7.81e-01 0.6630 2.33e-06 0.0365 0.1130  
## 1385 69 3.72e-01 0.7730 5.24e-03 0.1130 0.1080  
## 709 63 1.22e-02 0.8770 1.51e-05 0.1800 0.0280  
## 51 57 4.79e-01 0.6410 9.58e-05 0.0896 0.2140  
## 1415 70 6.77e-02 0.7530 0.00e+00 0.2840 0.1930  
## 558 62 5.03e-01 0.8500 4.12e-06 0.2510 0.0541  
## 1085 66 5.76e-02 0.7890 0.00e+00 0.1140 0.1040  
## 1303 69 3.49e-01 0.7620 0.00e+00 0.2020 0.1270  
## 761 64 2.78e-04 0.7610 0.00e+00 0.3130 0.2510  
## 644 63 9.45e-01 0.5230 9.44e-04 0.0689 0.1140  
## 817 64 8.57e-02 0.7000 2.26e-01 0.1700 0.1140  
## 77 58 2.59e-02 0.6710 0.00e+00 0.0351 0.1160  
## 1459 70 1.86e-01 0.7100 0.00e+00 0.0431 0.0974  
## 870 65 1.05e-01 0.4450 2.71e-04 0.0315 0.1790  
## 1805 75 2.13e-01 0.7660 0.00e+00 0.1320 0.3490  
## 1386 69 2.54e-02 0.5040 0.00e+00 0.2130 0.0659  
## 557 62 9.26e-03 0.4810 3.28e-04 0.2310 0.2780  
## 667 63 8.76e-01 0.3460 1.98e-06 0.0328 0.0708  
## 690 63 4.33e-01 0.7510 5.92e-06 0.3030 0.1800  
## 1128 67 4.43e-01 0.8030 3.32e-05 0.0745 0.1270  
## 297 60 7.77e-01 0.5380 3.29e-01 0.0353 0.0967  
## 1635 72 8.89e-01 0.4550 0.00e+00 0.0563 0.1060  
## 1926 79 7.13e-03 0.5090 1.37e-02 0.0357 0.2440  
## 733 64 4.81e-01 0.5070 0.00e+00 0.0303 0.2710  
## 1093 66 2.68e-02 0.7690 9.95e-05 0.0339 0.0840  
## 941 65 2.44e-01 0.6960 0.00e+00 0.2810 0.4370  
## 1347 69 3.42e-01 0.5470 3.35e-01 0.1920 0.1480  
## 1298 68 7.06e-02 0.7860 0.00e+00 0.0678 0.2360  
## 1622 72 1.85e-01 0.5090 1.40e-06 0.0392 0.0891  
## 33 57 4.06e-02 0.4750 0.00e+00 0.3890 0.1340  
## 1096 66 1.54e-01 0.7110 0.00e+00 0.0391 0.1490  
## 463 61 4.15e-01 0.4520 1.50e-05 0.0478 0.1840  
## 1249 68 3.11e-02 0.4720 3.08e-02 0.1340 0.1010  
## 1892 78 4.32e-01 0.6750 0.00e+00 0.0466 0.1020  
## 1912 79 3.95e-02 0.8370 1.25e-03 0.0860 0.3420  
## 925 65 4.09e-02 0.6600 5.95e-03 0.0387 0.1020  
## 831 64 3.40e-02 0.5100 0.00e+00 0.1010 0.0770  
## 527 62 3.53e-03 0.4480 0.00e+00 0.0621 0.1080  
## 1759 74 2.15e-02 0.5470 0.00e+00 0.1200 0.0475  
## 1245 68 5.49e-01 0.4010 0.00e+00 0.0890 0.1640  
## 633 63 1.28e-02 0.1240 0.00e+00 0.0409 0.1200  
## 989 66 1.19e-01 0.4850 2.78e-03 0.0453 0.0787  
## 1153 67 1.06e-01 0.7950 0.00e+00 0.0327 0.1130  
## 1317 69 3.60e-01 0.5630 2.43e-03 0.1210 0.0955  
## 1331 69 1.50e-01 0.7380 0.00e+00 0.0437 0.1320  
## 83 58 3.99e-02 0.5230 0.00e+00 0.0459 0.1680  
## 1549 71 1.80e-01 0.9060 0.00e+00 0.2690 0.1130  
## 1556 71 4.40e-01 0.3990 6.16e-02 0.0520 0.4460  
## 107 58 4.85e-01 0.5650 6.55e-06 0.1410 0.1040  
## 1350 69 2.85e-02 0.6940 9.92e-03 0.0401 0.5350  
## 1346 69 7.50e-01 0.7320 8.28e-01 0.0570 0.1410  
## 54 57 1.63e-01 0.7380 0.00e+00 0.0414 0.2070  
## 169 59 1.12e-01 0.4610 0.00e+00 0.0325 0.1160  
## 483 62 8.21e-02 0.6630 0.00e+00 0.1830 0.1240  
## 1857 77 4.84e-02 0.6560 0.00e+00 0.3230 0.1260  
## 1143 67 8.05e-01 0.6570 1.58e-06 0.0293 0.1030  
## 1039 66 1.41e-01 0.7240 2.18e-04 0.2900 0.1040  
## 1518 71 2.78e-01 0.7830 0.00e+00 0.0795 0.2290  
## 1624 72 9.74e-01 0.8660 0.00e+00 0.0404 0.0987  
## 239 60 8.92e-01 0.4490 7.55e-04 0.0361 0.8920  
## 1285 68 2.79e-01 0.7280 4.71e-06 0.0683 0.1430  
## 1607 72 1.70e-01 0.8370 0.00e+00 0.1670 0.0570  
## 777 64 8.93e-01 0.3470 2.87e-03 0.0273 0.1380  
## 1739 74 6.84e-01 0.9000 7.71e-02 0.3320 0.0853  
## 1916 79 8.36e-01 0.7730 2.42e-05 0.0963 0.5440  
## 1405 70 1.99e-01 0.4990 0.00e+00 0.0554 0.0933  
## 892 65 4.16e-01 0.7030 0.00e+00 0.4540 0.1780  
## 1974 83 1.13e-01 0.5660 1.81e-01 0.0280 0.1550  
## 1278 68 1.39e-03 0.5920 1.74e-05 0.0442 0.1890  
## 1286 68 4.11e-01 0.7400 0.00e+00 0.0546 0.0578  
## 1864 77 2.27e-01 0.5150 3.57e-02 0.0337 0.1710  
## 132 59 1.48e-01 0.7720 0.00e+00 0.3540 0.4080  
## 829 64 1.20e-01 0.6410 2.10e-03 0.0355 0.3580  
## 1253 68 1.12e-01 0.7930 1.68e-06 0.3570 0.1500  
## 1825 76 8.67e-01 0.7930 0.00e+00 0.5790 0.1110  
## 1866 77 6.27e-02 0.8760 0.00e+00 0.3060 0.1270  
## 1034 66 6.40e-01 0.5360 5.88e-06 0.1230 0.1470  
## 1933 80 4.62e-01 0.6990 0.00e+00 0.0603 0.1160  
## 1683 73 1.39e-03 0.5160 0.00e+00 0.0706 0.2960  
## 1061 66 1.14e-01 0.7240 0.00e+00 0.3210 0.1000  
## 710 63 1.11e-02 0.5970 4.68e-06 0.0394 0.0987  
## 142 59 1.32e-01 0.4690 4.71e-05 0.0483 0.1160  
## 1233 68 7.64e-02 0.3980 0.00e+00 0.0392 0.0848  
## 967 65 1.09e-02 0.6990 7.94e-02 0.0392 0.1520  
## 1365 69 1.68e-01 0.7460 0.00e+00 0.0491 0.2640  
## 1603 72 1.14e-02 0.8320 1.02e-05 0.4560 0.0904  
## 1289 68 5.65e-01 0.6310 0.00e+00 0.0886 0.6350  
## 1824 76 1.89e-01 0.8130 2.00e-04 0.1160 0.4260  
## 1215 68 2.48e-02 0.5660 0.00e+00 0.0439 0.0783  
## 1787 75 3.08e-01 0.5380 0.00e+00 0.4240 0.2130  
## 1283 68 8.31e-02 0.8840 0.00e+00 0.2210 0.1180  
## 940 65 1.90e-02 0.6110 1.85e-02 0.0342 0.1140  
## 233 60 9.88e-03 0.7360 0.00e+00 0.1350 0.0731  
## 1274 68 9.75e-01 0.7140 9.04e-01 0.0556 0.3540  
## 1388 69 4.88e-01 0.7730 3.60e-06 0.0958 0.0814  
## 673 63 6.45e-02 0.7030 1.55e-06 0.0672 0.2570  
## 1919 79 8.02e-01 0.7370 0.00e+00 0.1040 0.1710  
## 1524 71 4.50e-02 0.7540 1.31e-03 0.0682 0.2760  
## 1856 77 6.22e-02 0.7150 0.00e+00 0.0752 0.1570  
## 1585 71 1.54e-01 0.7150 1.46e-04 0.0547 0.1100  
## 481 62 2.30e-01 0.6510 0.00e+00 0.0303 0.1390  
## 1841 76 1.77e-01 0.5590 1.50e-06 0.0364 0.1080  
## 1263 68 7.96e-01 0.6760 0.00e+00 0.0347 0.1390  
## 594 63 1.04e-01 0.8830 0.00e+00 0.0902 0.1360  
## 1220 68 1.36e-01 0.5440 0.00e+00 0.0621 0.1060  
## 1275 68 9.11e-02 0.7060 0.00e+00 0.2150 0.3470  
## 1501 70 6.85e-01 0.4060 3.67e-06 0.0293 0.1220  
## 1008 66 8.12e-01 0.5760 1.25e-01 0.2310 0.0943  
## 1268 68 6.39e-02 0.7660 0.00e+00 0.1010 0.2070  
## 1183 67 7.25e-01 0.6570 7.30e-01 0.0395 0.2790  
## 662 63 2.37e-01 0.2850 0.00e+00 0.2470 0.1590  
## 434 61 4.72e-01 0.7090 4.71e-06 0.1600 0.1820  
## 150 59 2.25e-01 0.5670 0.00e+00 0.0317 0.1380  
## 1076 66 5.54e-01 0.7160 0.00e+00 0.0554 0.0993  
## 585 62 4.10e-01 0.7210 7.61e-06 0.3420 0.2920  
## 1180 67 1.93e-01 0.8560 0.00e+00 0.0740 0.0688  
## 1796 75 4.65e-01 0.7450 1.12e-06 0.0720 0.0338  
## 97 58 6.74e-05 0.7400 1.16e-01 0.0454 0.0426  
## 1443 70 7.33e-01 0.6380 1.33e-04 0.0425 0.3340  
## 208 59 2.41e-02 0.5210 0.00e+00 0.0508 0.0395  
## 745 64 1.44e-02 0.5170 0.00e+00 0.0362 0.1130  
## 664 63 6.08e-02 0.8290 0.00e+00 0.2310 0.1350  
## 379 61 7.16e-03 0.9490 0.00e+00 0.1690 0.1010  
## 787 64 8.34e-02 0.7720 0.00e+00 0.1530 0.1150  
## 1383 69 2.52e-01 0.6690 0.00e+00 0.0585 0.7200  
## 1544 71 3.81e-03 0.8000 0.00e+00 0.0485 0.3670  
## 1697 73 6.53e-01 0.7350 9.18e-01 0.0441 0.1010  
## 1042 66 6.37e-01 0.5970 0.00e+00 0.0835 0.1370  
## 1847 76 1.31e-01 0.4300 0.00e+00 0.0431 0.1730  
## 678 63 1.89e-01 0.7400 0.00e+00 0.3300 0.4000  
## 324 60 5.05e-02 0.6800 1.32e-03 0.0482 0.1090  
## 439 61 8.60e-01 0.6840 4.04e-01 0.0297 0.1350  
## 933 65 1.50e-01 0.6510 0.00e+00 0.3240 0.0928  
## 1574 71 3.44e-01 0.5870 2.47e-05 0.0645 0.3240  
## 396 61 2.85e-01 0.8030 1.29e-06 0.0611 0.1610  
## 24 56 3.36e-01 0.6210 0.00e+00 0.0454 0.1570  
## 1669 72 3.72e-02 0.6970 0.00e+00 0.1170 0.1370  
## 1905 78 6.69e-01 0.7040 8.64e-05 0.0604 0.1110  
## 1597 71 4.80e-02 0.6320 0.00e+00 0.1540 0.0705  
## 1229 68 1.11e-01 0.8720 0.00e+00 0.3590 0.1440  
## 315 60 1.64e-02 0.4450 0.00e+00 0.1810 0.2190  
## 851 65 4.03e-02 0.5940 0.00e+00 0.0274 0.1170  
## 487 62 1.05e-01 0.8590 0.00e+00 0.4180 0.1130  
## 99 58 3.63e-01 0.5440 2.14e-05 0.0574 0.1570  
## 1341 69 6.36e-01 0.8110 0.00e+00 0.0414 0.4620  
## 1715 73 4.37e-01 0.7900 0.00e+00 0.0425 0.1580  
## 1108 67 2.54e-01 0.5790 0.00e+00 0.0293 0.0990  
## 1321 69 4.02e-01 0.5140 2.56e-05 0.2800 0.1910  
## 1260 68 8.72e-01 0.6060 2.02e-05 0.0276 0.1060  
## 8 56 7.04e-02 0.8270 1.29e-02 0.4690 0.0950  
## 1899 78 3.88e-01 0.7230 7.40e-05 0.0392 0.0870  
## 1535 71 2.24e-01 0.8170 1.03e-03 0.0824 0.2510  
## 7 55 2.78e-04 0.2690 0.00e+00 0.0362 0.6090  
## 1099 67 1.84e-01 0.4910 0.00e+00 0.0464 0.1190  
## 1095 66 2.10e-01 0.7460 3.63e-02 0.0776 0.2250  
## 21 56 3.88e-02 0.8550 2.03e-05 0.1180 0.1000  
## 1573 71 6.87e-01 0.1720 6.88e-05 0.0324 0.1030  
## 1890 78 7.90e-03 0.8250 0.00e+00 0.0864 0.1130  
## 31 57 2.30e-02 0.5260 0.00e+00 0.0313 0.0948  
## 810 64 1.39e-01 0.6930 1.87e-04 0.1080 0.1110  
## 1025 66 1.79e-01 0.6140 1.72e-05 0.0955 0.1630  
## 270 60 7.54e-03 0.9440 1.07e-02 0.1350 0.1410  
## 1730 74 9.63e-02 0.6310 0.00e+00 0.0505 0.3760  
## 550 62 4.81e-02 0.4860 0.00e+00 0.2460 0.1430  
## 318 60 2.60e-03 0.7180 0.00e+00 0.0354 0.1100  
## 360 61 2.49e-01 0.6420 0.00e+00 0.0333 0.1110  
## 1773 75 3.12e-02 0.4890 0.00e+00 0.0281 0.1320  
## 1536 71 2.18e-01 0.6880 0.00e+00 0.2760 0.1150  
## 919 65 2.35e-03 0.8350 7.43e-01 0.0949 0.0602  
## 291 60 4.71e-01 0.6670 0.00e+00 0.3420 0.1010  
## 465 61 1.53e-01 0.8190 0.00e+00 0.4330 0.1380  
## 307 60 1.86e-02 0.4600 0.00e+00 0.3250 0.3620  
## 1583 71 1.42e-01 0.6120 0.00e+00 0.0756 0.2870  
## 1348 69 1.80e-01 0.0716 9.44e-01 0.0697 0.6920  
## 783 64 2.24e-02 0.6960 0.00e+00 0.0369 0.0747  
## 1883 77 9.87e-03 0.6010 1.36e-06 0.0671 0.3880  
## 973 65 3.07e-02 0.3890 6.53e-05 0.0622 0.3920  
## 1788 75 1.17e-01 0.8540 0.00e+00 0.1370 0.3540  
## 692 63 1.69e-01 0.8420 0.00e+00 0.1010 0.1360  
## 108 58 4.61e-03 0.4830 6.61e-04 0.0313 0.1020  
## 897 65 7.72e-01 0.4400 1.44e-03 0.0459 0.0951  
## 630 63 2.54e-02 0.9360 0.00e+00 0.2290 0.0870  
## 629 63 1.87e-02 0.5350 1.62e-06 0.2070 0.1360  
## 1781 75 1.75e-03 0.6660 4.26e-06 0.0419 0.0429  
## 1499 70 3.90e-01 0.7660 3.37e-05 0.1600 0.3490  
## 231 59 1.44e-01 0.6220 1.65e-02 0.1450 0.1940  
## 1706 73 2.06e-01 0.7680 9.15e-01 0.0385 0.0833  
## 1560 71 4.87e-01 0.7980 8.00e-01 0.2090 0.2390  
## 691 63 2.24e-02 0.8270 0.00e+00 0.0517 0.0417  
## 1954 81 2.17e-01 0.7040 0.00e+00 0.0409 0.0812  
## 1650 72 6.32e-03 0.7360 5.77e-03 0.0470 0.1060  
## 513 62 2.02e-03 0.5250 3.25e-06 0.0689 0.3330  
## 1971 82 7.22e-02 0.3830 0.00e+00 0.0703 0.3680  
## 1756 74 1.93e-02 0.7490 0.00e+00 0.0640 0.5430  
## 952 65 2.14e-02 0.6510 0.00e+00 0.1720 0.1400  
## 326 60 7.09e-01 0.8320 2.52e-02 0.1610 0.2580  
## 1454 70 9.52e-01 0.6340 0.00e+00 0.0622 0.1340  
## 784 64 9.73e-01 0.5470 1.55e-02 0.0308 0.1230  
## 607 63 2.74e-02 0.8890 4.75e-06 0.2610 0.1560  
## 740 64 8.66e-01 0.5480 0.00e+00 0.0384 0.1340  
## 779 64 8.03e-01 0.4170 5.00e-03 0.0346 0.2690  
## 1502 70 2.72e-01 0.7070 0.00e+00 0.6210 0.0903  
## 1242 68 1.14e-01 0.7620 0.00e+00 0.1100 0.0271  
## 591 62 2.30e-01 0.6790 6.02e-01 0.1360 0.1480  
## 444 61 3.24e-01 0.7300 3.79e-06 0.0344 0.1210  
## 253 60 3.20e-01 0.6830 0.00e+00 0.0587 0.2220  
## 1361 69 9.05e-01 0.5400 0.00e+00 0.0458 0.1500  
## 1768 74 2.99e-01 0.5530 0.00e+00 0.0409 0.7640  
## 1790 75 1.52e-01 0.4950 5.65e-06 0.0736 0.0990  
## 887 65 3.70e-02 0.7640 0.00e+00 0.0414 0.1750  
## 1979 83 9.18e-01 0.3310 0.00e+00 0.0299 0.1370  
## 891 65 9.53e-01 0.4930 7.39e-03 0.0309 0.1510  
## 1520 71 2.10e-01 0.8230 0.00e+00 0.1540 0.1130  
## 398 61 1.50e-01 0.5850 0.00e+00 0.4470 0.1110  
## 1867 77 3.85e-02 0.5330 9.32e-04 0.0636 0.0758  
## 622 63 2.03e-01 0.5780 3.78e-04 0.2100 0.1820  
## 206 59 2.71e-02 0.7160 0.00e+00 0.3390 0.3420  
## 133 59 5.42e-02 0.7680 0.00e+00 0.0714 0.1060  
## 1831 76 9.21e-01 0.7780 9.24e-03 0.0482 0.0958  
## 1258 68 9.08e-01 0.5410 0.00e+00 0.3680 0.1630  
## 1733 74 8.80e-01 0.5810 0.00e+00 0.0329 0.1070  
## 774 64 2.44e-02 0.8460 0.00e+00 0.3720 0.1530  
## 1745 74 1.46e-01 0.5220 0.00e+00 0.1930 0.0866  
## 608 63 9.63e-01 0.5470 5.78e-03 0.0457 0.1110  
## 1355 69 6.51e-01 0.7150 2.92e-04 0.4250 0.1720  
## 542 62 8.38e-04 0.3600 0.00e+00 0.0719 0.1150  
## 1636 72 4.93e-01 0.8220 1.28e-02 0.0575 0.1100  
## 57 57 5.82e-03 0.5960 0.00e+00 0.3480 0.1740  
## 781 64 4.67e-02 0.2710 0.00e+00 0.2630 0.1630  
## 236 60 3.04e-02 0.2110 0.00e+00 0.0410 0.0978  
## 27 56 4.27e-01 0.5180 0.00e+00 0.0264 0.1170  
## 384 61 9.80e-02 0.4560 0.00e+00 0.4590 0.1150  
## 89 58 2.59e-01 0.5250 9.19e-06 0.3790 0.8770  
## 1315 69 4.53e-01 0.9050 2.85e-04 0.0662 0.1300  
## 1112 67 2.04e-03 0.4870 6.42e-06 0.0529 0.1100  
## 115 58 8.93e-01 0.6150 8.06e-06 0.0282 0.1270  
## 549 62 3.60e-01 0.7290 0.00e+00 0.0521 0.0849  
## 418 61 2.72e-02 0.5770 0.00e+00 0.1080 0.2400  
## 514 62 3.01e-01 0.7330 5.37e-03 0.2030 0.3830  
## 1211 68 1.10e-01 0.8670 0.00e+00 0.3150 0.1570  
## 1191 67 3.86e-01 0.8240 0.00e+00 0.0323 0.5220  
## 1575 71 3.72e-01 0.5700 0.00e+00 0.0422 0.1270  
## 1753 74 9.54e-02 0.5750 0.00e+00 0.0618 0.3940  
## 1265 68 4.43e-01 0.8670 0.00e+00 0.1780 0.1170  
## 1296 68 8.90e-01 0.5350 0.00e+00 0.3620 0.0964  
## 832 64 6.38e-01 0.6270 6.72e-02 0.0269 0.0759  
## 1616 72 1.98e-01 0.5990 0.00e+00 0.0665 0.0969  
## 946 65 3.14e-01 0.7550 2.38e-06 0.1860 0.0628  
## 1487 70 5.14e-02 0.7020 3.71e-06 0.0374 0.1660  
## 420 61 6.92e-04 0.8990 2.36e-05 0.0738 0.3650  
## 806 64 5.10e-01 0.7370 5.72e-03 0.0882 0.1080  
## 1886 77 9.46e-01 0.8300 2.02e-05 0.0383 0.3620  
## 866 65 4.03e-03 0.6090 5.42e-06 0.0972 0.0926  
## 1486 70 2.91e-01 0.7880 5.62e-05 0.0563 0.1720  
## 1744 74 4.34e-01 0.8210 0.00e+00 0.1180 0.1280  
## 524 62 8.37e-03 0.5590 7.59e-03 0.0387 0.1030  
## 84 58 2.64e-01 0.9210 0.00e+00 0.4060 0.1190  
## 1784 75 2.25e-01 0.4770 0.00e+00 0.1440 0.1070  
## 566 62 3.47e-01 0.4110 7.65e-01 0.0296 0.2220  
## 800 64 4.30e-01 0.6520 1.16e-05 0.0509 0.1820  
## 750 64 1.72e-01 0.5920 0.00e+00 0.1740 0.1060  
## 1950 81 5.46e-01 0.7500 0.00e+00 0.1050 0.1110  
## 1345 69 1.49e-02 0.9210 2.38e-04 0.1190 0.3340  
## 1558 71 2.53e-02 0.6610 0.00e+00 0.0563 0.1230  
## 1272 68 3.42e-02 0.7570 5.87e-05 0.1850 0.1360  
## 228 59 5.45e-05 0.4660 0.00e+00 0.0976 0.2340  
## energy loudness valence duration\_ms tempo key mode  
## 1998 5.29e-01 -7.226 0.20300 165820 161.989 0 1  
## 507 4.44e-01 -8.976 0.66000 215625 144.150 0 0  
## 1748 7.25e-01 -5.497 0.32600 300579 125.800 0 1  
## 979 4.25e-01 -9.064 0.11500 199507 110.620 0 0  
## 175 4.97e-01 -8.489 0.11800 242517 109.906 10 1  
## 793 5.29e-01 -4.895 0.96400 180120 144.869 2 0  
## 699 2.60e-01 -19.291 0.28900 89031 112.062 11 0  
## 69 4.49e-01 -8.783 0.45200 179148 130.092 0 1  
## 1699 3.06e-01 -15.651 0.62000 151693 129.929 9 1  
## 1608 5.27e-01 -6.644 0.47500 200310 116.079 6 0  
## 1818 6.17e-01 -9.320 0.63200 166400 149.962 10 0  
## 305 1.90e-01 -9.628 0.20300 200880 113.955 7 1  
## 1069 5.43e-01 -6.338 0.43000 195992 99.026 2 1  
## 586 6.82e-01 -6.730 0.26800 268087 115.012 6 0  
## 996 7.01e-01 -4.997 0.28000 214219 132.041 4 1  
## 1903 6.75e-01 -3.445 0.44200 417920 96.507 11 0  
## 1928 7.73e-01 -4.218 0.76100 238200 126.899 11 0  
## 1358 7.34e-01 -2.697 0.76900 255507 98.023 1 1  
## 1626 3.37e-01 -9.762 0.12000 155205 119.716 4 0  
## 281 6.05e-01 -5.413 0.65700 146573 39.497 3 1  
## 1944 6.70e-01 -6.702 0.84500 169999 130.032 10 1  
## 763 6.08e-01 -6.616 0.36300 203158 84.766 0 1  
## 1968 5.23e-01 -4.333 0.39400 217307 104.988 2 1  
## 625 8.72e-01 -5.293 0.55900 230400 115.042 8 1  
## 1851 7.47e-01 -4.818 0.44700 192453 105.943 10 1  
## 135 5.75e-01 -8.109 0.53200 80407 62.474 8 1  
## 405 7.31e-01 -4.555 0.87600 190893 118.016 9 1  
## 143 6.72e-01 -7.442 0.45200 178286 139.868 9 1  
## 1793 6.77e-01 -4.979 0.18800 211440 100.584 2 1  
## 649 3.72e-01 -10.254 0.12300 162800 133.997 7 0  
## 1855 5.52e-01 -10.278 0.11200 229320 97.949 0 0  
## 40 6.23e-01 -6.199 0.36100 352977 131.888 4 0  
## 1049 3.10e-01 -10.623 0.15100 208653 137.474 9 1  
## 1992 2.35e-01 -16.541 0.08950 179080 118.917 1 0  
## 1479 9.60e-01 -1.807 0.50300 237077 109.863 4 1  
## 180 4.14e-01 -12.536 0.69800 119683 147.974 10 1  
## 1124 3.30e-01 -8.771 0.34900 250120 119.057 8 1  
## 1564 5.17e-01 -8.681 0.11500 280520 120.044 0 0  
## 1062 7.75e-01 -4.926 0.63500 157643 157.036 2 1  
## 1978 4.88e-01 -7.050 0.53300 201661 136.041 6 1  
## 701 2.76e-01 -14.945 0.41200 212853 80.169 7 1  
## 1460 9.65e-02 -22.035 0.84700 104777 110.008 7 1  
## 836 4.72e-01 -8.192 0.38700 165214 190.011 1 0  
## 1503 3.40e-01 -7.466 0.22100 281067 110.502 7 1  
## 798 2.81e-01 -15.194 0.62000 182869 104.988 8 0  
## 197 7.55e-01 -5.394 0.62500 161200 140.051 2 1  
## 821 3.76e-01 -16.868 0.20000 123180 101.958 4 0  
## 421 8.33e-01 -5.348 0.30700 236693 135.431 9 1  
## 1478 6.96e-01 -4.957 0.73800 235747 180.113 9 0  
## 100 7.32e-01 -5.194 0.32400 95587 159.880 5 1  
## 1344 3.78e-01 -11.354 0.03700 176804 168.232 2 0  
## 1833 5.78e-01 -5.144 0.36700 204665 143.010 4 0  
## 1116 3.88e-01 -11.009 0.55600 205091 109.976 9 1  
## 874 4.76e-01 -7.864 0.12300 174316 94.995 7 0  
## 1234 3.88e-01 -8.532 0.57300 197183 175.123 9 1  
## 186 7.32e-01 -5.016 0.35500 156284 120.052 11 0  
## 1592 7.71e-01 -4.598 0.70900 204453 174.006 7 1  
## 61 7.23e-01 -5.688 0.41100 186774 123.997 6 1  
## 1917 6.33e-01 -4.946 0.55200 232187 96.924 8 1  
## 1115 8.32e-01 -7.661 0.66600 176874 93.991 9 1  
## 605 4.95e-01 -6.885 0.42600 195635 130.046 5 0  
## 855 6.68e-01 -5.488 0.63500 224627 80.989 5 1  
## 864 3.31e-01 -10.617 0.32600 192052 85.064 1 1  
## 1397 6.07e-01 -11.028 0.27400 261881 96.916 11 0  
## 1517 5.56e-01 -7.178 0.31400 166368 126.991 4 0  
## 769 2.66e-01 -12.863 0.11600 231681 120.075 7 1  
## 1276 7.89e-01 -5.210 0.53500 134417 149.961 2 1  
## 170 7.55e-01 -5.875 0.32300 164400 102.973 0 1  
## 592 6.39e-01 -5.962 0.56300 150802 139.226 8 1  
## 1066 6.88e-01 -6.466 0.65000 230063 106.022 11 0  
## 1447 7.43e-01 -2.806 0.74200 195637 150.024 7 1  
## 388 6.99e-01 -4.370 0.41600 212080 131.977 8 1  
## 308 1.79e-01 -10.423 0.22900 265377 77.473 9 1  
## 1137 6.60e-01 -7.883 0.45100 248521 159.949 0 1  
## 985 6.05e-01 -5.002 0.36000 202301 139.233 7 1  
## 91 8.70e-01 -4.741 0.66500 171440 179.975 1 1  
## 310 4.20e-01 -13.282 0.68500 105502 160.243 9 1  
## 1711 7.45e-01 -3.695 0.82000 188560 94.014 11 0  
## 408 4.88e-01 -8.252 0.11500 214253 108.238 11 1  
## 400 4.97e-01 -9.236 0.46300 162750 120.016 7 1  
## 1661 6.83e-01 -6.271 0.49400 210240 102.036 6 1  
## 1581 7.38e-01 -6.073 0.74800 184720 198.075 9 0  
## 1871 6.68e-01 -4.272 0.31400 148230 144.105 5 0  
## 1051 7.80e-01 -6.490 0.44400 233061 125.999 10 0  
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## 1146 6.63e-01 -4.086 0.52500 115194 135.499 1 1  
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## 606 3.94e-01 -6.560 0.12000 227097 135.896 7 1  
## 316 5.20e-01 -8.353 0.30600 148656 84.022 1 1  
## 1082 2.71e-01 -9.131 0.20400 196998 104.001 1 0  
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## 797 8.34e-01 -4.682 0.77600 281587 149.968 9 0  
## 1625 5.36e-01 -5.428 0.25300 221787 159.914 0 1  
## 1514 8.70e-01 -2.188 0.88400 194184 99.079 1 1  
## 410 7.27e-01 -8.160 0.27700 189109 77.991 1 1  
## 786 5.30e-01 -6.995 0.72900 260960 146.380 6 0  
## 885 7.25e-01 -6.067 0.51500 192027 140.003 8 0  
## 736 4.99e-01 -6.597 0.24300 208507 143.761 4 1  
## 147 4.38e-01 -9.146 0.15100 217208 126.050 1 1  
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## 473 6.99e-01 -3.455 0.66500 172138 77.502 1 1  
## 795 9.10e-01 -3.797 0.81800 150819 91.102 6 1  
## 988 7.51e-01 -5.472 0.51000 201832 143.964 7 1  
## 1948 7.12e-01 -6.156 0.62000 299960 97.512 6 1  
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## 1823 5.81e-01 -7.495 0.59500 181263 140.022 10 1  
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## 1542 1.83e-01 -20.188 0.24400 120000 143.960 8 1  
## 1772 8.79e-01 -3.019 0.33400 192000 140.137 1 1  
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## 1158 4.60e-01 -8.389 0.51400 242341 183.241 7 0  
## 658 5.33e-01 -8.433 0.46600 233375 87.017 4 0  
## 713 8.35e-01 -6.399 0.42300 182893 133.986 0 1  
## 1612 4.49e-01 -5.702 0.48100 181710 91.978 1 1  
## 530 3.89e-01 -5.410 0.40900 169872 90.984 8 1  
## 1606 5.50e-01 -7.460 0.18300 214593 76.503 2 0  
## 1293 3.98e-01 -8.010 0.36100 228147 79.874 6 1  
## 564 1.67e-01 -13.007 0.46900 175560 122.627 0 1  
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## 645 4.80e-01 -8.728 0.68000 103549 66.918 4 1  
## 415 6.82e-01 -7.007 0.33800 245098 94.985 2 1  
## 1734 4.77e-01 -7.379 0.55200 226743 127.023 9 0  
## 1144 5.72e-01 -8.820 0.20300 265480 123.963 2 1  
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## 508 5.04e-01 -7.864 0.35500 230953 159.949 10 1  
## 1532 5.71e-01 -7.539 0.55600 139200 99.999 8 0  
## 1889 5.79e-01 -5.024 0.50200 258475 144.994 0 1  
## 283 8.87e-01 -3.108 0.54200 258166 158.274 8 0  
## 1966 1.78e-01 -11.991 0.60800 181613 93.982 0 1  
## 497 7.17e-01 -6.346 0.41200 234308 99.836 9 0  
## 1450 7.74e-01 -5.273 0.21900 212467 100.005 10 0  
## 959 5.20e-01 -8.367 0.42700 330987 127.089 11 0  
## 900 4.35e-01 -4.944 0.56100 126386 111.160 1 1  
## 1176 8.36e-02 -12.663 0.45200 122723 181.032 1 1  
## 215 9.35e-01 -2.418 0.21400 243692 130.001 6 1  
## 1763 7.41e-01 -5.128 0.45800 207030 88.335 4 1  
## 1754 3.03e-01 -10.413 0.17000 197893 170.220 1 1  
## 13 7.11e-01 -2.465 0.46100 169459 148.111 2 1  
## 87 5.91e-01 -7.543 0.90000 256613 104.944 10 0  
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## 819 9.00e-01 -3.955 0.15500 193778 134.988 4 1  
## 1900 7.89e-01 -3.874 0.71700 131064 142.929 4 1  
## 1094 6.23e-01 -8.360 0.50300 201198 104.974 0 1  
## 840 7.23e-01 -3.743 0.72100 237907 92.956 8 0  
## 932 6.60e-01 -5.550 0.18500 214293 115.037 9 0  
## 908 5.01e-01 -7.260 0.19600 265120 82.309 11 0  
## 1828 6.33e-01 -5.145 0.39500 276147 145.914 2 1  
## 1530 5.86e-01 -7.866 0.49200 214467 150.002 11 0  
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## 1794 8.72e-01 -5.896 0.76100 190302 125.030 10 1  
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## 1570 5.08e-01 -6.400 0.31500 217287 99.063 0 1  
## 707 6.40e-01 -6.542 0.80300 222477 120.995 6 1  
## 1196 6.93e-01 -6.245 0.69900 197876 124.206 0 0  
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## 661 6.10e-01 -7.229 0.49700 235880 80.948 0 1  
## 1247 6.79e-01 -6.083 0.45300 191700 102.449 6 1  
## 627 7.19e-01 -8.084 0.57500 217000 149.970 1 1  
## 624 4.13e-01 -6.332 0.59500 311227 95.989 6 0  
## 1193 8.28e-01 -5.523 0.92900 211224 139.413 5 1  
## 90 5.43e-01 -5.158 0.34200 191307 163.942 0 1  
## 300 6.57e-01 -4.245 0.22800 169657 169.969 8 1  
## 772 5.15e-01 -6.246 0.26400 225893 141.009 1 1  
## 675 6.68e-01 -8.526 0.21700 123587 86.018 4 0  
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## 521 7.60e-01 -5.488 0.35900 215999 107.028 11 0  
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## 1719 5.84e-01 -5.047 0.39500 219187 93.016 1 1  
## 1747 8.09e-01 -5.415 0.60900 179227 157.184 6 1  
## 687 6.68e-02 -15.268 0.19000 76974 102.456 11 0  
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## 1023 7.80e-01 -7.253 0.26000 204000 179.928 5 0  
## 684 7.51e-01 -5.460 0.60500 232067 139.510 1 1  
## 155 5.41e-01 -6.932 0.58900 188917 133.005 0 1  
## 749 5.25e-01 -9.694 0.52900 250547 102.987 2 1  
## 362 8.04e-01 -5.889 0.39100 179827 119.838 5 1  
## 266 5.38e-01 -12.349 0.77600 153757 149.906 8 0  
## 1187 6.07e-01 -7.249 0.51800 258853 90.023 8 0  
## 1704 3.71e-01 -9.104 0.24500 191787 199.843 7 0  
## 1377 4.66e-01 -7.258 0.35100 197369 102.058 4 1  
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## 773 6.46e-01 -7.722 0.66400 214160 100.050 2 1  
## 1807 5.58e-01 -6.369 0.32700 240362 135.879 2 0  
## 927 9.28e-01 -2.966 0.57100 189910 95.059 6 0  
## 1021 4.36e-02 -22.849 0.13300 198808 79.141 0 1  
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## 590 6.42e-01 -5.186 0.90000 252947 90.991 4 0  
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## 923 6.31e-01 -4.865 0.88700 225973 109.029 11 1  
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## 882 6.06e-01 -5.032 0.30500 143426 100.434 10 1  
## 1481 3.39e-01 -9.041 0.29100 257000 119.924 2 1  
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## 1640 8.31e-01 -7.288 0.98000 215080 125.901 9 1  
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## 568 7.42e-01 -4.978 0.91000 197147 109.915 8 1  
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## 1382 6.72e-01 -4.877 0.55700 277027 156.208 3 1  
## 1398 6.56e-01 -5.863 0.45000 232173 141.873 11 0  
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## 1439 7.17e-01 -2.714 0.22500 194560 160.981 1 1  
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## 1983 5.74e-01 -6.442 0.27300 196400 120.013 4 0  
## 1838 4.49e-01 -8.330 0.33700 236216 128.028 5 0  
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## 409 6.02e-01 -6.384 0.44200 211200 74.896 10 1  
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## 1959 6.62e-01 -6.903 0.38900 145543 112.511 1 0  
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## 1509 6.85e-01 -7.290 0.23200 333386 110.698 6 1  
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## 858 8.72e-01 -3.212 0.74000 172280 179.965 2 1  
## 1433 5.52e-01 -5.604 0.40200 193973 153.157 9 1  
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## 364 5.49e-01 -8.368 0.41200 160038 144.005 1 1  
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## 1109 4.83e-01 -7.114 0.28200 165618 101.015 6 0  
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## 1328 7.27e-01 -3.585 0.89000 171467 143.144 2 1  
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## 884 6.68e-01 -2.520 0.03870 145161 124.053 1 1  
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## 509 7.71e-01 -5.719 0.47100 251859 161.940 4 0  
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## 1446 4.83e-01 -6.886 0.71500 168418 96.974 5 1  
## 738 9.28e-01 -5.402 0.39300 221600 121.996 11 1  
## 1212 5.78e-01 -5.720 0.16600 192606 140.016 9 1  
## 75 7.61e-01 -7.570 0.30800 265096 191.898 2 1  
## 1371 4.54e-01 -7.072 0.56800 188587 126.059 10 1  
## 1368 6.02e-01 -7.748 0.32800 225040 140.081 9 0  
## 539 8.77e-01 -5.434 0.64900 184286 111.982 5 0  
## 1598 7.84e-01 -4.531 0.74800 217653 94.036 7 0  
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## 1639 5.62e-01 -7.099 0.19300 133691 164.053 9 0  
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## 907 3.00e-01 -11.994 0.24000 210907 75.745 0 1  
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## 1531 5.94e-01 -5.906 0.23700 238053 178.929 7 1  
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## 796 2.55e-01 -15.257 0.24400 213943 137.994 8 1  
## 1179 8.25e-01 -4.666 0.58400 204150 152.914 1 1  
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## 596 6.03e-01 -5.014 0.45200 190643 126.088 8 1  
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## 898 7.17e-01 -3.143 0.35700 157259 152.050 4 0  
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## 825 6.64e-01 -4.926 0.35100 194483 116.028 5 1  
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## 690 6.84e-01 -4.325 0.86400 207722 89.984 1 1  
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## 1892 7.61e-01 -4.469 0.42800 199506 119.001 4 0  
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## 1916 4.37e-01 -8.281 0.70700 169973 103.861 9 1  
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## 550 8.49e-01 -5.432 0.51900 216333 152.086 1 1  
## 318 8.46e-01 -6.157 0.40700 179999 115.002 1 1  
## 360 6.57e-01 -5.246 0.65800 243187 90.000 10 1  
## 1773 5.81e-01 -5.731 0.49400 196747 86.016 11 1  
## 1536 6.56e-01 -5.541 0.36500 157657 160.414 4 0  
## 919 8.28e-01 -4.512 0.17800 320280 107.995 4 0  
## 291 4.65e-01 -10.337 0.47400 329542 133.859 1 1  
## 465 5.13e-01 -9.005 0.60700 109556 140.032 6 0  
## 307 6.97e-01 -5.954 0.70100 202120 153.426 6 0  
## 1583 8.44e-01 -4.694 0.65300 196776 134.868 5 0  
## 1348 9.48e-01 -27.250 0.00548 144727 80.956 0 0  
## 783 3.99e-01 -8.673 0.36400 156770 98.004 4 0  
## 1883 7.94e-01 -5.844 0.24400 217467 114.066 7 0  
## 973 5.91e-01 -8.437 0.25200 271806 138.902 7 1  
## 1788 4.63e-01 -6.159 0.54900 225773 120.024 5 1  
## 692 6.84e-01 -5.457 0.58800 176400 99.994 8 1  
## 108 6.95e-01 -5.493 0.29400 295333 126.212 0 1  
## 897 2.27e-01 -15.486 0.08440 334902 132.354 7 1  
## 630 4.95e-01 -6.062 0.29900 161013 139.951 1 1  
## 629 7.77e-01 -3.292 0.66400 215107 171.720 4 1  
## 1781 7.28e-01 -5.808 0.51000 204878 122.996 7 1  
## 1499 8.22e-01 -4.126 0.88100 231921 165.842 1 0  
## 231 5.15e-01 -7.959 0.21700 263870 168.265 8 0  
## 1706 9.33e-01 -2.950 0.24500 161280 124.996 2 0  
## 1560 8.41e-02 -12.673 0.50600 131000 160.038 11 1  
## 691 6.58e-01 -3.846 0.52300 152862 115.016 6 1  
## 1954 6.11e-01 -6.112 0.22000 189467 100.000 2 1  
## 1650 7.56e-01 -7.099 0.71200 231847 117.016 11 1  
## 513 9.57e-01 -3.742 0.45600 228373 97.445 0 1  
## 1971 6.37e-01 -6.993 0.08270 260773 177.913 3 1  
## 1756 7.94e-01 -5.063 0.46000 269554 135.959 0 1  
## 952 8.33e-01 -3.356 0.44300 304512 155.051 1 1  
## 326 6.57e-01 -6.493 0.41800 173731 133.872 11 0  
## 1454 1.53e-01 -14.409 0.31800 221538 77.770 4 1  
## 784 3.79e-01 -11.655 0.65400 166880 149.853 5 1  
## 607 4.53e-01 -8.782 0.42800 200168 140.025 8 1  
## 740 4.44e-01 -9.400 0.62000 186133 169.917 3 1  
## 779 2.85e-01 -11.041 0.24300 346373 120.954 2 1  
## 1502 4.37e-01 -9.314 0.12300 61022 143.371 7 0  
## 1242 6.04e-01 -5.296 0.84700 97960 168.007 7 0  
## 591 7.35e-01 -6.218 0.60300 225907 107.998 2 0  
## 444 6.80e-01 -4.886 0.45200 221560 109.576 4 0  
## 253 6.30e-01 -5.146 0.45200 203325 159.927 1 1  
## 1361 2.35e-01 -9.676 0.41500 218267 119.766 9 1  
## 1768 5.02e-01 -5.972 0.29600 210200 129.976 0 1  
## 1790 4.26e-01 -9.434 0.06360 237773 97.910 8 1  
## 887 2.71e-01 -5.697 0.03710 262453 116.019 0 1  
## 1979 2.35e-01 -7.700 0.21800 204326 171.232 10 1  
## 891 2.84e-01 -12.815 0.19900 216000 79.959 2 1  
## 1520 7.83e-01 -6.274 0.19900 191437 141.882 0 1  
## 398 5.79e-01 -9.387 0.28100 185218 120.838 10 0  
## 1867 6.38e-01 -9.411 0.32400 207587 135.056 10 1  
## 622 4.91e-01 -8.544 0.64000 184814 98.273 11 0  
## 206 6.19e-01 -10.227 0.58400 135547 162.958 2 1  
## 133 4.08e-01 -8.551 0.09050 179915 129.960 4 0  
## 1831 4.22e-01 -10.114 0.18700 176472 120.033 0 1  
## 1258 2.08e-01 -17.989 0.65000 184272 94.927 1 0  
## 1733 1.97e-01 -7.697 0.34900 214293 130.367 3 1  
## 774 8.51e-01 -3.821 0.82200 178286 139.966 9 1  
## 1745 7.65e-01 -5.395 0.45500 204120 180.065 0 1  
## 608 8.97e-02 -18.732 0.26300 219344 117.170 3 1  
## 1355 5.50e-01 -10.293 0.82400 141663 116.669 10 0  
## 542 9.25e-01 -3.775 0.44600 184227 175.088 6 0  
## 1636 3.18e-01 -12.391 0.13800 245787 102.998 10 1  
## 57 6.99e-01 -8.709 0.43500 157505 108.031 1 1  
## 781 9.48e-01 -2.207 0.51500 186600 83.190 1 1  
## 236 5.58e-01 -6.232 0.31700 327000 143.452 3 1  
## 27 4.04e-01 -7.844 0.34800 393148 154.103 7 1  
## 384 5.16e-01 -10.512 0.68400 151013 77.058 8 1  
## 89 5.58e-01 -9.132 0.38300 252265 144.744 9 1  
## 1315 5.62e-01 -7.884 0.50700 206500 139.997 8 1  
## 1112 9.00e-01 -4.540 0.37700 248373 149.959 5 1  
## 115 4.44e-01 -6.773 0.12500 164577 120.098 8 0  
## 549 6.24e-01 -6.009 0.86700 138432 78.626 7 1  
## 418 9.39e-01 -1.352 0.71400 168613 105.092 1 0  
## 514 5.47e-01 -5.464 0.29500 194220 71.976 8 1  
## 1211 7.74e-01 -5.791 0.54900 142498 130.007 11 0  
## 1191 5.34e-01 -7.115 0.82300 180543 107.552 9 1  
## 1575 4.22e-01 -7.561 0.16900 242293 113.007 1 0  
## 1753 7.58e-01 -5.029 0.49300 182623 144.107 1 0  
## 1265 6.63e-01 -5.838 0.48100 219733 121.978 10 0  
## 1296 3.84e-01 -10.049 0.76700 159573 145.947 9 0  
## 832 3.71e-01 -10.621 0.36100 412418 143.932 2 1  
## 1616 5.71e-01 -4.998 0.28500 206453 151.974 2 1  
## 946 7.69e-01 -5.658 0.64200 186080 114.966 10 0  
## 1487 9.13e-01 -2.977 0.73500 237680 137.982 11 1  
## 420 4.48e-01 -8.789 0.30200 204787 145.975 1 1  
## 806 2.41e-01 -16.034 0.34500 121522 100.000 9 0  
## 1886 1.59e-01 -14.461 0.18900 207400 104.950 1 1  
## 866 8.07e-01 -7.221 0.49200 238493 119.073 5 1  
## 1486 7.71e-01 -3.206 0.70100 207853 99.038 4 0  
## 1744 4.34e-01 -9.194 0.24100 187173 120.012 10 0  
## 524 8.90e-01 -5.188 0.80900 216427 91.509 11 1  
## 84 5.86e-01 -7.770 0.65700 210000 96.042 8 1  
## 1784 6.10e-01 -5.628 0.35800 213993 79.882 11 0  
## 566 3.77e-01 -9.553 0.03210 253781 139.881 3 1  
## 800 3.10e-01 -10.212 0.30400 73813 119.913 4 1  
## 750 5.71e-01 -7.132 0.42400 176076 104.950 1 1  
## 1950 5.60e-01 -8.094 0.45900 221440 140.060 8 1  
## 1345 4.67e-01 -8.443 0.28700 191252 135.995 1 1  
## 1558 7.25e-01 -4.859 0.60500 197939 119.927 6 1  
## 1272 7.30e-01 -6.304 0.45200 189533 90.013 7 1  
## 228 8.64e-01 -5.586 0.48100 197835 138.075 3 0

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## popularity acousticness danceability instrumentalness speechiness liveness  
## 2 55 8.69e-02 0.401 7.79e-01 0.0252 0.1100  
## 3 55 6.28e-01 0.559 0.00e+00 0.2290 0.3360  
## 6 55 2.39e-01 0.583 0.00e+00 0.0304 0.1110  
## 11 56 3.83e-01 0.581 0.00e+00 0.0298 0.3220  
## 15 56 4.82e-02 0.739 0.00e+00 0.0449 0.1560  
## 16 56 2.86e-01 0.598 0.00e+00 0.4520 0.0875  
## 17 56 8.92e-01 0.444 2.13e-05 0.0352 0.8390  
## 28 57 6.49e-01 0.863 0.00e+00 0.3630 0.1020  
## 29 57 6.19e-01 0.585 0.00e+00 0.4250 0.1320  
## 34 57 2.24e-01 0.809 0.00e+00 0.3520 0.6380  
## 35 57 4.81e-01 0.776 1.90e-05 0.3260 0.1240  
## 36 57 6.31e-01 0.881 0.00e+00 0.0901 0.0986  
## 39 57 3.03e-03 0.565 0.00e+00 0.0417 0.0779  
## 41 57 5.54e-01 0.641 3.47e-05 0.0366 0.1100  
## 43 57 2.52e-02 0.786 4.15e-06 0.1830 0.1500  
## 46 57 5.95e-02 0.721 7.44e-06 0.0456 0.1320  
## 47 57 2.03e-02 0.592 0.00e+00 0.0483 0.1220  
## 56 57 1.38e-02 0.598 0.00e+00 0.0382 0.0579  
## 58 57 1.21e-01 0.531 0.00e+00 0.3300 0.3270  
## 59 57 6.44e-01 0.661 3.68e-03 0.0315 0.1140  
## 64 58 5.22e-01 0.869 0.00e+00 0.0438 0.1260  
## 65 58 4.72e-01 0.708 0.00e+00 0.0444 0.1870  
## 70 58 6.82e-01 0.776 0.00e+00 0.2720 0.2050  
## 71 58 9.98e-02 0.860 5.60e-02 0.0665 0.2640  
## 73 58 7.66e-02 0.939 0.00e+00 0.2890 0.1110  
## 74 58 6.75e-02 0.762 3.95e-06 0.0959 0.1140  
## 76 58 7.20e-01 0.523 0.00e+00 0.2250 0.0774  
## 78 58 2.66e-01 0.623 7.20e-06 0.0352 0.0931  
## 82 58 1.65e-01 0.923 0.00e+00 0.3160 0.1090  
## 86 58 3.68e-01 0.866 0.00e+00 0.3360 0.0742  
## 88 58 1.10e-01 0.669 1.58e-05 0.0269 0.0826  
## 94 58 4.26e-01 0.639 0.00e+00 0.0447 0.1510  
## 96 58 3.51e-04 0.519 0.00e+00 0.0738 0.3610  
## 102 58 1.44e-01 0.725 0.00e+00 0.2190 0.4650  
## 103 58 1.89e-01 0.500 9.21e-02 0.0286 0.0999  
## 105 58 2.61e-01 0.502 0.00e+00 0.3570 0.1180  
## 109 58 1.30e-02 0.551 6.03e-06 0.0303 0.2650  
## 112 58 2.63e-02 0.785 2.03e-06 0.0401 0.1220  
## 113 58 2.02e-01 0.750 8.20e-03 0.0372 0.1220  
## 116 58 1.89e-01 0.716 0.00e+00 0.0339 0.1040  
## 122 58 1.37e-01 0.720 1.57e-03 0.0633 0.1220  
## 123 58 2.60e-01 0.678 0.00e+00 0.2870 0.1260  
## 124 58 7.47e-02 0.712 1.85e-01 0.0377 0.0938  
## 125 58 2.36e-01 0.756 0.00e+00 0.0365 0.3860  
## 130 59 2.91e-02 0.452 0.00e+00 0.0422 0.1180  
## 136 59 1.29e-01 0.642 0.00e+00 0.1410 0.1930  
## 139 59 2.52e-01 0.386 0.00e+00 0.0297 0.1800  
## 141 59 1.05e-03 0.536 1.43e-05 0.0266 0.0899  
## 146 59 8.95e-01 0.379 7.18e-02 0.0309 0.1150  
## 148 59 2.71e-03 0.813 0.00e+00 0.2630 0.1910  
## 151 59 9.25e-02 0.895 5.52e-03 0.1860 0.5850  
## 152 59 3.12e-02 0.748 0.00e+00 0.0498 0.0721  
## 153 59 1.48e-04 0.714 8.64e-01 0.0569 0.0819  
## 156 59 5.98e-02 0.706 0.00e+00 0.3700 0.1640  
## 157 59 6.07e-02 0.719 0.00e+00 0.3970 0.0728  
## 160 59 3.77e-03 0.647 1.69e-06 0.0830 0.0574  
## 164 59 1.24e-01 0.667 0.00e+00 0.3140 0.0725  
## 167 59 5.70e-01 0.730 0.00e+00 0.0565 0.1580  
## 171 59 1.88e-01 0.671 0.00e+00 0.0373 0.1820  
## 173 59 4.90e-02 0.556 5.30e-04 0.0525 0.0943  
## 174 59 9.43e-02 0.801 9.35e-05 0.0543 0.1930  
## 177 59 1.86e-01 0.734 0.00e+00 0.4000 0.3720  
## 178 59 1.37e-01 0.908 1.41e-05 0.2210 0.2200  
## 181 59 1.03e-02 0.766 2.22e-06 0.0341 0.1160  
## 182 59 1.15e-01 0.573 1.20e-04 0.0336 0.4020  
## 183 59 1.06e-01 0.654 9.17e-06 0.0417 0.1610  
## 184 59 1.63e-01 0.843 0.00e+00 0.3620 0.1120  
## 185 59 3.35e-02 0.781 0.00e+00 0.5890 0.1630  
## 189 59 9.89e-02 0.859 0.00e+00 0.3990 0.0918  
## 190 59 6.16e-01 0.485 8.05e-03 0.0238 0.1210  
## 193 59 1.38e-01 0.687 0.00e+00 0.0660 0.2030  
## 194 59 4.23e-01 0.732 0.00e+00 0.2100 0.1100  
## 196 59 8.36e-03 0.810 0.00e+00 0.4730 0.2750  
## 198 59 8.72e-01 0.566 3.77e-05 0.2900 0.1740  
## 201 59 2.71e-01 0.490 0.00e+00 0.2600 0.1700  
## 203 59 3.59e-01 0.705 0.00e+00 0.2120 0.1690  
## 204 59 8.05e-02 0.705 0.00e+00 0.3200 0.4760  
## 205 59 2.30e-02 0.703 1.28e-06 0.0463 0.0786  
## 210 59 5.40e-05 0.548 4.21e-02 0.0519 0.1990  
## 211 59 8.89e-03 0.377 1.15e-06 0.1570 0.4820  
## 212 59 9.18e-02 0.805 4.34e-05 0.0839 0.1040  
## 213 59 5.44e-01 0.577 3.29e-06 0.0312 0.1030  
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## 218 59 6.12e-01 0.686 0.00e+00 0.2910 0.1210  
## 220 59 1.62e-01 0.373 0.00e+00 0.0612 0.4800  
## 222 59 3.89e-01 0.581 1.68e-05 0.0781 0.0766  
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## 224 59 3.55e-01 0.746 7.10e-04 0.1340 0.0813  
## 225 59 6.01e-01 0.536 2.26e-05 0.0621 0.1130  
## 227 59 6.40e-01 0.639 0.00e+00 0.3780 0.0518  
## 229 59 8.14e-02 0.800 0.00e+00 0.1040 0.1080  
## 230 59 9.74e-01 0.637 1.48e-01 0.0319 0.3590  
## 232 60 1.03e-01 0.834 0.00e+00 0.3910 0.1450  
## 234 60 2.59e-01 0.606 2.99e-06 0.0288 0.1590  
## 235 60 8.32e-01 0.600 0.00e+00 0.0314 0.1060  
## 238 60 1.73e-04 0.555 2.69e-06 0.0533 0.1390  
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## 242 60 5.47e-02 0.551 1.18e-05 0.0421 0.0743  
## 243 60 2.03e-01 0.671 0.00e+00 0.0667 0.2230  
## 245 60 2.99e-03 0.610 0.00e+00 0.0693 0.0640  
## 248 60 2.76e-02 0.569 0.00e+00 0.2260 0.4790  
## 249 60 2.01e-01 0.643 0.00e+00 0.1200 0.1080  
## 251 60 7.09e-01 0.385 0.00e+00 0.1670 0.2350  
## 257 60 9.65e-03 0.557 0.00e+00 0.0376 0.0536  
## 260 60 3.57e-02 0.875 0.00e+00 0.3400 0.1130  
## 261 60 1.47e-01 0.853 2.79e-06 0.1490 0.1860  
## 262 60 8.39e-01 0.660 7.14e-01 0.0451 0.3740  
## 267 60 2.77e-01 0.793 1.40e-05 0.3850 0.1090  
## 271 60 3.65e-01 0.677 3.63e-05 0.3030 0.1200  
## 273 60 8.67e-02 0.568 0.00e+00 0.1080 0.0972  
## 275 60 7.79e-03 0.811 6.42e-02 0.1610 0.1300  
## 278 60 2.48e-04 0.376 2.64e-06 0.1660 0.0575  
## 280 60 8.97e-04 0.879 2.09e-05 0.5510 0.1080  
## 284 60 5.07e-01 0.794 0.00e+00 0.0523 0.1150  
## 292 60 3.73e-01 0.593 8.08e-04 0.1170 0.2810  
## 293 60 5.18e-02 0.789 5.72e-06 0.0454 0.1010  
## 294 60 3.99e-02 0.840 0.00e+00 0.4760 0.1170  
## 298 60 5.40e-01 0.504 0.00e+00 0.0404 0.3060  
## 301 60 6.06e-01 0.832 5.45e-06 0.0996 0.1100  
## 302 60 1.30e-01 0.686 1.94e-05 0.0348 0.1160  
## 304 60 3.43e-03 0.338 0.00e+00 0.0767 0.1440  
## 306 60 5.05e-01 0.492 5.47e-05 0.0255 0.1120  
## 309 60 2.87e-01 0.620 0.00e+00 0.5530 0.3140  
## 312 60 7.13e-02 0.694 1.63e-02 0.1980 0.0960  
## 314 60 1.26e-01 0.864 4.59e-05 0.0594 0.1150  
## 319 60 7.59e-02 0.757 0.00e+00 0.1500 0.0743  
## 321 60 1.23e-03 0.345 0.00e+00 0.1440 0.0609  
## 323 60 9.62e-02 0.775 0.00e+00 0.1120 0.1040  
## 325 60 6.36e-01 0.800 0.00e+00 0.2680 0.1090  
## 327 60 4.15e-01 0.578 0.00e+00 0.2550 0.1140  
## 329 60 4.57e-03 0.334 0.00e+00 0.0632 0.1580  
## 330 60 2.12e-01 0.985 5.41e-05 0.0712 0.1160  
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## 345 61 2.58e-01 0.599 0.00e+00 0.0787 0.1060  
## 347 61 2.83e-01 0.708 0.00e+00 0.1630 0.1130  
## 348 61 2.80e-01 0.862 2.82e-04 0.3400 0.1130  
## 350 61 7.31e-01 0.392 0.00e+00 0.2030 0.9080  
## 353 61 9.99e-03 0.833 1.99e-05 0.4360 0.1260  
## 354 61 6.81e-01 0.566 1.70e-02 0.0267 0.0741  
## 355 61 4.52e-01 0.766 0.00e+00 0.0993 0.1090  
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## 357 61 1.11e-03 0.542 0.00e+00 0.0379 0.0906  
## 361 61 2.50e-02 0.873 0.00e+00 0.3770 0.0685  
## 363 61 6.19e-01 0.500 0.00e+00 0.0331 0.1240  
## 365 61 1.79e-01 0.589 0.00e+00 0.0379 0.0967  
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## 371 61 2.51e-01 0.422 3.55e-06 0.0365 0.1600  
## 373 61 4.15e-03 0.468 1.21e-05 0.0701 0.5080  
## 375 61 5.55e-02 0.728 1.95e-06 0.0629 0.1070  
## 377 61 4.10e-02 0.902 0.00e+00 0.3160 0.1060  
## 381 61 8.68e-01 0.546 4.18e-05 0.0426 0.0870  
## 383 61 6.40e-01 0.787 5.22e-05 0.1130 0.1100  
## 386 61 2.66e-03 0.789 1.99e-01 0.0442 0.1180  
## 387 61 1.78e-02 0.656 0.00e+00 0.0297 0.2300  
## 389 61 4.80e-01 0.905 0.00e+00 0.3100 0.5280  
## 390 61 5.63e-02 0.663 6.25e-06 0.0349 0.2260  
## 392 61 4.37e-01 0.578 0.00e+00 0.1900 0.2770  
## 393 61 4.53e-01 0.890 1.58e-06 0.0560 0.0831  
## 394 61 2.24e-01 0.733 4.79e-06 0.0280 0.1050  
## 397 61 2.03e-01 0.879 1.85e-03 0.0659 0.3350  
## 399 61 5.58e-01 0.792 0.00e+00 0.1550 0.1340  
## 401 61 3.49e-02 0.738 0.00e+00 0.0838 0.0794  
## 402 61 1.82e-02 0.857 0.00e+00 0.3190 0.1150  
## 403 61 2.94e-01 0.694 0.00e+00 0.0375 0.3760  
## 407 61 8.70e-03 0.736 2.99e-01 0.0443 0.2080  
## 411 61 8.14e-01 0.819 1.62e-05 0.4850 0.3180  
## 413 61 9.77e-02 0.806 0.00e+00 0.2460 0.1050  
## 414 61 1.05e-01 0.639 0.00e+00 0.0490 0.1430  
## 424 61 3.17e-01 0.553 0.00e+00 0.0411 0.7630  
## 428 61 8.97e-01 0.638 8.49e-01 0.1150 0.0731  
## 429 61 4.77e-01 0.776 4.56e-02 0.0357 0.1100  
## 430 61 1.86e-02 0.655 4.47e-06 0.0479 0.1390  
## 431 61 3.75e-02 0.526 0.00e+00 0.0482 0.3750  
## 432 61 2.50e-01 0.654 0.00e+00 0.1270 0.0961  
## 437 61 4.07e-02 0.687 0.00e+00 0.1920 0.1420  
## 438 61 1.58e-01 0.397 0.00e+00 0.0987 0.0844  
## 441 61 4.26e-02 0.424 0.00e+00 0.1930 0.7110  
## 442 61 2.60e-02 0.498 4.98e-06 0.0456 0.0685  
## 443 61 9.08e-03 0.921 0.00e+00 0.1300 0.0798  
## 445 61 7.93e-01 0.732 0.00e+00 0.0360 0.2470  
## 446 61 2.47e-01 0.886 9.06e-01 0.4000 0.1140  
## 447 61 8.55e-01 0.662 1.90e-03 0.0304 0.1440  
## 448 61 9.19e-01 0.520 1.32e-02 0.0513 0.1450  
## 450 61 2.54e-03 0.886 1.34e-04 0.0682 0.1510  
## 458 61 9.03e-01 0.656 4.44e-01 0.0477 0.1230  
## 460 61 8.26e-01 0.493 6.81e-01 0.0572 0.1220  
## 461 61 1.33e-01 0.555 0.00e+00 0.3750 0.1230  
## 462 61 9.70e-01 0.352 5.86e-01 0.1000 0.0664  
## 464 61 1.53e-03 0.545 3.97e-03 0.0429 0.1350  
## 466 61 1.07e-04 0.392 0.00e+00 0.1070 0.2710  
## 471 61 6.97e-01 0.739 1.33e-02 0.0929 0.3620  
## 472 61 9.85e-01 0.859 0.00e+00 0.0886 0.1380  
## 474 62 2.10e-01 0.722 0.00e+00 0.2400 0.3240  
## 475 62 2.36e-04 0.440 1.94e-05 0.2660 0.0897  
## 476 62 2.87e-01 0.527 0.00e+00 0.0416 0.0885  
## 478 62 1.11e-02 0.475 0.00e+00 0.0374 0.1610  
## 479 62 2.80e-01 0.691 0.00e+00 0.2270 0.1060  
## 485 62 1.09e-01 0.843 0.00e+00 0.4560 0.0541  
## 489 62 1.74e-02 0.552 1.98e-06 0.0623 0.1160  
## 491 62 1.59e-02 0.694 1.72e-06 0.0322 0.2870  
## 492 62 1.94e-02 0.483 1.44e-04 0.0295 0.3160  
## 494 62 2.23e-01 0.759 5.84e-05 0.0776 0.4060  
## 495 62 3.24e-01 0.893 0.00e+00 0.2270 0.0968  
## 499 62 3.84e-01 0.818 1.02e-04 0.2850 0.1900  
## 500 62 9.15e-01 0.478 6.36e-06 0.0317 0.1280  
## 501 62 1.74e-02 0.743 7.36e-04 0.1310 0.2640  
## 503 62 3.23e-01 0.503 7.99e-01 0.0279 0.0873  
## 506 62 2.10e-05 0.507 3.29e-02 0.1760 0.3460  
## 511 62 3.12e-01 0.480 1.47e-05 0.0258 0.1130  
## 515 62 4.02e-02 0.742 8.46e-04 0.1160 0.0839  
## 523 62 1.48e-01 0.841 0.00e+00 0.2270 0.3270  
## 528 62 1.15e-01 0.639 0.00e+00 0.0434 0.3730  
## 529 62 3.43e-01 0.679 0.00e+00 0.0360 0.6490  
## 531 62 2.13e-01 0.718 1.28e-05 0.1450 0.2830  
## 532 62 3.84e-01 0.792 0.00e+00 0.4910 0.0830  
## 533 62 1.96e-02 0.583 7.45e-01 0.0266 0.0766  
## 536 62 4.59e-02 0.655 0.00e+00 0.0590 0.4090  
## 538 62 3.09e-01 0.677 0.00e+00 0.0695 0.1180  
## 540 62 2.94e-02 0.839 2.04e-06 0.1940 0.1050  
## 541 62 2.17e-02 0.766 5.87e-05 0.0538 0.2580  
## 543 62 8.49e-01 0.700 6.06e-02 0.0373 0.1070  
## 545 62 1.34e-01 0.614 1.29e-04 0.1640 0.0948  
## 548 62 2.86e-01 0.868 0.00e+00 0.3590 0.2710  
## 552 62 4.89e-01 0.694 1.59e-04 0.0705 0.1310  
## 555 62 7.71e-01 0.704 5.16e-04 0.0470 0.0875  
## 556 62 5.00e-02 0.699 2.90e-04 0.0357 0.0910  
## 560 62 9.23e-02 0.931 8.21e-01 0.1050 0.1140  
## 561 62 5.54e-01 0.702 0.00e+00 0.0296 0.2260  
## 562 62 5.82e-01 0.454 7.74e-01 0.0739 0.1170  
## 563 62 3.56e-01 0.599 5.38e-06 0.0340 0.1020  
## 565 62 1.08e-02 0.528 0.00e+00 0.0518 0.2680  
## 569 62 5.32e-02 0.722 0.00e+00 0.1020 0.4520  
## 571 62 9.86e-02 0.532 9.22e-05 0.1220 0.6570  
## 573 62 8.59e-02 0.805 0.00e+00 0.1200 0.0578  
## 574 62 3.81e-02 0.901 0.00e+00 0.1940 0.1100  
## 575 62 1.40e-01 0.836 2.31e-03 0.0413 0.0681  
## 576 62 7.10e-01 0.672 1.47e-01 0.0326 0.1170  
## 578 62 3.91e-03 0.871 0.00e+00 0.0788 0.0853  
## 579 62 3.74e-01 0.565 1.89e-04 0.3990 0.1310  
## 589 62 5.37e-02 0.633 0.00e+00 0.0550 0.1600  
## 593 63 1.33e-02 0.705 0.00e+00 0.2710 0.1680  
## 595 63 1.11e-02 0.907 4.33e-04 0.3120 0.1080  
## 598 63 3.18e-01 0.587 1.34e-04 0.0347 0.0449  
## 601 63 1.98e-02 0.524 3.41e-06 0.0521 0.1030  
## 610 63 2.90e-01 0.384 2.22e-05 0.0341 0.3590  
## 611 63 1.12e-01 0.810 0.00e+00 0.1940 0.0526  
## 612 63 2.08e-01 0.322 4.37e-03 0.1290 0.3250  
## 613 63 4.80e-02 0.417 0.00e+00 0.0326 0.1030  
## 616 63 7.23e-01 0.357 0.00e+00 0.0777 0.1010  
## 618 63 2.44e-03 0.842 1.89e-05 0.0525 0.1680  
## 619 63 2.99e-02 0.691 0.00e+00 0.2680 0.0868  
## 620 63 2.02e-01 0.621 0.00e+00 0.0334 0.2150  
## 621 63 1.74e-01 0.608 0.00e+00 0.0310 0.2370  
## 626 63 5.72e-01 0.654 6.64e-05 0.0618 0.0969  
## 628 63 2.72e-04 0.371 3.11e-04 0.0497 0.1690  
## 631 63 3.23e-02 0.482 2.43e-03 0.0590 0.1490  
## 636 63 7.48e-01 0.599 0.00e+00 0.1740 0.1110  
## 637 63 1.03e-02 0.906 1.95e-04 0.2060 0.1170  
## 638 63 2.31e-01 0.631 1.30e-05 0.0247 0.0924  
## 640 63 1.14e-01 0.818 0.00e+00 0.4040 0.4120  
## 643 63 6.78e-01 0.745 1.12e-01 0.0326 0.1250  
## 647 63 4.68e-01 0.671 0.00e+00 0.4960 0.1390  
## 648 63 7.07e-02 0.570 0.00e+00 0.3260 0.3390  
## 652 63 5.83e-01 0.663 3.85e-06 0.1250 0.2220  
## 655 63 9.27e-01 0.563 6.55e-01 0.0512 0.2340  
## 656 63 9.18e-01 0.511 0.00e+00 0.1270 0.1050  
## 657 63 7.38e-04 0.777 3.34e-06 0.2370 0.0932  
## 659 63 5.02e-01 0.862 4.78e-05 0.3060 0.0955  
## 660 63 1.09e-01 0.666 9.02e-05 0.0340 0.1320  
## 666 63 5.52e-01 0.487 2.57e-02 0.0371 0.1170  
## 674 63 4.90e-02 0.739 3.69e-03 0.2380 0.0718  
## 679 63 2.61e-01 0.482 1.59e-06 0.0847 0.2040  
## 683 63 7.31e-02 0.568 0.00e+00 0.2650 0.3670  
## 686 63 3.55e-02 0.666 7.21e-05 0.0663 0.0868  
## 688 63 9.18e-02 0.636 9.66e-01 0.0533 0.1010  
## 694 63 1.22e-02 0.680 5.99e-04 0.0304 0.1140  
## 697 63 8.64e-05 0.573 8.38e-01 0.0479 0.6830  
## 700 63 8.53e-01 0.313 3.70e-04 0.0435 0.1810  
## 702 63 2.21e-01 0.658 0.00e+00 0.0311 0.2360  
## 704 63 1.91e-01 0.772 0.00e+00 0.0367 0.0685  
## 705 63 1.50e-02 0.694 0.00e+00 0.0924 0.1140  
## 706 63 5.26e-01 0.558 9.34e-01 0.3730 0.1470  
## 708 63 1.08e-01 0.599 9.82e-04 0.0554 0.1210  
## 711 63 6.72e-01 0.416 3.80e-01 0.0385 0.2050  
## 712 63 1.42e-01 0.422 0.00e+00 0.1800 0.1120  
## 714 63 8.93e-02 0.761 9.77e-06 0.2120 0.1400  
## 715 63 2.19e-01 0.460 3.29e-03 0.0282 0.0990  
## 717 63 1.04e-01 0.691 0.00e+00 0.0321 0.1110  
## 723 63 9.32e-02 0.477 0.00e+00 0.2640 0.7100  
## 725 63 6.82e-02 0.798 0.00e+00 0.2060 0.0925  
## 726 63 9.26e-01 0.397 0.00e+00 0.0394 0.1150  
## 727 63 9.95e-01 0.413 9.19e-01 0.0538 0.1080  
## 729 63 4.68e-01 0.811 6.07e-01 0.0789 0.1090  
## 730 63 1.80e-02 0.538 1.40e-02 0.0521 0.1520  
## 731 63 8.69e-01 0.728 0.00e+00 0.0469 0.1000  
## 734 64 1.58e-01 0.710 0.00e+00 0.0472 0.0997  
## 735 64 2.94e-01 0.552 1.03e-04 0.0306 0.0905  
## 739 64 7.14e-01 0.802 4.10e-06 0.1010 0.1100  
## 744 64 1.04e-01 0.614 3.59e-05 0.0314 0.1040  
## 746 64 5.89e-02 0.312 0.00e+00 0.0466 0.0898  
## 748 64 3.69e-03 0.836 1.73e-04 0.0519 0.5800  
## 751 64 5.58e-01 0.611 1.01e-06 0.0646 0.1310  
## 753 64 6.50e-01 0.583 0.00e+00 0.5640 0.3090  
## 755 64 1.63e-01 0.816 1.99e-03 0.1520 0.1050  
## 756 64 2.10e-01 0.834 0.00e+00 0.5720 0.0641  
## 759 64 3.10e-02 0.836 0.00e+00 0.1060 0.1240  
## 760 64 6.29e-03 0.628 0.00e+00 0.3560 0.1130  
## 765 64 7.50e-01 0.670 1.35e-01 0.0751 0.0976  
## 766 64 5.93e-01 0.340 6.80e-01 0.0426 0.0944  
## 767 64 5.23e-01 0.890 0.00e+00 0.3140 0.1230  
## 770 64 6.96e-01 0.821 0.00e+00 0.2710 0.2250  
## 775 64 5.44e-03 0.889 0.00e+00 0.1650 0.2740  
## 780 64 2.55e-01 0.785 1.32e-03 0.0892 0.0953  
## 785 64 9.69e-02 0.894 8.90e-06 0.2210 0.3290  
## 790 64 9.90e-02 0.743 0.00e+00 0.3010 0.1190  
## 792 64 3.37e-02 0.592 0.00e+00 0.1460 0.1350  
## 794 64 1.37e-01 0.703 0.00e+00 0.1230 0.1920  
## 801 64 1.63e-01 0.660 8.60e-01 0.0358 0.1090  
## 803 64 2.62e-02 0.779 4.88e-03 0.0670 0.1140  
## 805 64 4.63e-01 0.764 5.91e-06 0.0576 0.1090  
## 807 64 1.32e-01 0.808 0.00e+00 0.0557 0.2250  
## 815 64 6.19e-01 0.768 2.10e-06 0.0325 0.2130  
## 820 64 1.90e-01 0.501 0.00e+00 0.0298 0.1030  
## 824 64 3.97e-01 0.770 2.31e-06 0.1350 0.2060  
## 827 64 3.62e-01 0.811 1.88e-06 0.3230 0.1210  
## 828 64 2.05e-01 0.911 1.48e-05 0.0922 0.1150  
## 835 64 9.89e-01 0.284 9.28e-01 0.0432 0.1090  
## 843 64 1.43e-01 0.467 2.91e-06 0.0303 0.1280  
## 844 64 5.99e-02 0.683 2.63e-06 0.1310 0.3650  
## 845 64 2.19e-01 0.762 1.57e-02 0.0672 0.1680  
## 846 64 1.20e-01 0.554 0.00e+00 0.0338 0.2900  
## 847 64 4.69e-01 0.639 0.00e+00 0.0344 0.1920  
## 848 64 2.35e-01 0.701 5.07e-06 0.0969 0.1350  
## 849 65 6.61e-02 0.739 9.78e-05 0.0436 0.1160  
## 850 65 7.48e-01 0.374 0.00e+00 0.0540 0.8210  
## 852 65 1.98e-04 0.390 0.00e+00 0.1330 0.1560  
## 857 65 1.62e-01 0.616 0.00e+00 0.0354 0.0977  
## 860 65 1.40e-02 0.643 0.00e+00 0.0527 0.0834  
## 862 65 1.22e-03 0.614 0.00e+00 0.0402 0.0770  
## 863 65 8.22e-03 0.765 0.00e+00 0.3580 0.2060  
## 865 65 1.00e-01 0.673 0.00e+00 0.0891 0.1150  
## 867 65 2.28e-03 0.953 0.00e+00 0.2480 0.3360  
## 868 65 7.32e-01 0.362 6.31e-04 0.0339 0.1270  
## 869 65 4.54e-01 0.782 6.31e-05 0.0339 0.1340  
## 871 65 1.35e-01 0.869 0.00e+00 0.2970 0.0931  
## 872 65 1.69e-01 0.767 5.29e-04 0.0675 0.1750  
## 873 65 8.34e-01 0.489 3.47e-01 0.0344 0.3250  
## 875 65 4.03e-01 0.730 0.00e+00 0.0431 0.1500  
## 876 65 3.14e-01 0.704 6.36e-06 0.3120 0.1740  
## 877 65 5.76e-01 0.651 1.52e-02 0.3120 0.2720  
## 878 65 2.20e-01 0.855 3.21e-04 0.3160 0.1070  
## 879 65 1.35e-02 0.657 0.00e+00 0.3740 0.2210  
## 881 65 6.37e-01 0.693 3.35e-03 0.1750 0.0951  
## 883 65 1.05e-01 0.676 0.00e+00 0.0562 0.2110  
## 888 65 5.50e-01 0.762 0.00e+00 0.1120 0.1150  
## 889 65 2.82e-01 0.556 0.00e+00 0.3130 0.2160  
## 894 65 1.57e-01 0.767 1.16e-02 0.0983 0.0836  
## 896 65 3.80e-03 0.593 1.26e-02 0.0304 0.0804  
## 901 65 3.13e-01 0.850 0.00e+00 0.3380 0.1940  
## 903 65 4.03e-01 0.775 0.00e+00 0.1410 0.1480  
## 906 65 5.28e-01 0.793 0.00e+00 0.0368 0.1580  
## 909 65 7.95e-01 0.712 0.00e+00 0.5110 0.1870  
## 910 65 6.25e-01 0.711 0.00e+00 0.0400 0.2410  
## 912 65 3.83e-05 0.478 2.77e-05 0.0858 0.2950  
## 913 65 1.13e-01 0.880 2.64e-03 0.0953 0.0943  
## 915 65 6.21e-01 0.681 1.24e-06 0.0423 0.1370  
## 916 65 5.91e-02 0.731 0.00e+00 0.0434 0.0874  
## 917 65 3.00e-01 0.428 0.00e+00 0.1790 0.1360  
## 918 65 1.20e-01 0.916 2.63e-06 0.1620 0.2110  
## 920 65 2.02e-03 0.966 0.00e+00 0.0618 0.1050  
## 921 65 8.02e-01 0.431 0.00e+00 0.0518 0.0862  
## 929 65 2.43e-01 0.697 0.00e+00 0.0310 0.1890  
## 930 65 1.44e-01 0.632 2.11e-02 0.1260 0.1250  
## 937 65 5.55e-03 0.815 4.98e-01 0.2130 0.0983  
## 939 65 2.09e-01 0.526 0.00e+00 0.0813 0.0936  
## 942 65 4.63e-03 0.602 1.61e-04 0.1050 0.3190  
## 945 65 7.81e-02 0.777 1.02e-06 0.0357 0.0869  
## 949 65 3.31e-01 0.741 0.00e+00 0.1360 0.2770  
## 951 65 1.77e-01 0.667 1.52e-02 0.0665 0.0933  
## 953 65 3.19e-02 0.798 2.90e-04 0.2760 0.9050  
## 955 65 4.21e-01 0.778 0.00e+00 0.0547 0.0898  
## 956 65 1.75e-01 0.885 0.00e+00 0.3510 0.2340  
## 957 65 2.15e-03 0.599 0.00e+00 0.0407 0.1460  
## 960 65 6.45e-01 0.547 0.00e+00 0.0348 0.1480  
## 966 65 8.28e-01 0.447 4.90e-03 0.0342 0.1180  
## 971 65 3.67e-01 0.545 0.00e+00 0.0279 0.1180  
## 977 65 2.48e-01 0.750 1.86e-06 0.1120 0.1140  
## 980 65 1.26e-02 0.469 3.76e-05 0.1860 0.5030  
## 981 66 3.98e-01 0.789 0.00e+00 0.0406 0.0891  
## 984 66 8.06e-01 0.447 2.05e-06 0.0457 0.6860  
## 986 66 7.54e-01 0.755 0.00e+00 0.0751 0.1270  
## 987 66 4.82e-01 0.722 0.00e+00 0.3730 0.0954  
## 991 66 9.07e-03 0.833 5.91e-06 0.2110 0.1240  
## 998 66 2.95e-01 0.737 0.00e+00 0.0732 0.1030  
## 999 66 4.35e-02 0.527 1.74e-05 0.0355 0.1250  
## 1000 66 6.30e-01 0.473 0.00e+00 0.0367 0.1420  
## 1001 66 1.77e-01 0.856 0.00e+00 0.1430 0.1930  
## 1003 66 7.16e-02 0.710 1.07e-06 0.0579 0.2060  
## 1004 66 1.22e-01 0.750 0.00e+00 0.4870 0.0993  
## 1006 66 1.52e-02 0.879 0.00e+00 0.0889 0.3910  
## 1007 66 2.66e-01 0.810 0.00e+00 0.1050 0.1740  
## 1011 66 8.71e-03 0.547 0.00e+00 0.0420 0.1000  
## 1013 66 2.07e-03 0.836 0.00e+00 0.2430 0.1100  
## 1014 66 7.68e-01 0.622 9.06e-03 0.0445 0.1340  
## 1015 66 2.98e-01 0.872 0.00e+00 0.1560 0.1380  
## 1016 66 1.27e-01 0.745 0.00e+00 0.0346 0.1030  
## 1017 66 3.95e-01 0.763 7.97e-06 0.2790 0.5680  
## 1022 66 7.66e-01 0.649 2.94e-03 0.0313 0.0816  
## 1028 66 5.11e-02 0.968 0.00e+00 0.2550 0.0731  
## 1031 66 8.60e-01 0.522 8.06e-04 0.0258 0.1420  
## 1037 66 7.74e-01 0.639 4.69e-01 0.0301 0.0857  
## 1038 66 2.67e-01 0.724 5.41e-06 0.2440 0.1180  
## 1041 66 9.34e-01 0.603 4.53e-05 0.0299 0.1120  
## 1044 66 8.11e-01 0.728 0.00e+00 0.1430 0.1170  
## 1045 66 5.46e-03 0.546 0.00e+00 0.0784 0.3820  
## 1047 66 1.35e-01 0.548 0.00e+00 0.0644 0.1020  
## 1048 66 1.98e-01 0.505 0.00e+00 0.4250 0.1250  
## 1052 66 7.65e-01 0.824 7.55e-05 0.0921 0.0845  
## 1053 66 1.23e-02 0.576 2.41e-03 0.0346 0.4670  
## 1054 66 2.18e-01 0.543 1.53e-06 0.1130 0.0850  
## 1057 66 3.01e-01 0.673 5.82e-06 0.0278 0.0705  
## 1059 66 1.85e-01 0.727 3.58e-06 0.1360 0.1250  
## 1067 66 4.28e-01 0.793 0.00e+00 0.0462 0.0823  
## 1068 66 4.36e-03 0.549 0.00e+00 0.2200 0.0698  
## 1070 66 9.96e-01 0.121 4.24e-01 0.0560 0.1260  
## 1071 66 6.80e-03 0.629 7.78e-05 0.0323 0.0807  
## 1073 66 2.34e-02 0.695 0.00e+00 0.1040 0.2770  
## 1077 66 6.99e-03 0.618 1.03e-06 0.0439 0.2020  
## 1078 66 9.06e-03 0.508 1.28e-05 0.1230 0.3160  
## 1079 66 9.16e-05 0.495 0.00e+00 0.0368 0.1670  
## 1084 66 9.07e-02 0.723 0.00e+00 0.2790 0.0771  
## 1086 66 6.49e-01 0.801 0.00e+00 0.0576 0.1090  
## 1088 66 2.63e-01 0.741 5.15e-06 0.0956 0.2660  
## 1089 66 4.01e-01 0.918 7.28e-06 0.1150 0.0805  
## 1090 66 4.46e-01 0.735 3.52e-06 0.0299 0.1290  
## 1091 66 2.37e-02 0.813 0.00e+00 0.0918 0.2880  
## 1097 66 1.38e-02 0.706 0.00e+00 0.1600 0.5950  
## 1098 66 4.04e-02 0.841 0.00e+00 0.0776 0.1260  
## 1101 67 1.39e-01 0.851 0.00e+00 0.0694 0.1050  
## 1105 67 3.90e-01 0.493 0.00e+00 0.0691 0.0957  
## 1107 67 8.67e-03 0.799 0.00e+00 0.2040 0.1320  
## 1110 67 1.14e-03 0.541 1.09e-06 0.0280 0.1510  
## 1113 67 1.37e-02 0.603 0.00e+00 0.0463 0.5130  
## 1114 67 6.32e-01 0.744 0.00e+00 0.0513 0.6050  
## 1117 67 1.28e-01 0.776 0.00e+00 0.1040 0.0932  
## 1118 67 2.89e-03 0.593 2.57e-02 0.0399 0.1400  
## 1119 67 6.61e-03 0.870 4.83e-04 0.2770 0.1080  
## 1120 67 1.17e-02 0.730 0.00e+00 0.2780 0.2800  
## 1121 67 2.48e-01 0.797 4.96e-02 0.0370 0.1320  
## 1122 67 5.40e-01 0.791 0.00e+00 0.0698 0.1030  
## 1123 67 9.03e-01 0.637 0.00e+00 0.0405 0.1070  
## 1125 67 3.90e-04 0.354 6.36e-06 0.2370 0.4310  
## 1126 67 5.58e-03 0.784 2.86e-04 0.1870 0.1060  
## 1129 67 4.67e-02 0.734 0.00e+00 0.3080 0.0477  
## 1132 67 3.22e-03 0.515 2.29e-03 0.0398 0.1490  
## 1135 67 1.12e-01 0.832 1.29e-05 0.0360 0.0945  
## 1136 67 1.71e-01 0.713 1.16e-06 0.0422 0.1180  
## 1138 67 6.26e-01 0.646 1.30e-05 0.2470 0.1070  
## 1139 67 3.68e-01 0.737 0.00e+00 0.5100 0.3060  
## 1142 67 2.17e-01 0.895 3.00e-06 0.2270 0.2390  
## 1145 67 1.50e-01 0.683 0.00e+00 0.3410 0.2270  
## 1147 67 3.15e-02 0.724 1.42e-05 0.0497 0.1110  
## 1149 67 6.36e-02 0.774 0.00e+00 0.0650 0.1380  
## 1151 67 9.48e-01 0.373 0.00e+00 0.0407 0.0816  
## 1159 67 6.08e-01 0.626 0.00e+00 0.0739 0.4930  
## 1160 67 6.97e-01 0.631 0.00e+00 0.0256 0.2100  
## 1161 67 6.55e-01 0.416 2.82e-06 0.0385 0.1200  
## 1165 67 6.13e-01 0.554 2.57e-04 0.2310 0.0982  
## 1167 67 8.83e-01 0.610 1.45e-02 0.0331 0.1030  
## 1170 67 1.05e-02 0.530 6.10e-04 0.0503 0.3790  
## 1171 67 6.29e-02 0.624 0.00e+00 0.0498 0.1350  
## 1175 67 1.66e-02 0.766 2.30e-06 0.1370 0.3470  
## 1182 67 4.45e-01 0.715 2.84e-04 0.4320 0.1030  
## 1184 67 2.04e-01 0.835 4.23e-04 0.1280 0.2830  
## 1190 67 9.82e-01 0.000 1.76e-01 0.0000 0.1270  
## 1192 67 2.13e-02 0.589 1.65e-01 0.0426 0.3100  
## 1195 67 1.14e-01 0.648 4.62e-02 0.0293 0.1160  
## 1198 67 4.94e-02 0.586 5.54e-06 0.0804 0.0939  
## 1200 67 8.72e-01 0.361 0.00e+00 0.0369 0.0987  
## 1202 67 2.05e-01 0.740 0.00e+00 0.0686 0.1070  
## 1203 67 9.44e-01 0.284 6.91e-01 0.4390 0.1080  
## 1204 67 5.54e-01 0.744 6.96e-06 0.1560 0.1020  
## 1205 67 3.27e-01 0.711 0.00e+00 0.2470 0.0887  
## 1206 67 9.01e-01 0.500 0.00e+00 0.0307 0.1040  
## 1209 67 2.93e-01 0.739 0.00e+00 0.1280 0.4770  
## 1210 68 7.48e-02 0.570 0.00e+00 0.0905 0.1990  
## 1213 68 7.50e-01 0.629 0.00e+00 0.0334 0.0853  
## 1216 68 4.47e-01 0.735 1.37e-06 0.1910 0.0956  
## 1222 68 1.48e-01 0.790 9.47e-04 0.2840 0.1260  
## 1224 68 2.27e-02 0.876 1.16e-05 0.1090 0.1070  
## 1225 68 7.92e-01 0.802 1.63e-01 0.0312 0.0783  
## 1228 68 2.57e-02 0.884 0.00e+00 0.2650 0.3070  
## 1230 68 4.30e-01 0.647 2.58e-04 0.2100 0.1190  
## 1238 68 4.90e-02 0.767 0.00e+00 0.1030 0.1150  
## 1241 68 3.72e-01 0.889 0.00e+00 0.3270 0.0926  
## 1243 68 1.67e-01 0.491 0.00e+00 0.1030 0.4580  
## 1248 68 1.40e-02 0.635 3.72e-05 0.0536 0.1030  
## 1250 68 1.29e-02 0.760 3.51e-03 0.0569 0.1060  
## 1252 68 1.91e-01 0.675 0.00e+00 0.2040 0.1040  
## 1255 68 7.91e-01 0.841 0.00e+00 0.3580 0.0872  
## 1257 68 1.05e-01 0.305 4.95e-02 0.0554 0.0906  
## 1261 68 1.82e-01 0.805 3.41e-06 0.3630 0.3460  
## 1262 68 1.66e-02 0.764 1.06e-06 0.0655 0.1030  
## 1266 68 8.01e-01 0.324 0.00e+00 0.0337 0.1150  
## 1267 68 4.41e-02 0.809 0.00e+00 0.1080 0.3410  
## 1270 68 6.52e-03 0.491 1.25e-01 0.1430 0.0906  
## 1271 68 2.63e-01 0.600 0.00e+00 0.0308 0.5880  
## 1273 68 2.66e-01 0.817 0.00e+00 0.2830 0.0992  
## 1280 68 8.12e-03 0.653 2.07e-04 0.0556 0.1260  
## 1281 68 1.15e-02 0.633 0.00e+00 0.0359 0.1030  
## 1287 68 2.72e-01 0.312 0.00e+00 0.0397 0.0901  
## 1290 68 5.35e-01 0.577 0.00e+00 0.0375 0.2070  
## 1294 68 8.87e-01 0.559 0.00e+00 0.0414 0.1070  
## 1295 68 6.89e-01 0.719 0.00e+00 0.0424 0.1030  
## 1299 68 1.97e-01 0.863 0.00e+00 0.0379 0.0793  
## 1300 68 1.49e-02 0.785 6.66e-03 0.0369 0.0661  
## 1304 69 9.51e-03 0.455 0.00e+00 0.0564 0.1430  
## 1305 69 9.18e-02 0.834 0.00e+00 0.0821 0.0759  
## 1306 69 3.91e-01 0.452 0.00e+00 0.0534 0.3030  
## 1311 69 2.74e-01 0.654 2.49e-01 0.0586 0.1030  
## 1314 69 5.68e-01 0.851 0.00e+00 0.0505 0.1300  
## 1318 69 7.64e-01 0.777 2.25e-06 0.0392 0.1550  
## 1319 69 5.12e-01 0.674 2.10e-06 0.0272 0.3310  
## 1320 69 2.21e-03 0.844 1.22e-03 0.5330 0.7000  
## 1322 69 2.70e-01 0.886 2.58e-05 0.2550 0.0864  
## 1323 69 7.18e-02 0.824 0.00e+00 0.2210 0.1060  
## 1324 69 5.25e-01 0.921 1.12e-06 0.2090 0.1230  
## 1325 69 6.92e-01 0.600 9.58e-03 0.2940 0.1370  
## 1327 69 9.08e-01 0.545 0.00e+00 0.1320 0.0942  
## 1335 69 3.68e-03 0.739 0.00e+00 0.0587 0.0968  
## 1337 69 9.76e-01 0.356 1.89e-05 0.0388 0.1110  
## 1338 69 2.62e-01 0.606 0.00e+00 0.0671 0.1000  
## 1340 69 3.75e-01 0.831 1.47e-05 0.1500 0.1180  
## 1342 69 1.06e-02 0.551 4.74e-01 0.1700 0.1180  
## 1349 69 8.60e-01 0.567 2.57e-01 0.0349 0.1150  
## 1353 69 8.72e-01 0.503 2.93e-04 0.0658 0.1200  
## 1357 69 1.56e-01 0.774 0.00e+00 0.2450 0.0955  
## 1359 69 4.00e-01 0.583 0.00e+00 0.2110 0.1830  
## 1362 69 4.27e-01 0.739 2.23e-05 0.0376 0.3170  
## 1363 69 5.71e-01 0.698 5.30e-06 0.0686 0.0587  
## 1370 69 2.87e-01 0.743 8.10e-05 0.1250 0.0778  
## 1372 69 1.37e-01 0.787 1.06e-06 0.0695 0.1080  
## 1374 69 5.39e-01 0.444 0.00e+00 0.0439 0.0544  
## 1376 69 9.11e-01 0.614 0.00e+00 0.0376 0.1480  
## 1378 69 9.62e-01 0.424 3.36e-01 0.0355 0.6640  
## 1384 69 5.12e-03 0.748 0.00e+00 0.0875 0.1750  
## 1389 69 4.02e-01 0.536 0.00e+00 0.0359 0.1100  
## 1391 69 4.51e-01 0.435 0.00e+00 0.0609 0.1120  
## 1392 69 2.19e-03 0.709 0.00e+00 0.0881 0.1030  
## 1394 69 2.33e-02 0.787 0.00e+00 0.0370 0.0861  
## 1395 69 2.91e-01 0.863 1.26e-03 0.0484 0.0794  
## 1396 69 2.37e-01 0.670 0.00e+00 0.0393 0.4650  
## 1399 69 2.10e-01 0.503 7.08e-04 0.0881 0.2570  
## 1400 69 3.03e-01 0.790 0.00e+00 0.0471 0.6100  
## 1403 70 9.64e-01 0.661 1.63e-05 0.0324 0.1060  
## 1404 70 2.08e-01 0.646 0.00e+00 0.0313 0.1250  
## 1407 70 1.01e-01 0.632 0.00e+00 0.0503 0.1700  
## 1408 70 5.66e-03 0.600 9.78e-06 0.0388 0.0891  
## 1412 70 4.62e-01 0.555 1.91e-04 0.0295 0.0869  
## 1413 70 2.08e-01 0.794 7.17e-06 0.0941 0.1200  
## 1416 70 7.80e-01 0.293 0.00e+00 0.0284 0.1100  
## 1419 70 5.44e-02 0.604 2.42e-04 0.1880 0.1620  
## 1420 70 4.91e-02 0.600 0.00e+00 0.3840 0.1090  
## 1421 70 4.76e-02 0.864 0.00e+00 0.1040 0.0863  
## 1424 70 2.57e-01 0.881 1.50e-06 0.1190 0.0964  
## 1428 70 6.35e-02 0.675 7.30e-02 0.1510 0.0711  
## 1430 70 1.21e-01 0.788 1.12e-03 0.1420 0.1660  
## 1431 70 1.65e-01 0.943 0.00e+00 0.2460 0.3270  
## 1435 70 2.56e-02 0.820 0.00e+00 0.4110 0.0952  
## 1437 70 3.39e-01 0.689 0.00e+00 0.1190 0.2970  
## 1438 70 8.94e-01 0.574 1.11e-03 0.1960 0.1180  
## 1441 70 1.42e-02 0.936 0.00e+00 0.1250 0.1320  
## 1445 70 6.07e-04 0.472 2.74e-05 0.0356 0.0957  
## 1452 70 3.47e-01 0.561 2.93e-06 0.0669 0.1220  
## 1453 70 8.95e-01 0.787 2.24e-02 0.0383 0.1150  
## 1458 70 2.23e-01 0.815 0.00e+00 0.0897 0.1040  
## 1461 70 7.45e-01 0.499 1.23e-03 0.0429 0.1060  
## 1462 70 9.52e-01 0.748 9.17e-01 0.2290 0.0866  
## 1463 70 4.18e-01 0.693 0.00e+00 0.1930 0.3380  
## 1465 70 6.43e-02 0.780 3.13e-02 0.0671 0.1740  
## 1466 70 2.63e-01 0.476 2.61e-03 0.1490 0.1090  
## 1469 70 3.48e-01 0.584 4.04e-06 0.0488 0.0983  
## 1470 70 3.23e-01 0.789 3.42e-06 0.0709 0.0645  
## 1473 70 2.15e-02 0.765 0.00e+00 0.1270 0.2270  
## 1480 70 6.16e-01 0.800 0.00e+00 0.0895 0.1180  
## 1482 70 4.79e-04 0.634 1.42e-03 0.0325 0.1110  
## 1485 70 2.50e-01 0.690 0.00e+00 0.3350 0.1080  
## 1490 70 2.98e-02 0.651 0.00e+00 0.0762 0.3960  
## 1492 70 3.72e-01 0.570 0.00e+00 0.0422 0.1270  
## 1495 70 1.64e-02 0.886 6.22e-03 0.0502 0.3290  
## 1498 70 6.66e-01 0.692 0.00e+00 0.1850 0.1070  
## 1505 71 3.64e-02 0.454 0.00e+00 0.1680 0.1810  
## 1507 71 4.01e-01 0.669 0.00e+00 0.0570 0.1190  
## 1511 71 5.52e-03 0.745 0.00e+00 0.3310 0.0881  
## 1515 71 6.85e-01 0.758 6.22e-06 0.1620 0.1140  
## 1519 71 3.73e-01 0.388 4.31e-01 0.0741 0.0755  
## 1522 71 1.66e-01 0.613 0.00e+00 0.1540 0.1170  
## 1526 71 1.11e-03 0.908 6.78e-04 0.1810 0.3830  
## 1527 71 2.74e-01 0.671 6.51e-05 0.1600 0.3700  
## 1528 71 5.13e-01 0.797 0.00e+00 0.2400 0.0786  
## 1533 71 2.31e-01 0.763 0.00e+00 0.2460 0.1090  
## 1534 71 4.81e-01 0.870 2.70e-03 0.4390 0.3290  
## 1537 71 5.91e-01 0.794 0.00e+00 0.0539 0.1090  
## 1538 71 5.98e-02 0.722 0.00e+00 0.0792 0.1790  
## 1540 71 4.13e-01 0.735 0.00e+00 0.0602 0.1040  
## 1541 71 7.56e-03 0.448 0.00e+00 0.0319 0.1170  
## 1543 71 2.37e-03 0.466 3.21e-04 0.3110 0.3320  
## 1545 71 1.33e-01 0.807 3.38e-04 0.0581 0.1010  
## 1551 71 1.21e-01 0.803 0.00e+00 0.0365 0.0920  
## 1552 71 9.46e-02 0.645 2.26e-02 0.0391 0.1590  
## 1555 71 6.10e-01 0.560 1.42e-05 0.0581 0.1110  
## 1559 71 4.72e-02 0.497 0.00e+00 0.0757 0.1020  
## 1562 71 3.99e-01 0.748 0.00e+00 0.0869 0.2940  
## 1567 71 1.14e-01 0.618 0.00e+00 0.1320 0.4150  
## 1568 71 5.63e-02 0.749 2.20e-02 0.0432 0.0977  
## 1569 71 1.28e-01 0.745 0.00e+00 0.2450 0.1820  
## 1572 71 4.90e-01 0.755 0.00e+00 0.0896 0.1570  
## 1577 71 1.38e-01 0.878 1.34e-06 0.2020 0.1510  
## 1578 71 3.49e-01 0.519 0.00e+00 0.0482 0.1210  
## 1579 71 4.87e-02 0.636 0.00e+00 0.0617 0.0728  
## 1580 71 1.03e-01 0.745 0.00e+00 0.0506 0.0335  
## 1582 71 8.52e-03 0.510 0.00e+00 0.1030 0.3460  
## 1586 71 3.88e-01 0.617 0.00e+00 0.0374 0.1430  
## 1587 71 2.90e-01 0.652 0.00e+00 0.0361 0.0730  
## 1588 71 2.02e-01 0.388 2.88e-04 0.0330 0.2830  
## 1589 71 1.88e-01 0.796 0.00e+00 0.2850 0.4990  
## 1590 71 2.41e-01 0.839 0.00e+00 0.3310 0.3000  
## 1591 71 2.69e-01 0.601 0.00e+00 0.0473 0.0883  
## 1594 71 3.27e-01 0.687 0.00e+00 0.0333 0.2030  
## 1596 71 2.09e-01 0.642 0.00e+00 0.0393 0.2100  
## 1600 72 1.43e-01 0.375 0.00e+00 0.0315 0.1100  
## 1601 72 3.01e-01 0.523 0.00e+00 0.0335 0.1720  
## 1602 72 7.65e-01 0.777 6.79e-05 0.1200 0.1100  
## 1604 72 6.02e-01 0.593 0.00e+00 0.0625 0.1190  
## 1605 72 9.96e-02 0.910 0.00e+00 0.0941 0.2610  
## 1609 72 8.90e-01 0.272 9.25e-03 0.0349 0.2750  
## 1610 72 2.63e-03 0.817 0.00e+00 0.2690 0.1590  
## 1613 72 5.86e-01 0.649 1.67e-04 0.1100 0.0667  
## 1614 72 4.84e-01 0.637 0.00e+00 0.0468 0.2220  
## 1615 72 4.20e-01 0.589 3.85e-02 0.0742 0.1090  
## 1617 72 6.74e-01 0.791 5.34e-01 0.0415 0.1020  
## 1619 72 2.36e-01 0.802 5.31e-03 0.1620 0.1050  
## 1621 72 3.98e-02 0.655 3.02e-02 0.0272 0.0759  
## 1628 72 3.06e-02 0.927 0.00e+00 0.1750 0.0736  
## 1630 72 5.20e-01 0.752 0.00e+00 0.3060 0.2110  
## 1631 72 7.66e-01 0.434 7.63e-06 0.0378 0.1490  
## 1633 72 5.24e-02 0.814 1.11e-03 0.0396 0.1110  
## 1638 72 4.75e-02 0.737 0.00e+00 0.2210 0.0905  
## 1643 72 6.85e-01 0.695 1.40e-01 0.0461 0.1050  
## 1644 72 2.87e-01 0.743 8.10e-05 0.1250 0.0778  
## 1645 72 9.07e-01 0.402 0.00e+00 0.0395 0.0941  
## 1648 72 3.35e-02 0.785 4.36e-06 0.1370 0.1080  
## 1657 72 2.19e-01 0.709 2.33e-06 0.0281 0.2410  
## 1658 72 1.91e-01 0.714 0.00e+00 0.0457 0.0553  
## 1659 72 1.81e-02 0.503 1.40e-04 0.4440 0.1690  
## 1660 72 1.09e-01 0.663 0.00e+00 0.0531 0.1200  
## 1662 72 3.82e-01 0.403 0.00e+00 0.0298 0.1480  
## 1666 72 1.65e-02 0.747 9.94e-05 0.1910 0.1010  
## 1668 72 3.37e-02 0.661 8.27e-06 0.0759 0.0518  
## 1670 72 1.71e-01 0.856 0.00e+00 0.0841 0.0857  
## 1673 73 8.13e-02 0.589 0.00e+00 0.0350 0.1460  
## 1676 73 1.28e-01 0.620 0.00e+00 0.1700 0.3730  
## 1678 73 1.37e-02 0.577 0.00e+00 0.0695 0.1210  
## 1680 73 5.68e-02 0.373 0.00e+00 0.0830 0.1140  
## 1681 73 7.39e-02 0.543 0.00e+00 0.1560 0.1100  
## 1682 73 9.64e-01 0.577 7.05e-01 0.2740 0.2080  
## 1684 73 1.21e-01 0.733 0.00e+00 0.4380 0.3440  
## 1685 73 4.56e-01 0.840 3.36e-05 0.0374 0.3500  
## 1688 73 5.16e-01 0.273 1.68e-06 0.2480 0.0855  
## 1690 73 4.68e-02 0.443 0.00e+00 0.0718 0.2470  
## 1691 73 9.95e-02 0.893 0.00e+00 0.3670 0.3710  
## 1692 73 3.59e-01 0.409 4.76e-06 0.0878 0.1670  
## 1694 73 8.36e-01 0.618 1.63e-04 0.0515 0.5380  
## 1695 73 6.98e-01 0.656 0.00e+00 0.0802 0.2960  
## 1696 73 4.25e-02 0.667 0.00e+00 0.0378 0.0761  
## 1698 73 1.07e-03 0.527 1.02e-04 0.0447 0.0993  
## 1700 73 6.63e-02 0.607 1.12e-05 0.0338 0.1070  
## 1701 73 6.93e-01 0.640 3.07e-02 0.0931 0.1140  
## 1702 73 5.64e-02 0.807 0.00e+00 0.0929 0.1070  
## 1705 73 9.05e-01 0.266 7.07e-05 0.0363 0.1320  
## 1708 73 2.67e-03 0.557 0.00e+00 0.0372 0.3060  
## 1709 73 2.11e-01 0.845 3.49e-06 0.0778 0.0383  
## 1710 73 5.75e-01 0.649 0.00e+00 0.0756 0.0705  
## 1714 73 7.02e-02 0.689 0.00e+00 0.1190 0.0889  
## 1717 73 9.88e-02 0.574 0.00e+00 0.0655 0.2640  
## 1718 73 1.72e-01 0.538 0.00e+00 0.0505 0.1100  
## 1720 73 1.29e-02 0.414 0.00e+00 0.0311 0.1110  
## 1727 74 5.87e-03 0.755 1.75e-06 0.0454 0.1090  
## 1728 74 1.67e-02 0.938 0.00e+00 0.1890 0.1110  
## 1732 74 8.11e-02 0.631 0.00e+00 0.0347 0.1540  
## 1735 74 9.91e-02 0.716 0.00e+00 0.1170 0.0842  
## 1741 74 3.05e-02 0.904 0.00e+00 0.1830 0.3250  
## 1742 74 3.81e-01 0.642 0.00e+00 0.0477 0.1080  
## 1743 74 9.37e-01 0.107 1.38e-02 0.0579 0.1110  
## 1746 74 1.47e-01 0.755 0.00e+00 0.2240 0.1090  
## 1749 74 9.49e-01 0.703 0.00e+00 0.0366 0.1020  
## 1751 74 5.49e-01 0.632 0.00e+00 0.2430 0.2000  
## 1752 74 5.13e-01 0.689 0.00e+00 0.0444 0.1630  
## 1755 74 3.23e-01 0.836 1.18e-06 0.0371 0.0910  
## 1762 74 4.45e-01 0.347 0.00e+00 0.0626 0.2310  
## 1764 74 3.31e-01 0.806 0.00e+00 0.0307 0.2940  
## 1765 74 2.99e-01 0.693 7.64e-06 0.0448 0.0955  
## 1767 74 4.51e-03 0.847 8.54e-04 0.1150 0.1430  
## 1769 74 2.67e-03 0.557 0.00e+00 0.0372 0.3060  
## 1770 74 2.39e-01 0.715 1.41e-05 0.0428 0.1890  
## 1774 75 6.16e-04 0.523 0.00e+00 0.0692 0.1420  
## 1775 75 3.73e-01 0.715 0.00e+00 0.0817 0.1740  
## 1776 75 5.09e-02 0.676 0.00e+00 0.3750 0.0796  
## 1780 75 6.41e-01 0.839 4.59e-04 0.0607 0.0939  
## 1785 75 2.02e-01 0.876 0.00e+00 0.1430 0.1080  
## 1786 75 1.83e-01 0.652 3.26e-05 0.0541 0.1060  
## 1795 75 1.14e-02 0.901 0.00e+00 0.3300 0.2590  
## 1798 75 3.74e-01 0.747 0.00e+00 0.0450 0.0586  
## 1800 75 1.04e-02 0.588 3.33e-06 0.0473 0.3380  
## 1801 75 1.69e-02 0.596 0.00e+00 0.4630 0.1240  
## 1802 75 1.84e-01 0.800 0.00e+00 0.0479 0.0558  
## 1803 75 8.35e-01 0.657 0.00e+00 0.0297 0.2480  
## 1804 75 1.77e-01 0.754 0.00e+00 0.0608 0.0808  
## 1809 75 2.23e-02 0.599 0.00e+00 0.0541 0.0669  
## 1812 75 2.08e-02 0.681 3.98e-06 0.1160 0.1920  
## 1813 75 1.34e-02 0.504 0.00e+00 0.2150 0.3630  
## 1815 76 1.63e-03 0.504 1.99e-03 0.1370 0.1480  
## 1817 76 5.88e-01 0.810 0.00e+00 0.3100 0.1020  
## 1820 76 4.07e-01 0.791 0.00e+00 0.0413 0.1480  
## 1822 76 6.59e-02 0.926 0.00e+00 0.1030 0.2310  
## 1827 76 5.58e-01 0.645 3.00e-04 0.2900 0.5620  
## 1829 76 9.56e-02 0.708 0.00e+00 0.0449 0.1340  
## 1830 76 1.00e-01 0.414 1.79e-01 0.0251 0.1310  
## 1834 76 7.23e-01 0.471 0.00e+00 0.0382 0.0964  
## 1835 76 1.45e-02 0.546 0.00e+00 0.1510 0.7420  
## 1837 76 2.11e-02 0.568 1.37e-05 0.0433 0.2130  
## 1839 76 3.02e-01 0.733 2.97e-06 0.0687 0.0579  
## 1840 76 9.85e-01 0.749 1.26e-04 0.0587 0.0832  
## 1842 76 4.83e-01 0.716 0.00e+00 0.0331 0.0928  
## 1843 76 7.08e-01 0.717 4.28e-03 0.0491 0.0899  
## 1844 76 4.05e-01 0.853 0.00e+00 0.0361 0.1110  
## 1845 76 9.40e-02 0.716 6.63e-05 0.2610 0.0825  
## 1846 76 5.68e-01 0.851 0.00e+00 0.0505 0.1300  
## 1850 76 1.81e-03 0.760 7.03e-01 0.0577 0.0975  
## 1853 77 2.92e-02 0.533 0.00e+00 0.0406 0.3860  
## 1858 77 6.40e-01 0.664 1.22e-06 0.1540 0.0753  
## 1860 77 3.60e-02 0.926 4.22e-04 0.0732 0.0896  
## 1862 77 6.48e-01 0.600 4.70e-06 0.1070 0.1620  
## 1863 77 1.81e-01 0.721 3.68e-06 0.0595 0.1430  
## 1869 77 7.35e-02 0.609 6.00e-02 0.0548 0.3450  
## 1872 77 3.23e-02 0.671 0.00e+00 0.0833 0.2670  
## 1874 77 7.01e-01 0.559 1.99e-06 0.1950 0.0853  
## 1875 77 2.65e-01 0.750 0.00e+00 0.1240 0.0515  
## 1879 77 4.81e-03 0.734 0.00e+00 0.1180 0.1230  
## 1880 77 1.96e-01 0.423 0.00e+00 0.0578 0.1890  
## 1885 77 4.66e-02 0.742 0.00e+00 0.1170 0.2060  
## 1887 77 1.49e-01 0.656 8.00e-06 0.1910 0.1600  
## 1891 78 1.11e-01 0.935 0.00e+00 0.3350 0.0952  
## 1893 78 5.34e-03 0.950 0.00e+00 0.2900 0.1100  
## 1894 78 4.43e-01 0.656 0.00e+00 0.2170 0.1320  
## 1896 78 7.30e-02 0.754 0.00e+00 0.0991 0.1930  
## 1897 78 8.91e-02 0.585 9.70e-05 0.0707 0.1190  
## 1901 78 2.36e-02 0.884 0.00e+00 0.1200 0.1010  
## 1902 78 3.25e-01 0.828 3.84e-02 0.0326 0.0808  
## 1908 78 4.76e-01 0.584 0.00e+00 0.0460 0.1800  
## 1909 78 4.16e-01 0.575 0.00e+00 0.0310 0.0872  
## 1910 79 3.55e-02 0.963 0.00e+00 0.5300 0.1080  
## 1913 79 3.67e-01 0.520 1.87e-03 0.2060 0.1190  
## 1918 79 2.17e-02 0.540 6.87e-04 0.0347 0.3050  
## 1922 79 8.41e-01 0.713 3.80e-03 0.0295 0.1050  
## 1923 79 1.83e-02 0.566 0.00e+00 0.0872 0.1080  
## 1929 79 2.99e-01 0.553 0.00e+00 0.0409 0.7640  
## 1935 80 8.00e-01 0.481 0.00e+00 0.0339 0.2490  
## 1936 80 2.23e-01 0.815 0.00e+00 0.0897 0.1040  
## 1937 80 5.55e-01 0.560 0.00e+00 0.3210 0.1160  
## 1938 80 6.09e-02 0.854 8.16e-02 0.1060 0.1000  
## 1941 80 4.46e-02 0.877 3.46e-05 0.1170 0.0863  
## 1942 81 3.69e-01 0.614 1.84e-06 0.0289 0.1150  
## 1945 81 4.14e-02 0.665 0.00e+00 0.1560 0.0896  
## 1946 81 1.15e-01 0.594 0.00e+00 0.0844 0.1430  
## 1947 81 1.53e-02 0.581 0.00e+00 0.3030 0.1110  
## 1949 81 6.19e-01 0.672 2.41e-01 0.1330 0.0992  
## 1951 81 3.94e-01 0.000 1.00e+00 0.0000 0.1110  
## 1953 81 2.33e-02 0.602 6.00e-05 0.0558 0.2370  
## 1956 81 2.05e-01 0.626 0.00e+00 0.0504 0.1280  
## 1958 81 1.19e-02 0.781 4.91e-06 0.0394 0.3250  
## 1960 82 1.45e-01 0.759 3.06e-06 0.0516 0.1100  
## 1963 82 9.90e-02 0.816 0.00e+00 0.1290 0.3720  
## 1964 82 1.70e-01 0.461 0.00e+00 0.0356 0.3070  
## 1969 82 3.72e-02 0.697 0.00e+00 0.1170 0.1370  
## 1970 82 3.70e-02 0.791 2.19e-05 0.1100 0.0814  
## 1972 82 1.76e-01 0.694 1.10e-05 0.1490 0.1180  
## 1973 83 3.68e-01 0.901 1.71e-05 0.0645 0.2380  
## 1977 83 3.32e-02 0.754 8.29e-05 0.1090 0.5520  
## 1981 83 6.26e-02 0.672 5.14e-05 0.0789 0.1520  
## 1986 84 1.93e-01 0.579 0.00e+00 0.0618 0.0640  
## 1987 84 7.40e-01 0.652 0.00e+00 0.0318 0.1240  
## 1988 85 5.44e-01 0.515 5.98e-03 0.0261 0.1910  
## 1991 85 8.83e-01 0.669 0.00e+00 0.0290 0.0984  
## 1993 85 1.91e-01 0.687 0.00e+00 0.0452 0.1670  
## 1999 89 3.49e-01 0.511 0.00e+00 0.2000 0.3400  
## 2000 89 9.34e-01 0.351 0.00e+00 0.0333 0.0950  
## energy loudness valence duration\_ms tempo key mode  
## 2 0.50500 -8.574 0.28700 266667 97.796 5 1  
## 3 0.63100 -11.184 0.92900 119987 173.172 8 0  
## 6 0.45900 -8.422 0.35700 169506 99.809 9 0  
## 11 0.52000 -5.347 0.64300 251627 79.565 4 1  
## 15 0.78100 -4.584 0.16400 191489 93.981 2 1  
## 16 0.60500 -4.920 0.51300 194792 159.517 7 0  
## 17 0.21000 -13.500 0.24600 319853 140.939 3 1  
## 28 0.66900 -4.613 0.52000 213750 127.962 2 1  
## 29 0.75600 -4.190 0.83800 163019 158.317 8 1  
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## 35 0.81200 -4.772 0.71000 176471 136.051 2 1  
## 36 0.58100 -5.162 0.87600 163567 78.508 5 1  
## 39 0.82500 -4.245 0.60900 218733 160.003 10 1  
## 41 0.29400 -13.337 0.89000 166533 132.709 0 1  
## 43 0.66300 -9.342 0.56600 170806 96.470 4 0  
## 46 0.41100 -9.559 0.47300 135168 100.020 6 1  
## 47 0.74900 -4.604 0.61400 177354 160.046 11 1  
## 56 0.80000 -5.687 0.67900 237507 95.030 5 0  
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## 167 0.49400 -6.402 0.56100 247293 86.732 10 1  
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## 595 0.65100 -5.661 0.63700 195547 147.026 6 0  
## 598 0.88800 -5.062 0.97600 194720 74.022 2 1  
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## 612 0.55500 -8.726 0.39700 132147 96.019 11 0  
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## 628 0.77800 -7.969 0.48200 216146 122.719 4 1  
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## 636 0.31700 -11.212 0.20300 215413 148.090 1 1  
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## 640 0.44300 -11.444 0.72200 184960 74.491 5 0  
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## 648 0.65000 -8.538 0.17400 323587 96.767 2 1  
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## 657 0.65700 -6.434 0.24500 226107 189.992 1 1  
## 659 0.35700 -20.128 0.51900 205740 140.026 5 1  
## 660 0.52700 -5.851 0.37000 223638 115.979 9 1  
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## 683 0.87300 -5.220 0.54700 209093 106.783 1 1  
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## 711 0.38900 -13.696 0.29500 110862 168.897 9 1  
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## 725 0.48700 -4.939 0.29200 246360 151.020 1 1  
## 726 0.24900 -10.484 0.32900 198404 79.614 5 1  
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## 731 0.42800 -7.368 0.43400 164133 98.024 3 0  
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## 1396 0.74300 -4.993 0.57100 218293 125.944 10 1  
## 1399 0.58100 -7.007 0.63300 233601 94.555 6 1  
## 1400 0.85800 -2.780 0.79000 192000 92.050 2 1  
## 1403 0.14000 -16.339 0.30600 189000 79.977 6 0  
## 1404 0.78100 -4.616 0.56500 169920 94.975 1 1  
## 1407 0.80400 -6.109 0.35000 199625 92.456 7 1  
## 1408 0.85100 -4.645 0.72700 186119 98.007 11 1  
## 1412 0.43000 -9.105 0.27400 246133 147.613 2 1  
## 1413 0.45900 -7.404 0.26600 187007 149.033 7 1  
## 1416 0.23700 -8.170 0.10800 215613 92.935 6 1  
## 1419 0.43600 -8.320 0.23900 361280 107.978 2 1  
## 1420 0.71600 -5.554 0.24600 175040 180.165 3 0  
## 1421 0.66400 -7.315 0.38100 99108 94.932 8 1  
## 1424 0.62300 -9.662 0.74500 129547 88.953 1 1  
## 1428 0.46400 -9.277 0.12900 233785 79.550 1 1  
## 1430 0.84200 -4.006 0.48100 166476 190.077 4 0  
## 1431 0.67700 -6.033 0.61600 145760 112.001 7 1  
## 1435 0.56800 -8.230 0.53500 210787 152.279 6 0  
## 1437 0.58400 -5.768 0.67600 191680 156.572 1 0  
## 1438 0.12300 -13.959 0.11700 98027 115.431 1 1  
## 1441 0.58500 -6.914 0.24200 255379 124.991 0 1  
## 1445 0.74500 -5.297 0.06310 252926 180.060 4 1  
## 1452 0.68400 -8.235 0.52800 219680 81.977 9 1  
## 1453 0.31200 -12.401 0.42500 128888 119.899 7 1  
## 1458 0.51800 -6.594 0.87700 177667 151.891 7 0  
## 1461 0.18100 -15.359 0.07470 214533 111.956 9 0  
## 1462 0.26500 -12.074 0.14000 126250 77.009 8 0  
## 1463 0.43400 -9.366 0.68500 159327 63.033 1 1  
## 1465 0.49200 -3.400 0.37400 94246 143.983 5 0  
## 1466 0.71800 -7.227 0.36100 230027 183.932 5 0  
## 1469 0.59900 -7.786 0.87500 191880 119.573 6 0  
## 1470 0.53400 -6.347 0.63100 139840 134.055 8 0  
## 1473 0.70400 -4.589 0.49800 192172 147.055 5 0  
## 1480 0.35500 -10.470 0.25300 228493 145.929 6 0  
## 1482 0.66200 -7.543 0.24400 210933 90.011 6 1  
## 1485 0.71000 -5.144 0.72600 200747 192.068 5 1  
## 1490 0.75600 -4.388 0.47300 227191 121.960 8 1  
## 1492 0.42200 -7.561 0.16900 242293 113.007 1 0  
## 1495 0.84000 -3.386 0.20300 179512 123.035 2 1  
## 1498 0.57000 -8.077 0.30900 250454 91.917 7 1  
## 1505 0.66000 -4.357 0.56800 212374 184.353 0 1  
## 1507 0.61700 -8.720 0.62100 222573 147.992 10 1  
## 1511 0.34600 -7.709 0.11200 237240 203.911 1 1  
## 1515 0.70100 -6.053 0.62600 211150 106.740 9 1  
## 1519 0.90400 -4.934 0.83900 207692 103.802 8 1  
## 1522 0.60000 -7.097 0.53200 223543 147.059 8 1  
## 1526 0.52400 -7.955 0.10900 224285 138.015 1 1  
## 1527 0.56500 -7.401 0.56100 210197 150.014 11 0  
## 1528 0.55000 -4.166 0.54300 206267 134.206 9 1  
## 1533 0.53700 -7.018 0.42600 222387 73.510 9 0  
## 1534 0.34100 -14.150 0.43600 160105 119.054 9 1  
## 1537 0.44800 -4.771 0.58800 231333 120.055 10 0  
## 1538 0.77300 -4.378 0.72400 179147 94.997 5 0  
## 1540 0.45300 -8.264 0.33500 217387 115.002 8 0  
## 1541 0.82600 -3.244 0.19000 254805 77.093 2 0  
## 1543 0.82300 -6.635 0.78200 68523 175.797 2 1  
## 1545 0.31900 -8.152 0.29900 182080 94.992 0 0  
## 1551 0.48500 -6.491 0.42200 171968 127.010 1 1  
## 1552 0.93800 -4.557 0.49500 263880 140.886 11 0  
## 1555 0.67800 -6.167 0.29000 220293 122.585 10 0  
## 1559 0.77000 -4.298 0.47000 213640 167.892 6 1  
## 1562 0.46500 -8.163 0.41200 182679 119.872 5 1  
## 1567 0.84500 0.175 0.48600 181720 171.921 2 1  
## 1568 0.72300 -6.609 0.67400 229120 108.999 1 1  
## 1569 0.71500 -3.368 0.34200 136032 94.513 1 0  
## 1572 0.62500 -7.114 0.37400 174861 147.020 2 1  
## 1577 0.55500 -7.639 0.75100 190909 88.029 1 0  
## 1578 0.62500 -5.909 0.21000 203187 120.103 10 1  
## 1579 0.87600 -4.652 0.75900 221529 149.932 9 1  
## 1580 0.64200 -4.138 0.35000 186520 120.063 6 0  
## 1582 0.84200 -2.782 0.30200 240339 87.605 11 0  
## 1586 0.57000 -3.074 0.63200 156947 163.200 9 0  
## 1587 0.89800 -4.481 0.47200 193377 114.043 7 0  
## 1588 0.72000 -5.541 0.55400 341747 141.283 7 1  
## 1589 0.91100 -1.998 0.91800 204631 180.128 1 1  
## 1590 0.61700 -4.692 0.82100 194426 143.894 7 1  
## 1591 0.77500 -4.612 0.48300 190295 119.964 0 1  
## 1594 0.78500 -4.650 0.65500 194408 106.046 1 1  
## 1596 0.88100 -3.537 0.91300 222045 138.030 11 1  
## 1600 0.57400 -5.305 0.40600 196800 132.025 7 1  
## 1601 0.83700 -4.494 0.52300 193929 82.006 7 1  
## 1602 0.60400 -5.813 0.67200 157693 99.934 8 1  
## 1604 0.81000 -5.733 0.71200 207933 144.011 1 1  
## 1605 0.36600 -9.954 0.74000 152000 119.985 1 1  
## 1609 0.23800 -12.148 0.11900 161840 83.507 2 0  
## 1610 0.81600 -5.402 0.50800 190288 181.982 2 1  
## 1613 0.49300 -7.645 0.27700 231964 104.542 11 0  
## 1614 0.86400 -4.381 0.70600 214720 99.995 8 1  
## 1615 0.48400 -11.613 0.07260 95709 139.998 7 1  
## 1617 0.26700 -11.997 0.54400 215111 165.990 5 1  
## 1619 0.46300 -8.379 0.29100 287040 103.961 8 1  
## 1621 0.66800 -6.733 0.86700 202627 93.003 0 1  
## 1628 0.56300 -5.827 0.84200 109302 103.312 7 1  
## 1630 0.69800 -6.530 0.34700 159453 132.058 11 1  
## 1631 0.30200 -10.117 0.17300 220867 121.645 10 1  
## 1633 0.78500 -5.679 0.94100 255040 120.009 1 0  
## 1638 0.85400 -6.414 0.65000 166080 150.621 3 0  
## 1643 0.25300 -15.884 0.26400 130926 120.033 2 1  
## 1644 0.73000 -4.314 0.15000 197968 179.972 10 0  
## 1645 0.15100 -14.227 0.48300 238013 144.293 4 0  
## 1648 0.42500 -6.665 0.19200 166627 174.028 10 1  
## 1657 0.48300 -3.734 0.83400 234198 123.566 0 1  
## 1658 0.73600 -3.801 0.81400 210818 149.985 2 1  
## 1659 0.59200 -5.923 0.34400 231618 201.850 5 0  
## 1660 0.57700 -7.518 0.45400 193200 89.996 11 0  
## 1662 0.35600 -7.547 0.15100 190760 171.454 10 1  
## 1666 0.74000 -4.325 0.55200 158800 176.059 4 0  
## 1668 0.81400 -5.529 0.45900 219373 99.963 0 1  
## 1670 0.61700 -5.308 0.75900 235780 136.082 10 0  
## 1673 0.88200 -3.039 0.79300 197253 129.915 6 1  
## 1676 0.45100 -7.623 0.29400 122285 156.906 6 1  
## 1678 0.83300 -3.337 0.58000 169667 107.936 5 1  
## 1680 0.71700 -5.833 0.29300 162981 109.977 1 0  
## 1681 0.49200 -7.432 0.10700 231298 220.099 7 1  
## 1682 0.38700 -8.607 0.45900 126312 146.565 7 1  
## 1684 0.67800 -7.771 0.84100 142000 175.985 6 1  
## 1685 0.34400 -8.613 0.52600 199227 111.994 5 0  
## 1688 0.56500 -7.283 0.29800 235226 179.518 2 1  
## 1690 0.62300 -6.717 0.15600 233000 79.365 0 0  
## 1691 0.65100 -8.647 0.60000 253580 105.835 0 0  
## 1692 0.67800 -7.731 0.16800 280842 89.968 9 1  
## 1694 0.21700 -15.372 0.08720 202103 116.014 10 1  
## 1695 0.57700 -5.566 0.86100 181522 173.094 10 0  
## 1696 0.74100 -4.099 0.42200 204747 149.908 1 1  
## 1698 0.83400 -5.531 0.42200 198333 110.065 1 1  
## 1700 0.45000 -8.507 0.12100 244907 105.992 0 1  
## 1701 0.32100 -14.604 0.17700 210376 145.045 0 1  
## 1702 0.63300 -6.016 0.32500 311726 138.038 10 0  
## 1705 0.05960 -18.515 0.14300 201933 181.740 0 1  
## 1708 0.71900 -4.515 0.34400 242334 77.501 2 0  
## 1709 0.56100 -5.253 0.81100 200853 109.974 1 0  
## 1710 0.30700 -7.209 0.71300 225213 74.833 5 1  
## 1714 0.67800 -4.287 0.33500 200306 145.883 5 0  
## 1717 0.90900 -1.572 0.56500 208240 169.964 8 1  
## 1718 0.40900 -6.581 0.26500 205440 171.838 9 0  
## 1720 0.48600 -6.431 0.36800 230762 128.038 6 0  
## 1727 0.61500 -8.245 0.03900 215364 105.955 4 1  
## 1728 0.63800 -4.713 0.31300 158332 97.075 8 1  
## 1732 0.67200 -4.583 0.28200 192859 119.948 11 1  
## 1735 0.72900 -6.313 0.27600 226693 131.975 5 1  
## 1741 0.51800 -5.320 0.18800 303077 137.996 2 1  
## 1742 0.78200 -3.395 0.39600 195053 162.005 5 0  
## 1743 0.23600 -26.609 0.00228 162407 80.628 11 0  
## 1746 0.59900 -5.042 0.75500 216632 133.123 8 1  
## 1749 0.17900 -10.906 0.34600 199131 97.427 4 1  
## 1751 0.68600 -7.665 0.32900 170770 89.949 6 0  
## 1752 0.51600 -5.857 0.20900 190920 124.876 8 1  
## 1755 0.76600 -6.229 0.84400 176000 112.548 7 0  
## 1762 0.57800 -7.525 0.22600 276708 86.730 8 1  
## 1764 0.70700 -4.623 0.74600 209648 118.011 7 1  
## 1765 0.62400 -7.482 0.36900 205987 105.002 0 0  
## 1767 0.65600 -4.976 0.23400 154787 114.001 2 1  
## 1769 0.71900 -4.515 0.34400 242334 77.501 2 0  
## 1770 0.60500 -5.128 0.45400 212733 122.956 0 0  
## 1774 0.67800 -6.071 0.27700 244194 159.909 8 1  
## 1775 0.57400 -6.236 0.33700 183703 157.000 7 1  
## 1776 0.57800 -4.669 0.69800 203881 158.896 10 0  
## 1780 0.47300 -7.835 0.06440 135016 98.732 10 0  
## 1785 0.51900 -6.531 0.15800 175230 94.981 11 1  
## 1786 0.67800 -6.183 0.28000 263014 72.989 2 1  
## 1795 0.52200 -8.304 0.32900 127947 104.053 2 1  
## 1798 0.83400 -2.867 0.68700 215760 128.005 3 0  
## 1800 0.67000 -6.439 0.50500 238173 118.159 0 1  
## 1801 0.85400 -5.114 0.15200 203418 120.274 7 0  
## 1802 0.74000 -4.520 0.77500 226200 90.035 10 0  
## 1803 0.59100 -3.505 0.68700 189347 132.041 10 1  
## 1804 0.85400 -3.449 0.80000 229720 75.002 5 0  
## 1809 0.77400 -4.014 0.69600 223123 129.819 1 0  
## 1812 0.86400 -4.300 0.47900 210288 90.008 8 0  
## 1813 0.78800 -4.113 0.22800 186022 170.039 3 0  
## 1815 0.89100 -5.632 0.62800 214520 153.988 6 0  
## 1817 0.35300 -9.931 0.07270 208293 88.031 6 0  
## 1820 0.58700 -5.075 0.53600 179449 96.057 3 0  
## 1822 0.70300 -6.337 0.48500 223713 125.022 11 0  
## 1827 0.41800 -10.065 0.12300 140760 96.963 6 0  
## 1829 0.64800 -5.626 0.33800 201707 143.955 6 1  
## 1830 0.41600 -8.024 0.19600 186268 159.910 11 0  
## 1834 0.47400 -6.355 0.26200 174793 120.656 5 1  
## 1835 0.82200 -4.483 0.61500 177600 150.060 7 1  
## 1837 0.65600 -5.413 0.36400 198160 100.049 8 1  
## 1839 0.47700 -6.737 0.54500 216133 62.507 2 0  
## 1840 0.41800 -7.925 0.30700 153887 147.887 9 0  
## 1842 0.51200 -6.257 0.32600 165907 104.957 1 1  
## 1843 0.57700 -5.436 0.23500 185520 104.927 8 1  
## 1844 0.47600 -6.696 0.79600 235747 92.038 8 1  
## 1845 0.94600 -3.412 0.58700 200571 139.943 1 1  
## 1846 0.54100 -6.825 0.44800 235545 124.959 0 1  
## 1850 0.96400 -5.844 0.64300 248036 125.003 2 1  
## 1853 0.90700 -3.793 0.70000 183160 150.990 11 1  
## 1858 0.66700 -5.941 0.38100 227533 180.064 4 1  
## 1860 0.45400 -9.932 0.34000 224002 119.969 6 1  
## 1862 0.53500 -7.043 0.26900 225133 71.912 4 1  
## 1863 0.70700 -6.364 0.74300 158206 125.005 6 1  
## 1869 0.67400 -7.388 0.31500 324467 90.009 10 0  
## 1872 0.85900 -3.922 0.38900 209355 139.931 4 0  
## 1874 0.42200 -11.890 0.19100 286928 74.002 11 1  
## 1875 0.66500 -3.083 0.69700 219357 95.239 8 1  
## 1879 0.85500 -3.211 0.42200 222732 126.035 9 1  
## 1880 0.63400 -5.877 0.46700 195840 150.978 6 0  
## 1885 0.88200 -2.862 0.46300 221176 102.040 7 1  
## 1887 0.66200 -1.387 0.57300 307435 189.983 1 1  
## 1891 0.55200 -9.373 0.61500 145627 99.993 10 0  
## 1893 0.59000 -6.508 0.21900 183527 130.003 8 0  
## 1894 0.43200 -9.481 0.08970 222374 97.022 6 0  
## 1896 0.34200 -8.677 0.42300 121347 128.981 10 0  
## 1897 0.90900 -6.474 0.75800 210747 93.372 8 1  
## 1901 0.55900 -7.442 0.34200 232959 97.994 0 1  
## 1902 0.68900 -7.878 0.85300 216015 123.931 7 1  
## 1908 0.40700 -7.356 0.34100 246735 115.124 1 0  
## 1909 0.33000 -6.557 0.27700 217213 95.801 7 1  
## 1910 0.34600 -9.309 0.56200 142273 119.957 5 0  
## 1913 0.53800 -8.109 0.17700 345133 141.894 1 1  
## 1918 0.38100 -14.323 0.34300 204991 155.882 7 1  
## 1922 0.45200 -9.638 0.23500 218883 102.963 1 1  
## 1923 0.76900 -4.342 0.38500 191100 170.036 7 1  
## 1929 0.50200 -5.972 0.29600 210200 129.976 0 1  
## 1935 0.26700 -9.249 0.13700 227693 117.640 7 1  
## 1936 0.51800 -6.594 0.87700 177667 151.891 7 0  
## 1937 0.68000 -7.648 0.31900 173800 89.391 6 0  
## 1938 0.56900 -8.151 0.29400 205040 80.015 5 0  
## 1941 0.77700 -4.246 0.70600 231848 102.020 1 1  
## 1942 0.68000 -4.580 0.70700 234347 149.959 6 1  
## 1945 0.65100 -5.515 0.23700 175755 163.935 1 1  
## 1946 0.79800 -5.244 0.38100 191840 142.049 4 1  
## 1947 0.66200 -5.239 0.43400 189487 93.023 9 1  
## 1949 0.58800 -9.573 0.20400 174358 169.033 1 1  
## 1951 0.00148 -31.839 0.00000 160003 0.000 5 1  
## 1953 0.65800 -5.934 0.26800 197547 145.031 1 1  
## 1956 0.88000 -2.384 0.53400 202621 95.079 9 0  
## 1958 0.76800 -5.991 0.48600 213309 123.070 11 1  
## 1960 0.73000 -7.985 0.74000 268434 115.007 0 0  
## 1963 0.72600 -3.998 0.65000 253390 136.048 5 0  
## 1964 0.59300 -4.954 0.17500 228373 134.170 1 1  
## 1969 0.68300 -2.881 0.60300 186987 96.133 1 0  
## 1970 0.86200 -3.240 0.59200 214847 123.994 9 0  
## 1972 0.77000 -5.335 0.16300 184560 125.905 6 1  
## 1973 0.46400 -9.789 0.63800 203267 109.004 5 0  
## 1977 0.44900 -9.211 0.35700 198973 77.169 7 1  
## 1981 0.59400 -6.813 0.15800 169248 171.854 1 0  
## 1986 0.90400 -2.729 0.68100 190947 82.014 5 1  
## 1987 0.55700 -5.714 0.48300 169354 150.073 1 0  
## 1988 0.47900 -7.458 0.28400 209274 88.964 3 1  
## 1991 0.30800 -10.068 0.52000 121887 64.934 11 1  
## 1993 0.79200 -2.749 0.67100 214290 100.015 5 1  
## 1999 0.56600 -7.230 0.21800 239836 83.903 6 0  
## 2000 0.29600 -10.109 0.12000 200186 115.284 4 0

# Generate the training datasets without PCA  
set.seed(111)  
indices.dfnorm <- sample(c(1:dim(df.norm)[1]), dim(df.norm)[1]\*0.6)  
train.dfnorm <- df.norm[indices.dfnorm, ]  
valid.dfnorm <- df.norm[-indices.dfnorm, ]  
train.dfnorm

## acousticness danceability instrumentalness speechiness liveness  
## 1998 -0.722395756 0.047034419 -0.237370286 1.4609068475 -0.671389353  
## 507 0.553807020 0.623925135 -0.239586881 2.1094178302 -0.517694642  
## 1748 -0.881695848 -0.056676272 -0.222061669 0.4840358735 -0.855973688  
## 979 0.654721105 -2.085516655 -0.239595183 -0.7103735946 -0.397149771  
## 175 0.514162200 -0.750241515 -0.239595183 -0.7514185935 -0.525228697  
## 793 1.238581172 -0.095567781 -0.239595183 -0.7325378940 -0.892137149  
## 699 2.049497931 -1.424361003 4.834497310 -0.4887306005 1.508966010  
## 69 0.701574074 0.688744316 -0.239595183 1.8795658363 -0.510160588  
## 1699 1.278225991 0.176672782 2.941674849 -0.6126864972 -0.502626533  
## 1608 0.737614819 1.071177488 -0.239595183 1.9534468344 3.437683954  
## 1818 -0.592288667 0.935057206 -0.239595183 2.5691218180 4.213691564  
## 305 0.979087809 1.200815851 -0.224386188 -0.6923137951 -0.547830860  
## 1069 -0.887462367 1.434164904 -0.239595183 0.5825438709 -0.156060028  
## 586 -0.249901591 1.298044623 -0.239560182 2.1094178302 -0.562898969  
## 996 -0.311170857 -1.275276885 -0.239595183 -0.8113442919 -0.736935627  
## 1903 0.953859288 1.550839431 -0.239510172 0.6974698679 -0.868028175  
## 1928 0.164566975 1.051731733 -0.239595183 -0.6291044968 -0.238934627  
## 1358 -0.130967132 -0.581711643 -0.186064835 -0.4616409012 -0.591528376  
## 1626 1.703506781 0.047034419 -0.239586018 -0.5626115986 -0.487558424  
## 281 -0.863315068 -0.815060696 -0.239595183 -0.0823851114 -0.118389755  
## 1944 -0.329191229 0.468359099 -0.239595183 1.4937428466 -0.457422206  
## 763 -0.044469345 0.131299355 -0.239595183 4.2027127744 -0.329343280  
## 1968 -0.336399378 0.656334725 -0.239358746 -0.8129860919 -0.321809226  
## 625 -0.977960677 -0.568747806 -0.239595183 -0.6726121956 0.100097824  
## 1851 -0.030053047 0.474841017 -0.239595183 -0.7941053924 0.333653513  
## 135 1.984624591 0.487804853 -0.239107034 0.7467238665 -0.404683825  
## 405 -0.995692724 0.312793063 -0.239595183 -0.7842545926 0.333653513  
## 143 0.488933679 -0.030748599 -0.239595183 1.1079198569 -0.374547607  
## 1793 -0.724918608 0.461877181 -0.239451063 -0.2958191057 -0.480024370  
## 649 -0.952696115 1.460092577 -0.239595183 1.8713568366 0.069961607  
## 1855 -0.723837385 -0.439109443 1.978659912 -0.2629831065 -0.532762751  
## 40 -0.929990446 1.058213651 -0.239595183 1.8221028379 -0.871041797  
## 1049 2.456758348 -1.003036323 1.281304269 -0.8023143922 -0.590774970  
## 1992 1.595384546 -1.074337423 -0.239595183 0.4840358735 -0.231400572  
## 1479 -0.846015510 -0.413181771 -0.239595183 -0.2794011061 -0.651800812  
## 180 2.150412017 0.338720736 -0.239316241 1.7318038403 -0.291673008  
## 1124 1.948583846 -0.050194354 -0.213959061 0.2706018792 -0.510160588  
## 1564 -0.834122065 -0.769687269 -0.191510851 -0.7645529932 -0.186196245  
## 1062 -0.800243764 -0.024266681 -0.239595183 0.3526918770 -0.344411389  
## 1978 0.070861039 0.572069789 -0.239534679 -0.4805216007 -0.611116917  
## 701 2.186452762 -1.878095274 -0.157904950 -0.7694783930 -0.397149771  
## 1460 1.577364174 0.986912551 4.973968439 -0.7481349936 -0.502626533  
## 836 0.780863712 0.455395263 -0.220135640 1.4526978477 -0.547830860  
## 1503 1.750359749 -1.378987576 -0.239578645 -0.8047770921 -0.299207062  
## 798 2.132391645 1.012840224 6.142869327 -0.4008943029 -0.619404377  
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## 821 1.656653812 0.818382679 2.124772523 -0.4797007008 -0.276604899  
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## 1592 -0.473354209 0.293347309 -0.239573332 0.3034378784 0.559675147  
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## 864 -0.944767151 0.999876388 -0.239595183 -0.1480571096 -0.419751934  
## 1397 -0.260713814 0.896165697 -0.234627354 1.3131448514 0.537072984  
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## 316 -0.998669689 1.434164904 -0.239587479 1.8877748361 2.104156313  
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## 1965 -0.938640225 -0.439109443 -0.239595183 2.7415108134 -0.382081662  
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## 283 -0.383252346 -0.380772180 -0.239595183 2.1012088304 -0.178662191  
## 1966 1.188124129 0.850792270 -0.239595183 -0.5880594979 3.377411518  
## 497 -0.494978656 0.189636618 -0.239595183 -0.1808931087 -0.966724288  
## 1450 0.564619243 0.435949508 -0.239573000 -0.6036565975 -0.457422206  
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## 900 -0.781862985 1.959200275 1.221530928 -0.5059695001 -0.931314232  
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## 1094 0.160962901 0.247973882 -0.239595183 -0.7169407944 -0.669882542  
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## 932 -0.892147664 -0.315952998 -0.239595183 -0.7965680923 -0.517694642  
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## 1828 -0.683832159 1.576767104 -0.239577915 0.4511998744 -0.517694642  
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## 1794 -0.563456071 0.235010045 -0.239548161 -0.5125366999 -0.540296805  
## 1967 2.024269410 0.118335518 -0.239378670 -0.8014934922 -0.575706861  
## 1570 -0.303962708 0.137781273 -0.239595183 -0.2490278069 -0.269070845  
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## 521 -0.997383035 -0.024266681 1.832547301 -0.7867172926 -0.601322647  
## 1976 1.808024941 0.228528127 -0.233000191 -0.2441024070 -0.284138954  
## 1719 -0.318379006 0.461877181 -0.239595183 0.0900038841 -0.374547607  
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## 687 2.420717603 -0.458555198 -0.239508179 -0.4665663011 0.145302151  
## 1914 -0.940081855 1.609176695 -0.155912506 -0.0495491122 -0.532762751  
## 67 0.878173724 -0.095567781 -0.239595183 1.9206108352 0.506936766  
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## 155 1.069189671 1.349899968 -0.239583295 -0.5429099991 -0.851453255  
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## 451 2.557672434 -2.163299673 5.936983376 -0.7867172926 0.265847023  
## 923 -0.854304882 0.494286771 -0.239576786 0.5497078718 0.589811365  
## 895 0.078069188 1.084141324 -0.239595183 0.1146308834 -0.745976492  
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## 299 0.690761850 -0.270579571 -0.239510172 0.6482158692 0.077495661  
## 718 -0.945487966 -0.108531617 -0.239595183 -0.7489558936 -0.800975090  
## 1984 0.193399571 0.105371682 -0.239595183 -0.7308960941 -0.299207062  
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## 696 -0.868721180 0.040552500 -0.239559651 -0.4591782013 0.348721622  
## 128 -0.998547151 -2.558696681 -0.239595183 -0.7620902932 3.271934756  
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## 1127 -0.585080518 0.701708153 -0.239595183 4.2683847727 -0.639746324  
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## 1957 1.707110855 -1.054891668 -0.239595183 -0.7973889923 -0.525228697  
## 453 -0.754832426 1.537875595 -0.239595183 2.3310608243 2.721948780  
## 1214 -0.066093792 -1.100265095 -0.239587545 -0.8277622915 -0.495092479  
## 1235 -0.871604439 0.766527334 -0.239595183 1.7400128401 -0.852960066  
## 127 -0.343607527 0.818382679 -0.239548294 0.1064218836 1.230205995  
## 1308 -0.662207712 0.818382679 -0.239595183 0.6810518683 1.373353030  
## 1989 1.004316331 0.623925135 -0.239595183 -0.6767166955 -0.786660387  
## 1264 1.779192345 -0.302989162 -0.239595183 -0.7916426924 -0.706799409  
## 1075 1.271017842 0.377612245 -0.237894963 -0.6890301952 -0.344411389  
## 554 1.941375697 0.747081580 5.757663353 -0.6036565975 -0.502626533  
## 990 -0.882416663 0.397057999 -0.239571605 -0.7612693933 -0.916246123  
## 219 0.885381873 -0.601157397 -0.239231230 -0.7300751941 -0.201264354  
## 859 0.182587348 -0.212242308 -0.239595183 -0.8294040914 0.484334602  
## 1980 1.512490833 -0.717831924 -0.239595183 -0.7620902932 -0.703785787  
## 834 -0.889624812 -0.309471080 -0.239595183 1.4937428466 1.516500065  
## 1244 -0.992953627 1.777706567 -0.239595183 0.1228398832 -0.736182222  
## 1707 0.215024018 0.850792270 -0.239595183 -0.5051486001 -0.575706861  
## 1995 -0.069697866 0.494286771 -0.214888869 0.1310488830 -0.389615716  
## 510 -0.725279015 1.181370096 -0.239595183 1.6989678412 -0.698511949  
## 216 -0.745101425 1.246189278 -0.239586350 0.5414988720 -0.569679618  
## 1334 -0.228277144 0.014624828 -0.239595183 -0.7916426924 -0.578720483  
## 1186 -0.997087501 -1.067855504 0.663646413 -0.1070121107 -0.660088272  
## 311 -0.862233846 -0.970626732 -0.239531757 -0.5429099991 -0.540296805  
## 1649 -0.213860846 0.474841017 -0.239595183 -0.6972391950 1.064456796  
## 588 -0.799522950 0.196118536 -0.220334884 2.8974818092 2.804823379  
## 1930 1.368327854 -0.212242308 -0.239595183 -0.8318667914 -0.487558424  
## 1154 -0.914853333 0.468359099 -0.239595183 0.0325408856 -0.178662191  
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## 1789 1.184520055 -0.730795760 -0.239394610 -0.2506696069 -0.487558424  
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## 546 -0.734649609 -0.490964788 5.173212909 -0.7538812935 -0.351945444  
## 1032 -0.972302280 -1.398433330 -0.239595183 -0.7973889923 -0.434820043  
## 520 2.157620166 0.345202654 -0.234985994 -0.7571648934 -0.686457462  
## 1962 -0.383252346 0.578551708 -0.239595183 -0.6906719951 -0.472490315  
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## 369 0.182587348 1.025804060 -0.239595183 2.6265848164 -0.397149771  
## 791 -0.998655273 -1.430842921 -0.189186332 -0.7949262924 -0.712073247  
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## 1236 1.934167548 -0.957662896 -0.239565296 0.9847848602 -0.566665996  
## 1652 1.779192345 -1.541035530 -0.239542848 -0.6291044968 1.652113045  
## 1852 0.406039966 0.429467590 -0.239595183 -0.6890301952 0.288449186  
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## 764 1.379140077 0.312793063 -0.239552544 0.5907528707 -0.555364914  
## 1256 -0.998020956 0.202600454 -0.224319773 -0.6668658958 1.433625465  
## 303 0.463705158 0.552624035 -0.239595183 0.8206048646 0.913775707  
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## 26 -0.807451913 0.760045416 -0.239595183 1.2474728532 1.554170337  
## 1859 0.618680361 -1.016000159 -0.239595183 -0.8408966911 -0.208798409  
## 1990 1.004316331 1.667513958 -0.212763594 -0.3992525029 -0.547830860  
## 1500 0.261876986 -1.929950619 -0.239595183 -0.7875381926 -0.223866518  
## 346 -0.217464920 1.032285979 -0.239595183 2.3556878236 -0.798714874  
## 455 1.058377448 0.345202654 -0.239535476 -0.1152211105 -0.547830860  
## 963 -0.864035883 0.500768690 -0.239595183 -0.1398481098 3.068515285  
## 1925 -0.433709389 1.155442424 -0.239563171 0.8123958648 -0.832618119  
## 962 1.022336703 0.416503754 -0.239580439 -0.7604484933 -0.886109906  
## 1687 -0.174216026 -0.542820134 -0.239595183 -0.1891021085 -0.495092479  
## 559 0.582639616 -1.378987576 -0.239595183 -0.5880594979 2.284973620  
## 854 0.438476636 0.559105953 -0.239595183 -0.8031352921 -0.999120723  
## 931 0.586243690 -0.931735223 -0.239595183 2.7333018136 0.077495661  
## 1884 -0.967004291 0.526696362 2.848694096 -0.4238795022 0.921309761  
## 456 0.741218893 -0.160386962 -0.239580439 -0.6660449958 0.333653513  
## 526 -0.163403803 0.636888971 -0.239587811 -0.1644751092 -0.464956261  
## 144 -0.376044198 0.085925928 -0.239595183 -0.7965680923 -0.994600290  
## 272 -0.987835841 -1.482698267 -0.239574594 -0.6397761965 1.335682757  
## 1332 1.198936353 0.636888971 -0.239595183 -0.3483567043 2.179496858  
## 1750 0.640304807 -4.302332665 2.470129604 -1.0592560853 -0.480024370  
## 274 -0.073301941 0.144263191 -0.220932617 -0.2646249065 -0.653307623  
## 1808 -0.145383430 0.040552500 -0.239595183 -0.7366423939 2.187030912  
## 823 1.847669760 -3.524502486 5.664682600 -0.7448513937 -0.472490315  
## 1002 -0.397668644 -2.487395581 -0.239595183 -0.1480571096 -0.269070845  
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## 732 0.020403996 -0.030748599 -0.102116499 -0.5617906986 0.130234042  
## 1870 0.247460689 -0.166868881 -0.239595183 -0.7826127927 -0.525228697  
## 440 -0.976915496 -1.729011157 -0.239595183 -0.5347009993 0.476800548  
## 1208 -0.667253416 0.286865390 -0.239595183 0.6646338687 -0.908712069  
## 1029 0.456497009 0.306311145 -0.239595183 -0.7949262924 -0.397149771  
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## 81 -0.491374581 0.228528127 -0.239595183 0.9026948624 0.732958400  
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## 256 -0.749426314 0.371130327 -0.239595183 -0.5453726990 -0.449888152  
## 1301 2.319803518 -0.089085863 -0.239595183 -0.6332089967 -0.359479498  
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## 551 1.447617492 -0.140941208 -0.239595183 -0.8203741917 -0.574953456  
## 1911 -0.710502310 0.727635825 -0.239595183 0.9683668606 -0.118389755  
## 1282 1.955791995 0.111853600 -0.239595183 -0.7809709927 0.830901108  
## 1771 -0.174216026 0.059998255 -0.236420554 -0.6520896962 0.085029715  
## 1848 -0.419293091 -0.983590568 -0.239595183 0.0161228860 -0.810015955  
## 642 1.501678610 -0.283543407 -0.239595183 -0.6783584955 -0.419751934  
## 498 0.319542178 1.058213651 -0.239512164 -0.5494771989 -0.615637350  
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## 1959 -0.692481937 1.511947922 -0.239595183 1.3377718508 2.706880671  
## 617 -0.847096733 -0.432627525 -0.239595183 -0.6323880967 3.068515285  
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## 604 1.588176397 -1.404915249 -0.131339021 -0.8294040914 -0.525228697  
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## 1356 -0.750147129 1.557321349 -0.239595183 1.5676238447 1.237740049  
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## 1095 -0.242693442 0.533178280 0.001490625 -0.4222377023 0.378857840  
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## 384 -0.646349784 -1.346577985 -0.239595183 2.7086748142 -0.449888152  
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## 1315 0.633096659 1.563803267 -0.237702360 -0.5158202998 -0.336877335  
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## 115 2.218889432 -0.315952998 -0.239541652 -0.8277622915 -0.359479498  
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## 806 0.838528904 0.474841017 -0.201605904 -0.3352223046 -0.502626533  
## 1886 2.409905380 1.077659406 -0.239461025 -0.7448513937 1.411023302  
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## 750 -0.379648272 -0.465037116 -0.239595183 0.3691098766 -0.517694642  
## 1950 0.968275586 0.559105953 -0.239595183 -0.1973111083 -0.480024370  
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## 1272 -0.876289736 0.604479380 -0.239205328 0.4594088742 -0.291673008  
## 228 -0.999352661 -1.281758804 -0.239595183 -0.2580577067 0.446664330  
## energy loudness valence duration\_ms tempo  
## 1998 -0.3366504046 -0.0107399042 -1.1192634794 -0.7377880943 1.328558556  
## 507 -0.7826109619 -0.5054579268 0.9421645301 0.2815365583 0.741029519  
## 1748 0.6916821746 0.4780415021 -0.5644371223 2.0202315996 0.136670653  
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## 175 -0.5045414379 -0.3677849685 -1.5026800675 0.8319166116 -0.386799637  
## 793 -0.3366504046 0.6482245019 2.3134426808 -0.4451198374 0.764709848  
## 699 -1.7479844036 -3.4214673001 -0.7313361078 -2.3093757009 -0.315791587  
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## 1699 -1.5066410432 -2.3924538131 0.7617331945 -1.0269156792 0.272659631  
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## 305 -2.1152460390 -0.6897757273 -1.1192634794 -0.0202392072 -0.253445466  
## 1069 -0.2631980775 0.2402941552 -0.0953156497 -0.1202785387 -0.745133396  
## 586 0.4660785985 0.1294773182 -0.8260625590 1.3552402010 -0.218633078  
## 996 0.5657638996 0.6193895086 -0.7719331583 0.2527609241 0.342218537  
## 1903 0.4293524350 1.0581337206 -0.0411862490 4.4217690769 -0.828096883  
## 1928 0.9435187246 0.8396097026 1.3977536525 0.7435635442 0.172866315  
## 1358 0.7389015277 1.2695903383 1.4338399196 1.0977740002 -0.778167289  
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## 281 0.0620907996 0.5017879672 0.9286321799 -1.1317031949 -2.705726255  
## 1944 0.4031194610 0.1373928065 1.7766594573 -0.6522593778 0.276051946  
## 763 0.0778305839 0.1617046637 -0.3975381369 0.0263830507 -1.214787752  
## 1968 -0.3681299734 0.8070996611 -0.2577038518 0.3159608945 -0.548774401  
## 625 1.4629316090 0.5357114887 0.4865754076 0.5839263132 -0.217645025  
## 1851 0.8071072600 0.6699920949 -0.0186323321 -0.1927088157 -0.517321392  
## 135 -0.0953070442 -0.2603604836 0.3647842561 -2.4858771727 -1.948976736  
## 405 0.7231617433 0.7443411463 1.9164937424 -0.2246362619 -0.119696073  
## 143 0.4136126506 -0.0718022430 0.0039215849 -0.4826550530 0.600001472  
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## 1855 -0.2159787244 -0.8735281357 -1.5297447679 0.5618226966 -0.780604486  
## 40 0.1565295058 0.2795889010 -0.4065597037 3.0926253984 0.337179469  
## 1049 -1.4856546640 -0.9710582601 -1.3538242157 0.1388454333 0.521154871  
## 1992 -1.8791492734 -2.6440532646 -1.6312373942 -0.4664048016 -0.090021559  
## 1479 1.9246319507 1.5211897898 0.2339715378 0.7205798762 -0.388215846  
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## 1124 -1.3807227682 -0.4475052442 -0.4606891044 0.9875219792 -0.085410646  
## 1564 -0.3996095421 -0.4220626030 -1.5162124177 1.6096978539 -0.052903714  
## 1062 0.9540119142 0.6394609255 0.8293949453 -0.9051411248 1.165431064  
## 1978 -0.5517607911 0.0390145940 0.3692950395 -0.0042550178 0.473958890  
## 701 -1.6640388869 -2.1928704279 -0.1765097508 0.2248039423 -1.366190352  
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## 798 -1.6378059130 -2.2632617352 0.7617331945 -0.3888579467 -0.548774401  
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## 821 -1.1393794078 -2.7364948608 -1.1327958295 -1.6104716238 -0.648567718  
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## 1478 0.5395309256 0.6306973491 1.2940056345 0.6933596816 1.925474092  
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## 1116 -1.0764202703 -1.0801789211 0.4730430575 0.0659444312 -0.384494181  
## 874 -0.6147199286 -0.1910999605 -1.4801261506 -0.5639063104 -0.877894736  
## 1234 -1.0764202703 -0.3799408971 0.5497263751 -0.0959031615 1.761128003  
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## 1592 0.9330255350 0.7321852177 1.1631929162 0.0528869243 1.724339509  
## 61 0.6811889850 0.4240465636 -0.1810205341 -0.3089369996 0.077288689  
## 1917 0.2089954537 0.6338070052 0.4549999239 0.6204996121 -0.814362951  
## 1115 1.2530678173 -0.1337126698 0.9692292304 -0.5115534851 -0.910961564  
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## 988 0.8280936392 0.4851089024 0.2655470215 -0.0007552785 0.734903593  
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## 1908 0.715990372 -0.516892461 -0.23959518 -0.6816420954 0.039825389  
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## 1953 -0.915574148 -0.400217934 -0.23919669 -0.6011938975 0.469266493  
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## 1972 -0.365231974 0.196118536 -0.23952213 0.1638848821 -0.427285988  
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## 1977 -0.879893811 0.585033626 -0.23904460 -0.1644751092 2.842493651  
## 1981 -0.773934021 0.053516337 -0.23925381 -0.4115660026 -0.171128137  
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## 1988 0.961067437 -0.964144814 -0.19987912 -0.8450011910 0.122699988  
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## energy loudness valence duration\_ms tempo  
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## 3 0.1985022642 -1.129650723 2.1555652621 -1.675820557 1.6968716458  
## 6 -0.7039120400 -0.348844336 -0.4246028372 -0.662349269 -0.7193452219  
## 11 -0.3838697577 0.520445904 0.8654812124 1.018364711 -1.3860831452  
## 15 0.9854914829 0.736142962 -1.2951840316 -0.212438340 -0.9112909153  
## 16 0.0620907996 0.641157102 0.2790793717 -0.144838113 1.2471430179  
## 17 -2.0103141432 -1.784374689 -0.9252997936 2.414699291 0.6352749513  
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## 103 -0.2264719140 -0.355911736 0.3196764222 0.794053935 -1.5021793307  
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## 113 -1.1970919505 0.126367662 -1.5793633852 0.734292305 -1.0430312676  
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## 1588 0.46677634 0.7926854 71  
## 1589 -1.21126922 0.7926854 71  
## 1590 0.46677634 0.7926854 71  
## 1591 -1.49094348 0.7926854 71  
## 1594 -1.21126922 0.7926854 71  
## 1596 1.58547338 0.7926854 71  
## 1600 0.46677634 0.7926854 72  
## 1601 0.46677634 0.7926854 72  
## 1602 0.74645060 0.7926854 72  
## 1604 -1.21126922 0.7926854 72  
## 1605 -1.21126922 0.7926854 72  
## 1609 -0.93159496 -1.2609037 72  
## 1610 -0.93159496 0.7926854 72  
## 1613 1.58547338 -1.2609037 72  
## 1614 0.74645060 0.7926854 72  
## 1615 0.46677634 0.7926854 72  
## 1617 -0.09257218 0.7926854 72  
## 1619 0.74645060 0.7926854 72  
## 1621 -1.49094348 0.7926854 72  
## 1628 0.46677634 0.7926854 72  
## 1630 1.58547338 0.7926854 72  
## 1631 1.30579912 0.7926854 72  
## 1633 -1.21126922 -1.2609037 72  
## 1638 -0.65192070 -1.2609037 72  
## 1643 -0.93159496 0.7926854 72  
## 1644 1.30579912 -1.2609037 72  
## 1645 -0.37224644 -1.2609037 72  
## 1648 1.30579912 0.7926854 72  
## 1657 -1.49094348 0.7926854 72  
## 1658 -0.93159496 0.7926854 72  
## 1659 -0.09257218 -1.2609037 72  
## 1660 1.58547338 -1.2609037 72  
## 1662 1.30579912 0.7926854 72  
## 1666 -0.37224644 -1.2609037 72  
## 1668 -1.49094348 0.7926854 72  
## 1670 1.30579912 -1.2609037 72  
## 1673 0.18710208 0.7926854 73  
## 1676 0.18710208 0.7926854 73  
## 1678 -0.09257218 0.7926854 73  
## 1680 -1.21126922 -1.2609037 73  
## 1681 0.46677634 0.7926854 73  
## 1682 0.46677634 0.7926854 73  
## 1684 0.18710208 0.7926854 73  
## 1685 -0.09257218 -1.2609037 73  
## 1688 -0.93159496 0.7926854 73  
## 1690 -1.49094348 -1.2609037 73  
## 1691 -1.49094348 -1.2609037 73  
## 1692 1.02612486 0.7926854 73  
## 1694 1.30579912 0.7926854 73  
## 1695 1.30579912 -1.2609037 73  
## 1696 -1.21126922 0.7926854 73  
## 1698 -1.21126922 0.7926854 73  
## 1700 -1.49094348 0.7926854 73  
## 1701 -1.49094348 0.7926854 73  
## 1702 1.30579912 -1.2609037 73  
## 1705 -1.49094348 0.7926854 73  
## 1708 -0.93159496 -1.2609037 73  
## 1709 -1.21126922 -1.2609037 73  
## 1710 -0.09257218 0.7926854 73  
## 1714 -0.09257218 -1.2609037 73  
## 1717 0.74645060 0.7926854 73  
## 1718 1.02612486 -1.2609037 73  
## 1720 0.18710208 -1.2609037 73  
## 1727 -0.37224644 0.7926854 74  
## 1728 0.74645060 0.7926854 74  
## 1732 1.58547338 0.7926854 74  
## 1735 -0.09257218 0.7926854 74  
## 1741 -0.93159496 0.7926854 74  
## 1742 -0.09257218 -1.2609037 74  
## 1743 1.58547338 -1.2609037 74  
## 1746 0.74645060 0.7926854 74  
## 1749 -0.37224644 0.7926854 74  
## 1751 0.18710208 -1.2609037 74  
## 1752 0.74645060 0.7926854 74  
## 1755 0.46677634 -1.2609037 74  
## 1762 0.74645060 0.7926854 74  
## 1764 0.46677634 0.7926854 74  
## 1765 -1.49094348 -1.2609037 74  
## 1767 -0.93159496 0.7926854 74  
## 1769 -0.93159496 -1.2609037 74  
## 1770 -1.49094348 -1.2609037 74  
## 1774 0.74645060 0.7926854 75  
## 1775 0.46677634 0.7926854 75  
## 1776 1.30579912 -1.2609037 75  
## 1780 1.30579912 -1.2609037 75  
## 1785 1.58547338 0.7926854 75  
## 1786 -0.93159496 0.7926854 75  
## 1795 -0.93159496 0.7926854 75  
## 1798 -0.65192070 -1.2609037 75  
## 1800 -1.49094348 0.7926854 75  
## 1801 0.46677634 -1.2609037 75  
## 1802 1.30579912 -1.2609037 75  
## 1803 1.30579912 0.7926854 75  
## 1804 -0.09257218 -1.2609037 75  
## 1809 -1.21126922 -1.2609037 75  
## 1812 0.74645060 -1.2609037 75  
## 1813 -0.65192070 -1.2609037 75  
## 1815 0.18710208 -1.2609037 76  
## 1817 0.18710208 -1.2609037 76  
## 1820 -0.65192070 -1.2609037 76  
## 1822 1.58547338 -1.2609037 76  
## 1827 0.18710208 -1.2609037 76  
## 1829 0.18710208 0.7926854 76  
## 1830 1.58547338 -1.2609037 76  
## 1834 -0.09257218 0.7926854 76  
## 1835 0.46677634 0.7926854 76  
## 1837 0.74645060 0.7926854 76  
## 1839 -0.93159496 -1.2609037 76  
## 1840 1.02612486 -1.2609037 76  
## 1842 -1.21126922 0.7926854 76  
## 1843 0.74645060 0.7926854 76  
## 1844 0.74645060 0.7926854 76  
## 1845 -1.21126922 0.7926854 76  
## 1846 -1.49094348 0.7926854 76  
## 1850 -0.93159496 0.7926854 76  
## 1853 1.58547338 0.7926854 77  
## 1858 -0.37224644 0.7926854 77  
## 1860 0.18710208 0.7926854 77  
## 1862 -0.37224644 0.7926854 77  
## 1863 0.18710208 0.7926854 77  
## 1869 1.30579912 -1.2609037 77  
## 1872 -0.37224644 -1.2609037 77  
## 1874 1.58547338 0.7926854 77  
## 1875 0.74645060 0.7926854 77  
## 1879 1.02612486 0.7926854 77  
## 1880 0.18710208 -1.2609037 77  
## 1885 0.46677634 0.7926854 77  
## 1887 -1.21126922 0.7926854 77  
## 1891 1.30579912 -1.2609037 78  
## 1893 0.74645060 -1.2609037 78  
## 1894 0.18710208 -1.2609037 78  
## 1896 1.30579912 -1.2609037 78  
## 1897 0.74645060 0.7926854 78  
## 1901 -1.49094348 0.7926854 78  
## 1902 0.46677634 0.7926854 78  
## 1908 -1.21126922 -1.2609037 78  
## 1909 0.46677634 0.7926854 78  
## 1910 -0.09257218 -1.2609037 79  
## 1913 -1.21126922 0.7926854 79  
## 1918 0.46677634 0.7926854 79  
## 1922 -1.21126922 0.7926854 79  
## 1923 0.46677634 0.7926854 79  
## 1929 -1.49094348 0.7926854 79  
## 1935 0.46677634 0.7926854 80  
## 1936 0.46677634 -1.2609037 80  
## 1937 0.18710208 -1.2609037 80  
## 1938 -0.09257218 -1.2609037 80  
## 1941 -1.21126922 0.7926854 80  
## 1942 0.18710208 0.7926854 81  
## 1945 -1.21126922 0.7926854 81  
## 1946 -0.37224644 0.7926854 81  
## 1947 1.02612486 0.7926854 81  
## 1949 -1.21126922 0.7926854 81  
## 1951 -0.09257218 0.7926854 81  
## 1953 -1.21126922 0.7926854 81  
## 1956 1.02612486 -1.2609037 81  
## 1958 1.58547338 0.7926854 81  
## 1960 -1.49094348 -1.2609037 82  
## 1963 -0.09257218 -1.2609037 82  
## 1964 -1.21126922 0.7926854 82  
## 1969 -1.21126922 -1.2609037 82  
## 1970 1.02612486 -1.2609037 82  
## 1972 0.18710208 0.7926854 82  
## 1973 -0.09257218 -1.2609037 83  
## 1977 0.46677634 0.7926854 83  
## 1981 -1.21126922 -1.2609037 83  
## 1986 -0.09257218 0.7926854 84  
## 1987 -1.21126922 -1.2609037 84  
## 1988 -0.65192070 0.7926854 85  
## 1991 1.58547338 0.7926854 85  
## 1993 -0.09257218 0.7926854 85  
## 1999 0.18710208 -1.2609037 89  
## 2000 -0.37224644 -1.2609037 89

# Generate training and validation data with PCA  
set.seed(111)  
indices.pc <- sample(c(1:dim(pc)[1]), dim(pc)[1]\*0.6)  
train.pc <-pc[indices.pc, ]  
valid.pc <-pc[-indices.pc, ]  
train.pc

## PC1 PC2 PC3 PC4 popularity  
## 1998 0.0698614112 0.390633030 1.5395747682 0.4099968219 87  
## 507 -0.0415078182 1.567915800 0.4792940484 0.1766895193 62  
## 1748 0.5953354157 -1.259199784 0.8119024726 -0.6790153216 74  
## 979 -1.1942488970 -1.151320062 -0.2473496808 0.3179434050 65  
## 175 -0.8038305295 -1.211601690 -0.9540510412 -0.1592566283 59  
## 793 0.2065621284 0.594945124 -0.2007525408 -1.0573262441 64  
## 699 -3.4277891232 1.299426564 -0.8827969329 2.5828715869 63  
## 69 -0.3804883148 1.211293624 1.5765652550 -0.3670435640 58  
## 1699 -2.0417762760 1.084111229 -0.0190874687 -0.1959764991 73  
## 1608 0.2011370663 1.534936199 0.4974035823 2.5229644443 72  
## 1818 0.7466422638 2.180538780 0.4647197060 3.9774902422 76  
## 305 -1.2516621346 0.327058018 -0.1452293814 -1.0174422575 60  
## 1069 0.3575979232 0.614271227 1.0459815523 -1.0086624625 66  
## 586 0.5295552403 0.823173118 -0.9844820420 0.3426877908 62  
## 996 0.1381451034 -1.518743022 0.1993159842 -0.2969473137 66  
## 1903 0.6471051773 -0.648906489 -2.6398804887 -0.8331431550 78  
## 1928 1.0158693450 0.327914619 -1.8167565802 -0.3995601700 79  
## 1358 0.7438143596 -1.059017297 0.7369177182 -1.5723105691 69  
## 1626 -1.3874898143 0.444479695 -0.6939780590 -0.0485596217 72  
## 281 0.1344373800 0.001182430 0.6966710230 -1.5128081135 60  
## 1944 0.7490387714 1.347898575 -0.0206213343 -0.1817654763 81  
## 763 0.1594064191 1.389725392 1.6051890694 0.1384922607 64  
## 1968 0.1689765906 -0.532755332 0.6991331571 -1.3126622969 82  
## 625 0.8945673421 -1.086531635 -0.1917245204 -0.1713216567 63  
## 1851 0.4671020446 -0.311639803 -0.4124747190 -0.3726937352 76  
## 135 -0.7790343796 1.739404551 0.0955105572 -1.1861779143 59  
## 405 1.0792077101 0.002052716 -0.0022727909 -0.6232736059 61  
## 143 0.1020898407 0.544625872 -0.0492554487 0.3702864883 59  
## 1793 0.2905942919 -0.681039142 0.6298118098 -0.9172240056 75  
## 649 -0.2110154613 1.844267062 -0.5593295692 1.2058545779 63  
## 1855 -0.8971046247 -0.571410195 -0.2016674175 0.1248332363 77  
## 40 0.8044850539 -0.078759933 -0.9221607053 0.1109044687 57  
## 1049 -2.0638531157 -0.653316664 -0.5696253607 0.2034010904 66  
## 1992 -2.2289198075 0.419977936 -0.0409971892 0.7832625605 85  
## 1479 1.2632269803 -1.228760598 0.2229278597 -0.8682261739 70  
## 180 -0.9724260646 2.223914722 0.2219931890 0.3767525479 59  
## 1124 -1.1352244504 -0.130706550 -0.3662701280 -0.4360832949 67  
## 1564 -0.3296523139 -1.480043025 -0.3149042230 0.2457565906 71  
## 1062 0.9520170668 0.196159932 1.2823325039 -0.1203404348 66  
## 1978 -0.0228177949 0.079874962 0.1928520141 -0.8197483000 83  
## 701 -2.2819733626 -0.667957646 -0.3374442814 -0.6313785444 63  
## 1460 -3.2551874259 2.467903727 0.6194078107 -0.7595918463 70  
## 836 -0.1515922746 1.329772335 0.4249134872 1.0034518897 64  
## 1503 -1.2850824473 -1.630294880 -0.5071105351 -0.3212049553 70  
## 798 -2.7218066495 1.804731852 -1.0912413774 -0.0873192953 64  
## 197 0.9765319431 0.795144418 1.3567740000 -0.6902232144 59  
## 821 -2.2943872828 1.489924994 -0.4045388664 0.0600779147 64  
## 421 0.6248855757 -1.570168678 -0.5913355640 0.2581240939 61  
## 1478 1.1139204984 0.008577663 -1.3680872418 0.4659692967 70  
## 100 0.3439542967 0.209447770 0.6022624980 -0.0701678703 58  
## 1344 -1.2691935005 -0.205676084 -0.1962092885 1.3919213668 69  
## 1833 0.6395488965 0.020804216 -0.0417253654 0.9857251821 76  
## 1116 -0.6379712596 1.592754135 -0.1122666915 -0.5903452050 67  
## 874 -0.2765179509 0.158951174 -1.1131317751 0.1409454558 65  
## 1234 -0.9590668899 -0.670778674 -0.2550209381 0.5484479805 68  
## 186 0.7900261671 0.771955908 -1.8566137332 -0.3386226467 59  
## 1592 1.1343720200 0.082588751 0.6425276707 0.6803801135 71  
## 61 0.4273048116 -0.613599136 0.3150320859 -0.0819918687 58  
## 1917 0.5046860143 -0.529172213 -0.4271525374 -1.1705835429 79  
## 1115 0.3416523343 -0.261922079 -0.4078407894 -0.7764353499 67  
## 605 0.2293590646 0.316767589 -0.4909884106 0.4744820672 63  
## 855 0.3799097493 -0.720148992 0.3110378544 -1.0169970850 65  
## 864 -0.6082761581 0.361336109 0.9989221277 -1.3453468613 65  
## 1397 -0.0861798780 0.691227334 -1.6367080215 1.0076008015 69  
## 1517 -0.1618161362 0.894398625 -0.4658299319 -0.0753117780 71  
## 769 -2.1498691682 -1.048071302 -0.2938698733 0.1505231822 64  
## 1276 1.0248795889 0.949885840 1.3855894902 -0.1795432141 68  
## 170 0.3630140535 0.003748123 1.3756115821 -0.6810546805 59  
## 592 0.6510237295 1.387523541 0.4972717207 0.7956765158 62  
## 1066 0.5484257520 -0.052549077 -1.8465615341 -0.0218626800 66  
## 1447 1.2375608567 0.115085803 0.3697348027 -0.4076714422 70  
## 388 0.5691150740 -0.940988913 -0.3418932193 -0.3880987901 61  
## 308 -2.1721933280 -1.686402660 -0.9987851367 -0.3797353145 60  
## 1137 0.4195830459 -0.901743549 1.0534523346 -0.6870671673 67  
## 985 0.6031559361 0.298668603 1.4506208201 2.6560515621 66  
## 91 1.1448479476 -0.498607287 1.3231207757 0.0485792508 58  
## 310 -0.1975901916 2.856552822 0.6846693926 0.7268266722 60  
## 1711 0.8344319688 0.720302316 -1.8785435601 -1.0460302874 73  
## 408 -0.2709825869 0.319682894 -0.6133093960 0.8840614350 61  
## 400 0.1654642448 1.443428220 0.3777729458 -0.4599251922 61  
## 1661 0.2868219248 -0.735424144 -0.0138893020 -0.8384850568 72  
## 1581 0.9897039006 1.145036351 -0.7153922360 1.5266158476 71  
## 1871 0.5407852714 0.065853009 -0.1229057507 1.2924194245 77  
## 1051 0.3917994514 -0.682594876 -1.7855623452 0.7936697351 66  
## 1373 0.4162396629 -0.875991675 1.1527885053 0.1170820842 69  
## 1146 0.8354790250 0.993571519 1.4101792103 -1.0412507000 67  
## 728 -0.2388894205 1.589529882 -0.8516718897 -0.5698508079 63  
## 606 -0.5226808417 -0.549671330 -0.1763882095 -0.3205251720 63  
## 316 0.1271784650 1.436287928 2.1406302836 0.7547304587 60  
## 1082 -1.1083839908 0.497724602 -0.2457073232 -0.6510237456 66  
## 1409 1.3026754564 -0.988998634 0.5703790514 1.2742371071 70  
## 797 1.4662274474 0.683768232 -1.1954217702 0.3577761246 64  
## 1625 0.2224977934 -1.022834884 1.3037890616 0.1233219216 72  
## 1514 1.5037713077 0.316784623 1.6380604797 -0.5979385131 71  
## 410 0.1620232305 0.052320844 0.9605305532 -0.9025490961 61  
## 786 0.3229123838 0.218607379 -1.0714007895 -0.5908783889 64  
## 885 0.8338191390 0.508121052 -1.1965497536 0.2493520873 65  
## 736 -0.6746037600 -0.931231391 0.3663545929 -0.2233056944 64  
## 147 -0.1869936640 0.219763585 1.0582329679 -0.5160379506 59  
## 1313 -0.4285879434 2.439063049 0.2383245291 0.0675159975 69  
## 473 0.9881804063 1.322327264 1.2777627205 -1.4977838813 62  
## 795 1.2151393083 0.906888289 0.5060386818 -0.7072680122 64  
## 988 0.6080424620 -0.958106957 -0.0544130030 -0.1658466617 66  
## 1948 0.6739351726 -1.145689970 -0.2624116939 -1.3514474884 81  
## 459 -0.8434645234 0.171371309 -1.0084645955 -1.0994284007 61  
## 1823 0.6990414109 1.416853189 -0.0879058528 -0.2421966436 76  
## 716 1.1143794327 0.331863014 1.2372581515 2.5229548956 63  
## 351 0.4755385167 2.783809957 0.9360861627 0.5547177398 61  
## 1542 -2.0006292120 1.846254446 0.9139025526 1.8147941681 71  
## 1772 0.8343849721 -1.276631424 0.8884374393 -0.3707280986 75  
## 95 0.2364793995 -0.963190661 -0.1439216392 1.1886725777 58  
## 1158 0.1072356302 -0.343225317 -1.0604688760 0.7391582132 67  
## 658 -0.0642914397 -0.588422025 -0.6005182339 0.0671339821 63  
## 713 0.1694779012 -0.918792483 1.2324731353 -0.2195742984 63  
## 1612 0.0998005083 0.477928974 0.8960193129 -2.1423032728 72  
## 530 -0.3412784089 0.114536212 -0.1450509266 -0.8484398798 62  
## 1606 0.0189855392 0.321006496 -0.4937965854 -0.6660427287 72  
## 1293 -1.3347429739 -1.074623532 -0.2935916127 -0.9759617331 68  
## 564 -1.9136262552 0.370094369 1.3916579686 -0.6759658758 62  
## 1965 0.8403820972 0.538902051 -0.9289078408 1.5376284199 82  
## 645 -0.6138786137 0.477419310 0.7565406248 -1.1822770187 63  
## 415 0.2755122702 -0.586521808 0.5976750631 -1.3679687364 61  
## 1734 0.1160503012 0.668326159 -1.5545983578 -0.5903374735 74  
## 1144 0.0927077031 -0.154706929 0.6061648232 -0.9673214862 67  
## 534 -0.7691530488 1.185127657 0.9705965066 -1.0739481364 62  
## 508 0.3334289692 0.433134271 -0.3089866774 0.4460324534 62  
## 1532 0.0368318619 1.219061125 -1.1922454843 -0.6328211528 71  
## 1889 0.6528137093 -0.354286897 1.2143691427 -0.6213827040 78  
## 283 1.3826539464 0.187914768 -1.0252313815 1.4678751992 60  
## 1966 -1.2645178319 0.697973880 2.4152820446 0.4872782606 82  
## 497 0.4294978543 -0.128625963 -1.8626038515 -0.4526586920 62  
## 1450 0.1841019265 -0.220077692 -1.9706733188 -0.1493153930 70  
## 959 -0.0730425328 -1.007600535 -2.3243290335 0.0550541960 65  
## 900 0.0666479536 1.193021591 1.2219325108 -1.8817187555 65  
## 1176 -1.8501082063 1.417418267 1.7315992319 0.7181193315 67  
## 215 1.1262996239 -1.359592372 -0.1329473427 -0.3723943182 59  
## 1763 -0.1729062118 -1.024680405 0.0888789871 -1.2321782143 74  
## 1754 -1.6028010472 -0.859060511 0.9673828367 0.4240741748 74  
## 13 0.9504781244 0.453029298 1.8013488386 0.8955040628 56  
## 87 0.8536198338 1.387571574 -1.5585630928 -0.5080157240 58  
## 997 0.5476722278 0.727295104 -0.6626577828 0.4936067264 66  
## 50 0.7183172110 -0.695773512 1.3976616201 -0.6819281778 57  
## 819 -0.2085896105 -1.063872674 0.7357874528 0.9267600974 64  
## 1900 1.1752304489 0.242659787 1.6481852709 0.8424834100 78  
## 1094 -0.1671042023 -0.334158199 1.0268531828 -1.4759925439 66  
## 840 0.9778387725 0.418029482 -1.5014938498 -1.1073267607 64  
## 932 0.2835259279 -0.701183399 -1.7771550344 0.2437142230 65  
## 908 -0.3291264861 0.223986348 -1.5617508029 1.5413113315 65  
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## 342 0.7383983162 1.588731593 0.7158614751 1.4051566809 60  
## 1794 0.9879840200 -0.021431584 -0.4450579420 -0.7157262214 75  
## 1967 -1.5915694180 -0.724031997 0.6065430118 -1.2773726411 82  
## 1570 -0.1732329664 -0.555099486 1.0712634410 -0.9996755923 71  
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## 1196 0.4674852206 0.390093903 0.2203494396 -0.4662450705 67  
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## 90 -0.0415001278 -1.214233616 1.1940302895 -0.0391138739 58  
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## 833 0.4504320731 0.842087488 -1.6960671658 -0.2611724632 64  
## 521 0.2635231723 -0.369053836 -2.0498938656 0.1916909191 62  
## 1976 -1.5188556681 0.407823517 1.1348940296 -0.6924361268 83  
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## 1747 0.9106001662 0.018451091 0.6409838927 0.9666415444 74  
## 687 -2.6007175471 1.596658188 -1.4665319574 0.6523726572 63  
## 1914 0.2069752592 0.314277844 0.1087532951 -0.4486465445 79  
## 67 0.7664112354 0.586443262 -0.7560189366 0.9839679301 58  
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## 1023 0.5447289025 -0.428294534 -0.7104109848 0.9850375286 66  
## 684 0.7180855661 -1.270771001 1.0496236272 -0.3438644060 63  
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## 451 -3.5245191542 -0.179854008 0.3897196581 1.4862429736 61  
## 923 0.9864957815 0.473794156 -0.2236044224 -0.1933726553 65  
## 895 -0.6111944357 0.384296578 -0.2468126003 -1.3888778847 65  
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## 1398 0.4974933537 -0.710298245 -1.9699488621 0.6242386854 69  
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## 743 0.1492950998 -0.448285255 1.1713551503 -1.5671760534 64  
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## 1439 0.4273486436 -0.972540196 0.9658123559 -0.3377321960 70  
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## 1838 -0.4360814149 0.250221228 -0.5767933557 0.3435441181 76  
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## 544 0.3645692857 0.127370923 -0.1414379500 -0.4391659757 62  
## 106 -0.5861144301 -0.468815587 1.0333043581 -0.5574777480 58  
## 134 0.6051956757 1.088160118 -1.0703125091 1.0000735778 59  
## 587 -0.3106882968 -0.245612759 -1.6572767189 0.7753121488 62  
## 720 0.4015718969 1.539750877 -1.7343917134 -1.3745197390 63  
## 195 0.1717939102 0.946635924 1.2241245930 -0.8171406772 59  
## 409 0.1223956018 0.054636215 -0.6515456687 -1.0327397607 61  
## 837 -0.6088462624 1.266187168 0.0599506800 -0.5071273031 64  
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## 703 0.2128189206 -0.710973189 -0.8055652105 3.1128065292 63  
## 1102 0.8028448263 -0.700435182 -0.6717835940 -0.0869314635 67  
## 1957 -0.9153906973 -0.653701000 0.8468433675 -1.0922047865 81  
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## 1214 0.1181504231 -1.569019394 -0.2290653802 0.2262485128 68  
## 1235 1.0550513804 1.300941941 0.2773416555 -0.1986002881 68  
## 127 0.6094765813 0.150964151 0.6063471477 1.3103101718 58  
## 1308 0.2395984130 0.954242044 0.6199629468 0.4067053943 69  
## 1989 -0.0935299825 0.744952318 0.8697786177 -2.3640528850 85  
## 1264 -1.1132332270 -0.507865811 0.4016563098 -1.1841882133 68  
## 1075 -0.1448639959 0.697895842 -0.2506525262 -0.8127520283 66  
## 554 -2.7189143332 0.565236791 1.4085854876 -0.1277475976 62  
## 990 0.8987233402 0.274337503 -1.9675299626 -0.6791232253 66  
## 219 0.1855617735 -0.928973671 -2.0157115693 0.8586155414 59  
## 859 -0.2291646634 -0.743519617 1.2292524776 -0.2308329787 65  
## 1980 -0.4645952913 -0.534252187 -0.9024296903 -0.4264271604 83  
## 834 0.8078824903 -0.930916922 0.6348103855 2.3015511494 64  
## 1244 0.2314517188 1.148998209 -0.4792745357 -0.3696288253 68  
## 1707 0.7709929731 -1.291183809 -0.7285174034 -1.2236698933 73  
## 1995 0.1711334108 0.407128738 -0.1859147921 -1.1203769611 86  
## 510 1.3441420045 1.734689090 -1.3957801309 0.5761891094 62  
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## 1186 0.6970622185 -2.816135147 0.4347603067 -0.3116791681 67  
## 311 0.5716473642 -1.188556379 0.9265378671 -1.2008377923 60  
## 1649 0.7517708844 -1.079338702 0.3335693520 0.0593598467 72  
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## 1930 -0.3785081210 -0.482347879 -0.2592696664 -1.1545359226 80  
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## 1789 -0.7074481133 -0.431489030 -0.4805145074 0.5273190964 75  
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## 546 -0.0593961388 -0.496298534 -0.1215285739 0.3918330227 62  
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## 520 -0.0094416689 0.721030607 -0.0323823671 -2.0300313235 62  
## 1962 0.5457523223 -0.240183913 -0.0936407595 -1.0547040250 82  
## 804 0.4923456415 0.482524002 -0.8577043218 -0.9390422526 64  
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## 1027 -0.6642662397 -0.675964956 0.5267058409 -0.6540252600 66  
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## 1256 0.2444184426 0.807229591 -0.7154754436 1.1853026669 68  
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## 1990 0.2084976886 1.755113954 -1.1919876645 -0.7641931992 85  
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## 455 -0.0579217023 0.135185483 -0.5805752585 0.1156362166 61  
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## 1925 1.0625883729 0.928462810 -1.3766829765 -0.7069823999 79  
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## 931 -0.1249693343 0.855290747 -1.4478780533 1.9231984522 65  
## 1884 0.8445836292 -0.260573341 0.5579237427 0.5785795225 77  
## 456 0.3262648117 -1.161009684 0.1498336520 -0.0140232261 61  
## 526 0.2470474179 0.546393458 -1.3813719489 0.1485638143 62  
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## 274 0.7229553573 -0.076105366 -0.7370742151 0.2718137021 60  
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## 732 1.2537700586 -0.020334460 1.3877237606 -0.3461367392 63  
## 1870 0.0139796148 -0.793263717 0.6113494977 -1.0264935386 77  
## 440 1.2457470324 -1.285944186 0.0878371726 1.4063493457 61  
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## 551 -0.2279602774 -0.593212189 0.1937961280 -0.9635163342 62  
## 1911 0.7448156834 0.221320595 0.3193356620 0.5249046574 79  
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## 1703 0.3628068341 -1.172569177 1.0559702769 -0.4610675062 73  
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## 1959 0.6329584260 1.575909899 1.2303230811 1.7239998237 82  
## 617 0.6324016544 -1.404737903 -0.0602448460 1.9709443228 63  
## 654 0.5001714978 -1.156395897 -0.6788360393 -0.5603012768 63  
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## 286 -0.4578563203 -0.021812842 0.9572441721 -0.8208172970 60  
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## 1920 0.1130925916 0.028719591 -1.2353515104 -0.4975520929 79  
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## 1912 0.4394038155 -0.936604280 1.3561738988 0.4334158914 79  
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## 779 -1.6548175044 -2.181950552 0.5337288215 0.2540048754 64  
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## 1242 0.8630153400 1.651991386 -0.6752229497 -0.2787447512 68  
## 591 -0.1798038636 0.172539642 -0.1550740328 0.0856151626 62  
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## 1768 -0.1626310927 -1.185834029 2.5440215796 2.4112630901 74  
## 1790 -0.8640270729 -1.266091480 -0.6106849832 -0.1292452209 75  
## 887 -0.4141758807 -1.108172008 0.9735847766 -0.6866593157 65  
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## 1520 0.4423310606 -0.106162715 1.2796324563 -0.4167113374 71  
## 398 -0.0447553056 1.207105678 -1.3425168843 1.4903811737 61  
## 1867 -0.0701938728 -0.816544603 -0.6808891530 0.1262058645 77  
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## 133 -0.3508158279 0.242652122 -0.6552712164 0.1041158573 59  
## 1831 -1.4049289917 0.124086012 1.0662164986 -1.1569835504 76  
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## 806 -1.7056622558 1.613339372 -1.3181440739 -0.1248299798 64  
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valid.pc

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## 3 -0.066926601 1.683381976 -0.0982278737 1.913255774 55  
## 6 -0.495622796 0.078201025 -1.6109020241 -0.087309250 55  
## 11 -0.089322888 -0.962719214 0.6169765130 -0.645097887 56  
## 15 0.452735432 -0.791040814 0.7017443280 -0.858168752 56  
## 16 0.580897689 1.190126595 -0.7102460034 1.322432876 56  
## 17 -1.874220081 -1.795144181 1.8674076044 3.204519399 56  
## 28 0.346083328 1.029728097 1.0893064008 -0.669078657 57  
## 29 0.698010737 1.247535268 0.4982378832 0.625669705 57  
## 34 1.086813826 1.600633774 -0.1644106009 2.370466991 57  
## 35 0.785653690 1.034017096 1.3012923340 -0.464818364 57  
## 36 0.120024106 1.130968953 0.3998142105 -2.310363092 57  
## 39 1.071053059 -0.950065065 -0.5717245725 -0.034960720 57  
## 41 -1.066153515 0.653676619 1.4701217670 -1.310653574 57  
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## 82 0.631271624 1.910596766 1.5237307270 -0.465056417 58  
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## 1682 -1.931144062 1.276480642 0.7867981797 1.277896301 73  
## 1684 0.956473170 1.874521609 1.6123397925 1.709336519 73  
## 1685 -0.459965059 0.758075606 -0.2771479202 0.188737665 73  
## 1688 -0.474640112 -1.284632519 0.8584634422 1.124590792 73  
## 1690 -0.165935692 -1.353345604 -0.1037496053 0.384354864 73  
## 1691 0.673774175 1.218162985 0.8312979419 0.755768519 73  
## 1692 -0.457366492 -1.898716712 -0.8215971138 0.171347521 73  
## 1694 -2.167297339 -0.169132544 0.2568743184 1.882378167 73  
## 1695 0.289521675 0.749449025 -0.9230797049 1.095648804 73  
## 1696 0.752886220 -0.875772852 0.9380467207 -0.707089836 73  
## 1698 0.564141212 -1.196618111 0.8284818243 -0.772239675 73  
## 1700 -0.543338136 -1.331465925 0.8093362301 -0.797974596 73  
## 1701 -1.755890816 -0.221442630 1.1753340789 -0.184854368 73  
## 1702 0.645394318 -0.582103762 -1.9870042040 0.177397845 73  
## 1705 -2.959931264 -1.049564949 1.2358773421 0.971882706 73  
## 1708 0.483881440 -1.166082985 -0.3016833913 0.197226053 73  
## 1709 0.589709573 0.821006447 -0.1916119137 -1.676322672 73  
## 1710 -0.751155533 0.016873543 0.0346347190 -1.964972250 73  
## 1714 0.681087787 -0.072608689 -0.8094875356 0.257840182 73  
## 1717 1.397940947 -1.023796778 0.2484256512 0.881888463 73  
## 1718 -0.164985410 -0.462442610 -1.4717000836 1.067421734 73  
## 1720 -0.046068010 -1.119809057 -1.2104647485 0.426389530 73  
## 1727 -0.128538588 -0.781157128 0.2259155951 -0.651032203 74  
## 1728 0.602612694 0.915046041 -0.0398886813 -0.893678926 74  
## 1732 0.374207995 -0.749962904 -0.7464526811 -0.014722234 74  
## 1735 0.427366985 -0.616534895 0.1800141876 -0.402193774 74  
## 1741 0.495874520 -0.617809684 1.1514130511 0.394304053 74  
## 1742 0.647409621 -0.380077731 -0.8002212340 0.342522356 74  
## 1743 -3.939510643 -0.380879661 -2.1671016309 1.421636981 74  
## 1746 0.762509033 0.556643439 0.0598918554 -0.527677477 74  
## 1749 -1.869680128 0.157822807 0.2853342323 -1.378141185 74  
## 1751 -0.260560615 0.692406654 -0.7679282358 0.481661335 74  
## 1752 -0.424586681 -0.416608262 -0.2041836019 -0.205939164 74  
## 1755 0.750573989 0.933023326 -1.0755581850 -1.105817903 74  
## 1762 -0.712656215 -2.004338210 -0.5222611092 0.298617645 74  
## 1764 0.706909925 0.002593822 0.4003463691 -0.538296435 74  
## 1765 -0.091740445 -0.190597731 -0.1676380181 -0.776084586 74  
## 1767 0.472355726 0.217673608 1.0151656597 -0.742232108 74  
## 1769 0.483881440 -1.166082985 -0.3016833913 0.197226053 74  
## 1770 0.322664705 -0.219072352 0.1260812053 -0.300565754 74  
## 1774 0.416045493 -1.416077397 -0.2389204363 0.654209684 75  
## 1775 0.016901700 -0.120328559 0.2480845342 0.213451862 75  
## 1776 0.982026483 1.285818742 -1.2382353920 0.925673970 75  
## 1780 -0.847365990 0.959813806 -1.7751364807 -0.316409972 75  
## 1785 -0.114412132 0.546716228 -0.7435684014 -0.650824309 75  
## 1786 0.008109614 -1.295441707 0.3179056666 -1.393095073 75  
## 1795 0.150185812 1.627937959 1.6406088082 0.064648307 75  
## 1798 0.981099035 -0.041517303 -0.6378592038 -1.007778018 75  
## 1800 0.436633628 -1.175226204 1.5358505551 0.123809403 75  
## 1801 0.840382097 0.538902051 -0.9289078408 1.537628420 75  
## 1802 0.897153603 0.369847844 -1.9392751535 -1.301955284 75  
## 1803 -0.018677675 -0.081274989 -0.2205047964 -0.234974731 75  
## 1804 1.105365532 0.054424370 -1.0977031072 -1.562564946 75  
## 1809 1.019528564 -0.514321742 -0.2668489060 -0.652006972 75  
## 1812 0.992532222 -0.115135870 -1.3023494048 0.044257912 75  
## 1813 0.866169998 -0.458460442 0.3091351036 2.534839902 75  
## 1815 1.112099040 -0.448476542 -0.7850573687 0.903118587 76  
## 1817 -1.055645055 1.182045117 -1.0498456520 0.022321608 76  
## 1820 0.143453008 0.486857011 -0.4527131189 -0.970759436 76  
## 1822 0.863042091 0.663029628 -1.5493954542 0.337835859 76  
## 1827 -0.966521197 1.145609560 0.2105179118 2.570914159 76  
## 1829 0.400035434 -0.565704282 0.1981321976 -0.219379926 76  
## 1830 -0.641771279 -0.687806948 -1.7897072432 1.573417170 76  
## 1834 -0.952749111 -0.800016450 0.1304854405 -0.431342226 76  
## 1835 1.147400938 -0.442711615 1.6851762320 3.079908632 76  
## 1837 0.282367392 -0.888219224 -0.1502534675 -0.095938703 76  
## 1839 -0.217662109 0.246865324 -0.6844355283 -1.722807827 76  
## 1840 -0.997073218 0.885889571 -1.4594850459 0.040333607 76  
## 1842 -0.472409108 -0.156819447 0.8877748448 -1.361039458 76  
## 1843 -0.529396781 -0.241840632 -0.4411770048 -0.926787547 76  
## 1844 0.048668279 0.314713782 -0.3096695203 -1.882939465 76  
## 1845 1.349586994 0.057853097 1.2033856017 -0.478237949 76  
## 1846 -0.208843668 -0.195907030 1.1022547166 -1.363882931 76  
## 1850 0.381348016 -0.603685582 0.8475150970 -0.626377361 76  
## 1853 1.276763754 -0.746592774 0.0552081075 1.312920233 77  
## 1858 0.038697848 -0.413409912 0.5274214683 0.071546618 77  
## 1860 -0.118033148 0.262357216 0.0817740352 -1.053014774 77  
## 1862 -0.802355829 -0.674389956 0.2246405290 -0.913514144 77  
## 1863 0.577514915 0.328025106 0.4437651307 -0.824798819 77  
## 1869 0.205490978 -1.358489999 -1.7467520619 0.997008242 77  
## 1872 1.077847990 -0.465754397 -0.3150788292 0.885711132 77  
## 1874 -1.445661297 -0.656953142 -1.2539821824 -0.425521292 77  
## 1875 0.687023273 0.053625891 -0.3906852357 -1.568251982 77  
## 1879 1.142076644 -0.531505458 -0.3947777848 -0.299399767 77  
## 1880 0.227732470 -0.715221335 -0.8021574102 1.059416467 77  
## 1885 1.139610598 -0.524693276 0.0607055425 -0.430329922 77  
## 1887 1.200982602 -1.153811065 1.1596741667 0.275293451 77  
## 1891 0.338418895 2.514670750 -1.2199601726 -0.178399507 78  
## 1893 0.573935029 1.445238451 -1.0483264120 0.421465324 78  
## 1894 -0.858756842 0.222501300 -1.1190872856 0.370298545 78  
## 1896 -0.230327725 1.309444849 -1.1525134539 0.566642633 78  
## 1897 0.832990520 -0.545602919 -0.2763212059 -0.928084862 78  
## 1901 0.185925018 -0.063798027 1.0390391521 -1.469529682 78  
## 1902 0.422712936 0.311056228 -0.0078415546 -1.484100614 78  
## 1908 -0.627212471 -0.666167839 -0.2689959737 -0.101772559 78  
## 1909 -0.843982964 -0.783464605 -0.3883946939 -0.940605823 78  
## 1910 0.212053800 3.233614749 -0.0199695415 0.338527498 79  
## 1913 -0.383927851 -1.787128853 0.6240816278 0.227387658 79  
## 1918 -0.804046818 -0.588770204 0.5005113554 1.261566576 79  
## 1922 -1.268237856 -0.460437430 0.6972799339 -1.288125905 79  
## 1923 0.807696751 -0.822334957 0.1080882223 0.441680246 79  
## 1929 -0.162631093 -1.185834029 2.5440215796 2.411263090 79  
## 1935 -1.636863863 -1.067547404 -0.0524511733 0.401583672 80  
## 1936 0.588130857 1.223486239 -0.7963711928 -0.413108001 80  
## 1937 -0.320793329 0.737432708 -0.9176015024 0.429858112 80  
## 1938 -0.052108613 0.531476128 -0.9816570584 -0.776488941 80  
## 1941 1.099610799 0.044961944 0.9370257458 -1.844403036 80  
## 1942 0.519811571 -0.763365490 0.1331813148 -0.605601405 81  
## 1945 0.421735733 -0.324713755 1.1860110048 0.091757217 81  
## 1946 0.593812914 -0.783244474 0.5917288205 0.006275716 81  
## 1947 0.466806441 0.194519231 -0.2608753948 -0.042229127 81  
## 1949 -0.923299507 -0.015087893 1.2208333241 0.298016540 81  
## 1951 -5.943807443 -0.864578738 -0.0667848609 0.504790565 81  
## 1953 0.319469732 -0.997329948 1.2798575878 0.346491822 81  
## 1956 0.971512669 -0.377606837 -1.6771121160 -0.343152346 81  
## 1958 0.828552097 -0.336403101 -0.2693619845 0.393803106 81  
## 1960 0.629546969 -0.219375461 -0.1139294800 -1.042770477 82  
## 1963 1.193850977 0.115486193 -0.2013298847 0.825316445 82  
## 1964 -0.039455809 -1.778974646 1.1913535842 0.731829111 82  
## 1969 0.871959801 0.203631840 -0.0657773747 -0.763542635 82  
## 1970 1.347027571 0.241228027 -1.5536614158 -0.335072060 82  
## 1972 0.371474108 -0.366923109 0.1579954064 -0.030102120 82  
## 1973 -0.162958453 1.061212997 -0.4677487925 -0.446349303 83  
## 1977 -0.227661583 0.066524050 0.8819736359 0.949992270 83  
## 1981 0.204988295 -0.127103285 0.1390343845 0.886276001 83  
## 1986 0.906123831 -0.671238482 0.0534281570 -1.552820514 84  
## 1987 -0.297753224 0.162877653 -0.0177548401 -0.211206806 84  
## 1988 -0.892343403 -1.031914638 0.4991361875 -0.620834122 85  
## 1991 -1.559735202 0.890735827 -0.7803936911 -1.516884775 85  
## 1993 0.904975719 -0.577868072 0.3113748322 -1.123247223 85  
## 1999 -0.356909962 -0.487340603 -0.7731341945 1.241166751 89  
## 2000 -1.932459262 -0.824356384 -1.0180268712 0.286235765 89

Data Mining Techniques

Implementing KNN

# compute knn for different k on validation without PCA  
accuracy.df <- data.frame(k = seq(1, 50, 1), RMSE = rep(0, 50))  
for(i in 1:50) {  
   
 song.knn <- knnreg(train.dfnorm[, 1:12],train.dfnorm$popularity, k = i)  
 song.knn.pred <- predict(song.knn, valid.dfnorm[,1:12])  
 accuracy.df[i, 2] <- data.frame(accuracy(valid.dfnorm$popularity, song.knn.pred))$RMSE  
}  
accuracy.df

## k RMSE  
## 1 1 8.533573  
## 2 2 7.449830  
## 3 3 6.984711  
## 4 4 6.784582  
## 5 5 6.631499  
## 6 6 6.548788  
## 7 7 6.422594  
## 8 8 6.309103  
## 9 9 6.314772  
## 10 10 6.318966  
## 11 11 6.300353  
## 12 12 6.262852  
## 13 13 6.252480  
## 14 14 6.254389  
## 15 15 6.235952  
## 16 16 6.196684  
## 17 17 6.186717  
## 18 18 6.198607  
## 19 19 6.191146  
## 20 20 6.182351  
## 21 21 6.170095  
## 22 22 6.189684  
## 23 23 6.176246  
## 24 24 6.193378  
## 25 25 6.193758  
## 26 26 6.195411  
## 27 27 6.185522  
## 28 28 6.200734  
## 29 29 6.196675  
## 30 30 6.186785  
## 31 31 6.199736  
## 32 32 6.201977  
## 33 33 6.195586  
## 34 34 6.204153  
## 35 35 6.192117  
## 36 36 6.187057  
## 37 37 6.179320  
## 38 38 6.171827  
## 39 39 6.170337  
## 40 40 6.174835  
## 41 41 6.183461  
## 42 42 6.181691  
## 43 43 6.177647  
## 44 44 6.177032  
## 45 45 6.180649  
## 46 46 6.177568  
## 47 47 6.174873  
## 48 48 6.177438  
## 49 49 6.183964  
## 50 50 6.181221

#k =21 have the min RMSE  
song.knn <- knnreg(train.dfnorm[, 1:12],train.dfnorm$popularity, k = 21)  
song.knn.pred <- predict(song.knn, valid.dfnorm[,1:12])  
accuracy(valid.dfnorm$popularity, song.knn.pred)

## ME RMSE MAE MPE MAPE  
## Test set 0.3456818 6.170095 5.011234 0.4915159 7.475155

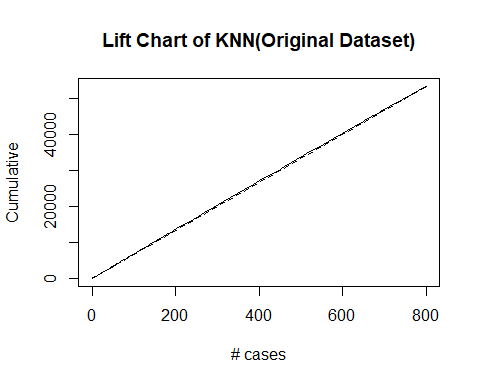
cor(valid.dfnorm$popularity,song.knn.pred)

## [1] 0.1604011

#Lift Chart plot  
gain.knn <- gains(valid.dfnorm$popularity,song.knn.pred, groups = length(song.knn.pred))

## Warning in gains(valid.dfnorm$popularity, song.knn.pred, groups =  
## length(song.knn.pred)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.knn$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.knn$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of KNN(Original Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



# compute knn for different k on validation with PCA  
accuracy.pc <- data.frame(k = seq(1, 50, 1), RMSE = rep(0, 50))  
for(i in 1:50) {  
   
 pc.knn <- knnreg(train.pc[, 1:4],train.pc$popularity, k = i)  
 pc.knn.pred <- predict(pc.knn, valid.pc[,1:4])  
 accuracy.pc[i, 2] <- data.frame(accuracy(valid.pc$popularity, pc.knn.pred))$RMSE  
}  
accuracy.pc

## k RMSE  
## 1 1 8.511096  
## 2 2 7.546223  
## 3 3 7.003965  
## 4 4 6.806388  
## 5 5 6.645541  
## 6 6 6.624967  
## 7 7 6.552251  
## 8 8 6.516710  
## 9 9 6.440490  
## 10 10 6.445090  
## 11 11 6.430223  
## 12 12 6.372504  
## 13 13 6.351017  
## 14 14 6.331606  
## 15 15 6.286556  
## 16 16 6.259346  
## 17 17 6.255299  
## 18 18 6.269659  
## 19 19 6.274752  
## 20 20 6.264834  
## 21 21 6.274294  
## 22 22 6.271800  
## 23 23 6.269376  
## 24 24 6.272724  
## 25 25 6.278575  
## 26 26 6.277411  
## 27 27 6.278701  
## 28 28 6.252965  
## 29 29 6.238135  
## 30 30 6.241094  
## 31 31 6.237030  
## 32 32 6.232004  
## 33 33 6.231550  
## 34 34 6.224561  
## 35 35 6.225979  
## 36 36 6.222070  
## 37 37 6.217350  
## 38 38 6.209321  
## 39 39 6.199994  
## 40 40 6.189376  
## 41 41 6.187031  
## 42 42 6.185059  
## 43 43 6.181242  
## 44 44 6.181251  
## 45 45 6.180938  
## 46 46 6.180461  
## 47 47 6.173100  
## 48 48 6.184002  
## 49 49 6.180651  
## 50 50 6.184768

#k =47 have the min RMSE  
pc.knn <- knnreg(train.pc[, 1:4],train.pc$popularity, k = 47)  
pc.knn.pred <- predict(pc.knn, valid.pc[,1:4])  
accuracy(valid.pc$popularity, pc.knn.pred)

## ME RMSE MAE MPE MAPE  
## Test set 0.18166 6.1731 5.056421 0.2630705 7.568647

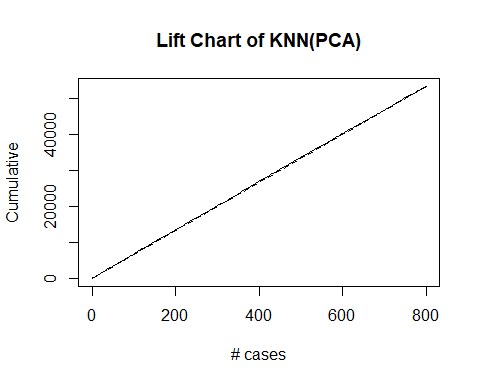
cor(valid.pc$popularity,pc.knn.pred)

## [1] 0.1172083

#Lift Chart plot  
gain.knn <- gains(valid.dfnorm$popularity,pc.knn.pred, groups = length(pc.knn.pred))

## Warning in gains(valid.dfnorm$popularity, pc.knn.pred, groups =  
## length(pc.knn.pred)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.knn$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.knn$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of KNN(PCA)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



Implementing linear Regression

# On Original Dataset  
song.lm <- lm(popularity~., train.dfnorm)  
muti1.song.lm<-lm(popularity~ acousticness+danceability+instrumentalness+speechiness+loudness, train.dfnorm)  
muti2.song.lm<-lm(popularity~ acousticness+danceability+instrumentalness+speechiness+loudness+liveness+mode, train.dfnorm)  
#  
song.lm.pred <- predict(song.lm, valid.dfnorm)  
muti1.song.lm.pred <- predict(muti1.song.lm, valid.dfnorm)  
muti2.song.lm.pred <- predict(muti2.song.lm, valid.dfnorm)  
  
#  
accuracy(valid.dfnorm$popularity, song.lm.pred)

## ME RMSE MAE MPE MAPE  
## Test set 0.0004726906 6.147398 4.96109 -0.007194902 7.454019

accuracy(valid.dfnorm$popularity, muti1.song.lm.pred)

## ME RMSE MAE MPE MAPE  
## Test set 0.0103612 6.167697 4.979802 0.005837494 7.480361

accuracy(valid.dfnorm$popularity, muti2.song.lm.pred)

## ME RMSE MAE MPE MAPE  
## Test set 0.007606023 6.157634 4.967992 0.00280691 7.462928

#  
cor(valid.dfnorm$popularity, song.lm.pred)

## [1] 0.13977

cor(valid.dfnorm$popularity, muti1.song.lm.pred)

## [1] 0.120328

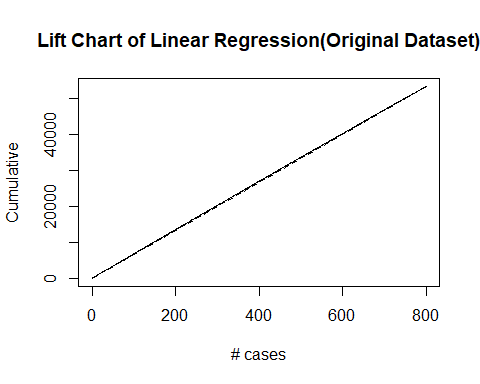
cor(valid.dfnorm$popularity, muti2.song.lm.pred)

## [1] 0.1298382

#  
#Lift Chart plot  
gain.lm <- gains(valid.dfnorm$popularity,song.lm.pred, groups = length(song.lm.pred))

## Warning in gains(valid.dfnorm$popularity, song.lm.pred, groups =  
## length(song.lm.pred)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.lm$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.lm$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Linear Regression(Original Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



# On PCA Dataset  
pc.lm <- lm(popularity~., train.pc)  
#  
pc.lm.pred <- predict(pc.lm, valid.pc)  
#  
accuracy(valid.pc$popularity, pc.lm.pred)

## ME RMSE MAE MPE MAPE  
## Test set -0.03194905 6.2025 5.03597 -0.05319563 7.566706

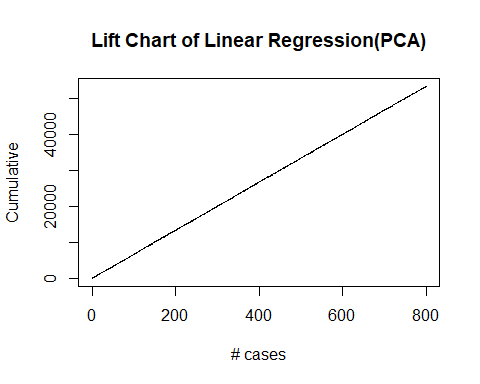
#  
cor(valid.pc$popularity, pc.lm.pred)

## [1] 0.05288301

#Lift Chart plot  
gain.lm <- gains(valid.dfnorm$popularity,pc.lm.pred, groups = length(pc.lm.pred))

## Warning in gains(valid.dfnorm$popularity, pc.lm.pred, groups =  
## length(pc.lm.pred)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.lm$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.lm$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Linear Regression(PCA)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



Implementing Random Forests Tech

# On original dataset  
set.seed(111)  
rf.df <-randomForest(popularity~ ., data = train.dfnorm,ntree = 500,   
 mtry = 4, nodesize = 5, importance = TRUE)  
rf.pred.df <-predict(rf.df, valid.dfnorm)  
accuracy(valid.dfnorm$popularity, rf.pred.df)

## ME RMSE MAE MPE MAPE  
## Test set 0.1537154 6.039929 4.901973 0.2236628 7.342169

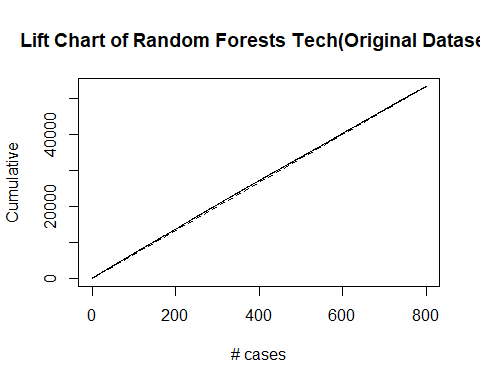
cor(valid.dfnorm$popularity,rf.pred.df)

## [1] 0.2303521

#Lift Chart plot  
gain.rf <- gains(valid.dfnorm$popularity,rf.pred.df, groups = length(rf.pred.df))

## Warning in gains(valid.dfnorm$popularity, rf.pred.df, groups =  
## length(rf.pred.df)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.rf$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.rf$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Random Forests Tech(Original Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



# On PCA Dataset  
set.seed(111)  
rf.pc <-randomForest(popularity~ ., data = train.pc,ntree = 500,   
 mtry = 4, nodesize = 5, importance = TRUE)  
rf.pred.pc <-predict(rf.pc, valid.pc)  
accuracy(valid.pc$popularity, rf.pred.pc)

## ME RMSE MAE MPE MAPE  
## Test set 0.1272084 6.372454 5.187864 0.1276332 7.768807

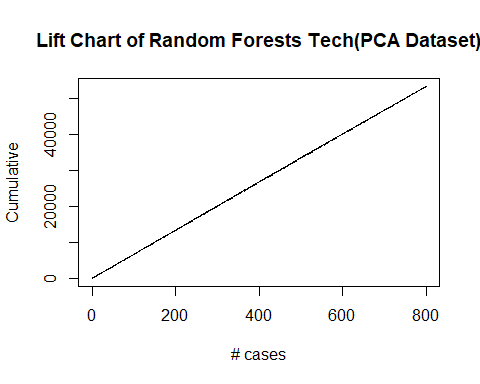
cor(valid.pc$popularity,rf.pred.pc)

## [1] 0.06232736

#Lift Chart plot  
gain.rf <- gains(valid.dfnorm$popularity,rf.pred.pc, groups = length(rf.pred.pc))

## Warning in gains(valid.dfnorm$popularity, rf.pred.pc, groups =  
## length(rf.pred.pc)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.rf$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.rf$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Random Forests Tech(PCA Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



Implementing Support Vector Machine Tech

# On Original Dataset  
svm.df <- svm(popularity~ ., data = train.dfnorm)  
#  
svm.pred.df <- predict(svm.df, valid.dfnorm)  
#  
accuracy(valid.dfnorm$popularity, svm.pred.df)

## ME RMSE MAE MPE MAPE  
## Test set -0.6441953 6.201507 4.974542 -1.035961 7.542698

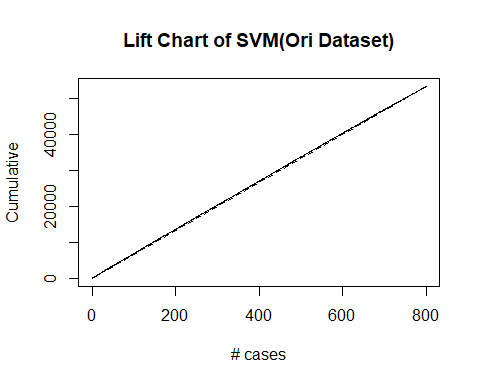
cor(valid.dfnorm$popularity,svm.pred.df)

## [1] 0.2000806

#Lift Chart plot  
gain.svm <- gains(valid.dfnorm$popularity,svm.pred.df, groups = length(svm.pred.df))

## Warning in gains(valid.dfnorm$popularity, svm.pred.df, groups =  
## length(svm.pred.df)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.svm$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.svm$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of SVM(Ori Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



# On PCA Dataset  
svm.pc <- svm(popularity~ ., data = train.pc)  
#  
svm.pred.pc <- predict(svm.pc, valid.pc)  
#  
accuracy(valid.pc$popularity, svm.pred.pc)

## ME RMSE MAE MPE MAPE  
## Test set -0.7841473 6.238827 5.021344 -1.221023 7.627223

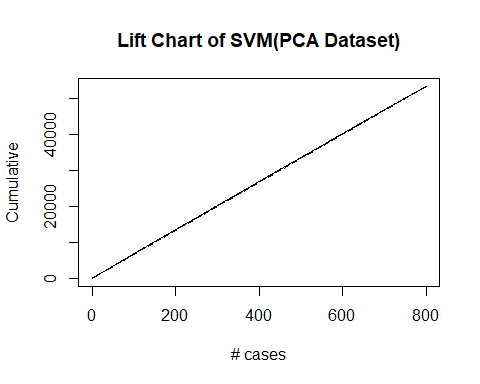
cor(valid.pc$popularity,svm.pred.pc)

## [1] 0.1365463

#Lift Chart plot  
gain.svm <- gains(valid.dfnorm$popularity,svm.pred.pc, groups = length(svm.pred.pc))

## Warning in gains(valid.dfnorm$popularity, svm.pred.pc, groups =  
## length(svm.pred.pc)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.svm$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.svm$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of SVM(PCA Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)

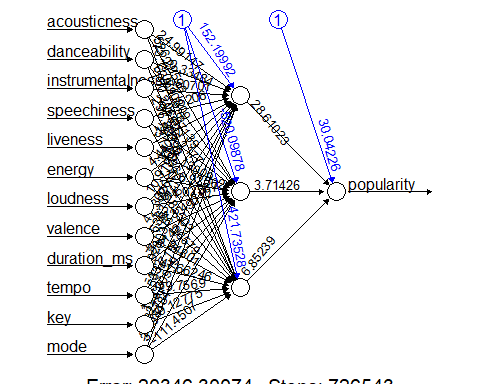


Implementing Neural Networks Tech

# On Original Dataset  
set.seed(111)  
nn.df <- neuralnet(popularity~ ., data = train.dfnorm, hidden =3,linear.output = T,stepmax = 1e6)  
# display weights  
nn.df$weights

## [[1]]  
## [[1]][[1]]  
## [,1] [,2] [,3]  
## [1,] 152.199917 -520.098778 421.735282  
## [2,] 24.991468 526.295963 -73.110786  
## [3,] -20.334837 631.108091 -150.206517  
## [4,] -8.507007 -711.971393 296.823931  
## [5,] -9.852055 -305.217704 -31.423650  
## [6,] -14.530001 116.130091 71.143901  
## [7,] 4.440417 -126.925616 -66.855030  
## [8,] 10.919987 861.025670 -46.065790  
## [9,] 42.302602 -173.490117 3.248006  
## [10,] -4.763633 2.914214 47.662462  
## [11,] -10.928028 -33.715699 29.756898  
## [12,] 13.453322 125.309187 -9.127751  
## [13,] -23.827608 31.981839 -111.450696  
##   
## [[1]][[2]]  
## [,1]  
## [1,] 30.042264  
## [2,] 28.610231  
## [3,] 3.714260  
## [4,] 6.852389

# plot network  
plot(nn.df,main = "Artificial Neural Net (Ori)",rep="best")



#  
nn.pred.df <- compute(nn.df, valid.dfnorm)  
#  
nn.pred.value.df <- nn.pred.df$net.result  
#  
accuracy(valid.dfnorm$popularity, nn.pred.value.df)

## ME RMSE MAE MPE MAPE  
## Test set -0.3622882 6.944627 5.361225 -0.9427299 8.395239

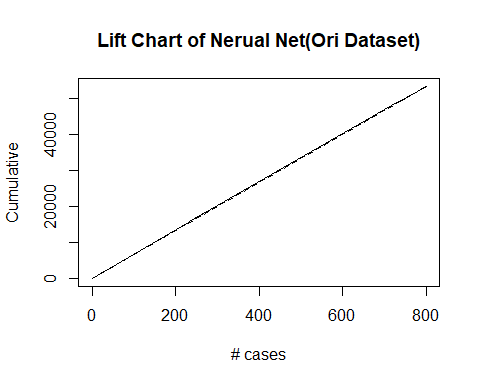
cor(valid.dfnorm$popularity, nn.pred.value.df)

## [,1]  
## [1,] 0.06873088

#Lift Chart plot  
gain.nn <- gains(valid.dfnorm$popularity,nn.pred.value.df, groups = length(nn.pred.value.df))

## Warning in gains(valid.dfnorm$popularity, nn.pred.value.df, groups =  
## length(nn.pred.value.df)): Warning: Fewer distinct predicted values than groups  
## requested

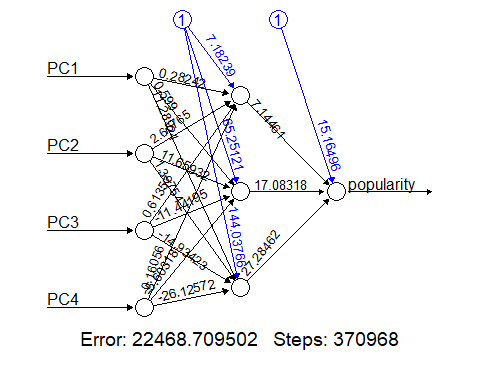
plot(c(0, gain.nn$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.nn$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Nerual Net(Ori Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



# On PCA Dataset  
set.seed(111)  
nn.pc <- neuralnet(popularity~ ., data = train.pc, hidden =3,linear.output = T,stepmax = 1e6)  
# display weights  
nn.pc$weights

## [[1]]  
## [[1]][[1]]  
## [,1] [,2] [,3]  
## [1,] 7.1823856 65.2512070 144.037659  
## [2,] 0.2824237 0.5990004 -11.289237  
## [3,] 2.6576454 11.6593151 1.397535  
## [4,] 0.6135664 -11.4419496 -14.934233  
## [5,] -0.1605562 -5.6031834 -26.125723  
##   
## [[1]][[2]]  
## [,1]  
## [1,] 15.164957  
## [2,] 7.144608  
## [3,] 17.083185  
## [4,] 27.284618

# plot network  
plot(nn.pc,main = "Artificial Neural Net (PCA)",rep="best")



#  
nn.pred.pc <- compute(nn.pc, valid.pc)  
#  
nn.pred.value.pc <- nn.pred.pc$net.result  
#  
accuracy(valid.pc$popularity, nn.pred.value.pc)

## ME RMSE MAE MPE MAPE  
## Test set -0.002529686 6.244288 5.070724 -0.03122226 7.638958

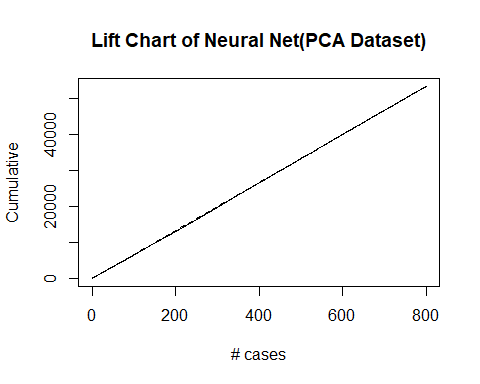
cor(valid.pc$popularity, nn.pred.value.pc)

## [,1]  
## [1,] 0.03611126

#Lift Chart plot  
gain.nn <- gains(valid.dfnorm$popularity,nn.pred.value.pc, groups = length(nn.pred.value.pc))

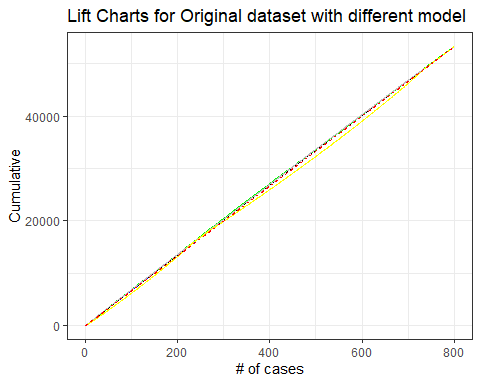
## Warning in gains(valid.dfnorm$popularity, nn.pred.value.pc, groups =  
## length(nn.pred.value.pc)): Warning: Fewer distinct predicted values than groups  
## requested

plot(c(0, gain.nn$cume.pct.of.total\*sum(valid.dfnorm$popularity))~c(0, gain.nn$cume.obs), xlab = "# cases", ylab = "Cumulative", main = "Lift Chart of Neural Net(PCA Dataset)", type = "l")  
lines(c(0, sum(valid.dfnorm$popularity))~c(0, dim(valid.dfnorm)[1]), lty = 2)



##############################################################Writing the Output File&Plots

# Plot all lift charts for Original Dataset  
df.lift <- data.frame(case = c(1:dim(valid.dfnorm)[1]),  
   
 knnreg = cumsum(valid.dfnorm$popularity[order(song.knn.pred, decreasing = T)]),  
 linearreg = cumsum(valid.dfnorm$popularity[order(song.lm.pred, decreasing = T)]),  
 rfreg = cumsum(valid.dfnorm$popularity[order(rf.pred.df, decreasing = T)]),  
 svmreg = cumsum(valid.dfnorm$popularity[order(svm.pred.df, decreasing = T)]),  
 nnreg = cumsum(valid.dfnorm$popularity[order(nn.pred.value.df, decreasing = T)]),  
  
 baseline = c(1:dim(valid.dfnorm)[1])\*mean(valid.dfnorm$popularity)  
 )  
  
ggplot(df.lift, aes(x = case)) +   
 geom\_line(aes(y = knnreg), color = "blue") +  
   
 geom\_line(aes(y = linearreg), color = "black") +   
   
 geom\_line(aes(y=rfreg), color = "green" ) +   
   
 geom\_line(aes(y=svmreg), color = "grey") +   
  
 geom\_line(aes(y=nnreg), color = "yellow") +   
  
 geom\_line(aes(y=baseline), color = "red", linetype = "dashed") +   
   
 theme\_bw()+  
   
 labs(x = "# of cases", y = "Cumulative",title = "Lift Charts for Original dataset with different model")



# Plot all lift charts for PCA Dataset  
pc.lift <- data.frame(case = c(1:dim(valid.pc)[1]),  
   
 knnreg = cumsum(valid.pc$popularity[order(pc.knn.pred, decreasing = T)]),  
 linearreg = cumsum(valid.pc$popularity[order(pc.lm.pred, decreasing = T)]),  
 rfreg = cumsum(valid.pc$popularity[order(rf.pred.pc, decreasing = T)]),  
 svmreg = cumsum(valid.pc$popularity[order(svm.pred.pc, decreasing = T)]),  
 nnreg = cumsum(valid.pc$popularity[order(nn.pred.value.pc, decreasing = T)]),  
  
 baseline = c(1:dim(valid.pc)[1])\*mean(valid.pc$popularity)  
 )  
  
ggplot(pc.lift, aes(x = case),shape) +   
   
 geom\_line(aes(y = knnreg), color = "blue") +  
   
 geom\_line(aes(y = linearreg), color = "black") +   
   
 geom\_line(aes(y=rfreg), color = "green" ) +   
   
 geom\_line(aes(y=svmreg), color = "grey") +   
  
 geom\_line(aes(y=nnreg), color = "yellow") +   
  
 geom\_line(aes(y=baseline), color = "red", linetype = "dashed") +   
   
 theme\_bw()+  
  
 labs(x = "# of cases", y = "Cumulative", title = "Lift Charts for PCA dataset with different model")

