Package 'fastNaiveBayes'

July 22, 2025

Type Package

Title Extremely Fast Implementation of a Naive Bayes Classifier

Version 2.2.1

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Description This is an extremely fast implementation of a Naive Bayes classifier. This package is currently the only package that supports a Bernoulli distribution, a Multinomial distribution, and a Gaussian distribution, making it suitable for both binary features, frequency counts, and numerical features. Another feature is the support of a mix of different event models. Only numerical variables are allowed, however, categorical variables can be transformed into dummies and used with the Bernoulli distribution. The implementation is largely based on the paper ``A comparison of event models for Naive Bayes anti-spam e-mail filtering'' written by K.M. Schneider (2003) <doi:10.3115/1067807.1067848>. Any issues can be submitted to: <https://github.com/mskogholt/fastNaiveBayes/issues>.

Depends R (>= 3.2.0)

License GPL-3

Encoding UTF-8

URL https://github.com/mskogholt/fastNaiveBayes

BugReports https://github.com/mskogholt/fastNaiveBayes/issues

LazyData TRUE

Imports Matrix, stats

Suggests knitr, rmarkdown, testthat

RoxygenNote 7.1.0

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

Date/Publication 2020-05-04 10:50:02 UTC

Contents

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fastNaiveBayes *Fast Naive Bayes Classifier for different Distributions*

Description

Extremely fast implementation of a Naive Bayes Classifier.

A Naive Bayes classifier that assumes independence between the feature variables. Currently, either a Bernoulli, multinomial, or Gaussian distribution can be used. The bernoulli distribution should be used when the features are 0 or 1 to indicate the presence or absence of the feature in each document. The multinomial distribution should be used when the features are the frequency that the feature occurs in each document. Finally, the Gaussian distribution should be used with numerical variables. The distribution parameter is used to mix different distributions for different columns in the input matrix

Use fastNaiveBayes(...) or fnb.train(...) for a mixed event distribution model. fnb.bernoulli, fnb.multinomial, fnb.gaussian and for the specific distributions

Usage

```
fastNaiveBayes(
  x,
  y,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)

## Default S3 method:
fastNaiveBayes(
  x,
  y,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
```

```
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)

fnb.bernoulli(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)

## Default S3 method:
fnb.bernoulli(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)

fnb.gaussian(x, y, priors = NULL, sparse = FALSE, check = TRUE)

## Default S3 method:
fnb.gaussian(x, y, priors = NULL, sparse = FALSE, check = TRUE)

fnb.multinomial(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)

## Default S3 method:
fnb.multinomial(x, y, priors = NULL, laplace = 0, sparse = FALSE, check = TRUE)

fnb.poisson(x, y, priors = NULL, sparse = FALSE, check = TRUE)

## Default S3 method:
fnb.poisson(x, y, priors = NULL, sparse = FALSE, check = TRUE)

fnb.train(
  x,
  y,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)

## Default S3 method:
fnb.train(
  x,
  y,
  priors = NULL,
  laplace = 0,
  sparse = FALSE,
  check = TRUE,
  distribution = fnb.detect_distribution(x)
)
```

Arguments

x   a numeric matrix, or a dgcMatrix. For bernoulli should only contain 0's and 1's.
                  For multinomial should only contain integers.

y	a factor of classes to classify
priors	a numeric vector with the priors. If left empty the priors will be determined by the relative frequency of the classes in the data
laplace	A number used for Laplace smoothing. Default is 0
sparse	Use a sparse matrix? If true a sparse matrix will be constructed from x. It's possible to directly feed a sparse dgcMatrix as x, which will set this parameter to TRUE
check	Whether to enable formal checks on input. Recommended to set to TRUE. Set to FALSE will make it faster, but at your own risk.
distribution	A list with distribution names and column names for which to use the distribution, see examples.

Details

fastNaiveBayes(...) will convert non numeric columns to one hot encoded features to use with the Bernoulli event model. NA's in x will be set to 0 by default and observations with NA in y will be removed.

The distribution that is used for each feature is determined by a set of rules: - if the column only contains 0's and 1's a Bernoulli event model will be used - if the column only contains whole numbers a Multinomial event model will be used - if none of the above a Gaussian event model will be used.

By setting sparse = TRUE the numeric matrix x will be converted to a sparse dgcMatrix. This can be considerably faster in case few observations have a value different than 0.

It's also possible to directly supply a sparse dgcMatrix, which can be a lot faster in case a fastNaiveBayes model is trained multiple times on the same matrix or a subset of this. See examples for more details. Bear in mind that converting to a sparse matrix can actually be slower depending on the data.

Value

A fitted object of class "fastNaiveBayes". It has four components:

model Fitted fastNaiveBayes model

names Names of features used to train this fastNaiveBayes model

distribution Distribution used for each column of x

levels Levels of y

See Also

predict.fastNaiveBayes for the predict function for the fastNaiveBayes model.

Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
```

```
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]

mod <- fastNaiveBayes(x, y, laplace = 1)

pred <- predict(mod, newdata = x)
mean(y!=pred)

mod <- fnb.train(x, y, laplace = 1)

pred <- predict(mod, newdata = x)
mean(y!=pred)

dist <- fnb.detect_distribution(x)

bern <- fnb.bernoulli(x[,dist$bernoulli], y, laplace = 1)
pred <- predict(bern, x[,dist$bernoulli])
mean(y!=pred)

mult <- fnb.multinomial(x[,dist$multinomial], y, laplace = 1)
pred <- predict(mult, x[,dist$multinomial])
mean(y!=pred)

gauss <- fnb.gaussian(x[,dist$gaussian], y)
pred <- predict(gauss, x[,dist$gaussian])
mean(y!=pred)
```

```
fnb.detect_distribution
```
Distribution Detection Function

Description

Determines which distribution to use for which columns in the matrix based on a set of rules.

Usage

```
fnb.detect_distribution(x, nrows = nrow(x))

## Default S3 method:
fnb.detect_distribution(x, nrows = nrow(x))
```

Arguments

x	a numeric matrix, or a dgcMatrix
nrows	number of rows to use to detect distributions

Details

A simple utility function to detect the distribution to use for each columns

Value

A list of distribution names mapped to column names

Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[, 2:ncol(cars)]

# Uses default of all rows to determine distributions
dist <- fnb.detect_distribution(x)
print(dist)

# Uses top 10 rows of x to determine distributions. If top 10 rows
# are representative this is can be much faster.
dist <- fnb.detect_distribution(x, nrows = 10)
print(dist)
```

---

fnb.save   *Save & Load Function for Fast Naive Bayes Models*

Description

Loads and saves fitted Naive Bayes models.

Usage

```
fnb.save(model, filename, overwrite = FALSE)

## Default S3 method:
fnb.save(model, filename, overwrite = FALSE)

fnb.load(filename)

## Default S3 method:
fnb.load(filename)
```

Arguments

model	the fitted Naive Bayes model to save.
filename	the file name to use to save or load the model.
overwrite	Whether to allow overwriting of previously saved models.

Value

fnb.save returns the filename that was used, and fnb.load returns the saved object.

Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]

mod <- fastNaiveBayes(x, y, laplace = 1)
fnb.save(mod, "fastNaiveBayesModel")
mod2 <- fnb.load("fastNaiveBayesModel")
identical(mod, mod2)
file.remove("fastNaiveBayesModel")
```

---

  fnb.update   *Update function*

Description

Update function

Usage

```
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## Default S3 method:
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## S3 method for class 'fnb.bernoulli'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## S3 method for class 'fnb.multinomial'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## S3 method for class 'fnb.gaussian'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## S3 method for class 'fnb.poisson'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)

## S3 method for class 'fastNaiveBayes'
fnb.update(object, x, y, sparse = FALSE, check = TRUE)
```

Arguments

object	fitted model
x	numeric matrix
y	factor of classes
sparse	boolean, set to true to use sparse matrices
check	boolean, set to true to enable formal checks on input

---

predict.fnb.bernoulli *Predict Method for fastNaiveBayes fits*

Description

Uses a fastNaiveBayes model and a new data set to create the classifications. This can either be the raw probabilities generated by the fastNaiveBayes model or the classes themselves.

Usage

```
## S3 method for class 'fnb.bernoulli'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
  ...
)

## S3 method for class 'fnb.gaussian'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
  ...
)

## S3 method for class 'fnb.multinomial'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
```

```
    threshold = .Machine$double.eps,
    check = TRUE,
    ...
)

## S3 method for class 'fnb.poisson'
predict(
  object,
  newdata,
  type = c("class", "raw", "rawprob"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
  ...
)

## S3 method for class 'fastNaiveBayes'
predict(
  object,
  newdata,
  type = c("class", "raw"),
  sparse = FALSE,
  threshold = .Machine$double.eps,
  check = TRUE,
  ...
)
```

Arguments

object	A fitted object of class "fnb.bernoulli", "fnb.gaussian", "fnb.multinomial" or "fastNaiveBayes".
newdata	A numeric matrix. A Sparse dgcMatrix is also accepted. Note: if fnb.naiveBayes or fnb.gaussian or fnb.train was used to create the model, then if newdata contains features that were not encountered in the training data, these are omitted from the prediction. Furthermore, newdata can contain fewer features than encountered in the training data. In this case, newdata will be padded with extra columns all filled with 0's.
type	If "raw", the conditional a-posterior probabilities for each class are returned, and the class with maximal probability else.
sparse	Use a sparse matrix? If true a sparse matrix will be constructed from x. It's possible to directly feed a sparse dgcMatrix as x, which will set this parameter to TRUE
threshold	A threshold for the minimum probability. For Bernoulli and Multinomial event models Laplace smoothing should solve this, but in the case of Gaussian event models, this ensures numerical probabilities.
check	Whether to perform formal checks on the input. Set to false, if this is not necessary and speed is of the essence
...	not used

Value

If type = 'class', a factor with classified class levels. If type = 'raw', a matrix with the predicted probabilities of each class, where each column in the matrix corresponds to a class level.

See Also

[fastNaiveBayes](#) for the fastNaiveBayes model

---

tweets	*This data originally came from Crowdflower's Data for Everyone library.*

Description

As the original source says,

Usage

```
tweets
```

Format

A data frame with 14640 rows and 2 columns

airline_sentiment sentiment, as either 'negative','neutral','positive'

text raw text, character

Details

"A sentiment analysis job about the problems of each major U.S. airline. Twitter data was scraped from February of 2015 and contributors were asked to first classify positive, negative, and neutral tweets, followed by categorizing negative reasons (such as "late flight" or "rude service")."

The data provided here is an altered version of the original source.

Source

https://www.figure-eight.com/data-for-everyone/

---

tweetsDTM   *This data originally came from Crowdflower's Data for Everyone library.*

Description

As the original source says,

Usage

```
tweetsDTM
```

Format

A data frame with 14640 rows and 2186 columns

airline_sentiment sentiment, as either 'negative','neutral','positive'

said Frequency count, numeric

virginamerica Frequency count, numeric

commerci Frequency count, numeric

experi Frequency count, numeric

plus Frequency count, numeric

anoth Frequency count, numeric

mean Frequency count, numeric

must Frequency count, numeric

need Frequency count, numeric

take Frequency count, numeric

today Frequency count, numeric

trip Frequency count, numeric

amp Frequency count, numeric

blast Frequency count, numeric

entertain Frequency count, numeric

face Frequency count, numeric

guest Frequency count, numeric

littl Frequency count, numeric

realli Frequency count, numeric

recours Frequency count, numeric

bad Frequency count, numeric

big Frequency count, numeric

thing Frequency count, numeric

fli Frequency count, numeric

flight Frequency count, numeric

pay Frequency count, numeric

play Frequency count, numeric

seat Frequency count, numeric

serious Frequency count, numeric

away Frequency count, numeric

everi Frequency count, numeric

near Frequency count, numeric

time Frequency count, numeric

wonut Frequency count, numeric

yes Frequency count, numeric

hat Frequency count, numeric

miss Frequency count, numeric

opportun Frequency count, numeric

without Frequency count, numeric

now Frequency count, numeric

well Frequency count, numeric

amaz Frequency count, numeric

arriv Frequency count, numeric

earli Frequency count, numeric

good Frequency count, numeric

hour Frequency count, numeric

among Frequency count, numeric

caus Frequency count, numeric

death Frequency count, numeric

know Frequency count, numeric

lead Frequency count, numeric

second Frequency count, numeric

suicid Frequency count, numeric

teen Frequency count, numeric

better Frequency count, numeric

much Frequency count, numeric

pretti Frequency count, numeric

alreadi Frequency count, numeric

australia Frequency count, numeric

deal Frequency count, numeric

even Frequency count, numeric

gone Frequency count, numeric

great Frequency count, numeric

think Frequency count, numeric

yet Frequency count, numeric

fabul Frequency count, numeric

sky Frequency count, numeric

stress Frequency count, numeric

travel Frequency count, numeric

thank Frequency count, numeric

mia Frequency count, numeric

schedul Frequency count, numeric

still Frequency count, numeric

america Frequency count, numeric

countri Frequency count, numeric

cross Frequency count, numeric

excit Frequency count, numeric

first Frequency count, numeric

heard Frequency count, numeric

lax Frequency count, numeric

mco Frequency count, numeric

noth Frequency count, numeric

virgin Frequency count, numeric

due Frequency count, numeric

either Frequency count, numeric

flew Frequency count, numeric

fulli Frequency count, numeric

help Frequency count, numeric

larg Frequency count, numeric

last Frequency count, numeric

nyc Frequency count, numeric

sfo Frequency count, numeric

side Frequency count, numeric

sit Frequency count, numeric

two Frequency count, numeric

week Frequency count, numeric

cent Frequency count, numeric

uuo Frequency count, numeric

awesom Frequency count, numeric

pleas Frequency count, numeric

want Frequency count, numeric

avail Frequency count, numeric

carrier Frequency count, numeric

fare Frequency count, numeric

may Frequency count, numeric

select Frequency count, numeric

three Frequency count, numeric

love Frequency count, numeric

brand Frequency count, numeric

feel Frequency count, numeric

anytim Frequency count, numeric

make Frequency count, numeric

non Frequency count, numeric

soon Frequency count, numeric

stop Frequency count, numeric

will Frequency count, numeric

free Frequency count, numeric

friend Frequency count, numeric

gave Frequency count, numeric

guy Frequency count, numeric

internet Frequency count, numeric

mess Frequency count, numeric

reserv Frequency count, numeric

appli Frequency count, numeric

call Frequency count, numeric

email Frequency count, numeric

match Frequency count, numeric

program Frequency count, numeric

respons Frequency count, numeric

status Frequency count, numeric

abl Frequency count, numeric

anyth Frequency count, numeric

eat Frequency count, numeric

fail Frequency count, numeric

food Frequency count, numeric

happen Frequency count, numeric

hrs Frequency count, numeric

least Frequency count, numeric

next Frequency count, numeric

option Frequency count, numeric

say Frequency count, numeric

site Frequency count, numeric

togeth Frequency count, numeric

worri Frequency count, numeric

air Frequency count, numeric

cold Frequency count, numeric

get Frequency count, numeric

ewr Frequency count, numeric

eye Frequency count, numeric

middl Frequency count, numeric

red Frequency count, numeric

add Frequency count, numeric

birthday Frequency count, numeric

book Frequency count, numeric

cool Frequency count, numeric

elev Frequency count, numeric

enter Frequency count, numeric

just Frequency count, numeric

name Frequency count, numeric

problem Frequency count, numeric

club Frequency count, numeric

current Frequency count, numeric

onlin Frequency count, numeric

oper Frequency count, numeric

post Frequency count, numeric

answer Frequency count, numeric

expens Frequency count, numeric

headphon Frequency count, numeric

iad Frequency count, numeric

left Frequency count, numeric

number Frequency count, numeric

one Frequency count, numeric

await Frequency count, numeric

phone Frequency count, numeric

prefer Frequency count, numeric

return Frequency count, numeric

use Frequency count, numeric

end Frequency count, numeric

hawaii Frequency count, numeric

news Frequency count, numeric

start Frequency count, numeric

via Frequency count, numeric

year Frequency count, numeric

nice Frequency count, numeric

takeoff Frequency count, numeric

touchdown Frequency count, numeric

best Frequency count, numeric

ever Frequency count, numeric

way Frequency count, numeric

airlin Frequency count, numeric

around Frequency count, numeric

done Frequency count, numeric

hand Frequency count, numeric

can Frequency count, numeric

chat Frequency count, numeric

support Frequency count, numeric

work Frequency count, numeric

angel Frequency count, numeric

beyond Frequency count, numeric

sign Frequency count, numeric

view Frequency count, numeric

account Frequency count, numeric

flyer Frequency count, numeric

hard Frequency count, numeric

hey Frequency count, numeric

plz Frequency count, numeric

upgrad Frequency count, numeric

win Frequency count, numeric

citi Frequency count, numeric

expir Frequency count, numeric

move Frequency count, numeric

new Frequency count, numeric

ticket Frequency count, numeric

unus Frequency count, numeric

dalla Frequency count, numeric

feb Frequency count, numeric

leav Frequency count, numeric

seattl Frequency count, numeric

reason Frequency count, numeric

rock Frequency count, numeric

dream Frequency count, numeric

mind Frequency count, numeric

wow Frequency count, numeric

agre Frequency count, numeric

carrieunderwood Frequency count, numeric

ladygaga Frequency count, numeric

night Frequency count, numeric

oscar Frequency count, numeric

ago Frequency count, numeric

minut Frequency count, numeric

show Frequency count, numeric

suppos Frequency count, numeric

websit Frequency count, numeric

andrew Frequency count, numeric

impress Frequency count, numeric

juli Frequency count, numeric

though Frequency count, numeric

atlanta Frequency count, numeric

wish Frequency count, numeric

februari Frequency count, numeric

load Frequency count, numeric

never Frequency count, numeric

page Frequency count, numeric

sinc Frequency count, numeric

thx Frequency count, numeric

tri Frequency count, numeric

stat Frequency count, numeric

ladi Frequency count, numeric

carri Frequency count, numeric

let Frequency count, numeric

market Frequency count, numeric

song Frequency count, numeric

shown Frequency count, numeric

mari Frequency count, numeric

sorri Frequency count, numeric

beat Frequency count, numeric

check Frequency count, numeric

dal Frequency count, numeric

dca Frequency count, numeric

someon Frequency count, numeric

earlier Frequency count, numeric

hold Frequency count, numeric

tonight Frequency count, numeric

award Frequency count, numeric

congrat Frequency count, numeric

bag Frequency count, numeric

everyth Frequency count, numeric

fine Frequency count, numeric

lost Frequency count, numeric

card Frequency count, numeric

chang Frequency count, numeric

credit Frequency count, numeric

fee Frequency count, numeric

waiv Frequency count, numeric

custom Frequency count, numeric

servic Frequency count, numeric

team Frequency count, numeric

track Frequency count, numeric

baggag Frequency count, numeric

dirti Frequency count, numeric

floor Frequency count, numeric

game Frequency count, numeric

step Frequency count, numeric

tabl Frequency count, numeric

crew Frequency count, numeric

like Frequency count, numeric

plane Frequency count, numeric

ride Frequency count, numeric

bill Frequency count, numeric

correct Frequency count, numeric

morn Frequency count, numeric

sat Frequency count, numeric

yall Frequency count, numeric

feet Frequency count, numeric

film Frequency count, numeric

student Frequency count, numeric

watch Frequency count, numeric

differ Frequency count, numeric

media Frequency count, numeric

anyway Frequency count, numeric

asap Frequency count, numeric

human Frequency count, numeric

speak Frequency count, numeric

biz Frequency count, numeric

jetblu Frequency count, numeric

southwestair Frequency count, numeric

inflight Frequency count, numeric

interest Frequency count, numeric

member Frequency count, numeric

delay Frequency count, numeric

late Frequency count, numeric

whenev Frequency count, numeric

cancel Frequency count, numeric

four Frequency count, numeric

busi Frequency count, numeric

disappoint Frequency count, numeric

meet Frequency count, numeric

share Frequency count, numeric

ium Frequency count, numeric

troubl Frequency count, numeric

wife Frequency count, numeric

bring Frequency count, numeric

code Frequency count, numeric

bet Frequency count, numeric

random Frequency count, numeric

home Frequency count, numeric

life Frequency count, numeric

back Frequency count, numeric

yeah Frequency count, numeric

point Frequency count, numeric

recent Frequency count, numeric

flightl Frequency count, numeric

jfk Frequency count, numeric

saturday Frequency count, numeric

video Frequency count, numeric

went Frequency count, numeric

land Frequency count, numeric

redirect Frequency count, numeric

btw Frequency count, numeric

user Frequency count, numeric

desktop Frequency count, numeric

mobil Frequency count, numeric

bin Frequency count, numeric

class Frequency count, numeric

passeng Frequency count, numeric

remov Frequency count, numeric

scan Frequency count, numeric

told Frequency count, numeric

uncomfort Frequency count, numeric

find Frequency count, numeric

anyon Frequency count, numeric

useless Frequency count, numeric

boy Frequency count, numeric

thursday Frequency count, numeric

appoint Frequency count, numeric

music Frequency count, numeric

bought Frequency count, numeric

direct Frequency count, numeric

fuel Frequency count, numeric

layov Frequency count, numeric

unexpect Frequency count, numeric

vega Frequency count, numeric

exp Frequency count, numeric

peopl Frequency count, numeric

customerservic Frequency count, numeric

uouo Frequency count, numeric

hung Frequency count, numeric

line Frequency count, numeric

sarcasm Frequency count, numeric

info Frequency count, numeric

plain Frequency count, numeric

text Frequency count, numeric

version Frequency count, numeric

look Frequency count, numeric

weather Frequency count, numeric

getaway Frequency count, numeric

lot Frequency count, numeric

oneway Frequency count, numeric

uiio Frequency count, numeric

come Frequency count, numeric

horribl Frequency count, numeric

phl Frequency count, numeric

concern Frequency count, numeric

tech Frequency count, numeric

comfort Frequency count, numeric

easi Frequency count, numeric

flown Frequency count, numeric

repres Frequency count, numeric

beauti Frequency count, numeric

kick Frequency count, numeric

rep Frequency count, numeric

design Frequency count, numeric

right Frequency count, numeric

secur Frequency count, numeric

gate Frequency count, numeric

kept Frequency count, numeric

las Frequency count, numeric

run Frequency count, numeric

wait Frequency count, numeric

browser Frequency count, numeric

folk Frequency count, numeric

total Frequency count, numeric

connect Frequency count, numeric

long Frequency count, numeric

min Frequency count, numeric

seem Frequency count, numeric

francisco Frequency count, numeric

outstand Frequency count, numeric

san Frequency count, numeric

absolut Frequency count, numeric

delight Frequency count, numeric

complimentari Frequency count, numeric

provid Frequency count, numeric

intern Frequency count, numeric

that Frequency count, numeric

complet Frequency count, numeric

depart Frequency count, numeric

month Frequency count, numeric

nonstop Frequency count, numeric

link Frequency count, numeric

precheck Frequency count, numeric

process Frequency count, numeric

tsa Frequency count, numeric

hotel Frequency count, numeric

terribl Frequency count, numeric

cabo Frequency count, numeric

assist Frequency count, numeric

give Frequency count, numeric

shame Frequency count, numeric

yesterday Frequency count, numeric

advis Frequency count, numeric

dog Frequency count, numeric

dull Frequency count, numeric

longer Frequency count, numeric

pls Frequency count, numeric

queue Frequency count, numeric

regist Frequency count, numeric

redcarpet Frequency count, numeric

drop Frequency count, numeric

alway Frequency count, numeric

buy Frequency count, numeric

creat Frequency count, numeric

frustrat Frequency count, numeric

afford Frequency count, numeric

buck Frequency count, numeric

extra Frequency count, numeric

hire Frequency count, numeric

lame Frequency count, numeric

luggag Frequency count, numeric

might Frequency count, numeric

cake Frequency count, numeric

world Frequency count, numeric

flt Frequency count, numeric

midnight Frequency count, numeric

monday Frequency count, numeric

sooner Frequency count, numeric

cant Frequency count, numeric

imagin Frequency count, numeric

indic Frequency count, numeric

web Frequency count, numeric

ran Frequency count, numeric

staff Frequency count, numeric

super Frequency count, numeric

across Frequency count, numeric

offer Frequency count, numeric

paid Frequency count, numeric

premium Frequency count, numeric

sad Frequency count, numeric

infant Frequency count, numeric

possibl Frequency count, numeric

question Frequency count, numeric

welcom Frequency count, numeric

refresh Frequency count, numeric

damag Frequency count, numeric

polici Frequency count, numeric

understand Frequency count, numeric

destroy Frequency count, numeric

alon Frequency count, numeric

board Frequency count, numeric

kid Frequency count, numeric

prioriti Frequency count, numeric

special Frequency count, numeric

happi Frequency count, numeric

purchas Frequency count, numeric

definit Frequency count, numeric

field Frequency count, numeric

dfw Frequency count, numeric

lga Frequency count, numeric

driver Frequency count, numeric

friday Frequency count, numeric

licens Frequency count, numeric

contact Frequency count, numeric

error Frequency count, numeric

keep Frequency count, numeric

button Frequency count, numeric

reschedul Frequency count, numeric

fix Frequency count, numeric

rang Frequency count, numeric

got Frequency count, numeric

tomorrow Frequency count, numeric

unaccept Frequency count, numeric

stuck Frequency count, numeric

includ Frequency count, numeric

pair Frequency count, numeric

white Frequency count, numeric

wine Frequency count, numeric

agent Frequency count, numeric

close Frequency count, numeric

dullesairport Frequency count, numeric

silver Frequency count, numeric

austin Frequency count, numeric

plan Frequency count, numeric

rout Frequency count, numeric

central Frequency count, numeric

normal Frequency count, numeric

receiv Frequency count, numeric

repli Frequency count, numeric

smh Frequency count, numeric

airport Frequency count, numeric

checkin Frequency count, numeric

desk Frequency count, numeric

logan Frequency count, numeric

open Frequency count, numeric

jump Frequency count, numeric

daili Frequency count, numeric

luv Frequency count, numeric

april Frequency count, numeric

begin Frequency count, numeric

fuck Frequency count, numeric

unit Frequency count, numeric

follow Frequency count, numeric

apolog Frequency count, numeric

mani Frequency count, numeric

respond Frequency count, numeric

wors Frequency count, numeric

money Frequency count, numeric

reimburs Frequency count, numeric

spend Frequency count, numeric

strand Frequency count, numeric

choic Frequency count, numeric

sjc Frequency count, numeric

southwest Frequency count, numeric

claim Frequency count, numeric

confirm Frequency count, numeric

day Frequency count, numeric

inquir Frequency count, numeric

bos Frequency count, numeric

notif Frequency count, numeric

rebook Frequency count, numeric

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Details

"A sentiment analysis job about the problems of each major U.S. airline. Twitter data was scraped from February of 2015 and contributors were asked to first classify positive, negative, and neutral tweets, followed by categorizing negative reasons (such as "late flight" or "rude service")."

The data provided here is an altered and cleaned version version of the original source.

Source

https://www.figure-eight.com/data-for-everyone/

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