

Package ‘fastNaiveBayes’

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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

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fastNaiveBayes	<i>Fast Naive Bayes Classifier for different Distributions</i>
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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 dgMatrix 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 dgMatrix. This can be considerably faster in case few observations have a value different than 0.

It's also possible to directly supply a sparse dgMatrix, which can be a lot faster in case a fastNaive-Bayes 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(iffelse(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, nrow = 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	<i>Update function</i>
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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	<i>This data originally came from Crowdfunder's Data for Everyone library.</i>
--------	--

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	<i>This data originally came from Crowdflower's Data for Everyone library.</i>
-----------	--

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
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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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