Package: fastNaiveBayes (via r-universe)

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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:

<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

Repository https://mskogholt.r-universe.dev

RemoteUrl https://github.com/mskogholt/fastnaivebayes

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RemoteRef HEAD

RemoteSha cfd4c8f092bd21f6fae9d4321fb100b165a72e4f

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Description

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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

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

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

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Arguments

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

fnb.detect_distribution 5

Examples

```
rm(list = ls())
library(fastNaiveBayes)
cars <- mtcars
y <- as.factor(ifelse(cars$mpg > 25, "High", "Low"))
x <- cars[,2:ncol(cars)]</pre>
mod <- fastNaiveBayes(x, y, laplace = 1)</pre>
pred <- predict(mod, newdata = x)</pre>
mean(y!=pred)
mod <- fnb.train(x, y, laplace = 1)</pre>
pred <- predict(mod, newdata = x)</pre>
mean(y!=pred)
dist <- fnb.detect_distribution(x)</pre>
bern <- fnb.bernoulli(x[,dist$bernoulli], y, laplace = 1)</pre>
pred <- predict(bern, x[,dist$bernoulli])</pre>
mean(y!=pred)
mult <- fnb.multinomial(x[,dist$multinomial], y, laplace = 1)</pre>
pred <- predict(mult, x[,dist$multinomial])</pre>
mean(y!=pred)
gauss <- fnb.gaussian(x[,dist$gaussian], y)</pre>
pred <- predict(gauss, x[,dist$gaussian])</pre>
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.

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

6 fnb.save

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)</pre>
```

fnb.save

Save & Load Function for Fast Naive Bayes Models

Description

Loads and saves fitted Naive Bayes models.

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

fnb.update 7

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")</pre>
```

fnb.update

Update function

Description

Update function

```
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)
```

8 predict.fnb.bernoulli

```
## 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.

```
## 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,
)
```

predict.fnb.bernoulli 9

```
## 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

10 tweets

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 neces-

sary 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.
	orally.

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 met Frequency count, numeric gold Frequency count, numeric cmh Frequency count, numeric see Frequency count, numeric worst Frequency count, numeric stuff Frequency count, numeric wrong Frequency count, numeric head Frequency count, numeric issu Frequency count, numeric item Frequency count, numeric americanairlin Frequency count, numeric lose Frequency count, numeric suck Frequency count, numeric dmd Frequency count, numeric drive Frequency count, numeric flightlat Frequency count, numeric mon Frequency count, numeric notic Frequency count, numeric **boston** Frequency count, numeric abil Frequency count, numeric expect Frequency count, numeric stink Frequency count, numeric danc Frequency count, numeric high Frequency count, numeric school Frequency count, numeric appar Frequency count, numeric faster Frequency count, numeric quick Frequency count, numeric nervous Frequency count, numeric

sent Frequency count, numeric pictur Frequency count, numeric wing Frequency count, numeric crisi Frequency count, numeric pressur Frequency count, numeric texa Frequency count, numeric **job** Frequency count, numeric pilot Frequency count, numeric snow Frequency count, numeric afternoon Frequency count, numeric area Frequency count, numeric york Frequency count, numeric mention Frequency count, numeric reclin Frequency count, numeric row Frequency count, numeric drink Frequency count, numeric handl Frequency count, numeric mechan Frequency count, numeric scare Frequency count, numeric kill Frequency count, numeric twitter Frequency count, numeric charg Frequency count, numeric refund Frequency count, numeric refus Frequency count, numeric access Frequency count, numeric canut Frequency count, numeric ipad Frequency count, numeric iphon Frequency count, numeric passbook Frequency count, numeric click Frequency count, numeric broken Frequency count, numeric forward Frequency count, numeric sec Frequency count, numeric cost Frequency count, numeric **ugh** Frequency count, numeric along Frequency count, numeric pdx Frequency count, numeric

put Frequency count, numeric **gonna** Frequency count, numeric bug Frequency count, numeric itus Frequency count, numeric report Frequency count, numeric bit Frequency count, numeric center Frequency count, numeric attend Frequency count, numeric **password** Frequency count, numeric reset Frequency count, numeric base Frequency count, numeric disrupt Frequency count, numeric someth Frequency count, numeric departur Frequency count, numeric palm Frequency count, numeric spring Frequency count, numeric fun Frequency count, numeric sound Frequency count, numeric updat Frequency count, numeric count Frequency count, numeric somehow Frequency count, numeric continu Frequency count, numeric sort Frequency count, numeric sweet Frequency count, numeric coffe Frequency count, numeric ice Frequency count, numeric assault Frequency count, numeric file Frequency count, numeric trust Frequency count, numeric destin Frequency count, numeric sever Frequency count, numeric wheel Frequency count, numeric itinerari Frequency count, numeric **abq** Frequency count, numeric becom Frequency count, numeric event Frequency count, numeric girl Frequency count, numeric

inspir Frequency count, numeric march Frequency count, numeric entir Frequency count, numeric improv Frequency count, numeric request Frequency count, numeric treat Frequency count, numeric window Frequency count, numeric grand Frequency count, numeric exhaust Frequency count, numeric flier Frequency count, numeric frequent Frequency count, numeric inconveni Frequency count, numeric purpos Frequency count, numeric wtf Frequency count, numeric full Frequency count, numeric boo Frequency count, numeric **place** Frequency count, numeric result Frequency count, numeric usa Frequency count, numeric instead Frequency count, numeric pillow Frequency count, numeric race Frequency count, numeric advantag Frequency count, numeric fight Frequency count, numeric salt Frequency count, numeric behind Frequency count, numeric cabin Frequency count, numeric fav Frequency count, numeric hot Frequency count, numeric pari Frequency count, numeric uio Frequency count, numeric surgeri Frequency count, numeric tell Frequency count, numeric suitcas Frequency count, numeric past Frequency count, numeric order Frequency count, numeric regul Frequency count, numeric

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battl Frequency count, numeric old Frequency count, numeric treatment Frequency count, numeric uou Frequency count, numeric **urgent** Frequency count, numeric half Frequency count, numeric less Frequency count, numeric **price** Frequency count, numeric round Frequency count, numeric stun Frequency count, numeric dtw Frequency count, numeric sold Frequency count, numeric promo Frequency count, numeric made Frequency count, numeric paperwork Frequency count, numeric promis Frequency count, numeric resolut Frequency count, numeric perform Frequency count, numeric care Frequency count, numeric challeng Frequency count, numeric mileag Frequency count, numeric ball Frequency count, numeric americanair Frequency count, numeric gma Frequency count, numeric glad Frequency count, numeric took Frequency count, numeric earn Frequency count, numeric cheer Frequency count, numeric coupl Frequency count, numeric messag Frequency count, numeric easili Frequency count, numeric smooth Frequency count, numeric empti Frequency count, numeric forc Frequency count, numeric small Frequency count, numeric space Frequency count, numeric slow Frequency count, numeric

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integr Frequency count, numeric mexico Frequency count, numeric paper Frequency count, numeric wast Frequency count, numeric accept Frequency count, numeric system Frequency count, numeric black Frequency count, numeric tea Frequency count, numeric spread Frequency count, numeric learn Frequency count, numeric experienc Frequency count, numeric incred Frequency count, numeric philadelphia Frequency count, numeric houston Frequency count, numeric final Frequency count, numeric avgeek Frequency count, numeric forget Frequency count, numeric futur Frequency count, numeric jack Frequency count, numeric kinda Frequency count, numeric diego Frequency count, numeric malfunct Frequency count, numeric **poor** Frequency count, numeric thankyou Frequency count, numeric jose Frequency count, numeric compet Frequency count, numeric excel Frequency count, numeric portland Frequency count, numeric addit Frequency count, numeric thur Frequency count, numeric uau Frequency count, numeric carryon Frequency count, numeric **lock** Frequency count, numeric group Frequency count, numeric **room** Frequency count, numeric nightmar Frequency count, numeric classi Frequency count, numeric

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ohar Frequency count, numeric reinstat Frequency count, numeric offic Frequency count, numeric attach Frequency count, numeric **photo** Frequency count, numeric damn Frequency count, numeric canada Frequency count, numeric yvr Frequency count, numeric divert Frequency count, numeric msi Frequency count, numeric canadian Frequency count, numeric male Frequency count, numeric pic Frequency count, numeric threaten Frequency count, numeric yell Frequency count, numeric tho Frequency count, numeric **frm** Frequency count, numeric reflight Frequency count, numeric sea Frequency count, numeric connector Frequency count, numeric gross Frequency count, numeric exampl Frequency count, numeric statement Frequency count, numeric otherwis Frequency count, numeric stood Frequency count, numeric inadequ Frequency count, numeric unfriendlyski Frequency count, numeric seen Frequency count, numeric singl Frequency count, numeric locat Frequency count, numeric boyfriend Frequency count, numeric gotta Frequency count, numeric stolen Frequency count, numeric wallet Frequency count, numeric til Frequency count, numeric repair Frequency count, numeric tuesday 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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