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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VignetteBuilder knitr

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

fastNaiveBayes

```
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)
)
```

Arguments

Х

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 distribu- tion, 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.

Examples

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

fnb.detect_distribution

```
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.

Usage

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

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

Arguments

х	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.

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.

fnb.update

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

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 '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
х	numeric matrix
У	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 con- tains features that were not encountered in the training data, these are omitted from the prediction. Furthermore, newdata can contain fewer features than en- countered 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 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 li-
	brary.

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/

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

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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

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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

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atlant Frequency count, numeric benefit Frequency count, numeric virginatlant Frequency count, numeric came Frequency count, numeric husband Frequency count, numeric screen Frequency count, numeric bare Frequency count, numeric light Frequency count, numeric turbul Frequency count, numeric profit Frequency count, numeric funni Frequency count, numeric stori Frequency count, numeric forecast Frequency count, numeric nytim Frequency count, numeric applic Frequency count, numeric flylaxairport Frequency count, numeric **posit** Frequency count, numeric wonder Frequency count, numeric despit Frequency count, numeric revenu Frequency count, numeric competit Frequency count, numeric increas Frequency count, numeric sos Frequency count, numeric degre Frequency count, numeric wind Frequency count, numeric safeti Frequency count, numeric wanna Frequency count, numeric hope Frequency count, numeric newark Frequency count, numeric inappropri Frequency count, numeric probabl Frequency count, numeric save Frequency count, numeric standbi Frequency count, numeric comp Frequency count, numeric brought Frequency count, numeric readi Frequency count, numeric manag Frequency count, numeric

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

loyal Frequency count, numeric solut Frequency count, numeric spoke Frequency count, numeric jacket Frequency count, numeric convers Frequency count, numeric method Frequency count, numeric partner Frequency count, numeric payment Frequency count, numeric rate Frequency count, numeric visa Frequency count, numeric promot Frequency count, numeric recommend Frequency count, numeric aus Frequency count, numeric turn Frequency count, numeric cours Frequency count, numeric famili Frequency count, numeric receipt Frequency count, numeric badg Frequency count, numeric superior Frequency count, numeric standard Frequency count, numeric pick Frequency count, numeric tweet Frequency count, numeric car Frequency count, numeric rental Frequency count, numeric child Frequency count, numeric cust Frequency count, numeric lap Frequency count, numeric chanc Frequency count, numeric gift Frequency count, numeric bank Frequency count, numeric constant Frequency count, numeric joke Frequency count, numeric also Frequency count, numeric bday Frequency count, numeric eastern Frequency count, numeric ella Frequency count, numeric grandma 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

strong Frequency count, numeric sure Frequency count, numeric shit Frequency count, numeric bump Frequency count, numeric luckili Frequency count, numeric rough Frequency count, numeric perfect Frequency count, numeric rais Frequency count, numeric stay Frequency count, numeric sun Frequency count, numeric man Frequency count, numeric wifi Frequency count, numeric donut Frequency count, numeric iull Frequency count, numeric saw Frequency count, numeric **dad** Frequency count, numeric part Frequency count, numeric whole Frequency count, numeric europ Frequency count, numeric short Frequency count, numeric abc Frequency count, numeric overhead Frequency count, numeric person Frequency count, numeric ask Frequency count, numeric luck Frequency count, numeric accommod Frequency count, numeric dear Frequency count, numeric lol Frequency count, numeric actual Frequency count, numeric other Frequency count, numeric serv Frequency count, numeric affect Frequency count, numeric shock Frequency count, numeric storm Frequency count, numeric umm Frequency count, numeric advanc Frequency count, numeric cut Frequency count, numeric

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knew Frequency count, numeric negoti Frequency count, numeric winter Frequency count, numeric coat Frequency count, numeric scam Frequency count, numeric reach Frequency count, numeric elsewher Frequency count, numeric honor Frequency count, numeric hear Frequency count, numeric quit Frequency count, numeric pathet Frequency count, numeric boot Frequency count, numeric unavail Frequency count, numeric minor Frequency count, numeric babi Frequency count, numeric mine Frequency count, numeric huh Frequency count, numeric goe Frequency count, numeric obvious Frequency count, numeric simpl Frequency count, numeric disrespect Frequency count, numeric neglect Frequency count, numeric enjoy Frequency count, numeric finger Frequency count, numeric zone Frequency count, numeric date Frequency count, numeric excus Frequency count, numeric zero Frequency count, numeric decemb Frequency count, numeric octob Frequency count, numeric sna Frequency count, numeric weekend Frequency count, numeric flightd Frequency count, numeric local Frequency count, numeric faith Frequency count, numeric ski Frequency count, numeric held Frequency count, numeric

coast Frequency count, numeric tourist Frequency count, numeric listen Frequency count, numeric whoever Frequency count, numeric charact Frequency count, numeric limit Frequency count, numeric **appear** Frequency count, numeric doesnt Frequency count, numeric **pop** Frequency count, numeric coupon Frequency count, numeric ridicul Frequency count, numeric airfar Frequency count, numeric cheaper Frequency count, numeric heathrow Frequency count, numeric properti Frequency count, numeric complaint Frequency count, numeric ref Frequency count, numeric unhappi Frequency count, numeric jet Frequency count, numeric privat Frequency count, numeric fund Frequency count, numeric atl Frequency count, numeric matter Frequency count, numeric yep Frequency count, numeric loui Frequency count, numeric difficult Frequency count, numeric prepar Frequency count, numeric confid Frequency count, numeric seek Frequency count, numeric **bot** Frequency count, numeric worth Frequency count, numeric california Frequency count, numeric conf Frequency count, numeric communic Frequency count, numeric far Frequency count, numeric horrid Frequency count, numeric note Frequency count, numeric

top Frequency count, numeric unitedairlin Frequency count, numeric kudo Frequency count, numeric usual Frequency count, numeric advisori Frequency count, numeric quot Frequency count, numeric heat Frequency count, numeric rememb Frequency count, numeric captain Frequency count, numeric extrem Frequency count, numeric effici Frequency count, numeric real Frequency count, numeric henc Frequency count, numeric cloth Frequency count, numeric curious Frequency count, numeric conveni Frequency count, numeric washington Frequency count, numeric chicago Frequency count, numeric china Frequency count, numeric leg Frequency count, numeric loung Frequency count, numeric dms Frequency count, numeric owe Frequency count, numeric okay Frequency count, numeric dead Frequency count, numeric proper Frequency count, numeric forgot Frequency count, numeric onto Frequency count, numeric atroci Frequency count, numeric imposs Frequency count, numeric esp Frequency count, numeric Ihr Frequency count, numeric doubt Frequency count, numeric vacat Frequency count, numeric compliment Frequency count, numeric assur Frequency count, numeric nope Frequency count, numeric

sleep Frequency count, numeric compens Frequency count, numeric origin Frequency count, numeric ruin Frequency count, numeric defin Frequency count, numeric inbound Frequency count, numeric valid Frequency count, numeric **deliv** Frequency count, numeric deliveri Frequency count, numeric hostag Frequency count, numeric lbs Frequency count, numeric machin Frequency count, numeric write Frequency count, numeric blame Frequency count, numeric previous Frequency count, numeric tel Frequency count, numeric aviv Frequency count, numeric uiunit Frequency count, numeric feedback Frequency count, numeric taxi Frequency count, numeric action Frequency count, numeric solv Frequency count, numeric tire Frequency count, numeric comment Frequency count, numeric clt Frequency count, numeric idea Frequency count, numeric neveragain Frequency count, numeric within Frequency count, numeric cancun Frequency count, numeric continent Frequency count, numeric equal Frequency count, numeric deep Frequency count, numeric figur Frequency count, numeric fran Frequency count, numeric pack Frequency count, numeric **pax** Frequency count, numeric screw Frequency count, numeric

hou Frequency count, numeric pos Frequency count, numeric wake Frequency count, numeric counter Frequency count, numeric nobodi Frequency count, numeric flyohar Frequency count, numeric regret Frequency count, numeric **annoy** Frequency count, numeric door Frequency count, numeric premier Frequency count, numeric bullshit Frequency count, numeric phoenix Frequency count, numeric yea Frequency count, numeric encount Frequency count, numeric stellar Frequency count, numeric front Frequency count, numeric **pocket** Frequency count, numeric rip Frequency count, numeric absurd Frequency count, numeric fact Frequency count, numeric walk Frequency count, numeric happili Frequency count, numeric public Frequency count, numeric stranger Frequency count, numeric nah Frequency count, numeric split Frequency count, numeric wks Frequency count, numeric **bwi** Frequency count, numeric appropri Frequency count, numeric review Frequency count, numeric overbook Frequency count, numeric unprofession Frequency count, numeric consid Frequency count, numeric corp Frequency count, numeric unabl Frequency count, numeric flightat Frequency count, numeric courtesi Frequency count, numeric

diff Frequency count, numeric tag Frequency count, numeric certif Frequency count, numeric bar Frequency count, numeric appl Frequency count, numeric **bunch** Frequency count, numeric adopt Frequency count, numeric outlet Frequency count, numeric incompet Frequency count, numeric finish Frequency count, numeric exact Frequency count, numeric carousel Frequency count, numeric easier Frequency count, numeric monitor Frequency count, numeric friendlyski Frequency count, numeric spare Frequency count, numeric unless Frequency count, numeric disast Frequency count, numeric period Frequency count, numeric apart Frequency count, numeric fall Frequency count, numeric fleet Frequency count, numeric notcool Frequency count, numeric balanc Frequency count, numeric impact Frequency count, numeric major Frequency count, numeric refuel Frequency count, numeric hundr Frequency count, numeric quiet Frequency count, numeric rectifi Frequency count, numeric situat Frequency count, numeric spent Frequency count, numeric clue Frequency count, numeric liter Frequency count, numeric **list** Frequency count, numeric dia Frequency count, numeric remind Frequency count, numeric

devic Frequency count, numeric insid Frequency count, numeric failur Frequency count, numeric assum Frequency count, numeric effort Frequency count, numeric finest Frequency count, numeric confus Frequency count, numeric airplan Frequency count, numeric **project** Frequency count, numeric softwar Frequency count, numeric ogg Frequency count, numeric display Frequency count, numeric howev Frequency count, numeric closest Frequency count, numeric clear Frequency count, numeric refer Frequency count, numeric discuss Frequency count, numeric shot Frequency count, numeric pacif Frequency count, numeric **spot** Frequency count, numeric generic Frequency count, numeric unnecessari Frequency count, numeric carseat Frequency count, numeric decis Frequency count, numeric kpu Frequency count, numeric kit Frequency count, numeric pjs Frequency count, numeric ensur Frequency count, numeric flat Frequency count, numeric lie Frequency count, numeric stl Frequency count, numeric membership Frequency count, numeric catch Frequency count, numeric karen Frequency count, numeric chicken Frequency count, numeric fair Frequency count, numeric den Frequency count, numeric

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

fit Frequency count, numeric nonsens Frequency count, numeric incur Frequency count, numeric abt Frequency count, numeric deni Frequency count, numeric prove Frequency count, numeric yrs Frequency count, numeric etc Frequency count, numeric investig Frequency count, numeric sell Frequency count, numeric cuz Frequency count, numeric hubbi Frequency count, numeric power Frequency count, numeric rare Frequency count, numeric poorcustomerservic Frequency count, numeric forth Frequency count, numeric multipl Frequency count, numeric angri Frequency count, numeric lake Frequency count, numeric consist Frequency count, numeric commit Frequency count, numeric merger Frequency count, numeric glitch Frequency count, numeric mainten Frequency count, numeric state Frequency count, numeric truth Frequency count, numeric unfriend Frequency count, numeric ill Frequency count, numeric level Frequency count, numeric lufthansa Frequency count, numeric replac Frequency count, numeric sick Frequency count, numeric typic Frequency count, numeric prompt Frequency count, numeric simpli Frequency count, numeric twice Frequency count, numeric hate Frequency count, numeric

orf Frequency count, numeric driven Frequency count, numeric uauau Frequency count, numeric age Frequency count, numeric choos Frequency count, numeric poorservic Frequency count, numeric general Frequency count, numeric attent Frequency count, numeric lit Frequency count, numeric aspen Frequency count, numeric certain Frequency count, numeric florida Frequency count, numeric recov Frequency count, numeric allow Frequency count, numeric overweight Frequency count, numeric measur Frequency count, numeric woman Frequency count, numeric miser Frequency count, numeric block Frequency count, numeric dming Frequency count, numeric articl Frequency count, numeric redeem Frequency count, numeric ton Frequency count, numeric what Frequency count, numeric gain Frequency count, numeric musician Frequency count, numeric holder Frequency count, numeric whose Frequency count, numeric blog Frequency count, numeric cleveland Frequency count, numeric sunday Frequency count, numeric basic Frequency count, numeric assign Frequency count, numeric sens Frequency count, numeric doesnut Frequency count, numeric english Frequency count, numeric hassl Frequency count, numeric

badservic Frequency count, numeric whatev Frequency count, numeric london Frequency count, numeric cute Frequency count, numeric kind Frequency count, numeric speed Frequency count, numeric cowork Frequency count, numeric hell Frequency count, numeric flightst Frequency count, numeric settl Frequency count, numeric rdu Frequency count, numeric shop Frequency count, numeric onboard Frequency count, numeric pts Frequency count, numeric compar Frequency count, numeric mex Frequency count, numeric ten Frequency count, numeric usairway Frequency count, numeric usairwaysfail Frequency count, numeric practic Frequency count, numeric occur Frequency count, numeric outsourc Frequency count, numeric collect Frequency count, numeric suggest Frequency count, numeric formal Frequency count, numeric handler Frequency count, numeric bridg Frequency count, numeric freez Frequency count, numeric temp Frequency count, numeric foot Frequency count, numeric broke Frequency count, numeric global Frequency count, numeric yyz Frequency count, numeric **piss** Frequency count, numeric engin Frequency count, numeric deplan Frequency count, numeric releas Frequency count, numeric

advertis Frequency count, numeric extend Frequency count, numeric aircanada Frequency count, numeric lesson Frequency count, numeric written Frequency count, numeric pray Frequency count, numeric chair Frequency count, numeric meal Frequency count, numeric unreal Frequency count, numeric costum Frequency count, numeric understaf Frequency count, numeric beer Frequency count, numeric understood Frequency count, numeric oop Frequency count, numeric crazi Frequency count, numeric rob Frequency count, numeric shut Frequency count, numeric worthless Frequency count, numeric polic Frequency count, numeric clean Frequency count, numeric dri Frequency count, numeric msg Frequency count, numeric wet Frequency count, numeric piec Frequency count, numeric print Frequency count, numeric airway Frequency count, numeric mci Frequency count, numeric segment Frequency count, numeric slight Frequency count, numeric acct Frequency count, numeric eta Frequency count, numeric **btv** Frequency count, numeric cun Frequency count, numeric **nite** Frequency count, numeric worstcustomerservic Frequency count, numeric rerout Frequency count, numeric cri Frequency count, numeric

garbag Frequency count, numeric epic Frequency count, numeric jetway Frequency count, numeric reagan Frequency count, numeric **ber** Frequency count, numeric till Frequency count, numeric frankfurt Frequency count, numeric fan Frequency count, numeric doubl Frequency count, numeric lisa Frequency count, numeric breakfast Frequency count, numeric irrit Frequency count, numeric humor Frequency count, numeric copi Frequency count, numeric ual Frequency count, numeric tampa Frequency count, numeric robot Frequency count, numeric visit Frequency count, numeric wear Frequency count, numeric grr Frequency count, numeric raleigh Frequency count, numeric terri Frequency count, numeric freq Frequency count, numeric **rsw** Frequency count, numeric lousi Frequency count, numeric fault Frequency count, numeric honeymoon Frequency count, numeric gotten Frequency count, numeric epicfail Frequency count, numeric awar Frequency count, numeric hilari Frequency count, numeric ktn Frequency count, numeric wreck Frequency count, numeric offici Frequency count, numeric pleasant Frequency count, numeric acknowledg Frequency count, numeric dot Frequency count, numeric

brother Frequency count, numeric hous Frequency count, numeric pleasur Frequency count, numeric bdl Frequency count, numeric explor Frequency count, numeric facebook Frequency count, numeric tue Frequency count, numeric **buf** Frequency count, numeric downgrad Frequency count, numeric nashvill Frequency count, numeric surpris Frequency count, numeric freak Frequency count, numeric snowi Frequency count, numeric ineffici Frequency count, numeric tini Frequency count, numeric csr Frequency count, numeric dozen Frequency count, numeric kiosk Frequency count, numeric patienc Frequency count, numeric bus Frequency count, numeric prob Frequency count, numeric disgrac Frequency count, numeric hit Frequency count, numeric forev Frequency count, numeric tone Frequency count, numeric worker Frequency count, numeric lazi Frequency count, numeric frozen Frequency count, numeric metal Frequency count, numeric truck Frequency count, numeric valu Frequency count, numeric fast Frequency count, numeric reconsid Frequency count, numeric attitud Frequency count, numeric respect Frequency count, numeric pat Frequency count, numeric disgust Frequency count, numeric

restor Frequency count, numeric worstairlineev Frequency count, numeric valuabl Frequency count, numeric park Frequency count, numeric desper Frequency count, numeric girlfriend Frequency count, numeric fraud Frequency count, numeric pretzel Frequency count, numeric lower Frequency count, numeric crappi Frequency count, numeric legal Frequency count, numeric hang Frequency count, numeric intent Frequency count, numeric felt Frequency count, numeric higher Frequency count, numeric qualiti Frequency count, numeric spanish Frequency count, numeric mech Frequency count, numeric retriev Frequency count, numeric except Frequency count, numeric contract Frequency count, numeric **pvd** Frequency count, numeric upcom Frequency count, numeric cover Frequency count, numeric dumb Frequency count, numeric hurt Frequency count, numeric won Frequency count, numeric memori Frequency count, numeric circumst Frequency count, numeric disconnect Frequency count, numeric reliabl Frequency count, numeric none Frequency count, numeric relat Frequency count, numeric act Frequency count, numeric organ Frequency count, numeric **bay** Frequency count, numeric import Frequency count, numeric

describ Frequency count, numeric flightawar Frequency count, numeric per Frequency count, numeric tail Frequency count, numeric dinner Frequency count, numeric honest Frequency count, numeric capt Frequency count, numeric explan Frequency count, numeric **cab** Frequency count, numeric pit Frequency count, numeric dont Frequency count, numeric cheap Frequency count, numeric worstairlin Frequency count, numeric bummer Frequency count, numeric content Frequency count, numeric realiz Frequency count, numeric discov Frequency count, numeric ive Frequency count, numeric **bhm** Frequency count, numeric god Frequency count, numeric educ Frequency count, numeric volunt Frequency count, numeric philippin Frequency count, numeric aisl Frequency count, numeric drunk Frequency count, numeric log Frequency count, numeric strike Frequency count, numeric social Frequency count, numeric planet Frequency count, numeric hdn Frequency count, numeric concours Frequency count, numeric shuttl Frequency count, numeric known Frequency count, numeric sight Frequency count, numeric trap Frequency count, numeric numer Frequency count, numeric slept Frequency count, numeric

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cluster Frequency count, numeric confer Frequency count, numeric memphi Frequency count, numeric notifi Frequency count, numeric **bereav** Frequency count, numeric discount Frequency count, numeric funer Frequency count, numeric meant Frequency count, numeric **passport** Frequency count, numeric approach Frequency count, numeric rapid Frequency count, numeric tick Frequency count, numeric appal Frequency count, numeric journey Frequency count, numeric spell Frequency count, numeric perhap Frequency count, numeric ahold Frequency count, numeric delet Frequency count, numeric notch Frequency count, numeric cvg Frequency count, numeric shoulder Frequency count, numeric skill Frequency count, numeric allianc Frequency count, numeric belong Frequency count, numeric depend Frequency count, numeric star Frequency count, numeric staf Frequency count, numeric hospit Frequency count, numeric juan Frequency count, numeric personnel Frequency count, numeric particular Frequency count, numeric fam Frequency count, numeric **pricey** Frequency count, numeric unitedfail Frequency count, numeric inexcus Frequency count, numeric million Frequency count, numeric immedi Frequency count, numeric

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relax Frequency count, numeric mother Frequency count, numeric natur Frequency count, numeric wasnt Frequency count, numeric **proud** Frequency count, numeric water Frequency count, numeric legroom Frequency count, numeric **rest** Frequency count, numeric cooki Frequency count, numeric chose Frequency count, numeric young Frequency count, numeric tmrw Frequency count, numeric weird Frequency count, numeric stream Frequency count, numeric decent Frequency count, numeric merg Frequency count, numeric pound Frequency count, numeric fire Frequency count, numeric blow Frequency count, numeric eventu Frequency count, numeric pain Frequency count, numeric cnn Frequency count, numeric **approv** Frequency count, numeric flts Frequency count, numeric ship Frequency count, numeric similar Frequency count, numeric inch Frequency count, numeric couldnt Frequency count, numeric south Frequency count, numeric six Frequency count, numeric directtv Frequency count, numeric advic Frequency count, numeric closer Frequency count, numeric traffic Frequency count, numeric **beliz** Frequency count, numeric unlik Frequency count, numeric congratul Frequency count, numeric

airbus Frequency count, numeric wall Frequency count, numeric shout Frequency count, numeric disregard Frequency count, numeric dragon Frequency count, numeric pen Frequency count, numeric backup Frequency count, numeric remain Frequency count, numeric **bna** Frequency count, numeric jax Frequency count, numeric exit Frequency count, numeric wheelchair Frequency count, numeric plenti Frequency count, numeric yay Frequency count, numeric fra Frequency count, numeric die Frequency count, numeric plastic Frequency count, numeric stock Frequency count, numeric roc Frequency count, numeric orlean Frequency count, numeric map Frequency count, numeric insult Frequency count, numeric north Frequency count, numeric sale Frequency count, numeric tkt Frequency count, numeric smile Frequency count, numeric ind Frequency count, numeric interview Frequency count, numeric biggest Frequency count, numeric ripoff Frequency count, numeric although Frequency count, numeric difficulti Frequency count, numeric nothappi Frequency count, numeric celebr Frequency count, numeric slc Frequency count, numeric argu Frequency count, numeric histori Frequency count, numeric

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clarif Frequency count, numeric east Frequency count, numeric embarrass Frequency count, numeric warn Frequency count, numeric wednesday Frequency count, numeric combin Frequency count, numeric res Frequency count, numeric snack Frequency count, numeric **belt** Frequency count, numeric autom Frequency count, numeric transport Frequency count, numeric mad Frequency count, numeric june Frequency count, numeric specif Frequency count, numeric function Frequency count, numeric lavatori Frequency count, numeric winner Frequency count, numeric roll Frequency count, numeric accur Frequency count, numeric companion Frequency count, numeric necessari Frequency count, numeric thousand Frequency count, numeric pbi Frequency count, numeric father Frequency count, numeric lifetim Frequency count, numeric burn Frequency count, numeric misplac Frequency count, numeric laguardia Frequency count, numeric size Frequency count, numeric **box** Frequency count, numeric haha Frequency count, numeric donat Frequency count, numeric wth Frequency count, numeric hungri Frequency count, numeric maint Frequency count, numeric firstclass Frequency count, numeric massiv Frequency count, numeric

fantast Frequency count, numeric annual Frequency count, numeric exchang Frequency count, numeric cont Frequency count, numeric dial Frequency count, numeric tablet Frequency count, numeric courteous Frequency count, numeric **yup** Frequency count, numeric alert Frequency count, numeric fave Frequency count, numeric dest Frequency count, numeric straight Frequency count, numeric anniversari Frequency count, numeric expedit Frequency count, numeric awe Frequency count, numeric **buffalo** Frequency count, numeric estim Frequency count, numeric join Frequency count, numeric gas Frequency count, numeric sept Frequency count, numeric magic Frequency count, numeric nasti Frequency count, numeric admir Frequency count, numeric customerservicefail Frequency count, numeric heavi Frequency count, numeric incom Frequency count, numeric stick Frequency count, numeric survey Frequency count, numeric rant Frequency count, numeric puerto Frequency count, numeric rico Frequency count, numeric annricord Frequency count, numeric **alot** Frequency count, numeric pet Frequency count, numeric west Frequency count, numeric admit Frequency count, numeric boss Frequency count, numeric

women Frequency count, numeric waiver Frequency count, numeric incorrect Frequency count, numeric dobett Frequency count, numeric weigh Frequency count, numeric whether Frequency count, numeric wrote Frequency count, numeric custserv Frequency count, numeric parent Frequency count, numeric term Frequency count, numeric camera Frequency count, numeric didnut Frequency count, numeric pittsburgh Frequency count, numeric tab Frequency count, numeric harder Frequency count, numeric van Frequency count, numeric somewher Frequency count, numeric rush Frequency count, numeric letter Frequency count, numeric fresh Frequency count, numeric mission Frequency count, numeric subpar Frequency count, numeric ric Frequency count, numeric your Frequency count, numeric august Frequency count, numeric reward Frequency count, numeric headach Frequency count, numeric conflict Frequency count, numeric pref Frequency count, numeric fort Frequency count, numeric invit Frequency count, numeric flytpa Frequency count, numeric **protect** Frequency count, numeric neither Frequency count, numeric laugh Frequency count, numeric scale Frequency count, numeric nonexist 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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* datasets

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