

Package ‘RYoudaoTranslate’

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Type Package

Title R package provide functions to translate English words into Chinese.

Version 1.0

Date 2014-02-23

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Description

You can use this package to translate thousands of words. The Youdao translation open API is applied in this package. But, it just translates less than 1000 English words into Chinese.

License GPL (>= 2)

Depends RCurl, rjson

NeedsCompilation no

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RYoudaoTranslate-package

R package provide functions to translate English words into Chinese.

Description

This package provides interface to Youdao translation open API for R user. Users can translate thousands of words as soon as possible. It is worth to mention that you could only translate 1000 English words per day into Chinese for Youdao open api privacy.

Details

Package: RYoudaoTranslate
Type: Package
Version: 1.0
Date: 2014-02-23
License: GPL(>= 2)

This package make it easy to look up thousands of words. It contains four functions: [youdaoUrl](#), [youdaoTranslate](#), [youdaoDisplay](#) and [youdaoLookUp](#)

Author(s)

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Examples

```
library(RCurl)
library(rjson)
apikey = "498375134"
keyfrom = "JustForTestYouDao"
youdaoLookUp("youdao", api=apikey, keyfrom=keyfrom)
```

youdaoDisplay

Display query result.

Description

This display query result.

Usage

```
youdaoDisplay(youdaoObj, word)
```

Arguments

youdaoObj A list returned from Youdao Translate.
word The word you want to look up.

Value

Return a character.

Author(s)

Ke-Hao Wu

Examples

```
library(RCurl)
library(rjson)
apikey = "498375134"
keyfrom = "JustForTestYouDao"
word = "youdao"
Obj = youdaoTranslate(word,api=apikey,keyfrom=keyfrom)
youdaoDisplay(Obj,word)
```

youdaoLookUp *The most important function in this package.*

Description

You can use your word, API key and keyfrom in this function to get query result directly. That is to say, other functions are included in this function.

Usage

```
youdaoLookUp(word, api, keyfrom)
```

Arguments

word The word you want to look up.
api A Youdao API key. You can get it from <http://fanyi.youdao.com/openapi>.
keyfrom A Youdao keyfrom. You can get it from <http://fanyi.youdao.com/openapi>.

Author(s)

Ke-Hao Wu

Examples

```
library(RCurl)
library(rjson)
apikey = "498375134"
keyfrom = "JustForTestYouDao"
word = c("youdao", "China", "Homo Sapiens")
for( i in word)
{
  Res = youdaoLookUp(i,api=apikey,keyfrom=keyfrom)
  print(Res)
}
```

youdaoTranslate	<i>Get result from youdao</i>
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Description

This function return a result from youdao translation using url provided by youdaoUrl function.

Usage

```
youdaoTranslate(word, api, keyfrom)
```

Arguments

word	The word you want to look up.
api	A Youdao API key. You can get it from http://fanyi.youdao.com/openapi .
keyfrom	A Youdao keyfrom. You can get it from http://fanyi.youdao.com/openapi .

Details

All of three arguments are needed. This function will call youdaoUrl using getURL from RCurl package. The result is processed by fromJSON from rjson package.

Value

A list will be returned.

Author(s)

Ke-Hao Wu

References

<http://fanyi.youdao.com/openapi?path=data-mode> <http://www.youdao.com/help/fanyiapi/privacy/>

Examples

```
library(RCurl)
library(rjson)
apikey = "498375134"
keyfrom = "JustForTestYouDao"
word = "youdao"
Obj = youdaoTranslate(word,api=apikey,keyfrom=keyfrom)
```

youdaoUrl	<i>Return a url to get qurey result from Youdao.</i>
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Description

Youdao open API key and keyfrom should be provided.

Usage

```
youdaoUrl(word, api, keyfrom)
```

Arguments

word	The word you want to look up.
api	A Youdao API key. You can get it from http://fanyi.youdao.com/openapi .
keyfrom	A Youdao keyfrom. You can get it from http://fanyi.youdao.com/openapi .

Details

All of three arguments are needed. The API key and keyfrom could be get from <http://fanyi.youdao.com/openapi?path=data-mode>. If the vocabulary is consist of two words, the space between two words will be converted to a "+".

Value

Return a url link.

Author(s)

Ke-Hao Wu

References

<http://fanyi.youdao.com/openapi?path=data-mode> <http://www.youdao.com/help/fanyiapi/privacy/>

Examples

```
apikey = "498375134"
keyfrom = "JustForTestYouDao"
Url = youdaoUrl(word="youdao",api=apikey,keyfrom=keyfrom)
```

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