Package 'RSocrata'

September 9, 2013

Title A tool for downloading Socrata datasets as R data frames

Description Provided with a Socrata dataset resource URL, or a Socrata SoDA
web API query, returns an R data frame. Converts dates to POSIX format.
Supports CSV and JSON. Manages throttling by Socrata.

Version 0.1

Depends rjson,httr

Suggests runit

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Collate 'RSocrata.R' 'runAllTests.R'

R topics documented:

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fieldName	*Convert Socrata human-readable column name, as it might appear in the first row of data, to field name as it might appear in the HTTP header; that is, lower case, periods replaced with underscores*

Description

Convert Socrata human-readable column name, as it might appear in the first row of data, to field
name as it might appear in the HTTP header; that is, lower case, periods replaced with underscores

1

Usage

```
fieldName(humanName)
```

Arguments

humanName   a Socrata human-readable column name

Value

Socrata field name

Author(s)

Hugh J. Devlin, Ph. D. `<Hugh.Devlin@cityofchicago.org>`

Examples

```
fieldName("Number.of.Stations") # number_of_stations
```

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get   *Wrap httr GET with some diagnostics*

Description

In case of failure, report error details from Socrata

Usage

```
get(url)
```

Arguments

url   Socrata Open Data Application Program Interface (SODA) query

Value

httr response object

Author(s)

Hugh J. Devlin, Ph. D. `<Hugh.Devlin@cityofchicago.org>`

`logMsg` *Time-stamped message*

Description

Issue a time-stamped, origin-stamped log message.

Usage

```
logMsg(s)
```

Arguments

s   a string

Value

None (invisible NULL) as per cat

Author(s)

Hugh J. Devlin <Hugh.Devlin@cityofchicago.org>

`posixify` *Convert Socrata calendar_date string to POSIX*

Description

Convert Socrata calendar_date string to POSIX

Usage

```
posixify(x)
```

Arguments

x   a string in Socrata calendar_date format

Value

a POSIX date

Author(s)

Hugh J. Devlin, Ph. D. <Hugh.Devlin@cityofchicago.org>

read.socrata	*Get a full Socrata data set as an R data frame*

Description

Manages throttling and POSIX date-time conversions

Usage

```
read.socrata(url)
```

Arguments

url   Socrata Open Data Application Program Interface (SODA) query, which may
                include SoQL parameters, but is assumed to not contain an offset parameter

Value

an R data frame with POSIX dates

Author(s)

Hugh J. Devlin, Ph. D. `<Hugh.Devlin@cityofchicago.org>`

Examples

```
earthquakes <- read.socrata("http://soda.demo.socrata.com/resource/4tka-6guv.json")
```

Index