Package 'RSocrata'

September 12, 2013

Title Download 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.

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Depends rjson,httr

Suggests runit

Author Hugh J. Devlin

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

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Collate 'RSocrata.R'

R topics documented:

| assignParsers | *Customize httr content parsers* |

Description

Add csv support and return a data frame

Usage

```
assignParsers()
```

Value

an R data frame, 0 observations on errors

Author(s)

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

| fieldName | *Convert Socrata human-readable column name to field name* |

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#'

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 in 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>`

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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") # dat
```

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