

# Package ‘RSocrata’

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**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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**License** MIT

**Collate** 'RSocrata.R' 'runAllTests.R'

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fieldName	<i>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</i>
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## 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 with some diagnostics*

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**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	<i>Time-stamped message</i>
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**Description**

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

**Usage**

```
logMsg (s)
```

**Arguments**

s	a string
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**Value**

None (invisible NULL) as per cat

**Author(s)**

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

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posixify	<i>Convert Socrata calendar_date string to POSIX</i>
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**Description**

Convert Socrata calendar\_date string to POSIX

**Usage**

```
posixify (x)
```

**Arguments**

x	a string in Socrata calendar_date format
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**Value**

a POSIX date

**Author(s)**

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

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read.socrata	<i>Get a full Socrata data set as an R data frame</i>
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**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
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**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")
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