Package 'darksky'

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Description Provides programmatic access to the 'Dark Sky' 'API' https://darksky.net/dev/docs , which provides current or historical global weather conditions.		
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License MIT + file LICENSE		
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Contents		
darksky 2 darksky_api_key 2 get_current_forecast 3 get_forecast_for 4 plot.darksky 5 print.darksky 6		
Index		

2 darksky_api_key

darksky

Tools to Work with the Dark Sky API

Description

Programmatic access to the Dark Sky API https://darksky.net/dev/docs, which provides current or historical global weather conditions.

Author(s)

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darksky_api_key

Get or set DARKSKY_API_KEY value

Description

The API wrapper functions in this package all rely on a Dark Sky API key residing in the environment variable DARKSKY_API_KEY. The easiest way to accomplish this is to set it in the '.Renviron' file in your home directory.

Usage

```
darksky_api_key(force = FALSE)
```

Arguments

force

force setting a new Dark Sky API key for the current environment?

Value

atomic character vector containing the Dark Sky API key

get_current_forecast 3

get_current_forecast Retrieve the current forecast (for the next week)

Description

The Dark Sky API lets you query for most locations on the globe, and returns:

- 1. current conditions
- 2. minute-by-minute forecasts out to 1 hour (where available)
- 3. hour-by-hour forecasts out to 48 hours
- 4. day-by-day forecasts out to 7 days

Usage

```
get_current_forecast(latitude, longitude, units = "us", language = "en",
  exclude = NULL, extend = NULL, add_json = FALSE, add_headers = FALSE,
   ...)
```

Arguments

latitude	forecast latitude (character, decimal format)
longitude	forecast longitude (character, decimal format)
units	return the API response in units other than the default Imperial unit
language	return text summaries in the desired language
exclude	exclude some number of data blocks from the API response. This is useful for reducing latency and saving cache space. This should be a comma-separated string (without spaces) including one or more of the following: (currently, minutely, hourly, daily, alerts, flags). Crafting a request with all of the above blocks excluded is exceedingly silly and not recommended. Setting this parameter to NULL (the default) does not exclude any parameters from the results.
extend	setting this parameter to hourly the API will return hourly data for the next seven days, rather than the next two.
add_json	add the raw JSON response to the object?
add_headers	add the return headers to the object?

Details

If you wish to have results in something besides Imperial units, set units to one of (si, ca, uk). Setting units to auto will have the API select the relevant units automatically, based on geographic location. This value is set to us (Imperial) units by default.

pass through parameters to httr::GET (e.g. to configure ssl options or proxies)

If you wish to have text summaries presented in a different language, set language to one of (ar, bs, de, es, fr, it, nl, pl, pt, ru, sv, tet, tr, x-pig-latin, zh). This value is set to en (English) by default.

See the Options section of the official Dark Sky API documentation for more information.

4 get_forecast_for

Value

an darksky object that contains the original JSON response object (optionally), a list of named 'tbl_df' 'data.frame' objects corresponding to what was returned by the API and (optionally) relevant response headers (cache-control, expires, x-forecast-api-calls, x-response-time).

Examples

```
## Not run:
tmp <- get_current_forecast(37.8267, -122.423)
## End(Not run)</pre>
```

get_forecast_for

Retrieve weather data for a specific place/time

Description

Query for a specific time, past or future (for many places, 60 years in the past to 10 years in the future).

Usage

```
get_forecast_for(latitude, longitude, timestamp, units = "us",
  language = "en", exclude = NULL, add_json = FALSE,
  add_headers = FALSE, ...)
```

Arguments

latitude forecast latitude (character, decimal format)
longitude forecast longitude (character, decimal format)

timestamp should either be a UNIX time (that is, seconds since midnight GMT on 1 Jan

1970) or a string formatted as follows: [YYYY]-[MM]-[DD]T[HH]: [MM]: [SS] (with an optional time zone formatted as Z for GMT time or [+|-][HH][MM] for an offset in hours or minutes). For the latter format, if no timezone is present, local time (at the provided latitude and longitude) is assumed. (This string format is a subset of ISO 8601 time. An as example, 2013-05-06T12:00:00-0400.) If an R Date or POSIXct object is passed in it will be converted into the proper

format.

units return the API response in units other than the default Imperial unit

language return text summaries in the desired language

exclude exclude some number of data blocks from the API response. This is useful for

reducing latency and saving cache space. This should be a comma-separated string (without spaces) including one or more of the following: (currently, minutely, hourly, daily, alerts, flags). Crafting a request with all of the above blocks excluded is exceedingly silly and not recommended. Setting this parameter to NULL (the default) does not exclude any parameters from the results.

plot.darksky 5

```
add_json add the raw JSON response to the object?

add_headers add the return headers to the object?

... pass through parameters to httr::GET (e.g. to configure ssl options or proxies)
```

Details

If you wish to have results in something besides Imperial units, set units to one of (si, ca, uk). Setting units to auto will have the API select the relevant units automatically, based on geographic location. This value is set to us (Imperial) units by default.

If you wish to have text summaries presented in a different language, set language to one of (ar, bs, de, es, fr, it, nl, pl, pt, ru, sv, tet, tr, x-pig-latin, zh). This value is set to en (English) by default.

See the Options section of the official Dark Sky API documentation for more information.

Value

an darksky object that contains the original JSON response object (optionally), a list of named tbl_df data.frame objects corresponding to what was returned by the API and (optionally) relevant response headers (cache-control, expires, x-forecast-api-calls, x-response-time).

Examples

```
## Not run:
tmp <- get_forecast_for(37.8267,-122.423, "2013-05-06T12:00:00-0400")
## End(Not run)</pre>
```

plot.darksky

Plot method for darksky objects

Description

Uses ggplot2 & grid.arrange to produce graphs for darksky objects

Usage

```
## S3 method for class 'darksky'
plot(x, ..., readings = c("hourly", "minutely", "daily"))
```

Arguments

```
    a darksky x
    ignored
    specify which readings to plot. will plot all available by default
```

6 print.darksky

Value

frame grob

Note

only forecast/readings components of x that have more than one observation will be plotted

print.darksky

Slightly more human-readable output for darksky objects

Description

Slightly more human-readable output for darksky objects

Usage

```
## S3 method for class 'darksky' print(x, ...)
```

Arguments

x a darksky object

... ignored

Index

```
darksky, 2
darksky-package (darksky), 2
darksky_api_key, 2
get_current_forecast, 3
get_forecast_for, 4
plot.darksky, 5
print.darksky, 6
```