Package 'weatherr'

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Type Package

Title Tools for Handling and Scraping Instant Weather Forecast Feeds

Version 0.1.3

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Description Handle instant weather forecasts and geographical information. It combines multiple sources of information to obtain instant weather forecasts.

Depends ggmap, lubridate, RJSONIO, XML

License GPL (>= 2)

NeedsCompilation no

Repository CRAN

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R topics documented:

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weatherr-package   *Tools for handling and scrapping instant weather feeds*

Description

Handling and scrapping instant weather forecasts and geographical information

Details

Package:	weatherr
Type:	Package
Version:	0.1.2
Date:	2015-09-08
License:	GPL (>=2)

Author(s)

Stan Yip

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ggele   *Elevation of a set of specific locations*

Description

Obtaining elevation at a set of given locations. Note that using this function you are agreeing to the Google Maps API Terms of Service at https://developers.google.com/maps/terms.

Usage

```
ggele(lat=0,lon=0, output=c('elevation','elevation/resolution','all'),key=NULL)
```

Arguments

lat, lon	numeric objects. latitude and longitude of a location in decimal degrees
output	elevation; elevation and its corresponding resolution or the original JSON output (in a list format)
key	Google API key

Value

If output="elevation", a numeric vector is returned with the elevation in metres.

If output="elevation/resolution", a data frame is return with the elevation and its corresponding resolution in metres.

If output="all", a list is returned with full JSON query output.

Author(s)

Stan Yip

Examples

```
# Get the elevation of a location in Hong Kong
## Not run:
ggele(lat=22.39643,lon=114.1095)

## End(Not run)
```

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locationforecast   *Weather forecast for a specified place*

Description

Obtaining weather forecasts from api.met.no Locationforecast service. Note that using this function
you are agreeing to the Norwegian Meteorologisk Institutt conditions of service at http://api.met.no/conditions_service.html.
Also, using the location query option you are agreeing to the Google Maps API Terms of Service at
https://developers.google.com/maps/terms.

Usage

```
locationforecast(lat,lon,elevation=NULL,location=NULL,exact=TRUE,
tz=Sys.timezone(),key=NULL)
```

Arguments

lat, lon	numeric objects. latitude and longitude of a location in decimal degrees
elevation	optional numeric object. metres above sea level
location	optional character object. query latitude, longitude and elevation of the location using Google map service
exact	logical, indicating an exact time or an interval period forecasts
tz	time zone format. system time zone by default
key	Google API key

Details

If exact=FALSE, precipitation and temperature range can be obtained since these are computed as
interval quantities.

Value

If exact=TRUE, A data frame is returned with the following quantities:

time	time of the forecasts
temperature	temperature (Celcius)
windDirection	wind direction (degree)
windSpeed_mps	wind speed (mps)

```
windSpeed_beaufort
                 wind speed (Beaufort scale)
```
windSpeed_name   wind speed category

```
windGust         gust (mps)
```
humidity   humidity (percentage)

pressure   atomospheric pressure (hPa)

```
cloudiness       clouds cover (percentage)
```
lowClouds   low clouds cover (percentage)

mediumClouds   medium clouds cover (percentage)

highClouds   high clouds cover (percentage)

```
dewpointTemperature
                 dewpoint temperature (Celcius)
```

If exact=FALSE, A data frame is returned with the following quantities:

```
timefrom         the start time of interval for the forecasts
```
timeto   the end time of interval for the forecasts

precipitation   precipitation amount (mm)

minTemperature   minimum temperature in the interval (Celcius)

maxTemperature   maximum temperature in the interval (Celcius)

```
weather_id       weather category
```

Author(s)

Stan Yip

Examples

```
## Not run:
# Get exact time location forecast of Hong Kong
locationforecast(lat=22.39643,lon=114.1095)
# Get time interval location forecast of Malta
locationforecast(lat=35.9375,lon=14.37542,exact=FALSE)
# Get exact time location forecast of Cape Town, South Africa with timezone 'Africa/Johannesburg'
locationforecast(location='Cape Town, South Africa', tz='Africa/Johannesburg')

## End(Not run)
```

Index