pydarksky Documentation

Release

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Contents

CHAPTER 1

Darksky

class pydarksky.**DarkSky**(*api_key=None*)

Parameters **api_key** (*str*) – Darksky.net API key

Variables

- **api_key** (*str*) – Darksky.net API key
- **latitude** (*float*) – The requested latitude. Maybe different from the value returned from an API request
- **longitude** (*float*) – The requested longitude. Maybe different from the value returned from an API request
- **or stror int date** (*datetime*) – The requested date/time.
- **extend** (*bool*) –
- **url** (*str*) –
- **api_call_count** (*int*) –
- **response_time** (*str*) – Server response time in ms
- **response_date** (*str*) – Response date and time
- **units** (*str*) – API response units type
- **lang** (*str*) – API call response language
- **excludes** (*list[str]*) – Data blocks to be excluded in API response
- **UNITS** (*tuple[str]*) – Valid Dark Sky API response units
- **LANGS** (*list[str]*) – Valid Dark Sky API response languages
- **EXCLUDES** (*tuple[str]*) – Valid Dark Sky API data block exclusions

exclude_invert()

Inverts the values in self.exclude

```
>>> import pydarksky
>>> darksky = pydarksky.DarkSky('0' * 32)

>>> darksky.EXCLUDES
('currently', 'minutely', 'hourly', 'daily', 'alerts', 'flags')

>>> darksky.exclude = ["alerts", "flags"]

>>> darksky.exclude
['alerts', 'flags']

>>> darksky.exclude_invert()

>>> darksky.exclude
['currently', 'minutely', 'hourly', 'daily']
```

url

Build and returns a URL used to make a Dark Sky API call.

weather (*latitude=None*, *longitude=None*, *date=None*)

Parameters

- **latitude** (*float*) – Locations latitude
- **longitude** (*float*) – Locations longitude
- **or stror int date** (*datetime*) – Date/time for historical weather data

Raises

- **requests.exceptions.HTTPError** – Raises on bad http response
- **TypeError** – Raises on invalid param types

Return type *Weather*

Example uses

```
# DarkSky instantiation
>>> darksky = pydarksky.DarkSky(api_key)

# Pre-define values
>>> darksky.latitude = -34.9285
>>> darksky.longitude = 138.6005
>>> weather = darksky.weather()

# Pass values as params
>>> weather = darksky.weather(latitude=-34.9285, longitude=138.6005)

# Pass values from dict
>>> kwargs = {"longitude": 138.6005, "latitude": -34.9285}
>>> weather = darksky.weather(**kwargs)
```

weather_last ()

Weather data from the last successful weather() call.

Return type *Weather* or None

CHAPTER 2

Weather

class pydarksky.**Weather**(*json_raw*)

> **Note:** Do not assume the existence of any attribute.

Parameters **json_raw** (*str*) – JSON string

Variables

- **json** (*dict*) – [Required] JSON data returned by the Dark Sky API
- **latitude** (*float*) – [Required] The requested latitude. Maybe different from the value passed to DarkSky class.
- **longitude** (*float*) – [Required] The requested longitude. Maybe different from the value passed to DarkSky class.
- **timezone** (*str*) – [Required] The IANA timezone name for the requested location. This is used for text summaries and for determining when hourly and daily data block objects begin.
- **currently** (*Currently*) – A class containing the current weather conditions at the requested location.
- **daily** (*list[Daily]*) – A class containing the current weather conditions at the requested location.
- **daily_summary** (*str*) – A human-readable summary of the daily data block.
- **daily_icon** (*str*) – A machine-readable text summary of the daily data block.
- **hourly** (*list[Hourly]*) – A class containing the current weather conditions day-by-day for the next week.
- **hourly_summary** (*str*) – A human-readable summary of the hourly data block.
- **hourly_icon** (*str*) – A machine-readable text summary of the daily data block.

- **minutely** (*list[Minutely]*) – A class containing the current weather conditions minute-by-minute for the next hour.
- **minutely_summary** (*str*) – A human-readable summary of the minutely data block.
- **minutely_icon** (*str*) – A machine-readable text summary of the daily data block.
- **alerts** (*list[Alert]*) – An alerts array, which, if present, contains any severe weather alerts pertinent to the requested location.

CHAPTER 3

DataBlocks

class `pydarksky.`**`Now`**(*data*, *parent=None*)

Note: Do not assume the existence of any attribute.

Variables

- **`apparentTemperature`** –
- **`cloudCover`** –
- **`dewPoint`** –
- **`humidity`** –
- **`icon`** –
- **`nearestStormBearing`** –
- **`nearestStormDistance`** –
- **`ozone`** –
- **`precipIntensity`** –
- **`precipProbability`** –
- **`precipType`** –
- **`pressure`** –
- **`summary`** –
- **`temperature`** –
- **`time`** –
- **`uvIndex`** –

- **visibility** –
- **windBearing** –
- **windGust** –
- **windSpeed** –

class `pydarksky.`**`Day`** (*data*, *parent=None*)

Note: Do not assume the existence of any attribute.

Variables

- **apparentTemperatureHigh** –
- **apparentTemperatureHighTime** –
- **apparentTemperatureLow** –
- **apparentTemperatureLowTime** –
- **cloudCover** –
- **dewPoint** –
- **humidity** –
- **icon** –
- **moonPhase** –
- **ozone** –
- **precipAccumulation** –
- **precipIntensity** –
- **precipIntensityMax** –
- **precipIntensityMaxTime** –
- **precipProbability** –
- **precipType** –
- **pressure** –
- **summary** –
- **sunriseTime** –
- **sunsetTime** –
- **temperatureHigh** –
- **temperatureHighTime** –
- **temperatureLow** –
- **temperatureLowTime** –
- **time** –
- **uvIndex** –

- **uvIndexTime** –
- **visibility** –
- **windBearing** –
- **windGust** –
- **windSpeed** –

class `pydarksky.`**`Hour`**(*data*, *parent=None*)

> **Note:** Do not assume the existence of any attribute.

Variables

- **apparentTemperature** –
- **cloudCover** –
- **dewPoint** –
- **humidity** –
- **icon** –
- **ozone** –
- **precipAccumulation** –
- **precipIntensity** –
- **precipProbability** –
- **precipType** –
- **pressure** –
- **summary** –
- **temperature** –
- **time** –
- **uvIndex** –
- **visibility** –
- **windBearing** –
- **windGust** –
- **windSpeed** –

class `pydarksky.`**`Minute`**(*data*, *parent=None*)

> **Note:** Do not assume the existence of any attribute.

Variables

- **apparentTemperature** –

- **cloudCover** –
- **dewPoint** –
- **humidity** –
- **icon** –
- **ozone** –
- **precipIntensity** –
- **precipProbability** –
- **precipType** –
- **pressure** –
- **summary** –
- **time** –
- **uvIndex** –
- **visibility** –
- **windBearing** –
- **windGust** –
- **windSpeed** –

CHAPTER 4

Alerts

class `pydarksky.`**`Alert`**(*data*, *parent=None*)

Variables

- **`description`** (*`str`*) – A detailed description of the alert.
- **`expires`** (*`int`*) – The UNIX time at which the alert will expire.
- **`regions`** (*`str`*) – An array of strings representing the names of the regions covered by this weather alert.
- **`severity`** (*`str`*) – The severity of the weather alert, will be one of the following values:
  - *advisory*
  - *watch*
  - *warning*
- **`time`** (*`int`*) – The UNIX time at which the alert was issued.
- **`title`** (*`str`*) – A brief description of the alert.
- **`uri`** (*`str`*) – A HTTP(S) URI that one may refer to for detailed information about the alert.

CHAPTER 5

Flags

class `pydarksky.`**`Flag`**(*data*, *parent=None*)

Variables

- **`darksky-unavailable`** – [optional] The presence of this property indicates that the Dark Sky data source supports the given location, but a temporary error (such as a radar station being down for maintenance) has made the data unavailable.
- **`sources`** (*`list[str]`*) – This property contains an array of IDs for each data source utilized in servicing this request.
- **`units`** (*`units`*) – Indicates the units which were used for the data in this request.

CHAPTER 6

Indices and tables

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