

Class WeatherInfo

java.lang.Object
└─ **WeatherInfo**

```
public class WeatherInfo
extends java.lang.Object
```

This class creates WeatherInfo objects to store weather data from openweathermap.

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Constructor Summary

WeatherInfo ()	Constructor for an empty WeatherInfo object
WeatherInfo (java.lang.String location)	Constructor for a WeatherInfo object containing all categories of weather

Method Summary

int	getCityId () Getter method for retrieving the location id from openweathermap
java.lang.String	getClouds () Getter method for retrieving the current cloudiness
java.lang.String	getCoordinates () Getter method for retrieving the coordinates of the city searched
java.lang.String	getDegrees () Getter method for retrieving the direction of the wind
java.lang.String	getHumidity () Getter method for retrieving the humidity of the air
java.awt.image.BufferedImage	getIcon () Method for retrieving the sky condition image from openweathermap api
java.lang.String	getLocation () Getter method for retrieving the location and what country the city searched belongs to
java.lang.String	getMaxTemp (java.lang.String unit)

	Getter method for retrieving the maximum temperature of the current city
java.lang.String	<code>getMinTemp</code> (java.lang.String unit) Getter method for retrieving the minimum temperature of the current city
java.lang.String	<code>getPressure</code> (java.lang.String unit) Getter method for retrieving the current air pressure
java.lang.String	<code>getSky</code> () Getter method for retrieving the sky condition and its description
java.lang.String	<code>getSpeed</code> (java.lang.String unit) Getter method for retrieving the speed of the wind
java.lang.String	<code>getSunrise</code> () Getter method for retrieving the sunrise time
java.lang.String	<code>getSunset</code> () Getter method for retrieving the sunset time
java.lang.String	<code>getTemperature</code> (java.lang.String unit) Getter method for retrieving the current temperature of the current city
java.lang.String	<code>getUpdateTime</code> () Getter method for retrieving the time the weather info was last updated
java.lang.String	<code>getWeatherBase</code> () Getter method for retrieving weather base used for the data
int	<code>getWeatherId</code> () Getter method for retrieving the weather id number
void	<code>setCity</code> (java.lang.String name) Setter method for setting the city name
void	<code>setCountry</code> (java.lang.String name) Setter method for setting the country name
void	<code>setIconCode</code> (java.lang.String code) Setter method for setting the icon code
void	<code>setMinMax</code> (double min, double max) Setter method for setting the minimum and maximum temperatures
void	<code>setSky</code> (java.lang.String main, java.lang.String desc) Setter method for setting the sky condition and description
void	<code>setTemp</code> (double t) Setter method for setting the temperature
void	<code>setTime</code> (long time) Setter method for setting the unix time stamp
java.lang.String	<code>toString</code> () toString method to print the weather information neatly and organized

Methods inherited from class java.lang.Object
<code>equals</code> , <code>getClass</code> , <code>hashCode</code> , <code>notify</code> , <code>notifyAll</code> , <code>wait</code> , <code>wait</code> , <code>wait</code>

Constructor Detail

WeatherInfo

```
public WeatherInfo()
```

Constructor for an empty WeatherInfo object

WeatherInfo

```
public WeatherInfo(java.lang.String location)
```

Constructor for a WeatherInfo object containing all categories of weather

Parameters:

`location` - String containing the city in which to retrieve data for

Method Detail

getIcon

```
public java.awt.image.BufferedImage getIcon()
```

Method for retrieving the sky condition image from openweathermap api

Returns:

BufferedImage object of the sky condition

toString

```
public java.lang.String toString()
```

toString method to print the weather information neatly and organized

Overrides:

toString in class java.lang.Object

Returns:

formatted String

getCoordinates

```
public java.lang.String getCoordinates()
```

Getter method for retrieving the coordinates of the city searched

Returns:
String coordinates of the citys location

getLocation

```
public java.lang.String getLocation()
```

Getter method for retrieving the location and what country the city searched belongs to

Returns:
String of the city and country name

getSunrise

```
public java.lang.String getSunrise()
```

Getter method for retrieving the sunrise time

Returns:
String of the sunrise time formatted to HH:MM AM/PM

getSunset

```
public java.lang.String getSunset()
```

Getter method for retrieving the sunset time

Returns:
String of the sunset time formatted to HH:MM AM/PM

getSky

```
public java.lang.String getSky()
```

Getter method for retrieving the sky condition and its description

Returns:
String of the sky condition formatted condition(description)

getWeatherId

public int **getWeatherId()**

Getter method for retrieving the weather id number

Returns:
integer of the weather id from openweathermap

getWeatherBase

public java.lang.String **getWeatherBase()**

Getter method for retrieving weather base used for the data

Returns:
String of the name of the weather base

getTemperature

public java.lang.String **getTemperature**(java.lang.String unit)

Getter method for retrieving the current temperature of the current city

Parameters:
c - (celcius) or f (fahrenheit) to choose what conversion to be used on the kelvin temperature
Returns:
String of the current temperature, already converted

getMinTemp

public java.lang.String **getMinTemp**(java.lang.String unit)

Getter method for retrieving the minimum temperature of the current city

Parameters:
c - (celcius) or f (fahrenheit) to choose what conversion to be used on the kelvin temperature
Returns:
String of the minimum temperature, already converted

getMaxTemp

public java.lang.String **getMaxTemp**(java.lang.String unit)

Getter method for retrieving the maximum temperature of the current city

Parameters:
c - (celcius) or f (fahrenheit) to choose what conversion to be used on the kelvin temperature
Returns:

String of the maximum temperature, already converted

getHumidity

```
public java.lang.String getHumidity()
```

Getter method for retrieving the humidity of the air

Returns:

String of the percentage of humidity in the air

getPressure

```
public java.lang.String getPressure(java.lang.String unit)
```

Getter method for retrieving the current air pressure

Returns:

String of the air pressure in hpa

getSpeed

```
public java.lang.String getSpeed(java.lang.String unit)
```

Getter method for retrieving the speed of the wind

Returns:

String of the current wind speed in m/s

getDegrees

```
public java.lang.String getDegrees()
```

Getter method for retrieving the direction of the wind

Returns:

String of the wind direction in words

getClouds

```
public java.lang.String getClouds()
```

Getter method for retrieving the current cloudiness

Returns:

String of the percentage of clouds in the sky

getUpdateTime

```
public java.lang.String getUpdateTime()
```

Getter method for retrieving the time the weather info was last updated

Returns:
String of the last update time in the format DD/MM/YYYY HH:MM AM/PM

getCityId

```
public int getCityId()
```

Getter method for retrieving the location id from openweathermap

Returns:
integer of the current locations id

setCity

```
public void setCity(java.lang.String name)
```

Setter method for setting the city name

Parameters:
name - String of city name

setCountry

```
public void setCountry(java.lang.String name)
```

Setter method for setting the country name

Parameters:
name - String of country name

setIconCode

```
public void setIconCode(java.lang.String code)
```

Setter method for setting the icon code

Parameters:
code - String of the icon code of sky

setSky

```
public void setSky(java.lang.String main,  
                  java.lang.String desc)
```

Setter method for setting the sky condition and description

Parameters:

- main - String of sky condition
- desc - String description of the sky

setTemp

```
public void setTemp(double t)
```

Setter method for setting the temperature

Parameters:

- temp - double of the current temperature

setMinMax

```
public void setMinMax(double min,  
                      double max)
```

Setter method for setting the minimum and maximum temperatures

Parameters:

- min - double of the minimum temperature
- max - double of the maximum temperature

setTime

```
public void setTime(long time)
```

Setter method for setting the unix time stamp

Parameters:

- time - long unix time stamp