

# Webservice- OpenWeatherMap

Sääpalvelu openWeatherMap:

Palvelusta saa luettua nykyisen säätilan, tai ennusteita ympäri maailman.

Dokumentaatio:

<https://openweathermap.org/current>

<https://openweathermap.org/forecast5>

## NYKYINEN SÄÄTILA

URL:

<http://api.openweathermap.org/data/2.5/weather>

Parametrit:

?q={city name}

?q={city name},{country code}

?id={cityIdCode}

?lat=35&lon=139

?mode={dataMode} dataMode = "json" | "xml"

Vastaus:

```
"main":{  
  "temp":306.15,  
  "pressure":1013,  
  "humidity":44,  
  "temp_min":306,  
  "temp_max":306  
}
```

## ENNUSTE 5 VRK

Antaa ennusteen haluttuun paikkaan 3 tunnin välein, max 5 vuorokaudeksi.

Vastauksessa jokainen rivi edustaa 3 tunnin jaksoa.

URL:

<http://api.openweathermap.org/data/2.5/forecast>

Parametrit:

```
?q={city name}
?q={city name},{country code}
?id={cityIdCode}
?lat=35&lon=139
?mode={json|xml}
?cnt={nRows}
?units={metric|imperial}
```

Esimerkiksi:

```
http://api.openweathermap.org/data/2.5/forecast?q=tampere,fi&units=metric
```

Vastaus (rajoitettu 4 vastaus riviin):

```
{
  "cod": "200",
  "message": 0.0032,
  "cnt": 4,
  "list": [
    {
      "dt": 1487246400,
      "main": {
        "temp": 286.67,
        "temp_min": 281.556,
        "temp_max": 286.67,
        "pressure": 972.73,
        "sea_level": 1046.46,
        "grnd_level": 972.73,
        "humidity": 75,
        "temp_kf": 5.11
      },
      "weather": [
        {
          "id": 800,
          "main": "Clear",
          "description": "clear sky",
          "icon": "01d"
        }
      ],
      "clouds": {
        "all": 0
      },
      "wind": {
        "speed": 1.81,
        "deg": 247.501
      },
      "sys": {
        "pod": "d"
      },
      "dt_txt": "2017-02-16 12:00:00"
    },
    {
      "dt": 1487257200,
      "main": {
        "temp": 285.66,
```

```
"temp_min": 281.821,
"temp_max": 285.66,
"pressure": 970.91,
"sea_level": 1044.32,
"grnd_level": 970.91,
"humidity": 70,
"temp_kf": 3.84
},
"weather": [
  {
    "id": 800,
    "main": "Clear",
    "description": "clear sky",
    "icon": "01d"
  }
],
"clouds": {
  "all": 0
},
"wind": {
  "speed": 1.59,
  "deg": 290.501
},
"sys": {
  "pod": "d"
},
"dt_txt": "2017-02-16 15:00:00"
},
{
  "dt": 1487268000,
  "main": {
    "temp": 277.05,
    "temp_min": 274.498,
    "temp_max": 277.05,
    "pressure": 970.44,
    "sea_level": 1044.7,
    "grnd_level": 970.44,
    "humidity": 90,
    "temp_kf": 2.56
  },
  "weather": [
    {
      "id": 800,
      "main": "Clear",
      "description": "clear sky",
      "icon": "01n"
    }
  ],
  "clouds": {
    "all": 0
  },
  "wind": {
    "speed": 1.41,
    "deg": 263.5
  }
}
```

```
{,
"sys": {
  "pod": "n"
},
"dt_txt": "2017-02-16 18:00:00"
},
{
  "dt": 1487624400,
  "main": {
    "temp": 272.424,
    "temp_min": 272.424,
    "temp_max": 272.424,
    "pressure": 968.38,
    "sea_level": 1043.17,
    "grnd_level": 968.38,
    "humidity": 85,
    "temp_kf": 0
  },
  "weather": [
    {
      "id": 801,
      "main": "Clouds",
      "description": "few clouds",
      "icon": "02n"
    }
  ],
  "clouds": {
    "all": 20
  },
  "wind": {
    "speed": 3.57,
    "deg": 255.503
  },
  "rain": {},
  "snow": {},
  "sys": {
    "pod": "n"
  },
  "dt_txt": "2017-02-20 21:00:00"
}
],
"city": {
  "id": 6940463,
  "name": "Altstadt",
  "coord": {
    "lat": 48.137,
    "lon": 11.5752
  },
  "country": "none"
}
}
```

