

JS: Weather App

НАШИ ПРАВИЛА



Включенная камера



Вопросы по поднятой руке



Не перебиваем друг друга



Все вопросы, не связанные с тематикой курса (орг-вопросы и т. д.), должны быть направлены куратору



Подготовьте свое рабочее окружение для возможной демонстрации экрана (закройте лишние соцсети и прочие приложения)

ПОИГРАЕМ ;)

■ Что такое JSON?

■ Для чего используется метод Fetch?

■ Что возвращает метод Fetch?

■ Какой метод, который помогает извлечь из объекта `Response` информацию в необходимом нам формате?

ЦЕЛЬ

Выполнить проект Weather App для закрепления на практике знаний, полученных за курс

ПЛАН ЗАНЯТИЯ

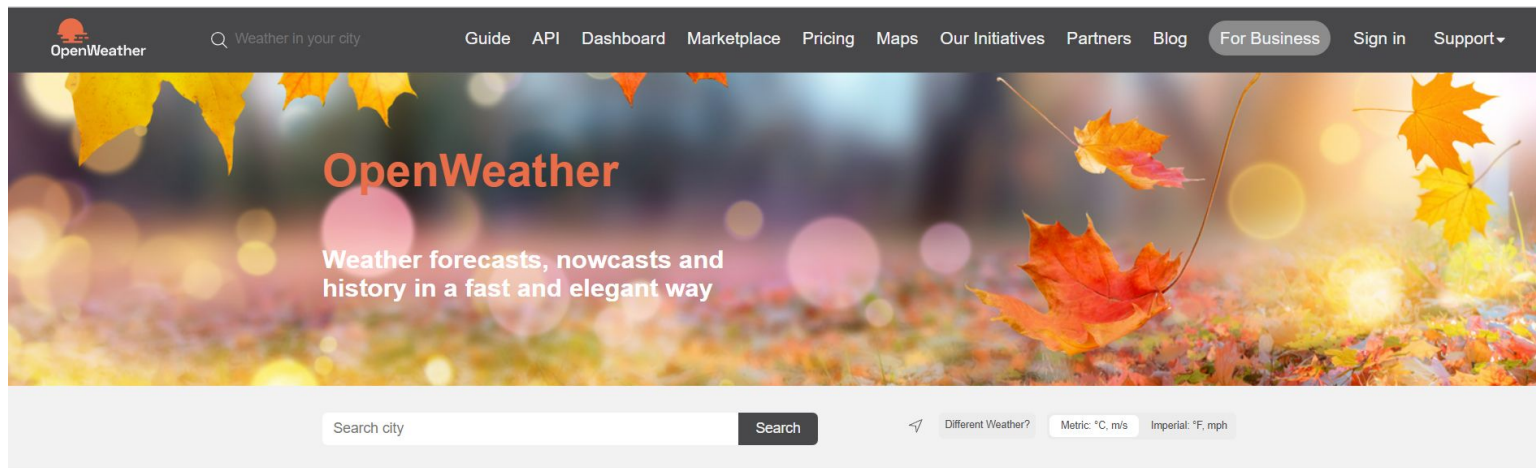
- Practice - Weather App



Тема занятия:

Weather app

Перейдите на сайт - <https://openweathermap.org/>



The header of the OpenWeather website features a dark navigation bar with the logo on the left and links for Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Sign in, and Support on the right. Below the navigation bar is a large hero section with a background image of autumn leaves. The text 'OpenWeather' is displayed in a large, orange font, followed by the tagline 'Weather forecasts, nowcasts and history in a fast and elegant way' in white. At the bottom of the hero section is a search bar with the placeholder text 'Search city' and a 'Search' button. To the right of the search bar are links for 'Different Weather?', 'Metric: °C, m/s', and 'Imperial: °F, mph'.

OpenWeather

Weather forecasts, nowcasts and history in a fast and elegant way

Search city Search

Different Weather? Metric: °C, m/s Imperial: °F, mph

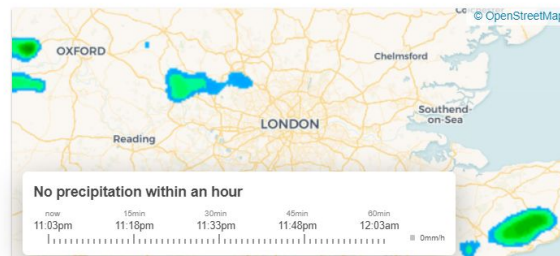
Nov 13, 11:03pm
London, GB

12°C

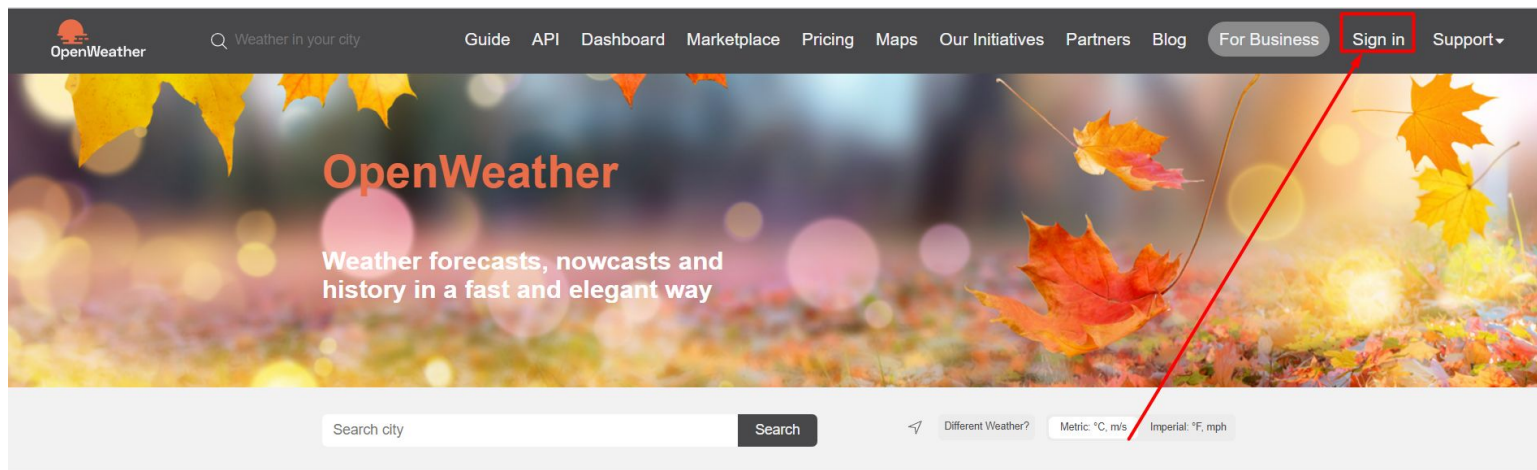
Yellow thunderstorm warning

Feels like 11°C. Broken clouds. Moderate breeze

6.7m/s WSW 1001hPa
Humidity: 75% Dew point: 8°C
Visibility: 10.0km



Перейдите во вкладку Sign in



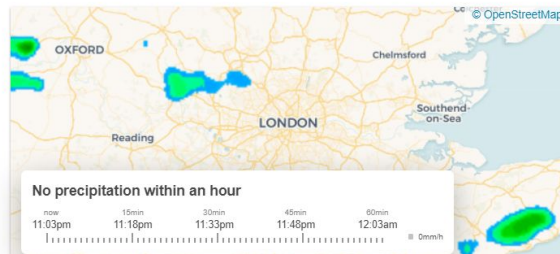
Nov 13, 11:03pm
London, GB

12°C

Yellow thunderstorm warning

Feels like 11°C. Broken clouds. Moderate breeze

6.7m/s WSW 1001hPa
Humidity: 75% Dew point: 8°C
Visibility: 10.0km



Нажмите Create an Account.

Sign In To Your Account

 Enter email

 Password

☐ Remember me

Submit

Not registered? [Create an Account.](#)

Lost your password? [Click here to recover.](#)

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Company

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Заполните необходимые поля и нажмите на кнопку Create Account

 Weather in your city

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Create New Account

We will use information you provided for management and administration purposes, and for keeping you informed by mail, telephone, email and SMS of other products and services from us and our partners. You can proactively manage your preferences or opt-out of communications with us at any time using [Privacy Centre](#). You have the right to access your data held by us or to request your data to be deleted. For full details please see the [OpenWeather Privacy Policy](#).

☒ I am 16 years old and over
☒ I agree with [Privacy Policy](#), [Terms and conditions of sale](#) and [Websites terms and conditions of use](#)

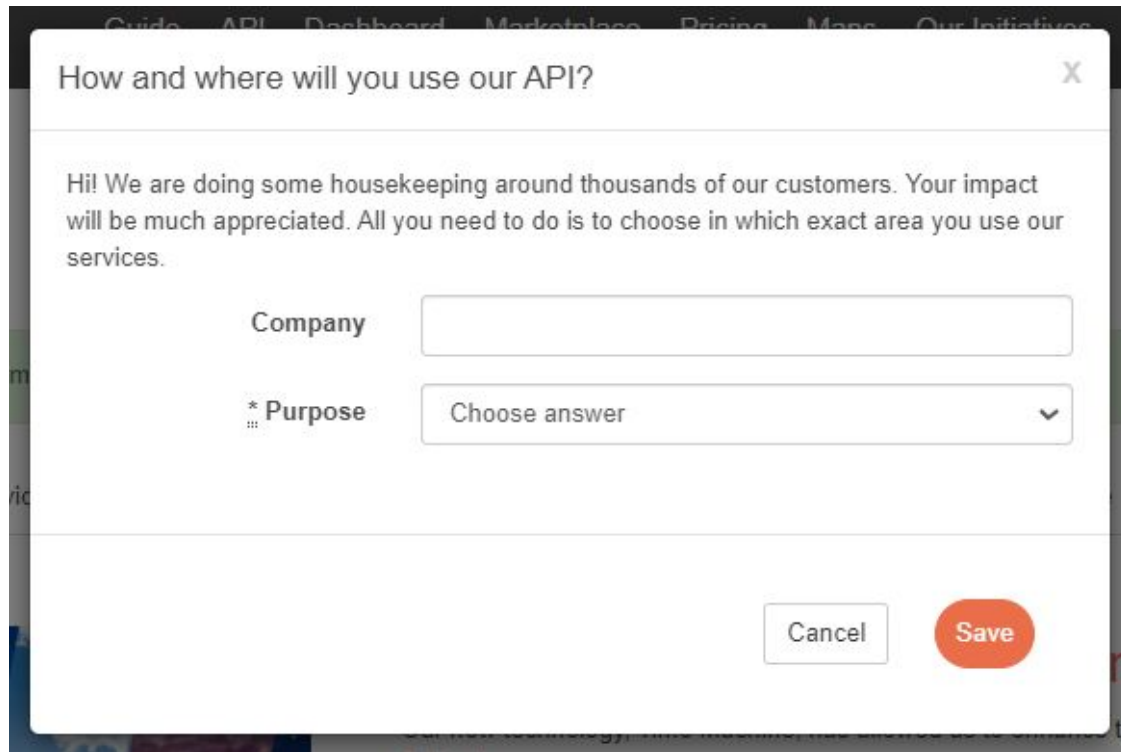
I consent to receive communications from OpenWeather Group of Companies and their partners:

☐ System news (API usage alert, system update, temporary system shutdown, etc)
☐ Product news (change to price, new product features, etc)
☐ Corporate news (our life, the launch of a new service, etc)

☒ I'm not a robot 
reCAPTCHA Privacy - Terms

Create Account

После регистрации появиться окно, его можно закрыть



How and where will you use our API? X

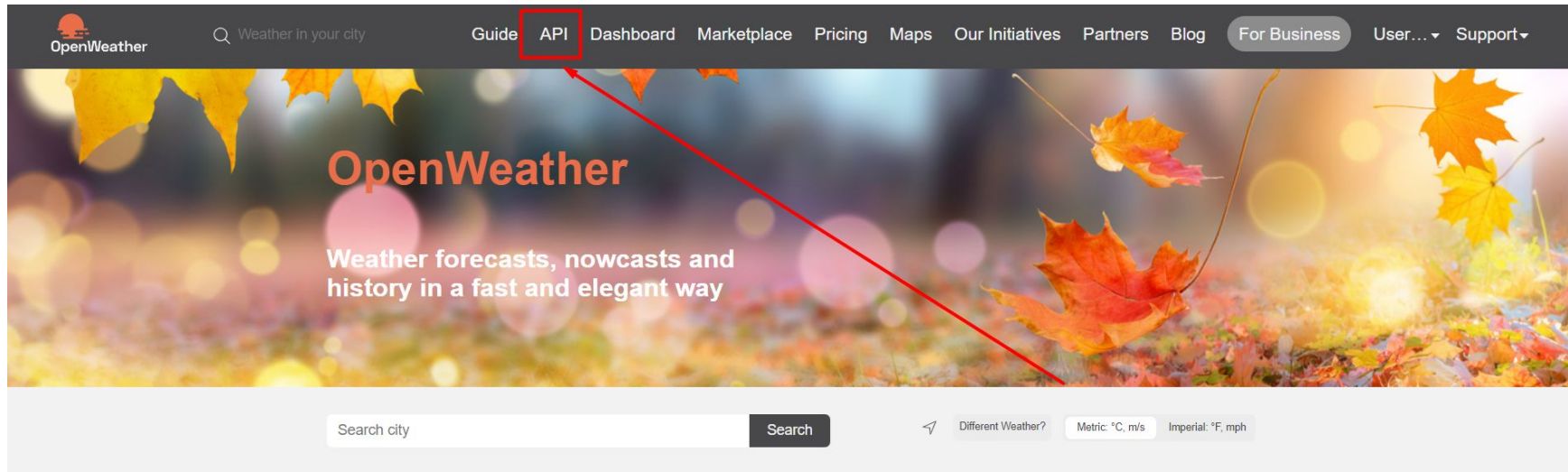
Hi! We are doing some housekeeping around thousands of our customers. Your impact will be much appreciated. All you need to do is to choose in which exact area you use our services.

Company

* Purpose

Cancel Save

Переходим на вкладку API



Nov 13, 11:52pm

London, GB

12°C

Yellow thunderstorm warning

Feels like 11°C Broken clouds Moderate breeze



Листаем вниз до раздела указанного на слайде и нажимаем на кнопку API doc

You can read the [How to Start](#) guide and enjoy using our powerful weather APIs right now.

Current & Forecast weather data collection

Current Weather Data

[API doc](#)[Subscribe](#)

- Access current weather data for any location
- We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations
- JSON, XML, and HTML formats
- Included in both free and paid subscriptions

Hourly Forecast 4 days

[API doc](#)[Subscribe](#)

- Hourly forecast is available for 4 days
- Forecast weather data for 96 timestamps
- JSON and XML formats
- Included in the Developer, Professional and Enterprise subscription plans

Daily Forecast 16 days

[API doc](#)[Subscribe](#)

- 16 days forecast is available for any location on the globe
- 1-day step for 16 days
- JSON and XML formats
- Included in all paid subscription plans

Climatic Forecast 30 days

[API doc](#)[Subscribe](#)

- Forecast weather data for 30 days
- JSON format
- Included in the Developer, Professional and Enterprise subscription plans

Bulk Download

[API doc](#)[Subscribe](#)

- Current weather, a variety of weather forecasts and their 7-day archive via regularly updated files
- Weather bulks are grouped by types of weather data and location lists (global city lists or ZIP code lists of EU, UK,

Global Weather Alerts Push notifications

[Doc](#)[Get access](#)

- Get all the **warnings from national weather agencies**
- Weather alerts are pushed to your endpoint as soon as they occur

В открывшемся окне нажимаем на раздел указанный на слайде

Current weather data

[Home](#) / [API](#) / Current weather

Product concept

Access current weather data for any location on Earth! We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations. Data is available in JSON, XML, or HTML format.

Call current weather data

How to make an API call

API call


```
https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}
```

Parameters

required Latitude. If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please

- Product concept
- Call current weather data
 - How to make an API call
- API response
 - JSON format API response example
 - JSON format API response fields
 - XML format API response example
 - XML format API response fields
 - List of weather condition codes
 - Min/max temperature in current weather
 - API and forecast API
- Bulk downloading
- Other features
 - Geocoding API
 - Built-in geocoding
 - Built-in API request by city name**
 - Built-in API request by city ID
 - Built-in API request by ZIP code
- Format
 - Units of measurement
 - Multilingual support
 - Call back function for JavaScript code

Для нашего fetch запроса понадобится первый url с переменными {city name} и {API key}

Weather in your cityGuideAPIDashboardMarketplacePricingMapsOur InitiativesPartnersBlogFor BusinessUser...Support

Built-in API request by city name

You can call by city name or city name, state code and country code. Please note that searching by states available only for the USA locations.

API call

```
https://api.openweathermap.org/data/2.5/weather?q={city name}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{country code}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{state code},{country code}&appid={API key}
```

Parameters

q

required

City name, state code and country code divided by comma, Please refer to [ISO 3166](#) for the state codes or country codes. You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations.

appid

required

Your unique API key (you can always find it on your account page)

Product concept

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XML format API response example

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Built-in API request by city ID

Built-in API request by ZIP code


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Чтобы получить переменную API key для вашего запроса необходимо нажать на неё в url

 Weather in your city

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Built-in API request by city name

You can call by city name or city name, state code and country code. Please note that searching by states available only for the USA locations.

API call

```
https://api.openweathermap.org/data/2.5/weather?q={city name}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{country code}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{state code},{country code}&appid={API key}
```

Parameters

q	required	City name, state code and country code divided by comma, Please refer to ISO 3166 for the state codes or country codes. You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations.
appid	required	Your unique API key (you can always find it on your account page)

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Built-in API request by city ID

Built-in API request by ZIP code

Format

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Call back function for JavaScript code

В открывшемся окне вы можете скопировать имеющийся API key (обратите внимание на статус - он должен быть активным)


New Products Services **API keys** Billing plans Payments Block logs My orders My profile Ask a question

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions
5c41ec20e551056f2ba6f4eaf6350ea	Default	Active	<input type="checkbox"/> <input type="checkbox"/>

Create key

API key name



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Также вы можете сгенерировать новый API key

New Products Services **API keys** Billing plans Payments Block logs My orders My profile Ask a question

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions
5c41ec20e551056f2ba66f4eaf6350ea	Default	Active	 

Create key

Generate

нажмите

введите имя

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Новый API key появился в списке

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You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions	Create key
5c41ec20e551056f2ba66f4ea6350ea	Default	Active	  	<input type="text" value="API key name"/> <button>Generate</button>
585c198d3f50a59e77ad7179b02fd400	weather_key	Active	  	

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Детали проекта

1. **Страница должна содержать:**
 - a. заголовок - “Weather app”
 - b. поле для ввода города
 - c. кнопку “Получить погоду”
 - d. область для отображения данных о погоде или ошибки
2. **При нажатии на кнопку “Получить погоду”, должен отправляться запрос на url, рассмотренный на предыдущих слайдах**
3. **Во время ожидания ответа нужно отображать индикатор**
4. **После успешного получения данных, их нужно отобразить на странице (температуру и название города). Задача со * - отобразить иконку погоды из ответа**
5. **При получении ошибки, её данные нужно отобразить на странице (код и сообщение)**
6. **При отсутствии названия города, после нажатия на кнопку “Получить погоду” должен появиться alert с просьбой ввести название города**



Ваша новая IT-профессия – Ваш новый уровень жизни

Программирование с нуля в
немецкой школе AIT TR GmbH