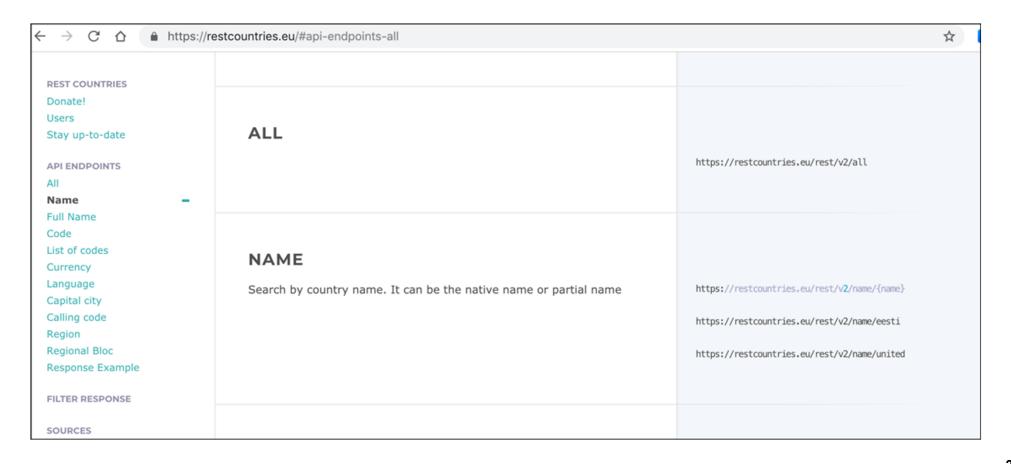


# Vue Fundamentals – 06 Using Http directly

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### Consuming data from an API

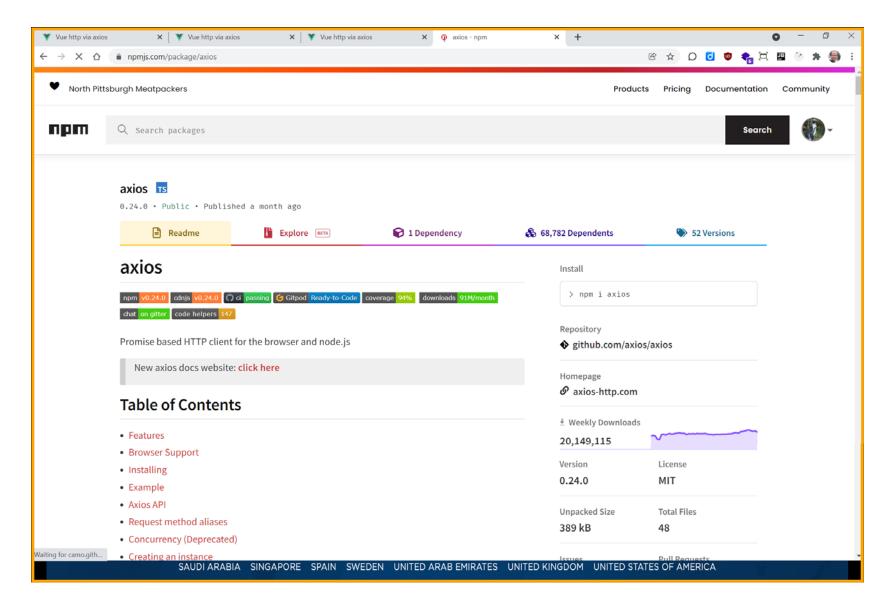
- We're going to talk to a 'real' country-API on the internet
  - https://restcountries.com/
- Using http is not built into Vue.js



# **Using Axios**

"There are many times when building application for the web that you may want to consume and display data from an API. There are several ways to do so, but a very popular approach is to use <u>axios</u>, a promise-based HTTP client."

# https://www.npmjs.com/package/axios



# Installing axios

- Add axios to your project
  - npm install axios --save
- Import axios in the component where you want to use it.
- It is actually considered bad practice to use axios or Http-calls directly from a component!
  - Recommended us a store mechanism, like Vuex.
  - We're going to cover that next.

#### **New route**

- We're creating a new route and a new component to navigate.
  - Create ApiComponent.vue
  - Just an empty component for now
  - Add the route like so:

### Using axios

- Call axios inside the component
  - For instance in the created() lifecycle hook
  - But can be in an @click-method as well...

```
data() {
   return {
       // url of the external api
        url: 'https://restcountries.eu/rest/v2/all',
        countries: [],
        errors: []
created() {
   // call axios with the url, it returns a promise.
   axios.get(this.url)
        .then(response => this.countries = response.data)
        .catch(err => this.errors.push(err))
```

### **Update your HTML**

```
class="list-group" v-if="countries && countries.length">
    <span class="float-left">
            <img :src="country.flag" class="imgFlag">
        </span>
        <h4>{{ country.name }} </h4>
        {{ country.capital}}, pop. {{ country.population}}
    Vue http via axios
← → C 	 O localhost:8080/api
                                Home Country API
                            All countries in the world
                                  Afghanistan
                                  Kabul, pop. 27657145
                                 Åland Islands
                                  Mariehamn, pop. 28875
                                  Albania
                                  Tirana, pop. 2886026
                  Result
                                  Algeria
```

### Async/await

- You can use async/await with axios
  - Not supported in older browsers (IE 11)
  - Results in the UI are identical

```
async created() {
    // async / await version (created() becomes async created())
    try {
        const response = await axios.get(this.url)
        this.countries = response.data
    } catch (err) {
        this.errors.push(err)
    }
}
```

### Workshop

- Use your own application, or start from ../330-http-axios
- Add a new component <ApiCountryDetail>
- If a country is selected, go to a country detail page for that country.
- Fetch info for that country over axios, show detail component
  - Tip: use the name of fullname routes of the API. See
     <a href="https://restcountries.com/#api-endpoints-v2-name">https://restcountries.com/#api-endpoints-v2-name</a> for details
- Optional Create an <ApiSearchCountry> component, where the user can type in (a part of) the name.
  - Search for that country/countries, show them.
  - When clicked, they should also load the detail componer
  - Solution (.../330-workshop)

#### Checkpoint

- You can perform http-calls from your Vue application using axios
- You are able to handle the results from an external API and show them in the UI.
- You can do promise-based calls and async/await-based calls