

Vue Fundamentals – 06 Using Http directly

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Consuming data from an API

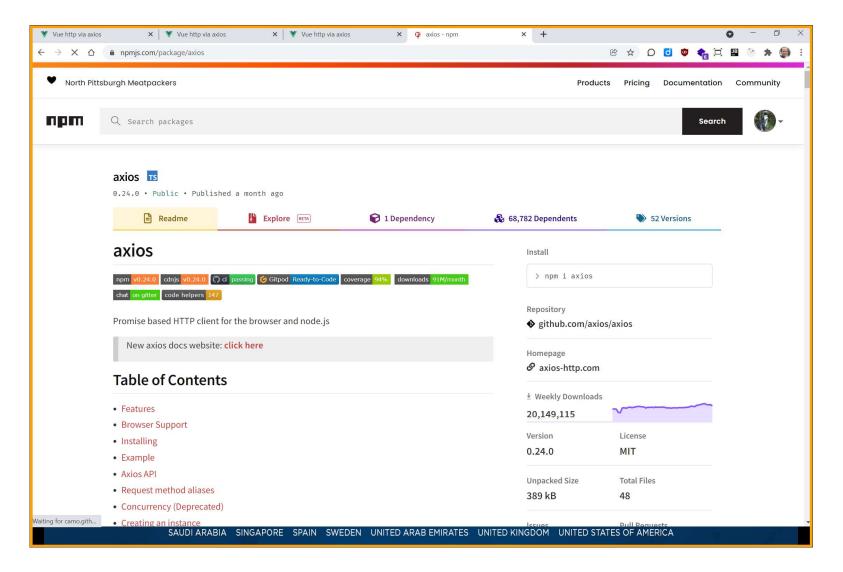
- We're going to talk to a 'real' country-API on the internet
 - https://restcountries.com/
- Using http is not built into Vue.js



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 axios, a promise-based HTTP client."

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

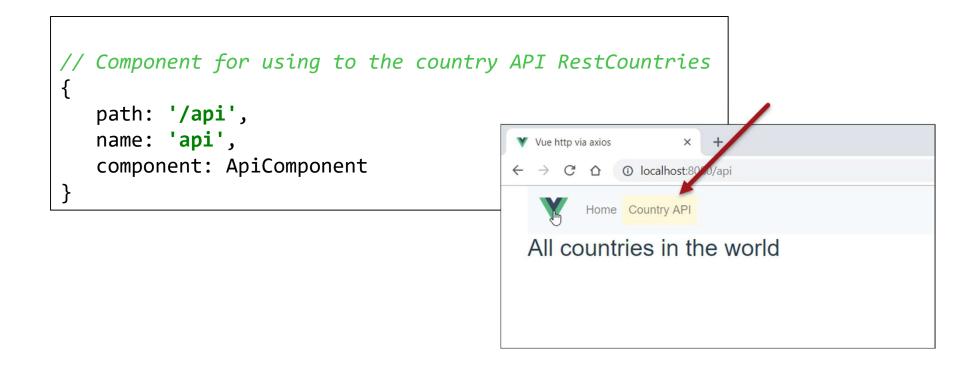


Installing axios

- 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.
 - Or work from a separate Service/API/Data Access layer.

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...

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 https://restcountries.com/#api-endpoints-v2-name 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)

Example - other API's

- https://pokeapi.co/ Pokemon API
- http://openweathermap.org/API (weather forecast)
- https://jsonplaceholder.typicode.com/ random users, posts, photos
- http://ergast.com/mrd/ Ergast Motor (F1) API
- http://www.omdbapi.com/ Open Movie Database
- https://swapi.dev/ Star Wars API
- ...many, many more (https://github.com/public-apis/public-apis/)

Workshop

- Create a small application using one of the API's in the previous slide, for example
 - Pokemon API
 - OMDB API
 - OpenWeatherMap API
 - ...

```
I will practice my modeling technique 2 hours every day
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```

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