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Fetch vs. Axios.js for making http requests



That is a handsome face!

One of the final sections of Stephen Grider's excellent 'ES6 Javascript: The Complete Developer's Guide' course on Udemy.com discusses the .fetch() method and some if its shortcomings. He points out that there are some things with .fetch() that aren't ideal and suggests that there are other options out there for making HTTP requests. One of those options is axios.js. I had not heard of Axios before so this seemed like a great opportunity to do a little digging and see what I could come up with. (Since this is referencing material from Stephen's course, I am using examples and conventions similar to his.)

Axios is a Javascript library used to make http requests from node is or







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If you use .fetch() there

N data. The first is to

make the actual request and then the second is to call the .json() method on the response.

Update 06/27/17: As of May 29th, <u>Spotify now requires authentication for all requests to their API</u>, so the below examples will not work as written.

Here is a simple example using the Spotify API. I set the url as a variable and then pass it to fetch and set the .then() callback to console the data that gets returned from the request.

```
const url =
'https://api.spotify.com/v1/artists/00dUWJ0sBjDrqHygGUXeCF'
fetch(url).then(data=>console.log(data));
```

The default response from the .fetch() method.

That's great, but this is not the data you are looking for. That is the response from the server letting you know that your request went through just fine. Great, but you can't do much with that.

To get to that data, you have to pass it to .json() first and then you can see it.







```
▼ Object 🚺
 ▼ external_urls: Object
     spotify: "https://open.spotify.com/artist/00dUWJ0sBjDrqHygGUXeCF"
   ▶ __proto__: Object
 ▼ followers: Object
     href: null
     total: 530328
   ▶ __proto__: Object
 ▶ genres: Array[8]
   href: "https://api.spotify.com/v1/artists/00dUWJ0sBjDrqHygGUXeCF"
   id: "00dUWJ0sBjDrqHygGUXeCF"
 ▼ images: Array[3]
   ▼0: Object
       height: 640
       url: "https://i.scdn.co/image/0f9a5013134de288af7d49a962417f4200539b47"
       width: 640
     ▶ __proto__: Object
   ▶ 1: Object
   ▶2: Object
     length: 3
   ▶ __proto__: Array[0]
   name: "Band of Horses"
   popularity: 70
   type: "artist"
   uri: "spotify:artist:00dUWJ0sBjDrqHygGUXeCF"
 ▶ __proto__: Object
```

The result after passing the response to the .ison() method.

Now, this is the data from Spotify that we wanted.

Let's see how this is handled with Axios.

The first step in using Axios is installing Axios. You can use npm if you want to run axios in node or a cdn if you want to run it in your browser.

```
npm install axios
```

OR

https://admin_3.audflana_anm/ainu/liha/auda_/0_4F_3/auda__







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Then, in my console, I as method.

```
othe axios.get()
```

```
const url =
'https://api.spotify.com/v1/artists/00dUWJ0sBjDrqHygGUXeCF'
axios.get(url).then(response => console.log(response));
 > axios.get(url).then(response => console.log(response));
 ❖ ▶ Promise {[[PromiseStatus]]: "pending", [[PromiseValue]]: undefined}
   ▼ Object 🛐
     ▶ config: Object
     ▼ data: Object
       ▶ external_urls: Object
       ▶ followers: Object
       ▶ genres: Array[8]
         href: "https://api.spotify.com/v1/artists/00dUWJ0sBjDrqHygGUXeCF"
         id: "00dUWJ0sBjDrqHygGUXeCF"
       ▶ images: Array[3]
         name: "Band of Horses"
         popularity: 70
         type: "artist"
         uri: "spotify:artist:00dUWJ0sBjDrqHygGUXeCF"
       ▶ __proto__: Object
     ▶ headers: Object
     ▶ request: XMLHttpRequest
       status: 200
       statusText: "OK"
     ▶ __proto__: Object
```

So by using axios you can cut out the middle step of passing the results of the http request to the .json() method. Axios just returns the data object you would expect.

The second issue that Stephen brings up is how .fetch() handles error responses.

Logically you would think that if .fetch() gets an error it would enter the .catch() block and return anything there, right? Not necessarily. Here is an example.

I have altered my url variable from the previous examples so that it is now incorrect. I would expect a 400 error at this point and for my .fetch() to go into the .catch() block







```
const url =
'https://api.spotify.com/v1/artists/00dUWJ0sBjDrqHygGUXeCFcdsds';

fetch(url).catch(error => console.log('BAD', error)).then(response => console.log('G00D', response));
```

I've added the 'BAD' and 'GOOD' strings in the responses to clarify what is happening here.

```
> fetch(url)
    .catch(error => console.log('BAD', error))
    .then(response => console.log('G00D', response));

> Promise {[[PromiseStatus]]: "pending", [[PromiseValue]]: undefined}

Output

Output
```

I get the 400 response code but, as you can see by the 'GOOD' string in the console, the .then() block was executed. How does Axios handle this? The way you would probably expect. You get any kind of error with the http request and the .catch() block is executed.

```
> axios.get(url)
    .catch(error => console.log('BAD', error))
    .then(response => console.log('G00D', response));

> Promise {[[PromiseStatus]]: "pending", [[PromiseValue]]: undefined}

BAD Error: Request failed with status code 400
    at e.exports (https://unpkg.com/axios@0.15.3/dist/axios.min.js:2:7207)
    at e.exports (https://unpkg.com/axios@0.15.3/dist/axios.min.js:2:7061)
    at XMLHttpRequest.l.(anonymous function) (https://unpkg.com/axios@0.15.3/dist/axios
```

The 'BAD' string is there and the error is logged to the console.









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