

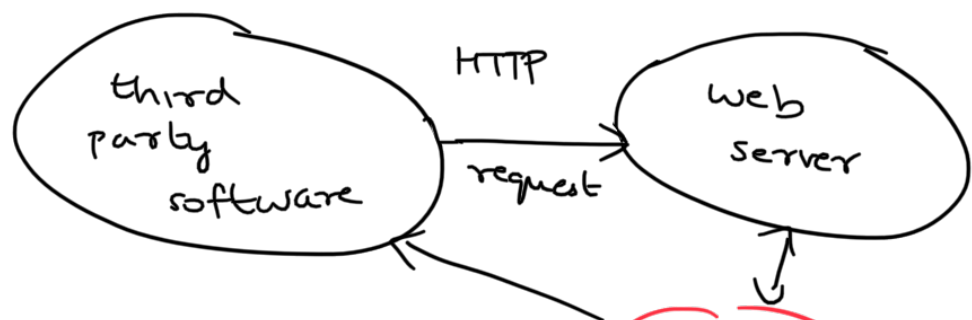
Connecting to API with JS

Ref: taniarascia.com/how-to-connect-to-an-api-with-javascript

API - (Application programming interface)

- set of methods of communication between various software components

webAPI -



CRUD

HTTP method

Create

POST

Read

GET

update

PUT/PATCH

delete

DELETE

(RESTful API - API conforming to certain architectural rules....)

baby app to get and display Studio Ghibli data



index.html

```
<!DOCTYPE html> <html lang="en">
<head>
```

```
<link href = "style.css", rel = "stylesheet" >
```

```
</head>
```

```
<body>
```

```
<div id = "root"> </div>
```

```
<script src = "scripts.js"> </script>
```

```
</body>
```

```
</html>
```

style.css

```
#root { max-width: 1200px;  
        margin: 0 auto;
```

```
}
```

```
• container {  
  display: flex;  
  flex-wrap: wrap;  
}
```

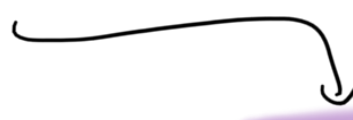
```
• card {  
  margin: 1rem;  
  border: 1px solid gray;  
}
```

```
⋮
```

Grid layout

<https://ghibliapi.herokuapp.com/films>

API end point



will talk about this later

Fetch

XMLHttpRequest

var request

= new XMLHttpRequest()

create new request,
assign new XMLHttpRequest object to it

request.open('GET', 'https://ghibliapi.herokuapp.com/films', true)

once req completed
↑
open GET using method

request.onload = function()

load this function on req being completed

parasy JSON output~
}

request.send()

Parsing JSON output

var data = JSON.parse(this.response)

data.forEach

(movie) => { console.log(movie.title) }

errors

200

↓

404

OK

NOT
found

If (request.status \geq 200 && request.status < 400)

{

}

else {

console.log('error')

}

Displaying data extracted from API

const app = document.getElementById
(`root`);

const logo = document.createElement(`img`)

logo.src = `logo.png`

const container = document.createElement
(`div`)

container.setAttribute(`class`, `container`)

app.appendChild (logo)

app.appendChild (container)

```
var data = JSON.
```

```
data.forEach(
```

```
(movie) => {
```

```
const card = document.createElement('div')
```

```
card.setAttribute('class', 'card')
```

```
const h1 = document.createElement('h1')
```

```
h1.textContent = movie.title
```

```
const p = document.createElement('p')
```

```
movie.description = movie.description.substring(0, 300)
```

```
p.textContent = ` ${movie.description} ...`
```

```
Container.appendChild(card)
```

```
card.appendChild(h1)
```

```
card.appendChild(p)
```

```
}
```

formatted string ...

Fetch

JSON feed

fetch (https://ghibliapi.herokuapp.com/

films')

response object
returned by
fetch...

• then ((response) => {

... response.json()

return

})

. then ((data) => {
console.log(data)
})

)

. catch (err) => {

// Do something with error...

}) ;

→ 404, 500 etc also won't be errors--