



LEARN. BUILD. CHANGE THE WORLD.

Review of forEach and async

Week 1 Day 4 - June 9, 2022 - Doug Case

Week 1 Day 4 Goals

- Review forEach and for loops
- Review sync and await
- Leave lots of time for week 1 Flixster Project!

Loops in JS - 4 ways to accomplish

```
let names = ["Stephane", "Amber", "Valerie", "Nnaemeka"];
```

```
for (let i = 0; i < names.length; i++) {  
  console.log(names[i]);  
}
```

```
for (let name of names) {  
  console.log(name);  
}
```

```
// the forEach() method executes a provided function once for each array element  
names.forEach(function(name) {  
  console.log(name);  
});
```

```
names.forEach(function(name, idx) { // optional second parm (index)  
  console.log(name, idx);  
});
```

Loops in JS - results

Stephane
Amber
Valerie
Nnaemeka

Stephane
Amber
Valerie
Nnaemeka

Stephane
Amber
Valerie
Nnaemeka

Stephane 0
Amber 1
Valerie 2
Nnaemeka 3

Lab3 displayResults for loop, forEach(): thx Miles/Dylan!

```
let resultsArea = document.querySelector("#my-results-area");

let myApiData = {
  // <whole object is in here ... >
};
console.log(myApiData);
displayResults(myApiData); // two different ways to accomplish the same thing
displayResults2(myApiData); // same effect as displayResult

function displayResults(apiData) {          // old-fashioned for loop
  for (let i = 0; i < apiData.data.length; i++) {
    resultsArea.innerHTML += `
      <img src=${apiData.data[i].images.original.url}>
    `
  }
}

function displayResults2(apiData) {          // forEach loop
  apiData.data.forEach(function(element){
    resultsArea.innerHTML += '';
  });
}
```

Review example of async function with await

```
let pokemonForm = document.querySelector("form");  
let pokemonArea = document.querySelector("#pokemon-area");
```

```
// (1) control the form behavior upon submit  
pokemonForm.addEventListener("submit", getPokemon);
```

```
async function getPokemon(evt) {  
  // this prevents the page from re-loading  
  evt.preventDefault();  
  let apiUrl = "https://pokeapi.co/api/v2/pokemon/" + evt.target.pokemon.value.toLowerCase();  
  // (2) upon form submit, call the Pokemon API  
  let response = await fetch(apiUrl);  
  let responseData = await response.json();  
  // (3) put some results of the pokemon API call onto page  
  generateHTML(responseData);  
}
```

```
function generateHTML(pokeData) {  
  pokemonArea.innerHTML = `  
    <h1>${pokeData.species.name}</h1>  
    <p>Height: ${pokeData.height}</p>  
    <p>Weight: ${pokeData.weight}</p>  
      
  `;  
}
```

JSON

- Called **JSON**: JavaScript Object Notation
- JSON is syntactically correct JS object - perfect to convert to JS
- There are packages that easily convert JSON to Java, C, Python, etc
- <https://jsonlint.com> will format JSON and tell you if it is valid format

Happy Coding - short break first!

