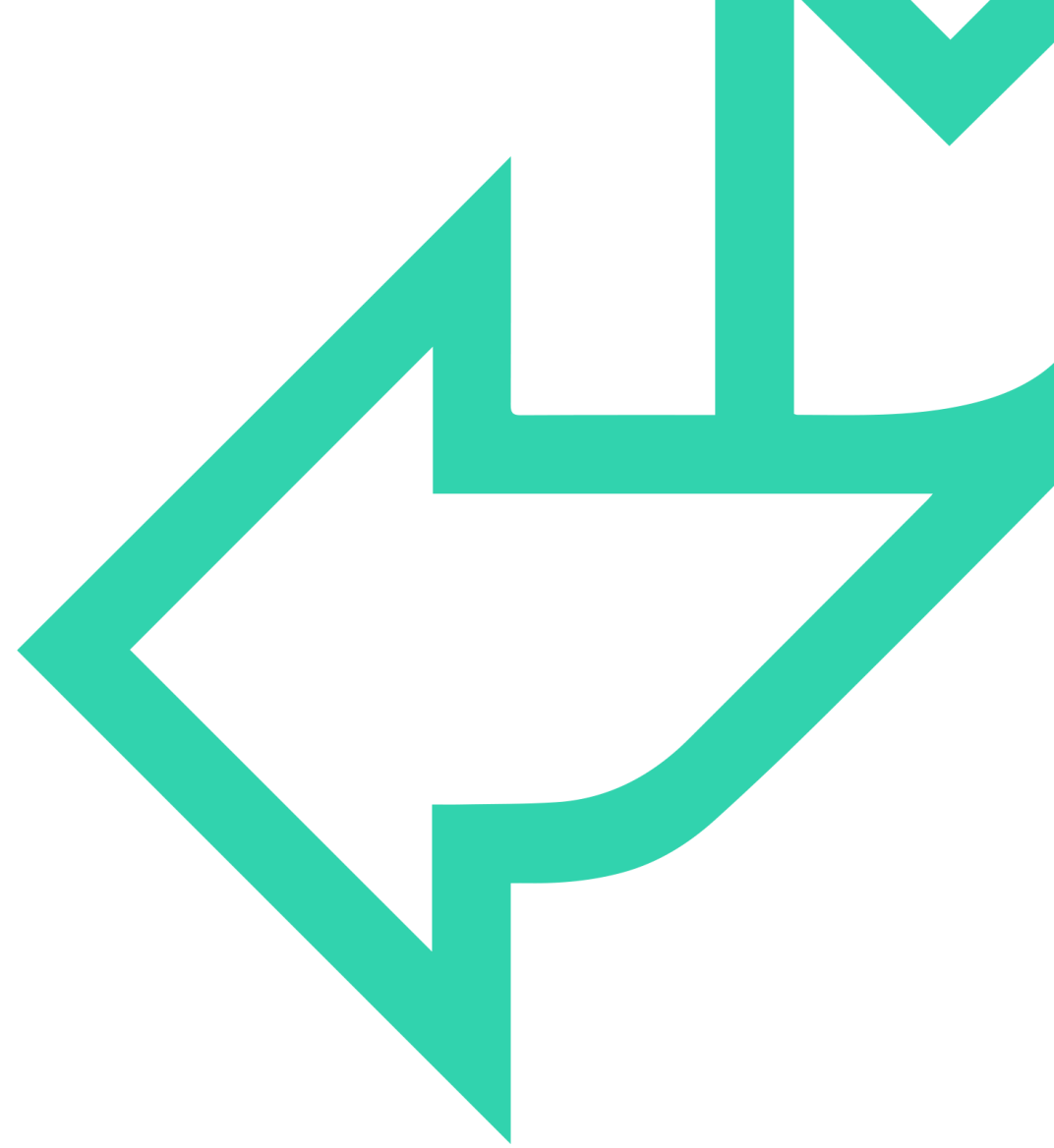# Maps

→ **JavaScript Fundamentals**

INTRODUCTION

Collections

- Maps
- Creating
- **Accessing**

Maps

- Key/Value pairs where both Key and Value can be any type

```
let myMap = new Map([[1,"bananas"],[2,"grapefruit"],[3,"apples"]]);
```

- With some helpful methods

```
console.log(myMap.size) //3

myMap.set(4, "strawberries");
console.log(myMap.size); //4

console.log(myMap.get(4)); //"strawberries"
console.log(myMap.has(2)); //true

myMap.delete(3);
console.log(myMap.size); //3

myMap.clear();
console.log(myMap.size); //0
```

Maps: Iterating

- We can iterate over a map using for...of

```javascript
// log all key/value pairs in the map
for (let [key, value] of myMap) {
    console.log(`key: ${key} value: ${value}`);
}
// log all keys in the map
for (let key of myMap.keys()) {
    console.log(`key: ${key}`);
}
// log all values in the map
for (let value of myMap.values()) {
    console.log(`value: ${value}`);
}
// log all entries (key/value pairs) in the map
for (let [key, value] of myMap.entries()) {
    console.log(`key: ${key} value: ${value}`);
}
```

QuickLab 18 - Maps

Creating and Managing Maps

REVIEW

- Arrays and Objects are essential collections that allow us to gather data under one roof that can then be acted upon in a coherent and concise manner