

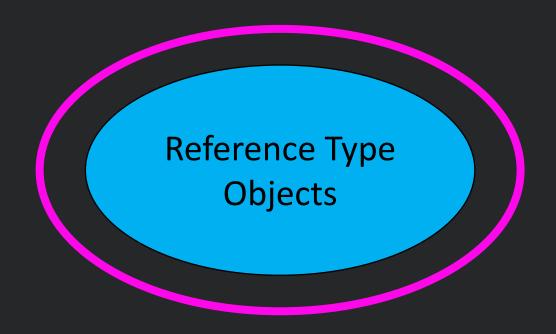
JS Data Types

(part 2: array)



Data Types

Value Types **Primitive Types**



```
const a = [1, 2, 3];
console.log(typeof a); // => object
```



✓ Add any type of data:

```
const arr = [1, 2, 3, "Bon", "Nam"];
```

✓ Can access out of range index:

```
console.log(arr[100]); // undefined
```

✓ Also can add element at any position:

```
arr[100] = 100;
console.log(arr.length); // 101
```

✓ Add property for array:

```
const arr = [1, 2, 3];
arr["name"] = "Jim";
arr.age = 10;
```

✓ Another way to create array:

```
const a = [1, 2, 3]; // literal method const b = new Array(1, 2, 3);
```

✓ Note for const array:

```
const arr = [1, 2, "ba", "bon"];
arr[1] = "Mot"; //? OK
arr = []; //! ERROR
```

✓ Wrapper Object: Array

```
Array.isArray()
```

✓ looping:

```
for (let i = 0; i < arr.length; i++) {</pre>
  console.log(arr[i]);
for (const x of arr) {
  console.log(x);
                                                    (for-of loop)
for (const index in arr) {
                                                    (for-in loop)
  console.log(arr[index]);
                                                    (like a dictionary)
a.forEach((e) \Rightarrow \{
  console.log(e);
});
```

3. Stack

```
✓ array + push, pop = stack

const myStack = [];
myStack.push(1);
myStack.push(2);
myStack.push(3);

while (myStack.length > 0) {
   console.log(myStack.pop());
}
//=> 3, 2, 1
```

3. Queue

✓ array + push, shift = queue

```
const myQueue = [];
myQueue.push(1);
myQueue.push(2);
myQueue.push(3);

while (myQueue.length > 0) {
  console.log(myQueue.shift());
}
//=> 1, 2, 3
```

3. Dequeue

✓ array + push, pop, unshift, shift = double ended queue



√splice

Để add hoặc remove phần tử ở vị trí bất kỳ

√slice

Để lấy 1 đoạn bất kỳ trong array (giống hệt substring)

✓concat

Nối 2 array

3. Refs

https://devdocs.io/javascript-array/

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Array

https://www.w3schools.com/JSREF/jsref obj array.asp





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