# Array Methods with Callbacks - reduce()

- What is the array method?
  - array.reduce()
- How is it used?
  - Reduces all of the array values into a single value...
- What does it return? A single value:
  - String array: Concatenates into a single string (have to use +)
  - Number array: Reduces to a single number (sum, difference, etc.)
- Give an example of how to use it.

```
const exampleArray = [1, 2, 3, 4].reduce(
 (num1, currentNum) => num1 + currentNum
)
console.log(exampleArray);
```

- What are some key things to remember about this method?
  - The reduce() method executes a provided function for each value of the array (from left-to-right).
  - The return value of the function is stored in an accumulator (result/total).
  - Note: reduce() does not execute the function for array elements without values.
  - Note: this method does not change the original array.
  - Can combine with other methods like .map, .forEach, .filter, etc.