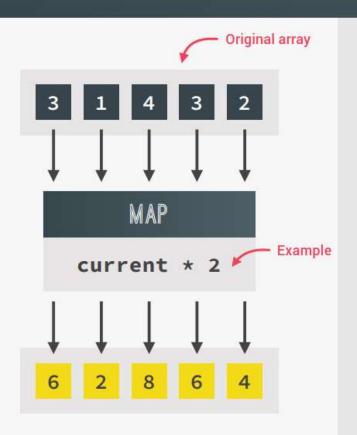
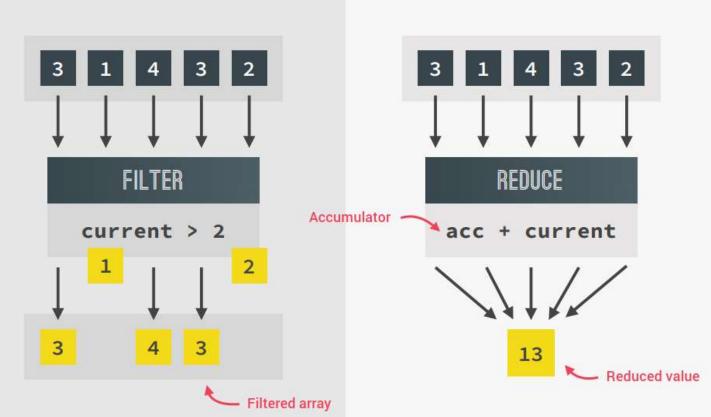
DATA TRANSFORMATIONS WITH MAP, FILTER AND REDUCE



map returns a new array containing the results of applying an operation on all original array elements



filter returns a **new array**containing the array elements that

passed a specified **test condition**reduce boils ("reduces") all array
elements down to one single value
(e.g. adding all elements together)

WHICH ARRAY METHOD TO USE? 🤔



"I WANT...:"

To mutate original array

Add to original:

.push (end)

.unshift (start)

Remove from original:

(end) .pop

.shift (start)

.splice (any)

Others:

.reverse

.sort

.fill

A new array

Computed from original:

(loop) .map

Filtered using condition:

.filter

Portion of original:

.slice

Adding original to other:

.concat

Flattening the original:

.flat

.flatMap

An array index

Based on value:

.index0f

Based on test condition:

.findIndex

An array element

Based on test condition:

.find

Know if array includes

Based on value:

.includes

Based on test condition:

.some

.every

A new string

Based on separator string:

.join

To transform to value

Based on accumulator.

.reduce

(Boil down array to single value of any type: number, string, boolean, or even new array or object)

To just loop array

Based on callback:

.forEach

(Does not create a new array, just loops over it)