

# map() vs forEach()



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## Purpose

### **map()**

Transforms each element and returns a new array

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### **forEach()**

Executes a function on each element (no return)

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## Return Value

**map()**

Returns a new array

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**forEach()**

Returns undefined

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# Chainable

## map()

Yes — you can chain methods after map()

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## forEach()

No — cannot chain after forEach()

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# Original Array

**map()**

Not modified

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**forEach()**

Not modified

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## Use Case

### map()

When you need a transformed array

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### forEach()

When you just need to perform side-effects  
(e.g., logging, updating UI)

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# Performance

## map()

Slightly slower (creates a new array)

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## forEach()

Slightly faster for simple operations

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# Mutability

## map()

Immutable (creates a copy)

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## forEach()

Immutable (does not change original array)

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**Sanuj Bansal**  
Senior Developer