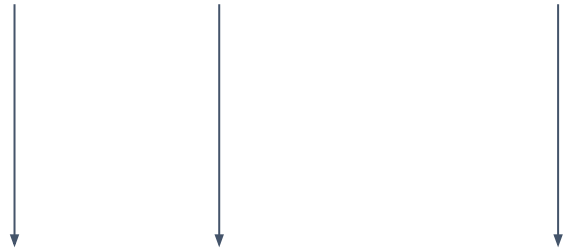


Transforming Data



Map

`data1` = [a1, a2, ..., aN]



`data2` = [b1, b2, ..., bN]

JS API | *array.map*

Syntax:

`array.map(func)`



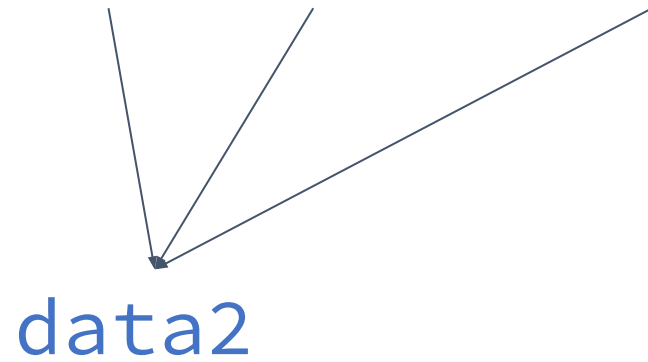
```
function(elm, index, arr) {  
    return newValue  
}
```

Example

```
let ages = data.map(  
  function(client){  
    return client.age  
  }  
)
```

Reduce

`data1` = [a1, a2, ..., aN]



JS API | *array.reduce*

Syntax:

```
array.reduce(  
  reducer,  
  initialValue  
)
```

Reducer

```
function(  
  accumulator,  
  currValue,  
  index,  
  arr  
) {  
  return newValue  
}
```

Example

```
data = [1,2,3,4]
```

```
data.reduce(function(acc, value) {  
    return acc+value  
}, 3)
```


Example

```
data = [1,2,3,4]
```

```
data.reduce(function(acc, value) {  
    return acc+value  
}, 3)
```

1st: acc = 3, value = 1, return 4

Example

```
data = [1,2,3,4]
```

```
data.reduce(function(acc, value) {  
    return acc+value  
}, 3)
```

1st: acc = 3, value = 1, return 4

2nd: acc = 4, value = 2, return 6

Transform

Map and Reduce