

# P1: fruits array demo using map,filter,find,reduce

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• app.js - theme - Visual Studio Code

index.html app.js data.js

1 const updateFruits = fruits.map( (fruit)->{  
2     fruit.role = 'fruit'  
3     //console.log(fruit);  
4     return fruit;  
5 })  
6 console.log('updateFruits',updateFruits);  
7 const highPrice = fruits.filter((fruit)->{  
8     // if(fruit.price >20){  
9         return fruit;  
10     // }  
11     //if(fruit.price>20)return fruit;  
12     return fruit.price >20  
13 })  
14 console.log('highPrice ',highPrice)  
15 const specificId = fruits.find((fruit)->{  
16     return fruit.id ===1;  
17 })  
18 console.log('specificId',specificId)  
19 const averagePrice = fruits.reduce((priceTotal,fruit)->{  
20     // console.log('fruit',fruit)  
21     // console.log('priceTotal',priceTotal)  
22     return priceTotal + fruit.price;  
23 },0)/fruits.length;  
24 console.log('averagePrice',averagePrice)  
25 const survey = fruits.reduce((survey,fruit)->{  
26     // console.log('color',fruit.color)  
27     const color = fruit.color  
28     if (survey[color]){  
29         survey[color] =survey[color]+1  
30     }  
31     else{  
32         survey[color]=1;  
33     }  
34     return survey;  
35 }, {});  
36 console.log('survey',survey)  
37

DOM Array Methods

Add User

Person Wealth

Elements Console Sources Network Performance

Filter

updateFruits  
▼ (5) [(-), (-), (-), (-), (-)]  
▶ 0: {id: 1, name: 'banana', price: 30, color: 'green', role: 'fruit'}  
▶ 1: {id: 2, name: 'apple', price: 25, color: 'red', role: 'fruit'}  
▶ 2: {id: 3, name: 'melon', price: 40, color: 'green', role: 'fruit'}  
▶ 3: {id: 4, name: 'kiwi', price: 22, color: 'brown', role: 'fruit'}  
▶ 4: {id: 5, name: 'orange', price: 15, color: 'orange', role: 'fruit'}  
length: 5  
▶ [[Prototype]]: Array(0)

highPrice  
▼ (4) [(-), (-), (-), (-)]  
▶ 0: {id: 1, name: 'banana', price: 30, color: 'green', role: 'fruit'}  
▶ 1: {id: 2, name: 'apple', price: 25, color: 'red', role: 'fruit'}  
▶ 2: {id: 3, name: 'melon', price: 40, color: 'green', role: 'fruit'}  
▶ 3: {id: 4, name: 'kiwi', price: 22, color: 'brown', role: 'fruit'}  
length: 4  
▶ [[Prototype]]: Array(0)

specificId  
▶ {id: 1, name: 'banana', price: 30, color: 'green', role: 'fruit'}

averagePrice 26.4

survey  
▼ {green: 2, red: 1, brown: 1, orange: 1}  
brown: 1  
green: 2  
orange: 1  
red: 1  
▶ [[Prototype]]: Object

Console

arrayDemo\_theme.zip

全部显示

# P2: get random User three times

### P3: add 6 users to the DOM

The screenshot shows a web browser with a JavaScript application. The application has a table with two columns: 'Person' and 'Wealth'. The data is as follows:

Person	Wealth
Arlene Nogueira	\$2,678,049.00
Naomi Oliver	\$814,130.00
Theo L��vesque	\$8,767,062.00
Emilija Grytten	\$6,610,060.00
Evangelos Sch��tt	\$7,640,702.00
Carola Nielsen	\$2,845,014.00

The browser's developer tools are open, showing the console with the results of the Array methods used in the application. The console shows the results of the `map` method, which is an array of objects with `name` and `money` properties. The results are:

```
[{"name": "Arlene Nogueira", "money": 2678049}, {"name": "Naomi Oliver", "money": 814130}, {"name": "Theo L  vesque", "money": 8767062}, {"name": "Emilija Grytten", "money": 6610060}, {"name": "Evangelos Sch  tt", "money": 7640702}, {"name": "Carola Nielsen", "money": 2845014}]
```

## P4: add 6 users first, then filter condition set to > 30000000

The screenshot shows a web application titled "DOM Array Methods". On the left, there are five buttons: "Add User", "Double Money", "Show Only Millionaires", "Sort by Richest", and "Calculate entire Wealth". The main table displays the following data:

Person	Wealth
Alexandra Castro	\$6,061,411.00
Jurij Kipp	\$9,540,917.00
پوريا سلطاني نژاد	\$8,435,101.00
Marlene Fuller	\$5,015,363.00

The DevTools console shows the following data:

```
data
  (6) [(-), (-), (-), (-), (-), (-)]
  0: {name: 'Alexandra Castro', money: 6061411}
  1: {name: 'Kenneth Utne', money: 2042346}
  2: {name: 'Jurij Kipp', money: 9540917}
  3: {name: 'Frederikke Petersen', money: 27438}
  4: {name: 'پوريا سلطاني نژاد', money: 8435101}
  5: {name: 'Marlene Fuller', money: 5015363}
  length: 6
  [[Prototype]]: Array(0)

filteredData
  (4) [(-), (-), (-), (-)]
  0: {name: 'Alexandra Castro', money: 6061411}
  1: {name: 'Jurij Kipp', money: 9540917}
  2: {name: 'پوريا سلطاني نژاد', money: 8435101}
  3: {name: 'Marlene Fuller', money: 5015363}
  length: 4
  [[Prototype]]: Array(0)
```

## P5: use config for three buttons

The screenshot shows a web application titled "DOM Array Methods". On the left, there are four buttons: "Add User (5)", "Raise 1.5 money", "Show > 2000000", and "Sort by Richest". The main table displays the following data:

Person	Wealth
Elli Jarvinen	\$903,711.00
Esperanza Pastor	\$5,746,728.00
Larry Fletcher	\$7,405,662.00

The DevTools console shows the following data:

```
data
  (3) [(-), (-), (-)]
  0: {name: 'Elli Jarvinen', money: 903711}
  1: {name: 'Esperanza Pastor', money: 5746728}
  2: {name: 'Larry Fletcher', money: 7405662}
  length: 3
  [[Prototype]]: Array(0)

filteredData
  (3) [(-), (-), (-)]
  0: {name: 'Elli Jarvinen', money: 903711}
  1: {name: 'Esperanza Pastor', money: 5746728}
  2: {name: 'Larry Fletcher', money: 7405662}
  length: 3
  [[Prototype]]: Array(0)
```

```
const config = {  
  numRandom: 5,  
  ratio: 1.5,  
  showCondition: 2000000,  
};
```