

# JavaScript Array filter()

- description : JavaScript Array filter()
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## Definition and Usage

`filter()`

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## Syntax

```
arr.filter(callback(element[, index[, array]][, thisArg])); // from mdn  
web docs Array.prototype.filter()
```

```
array.filter(function(currentValue, index, arr), thisValue); // from  
w3schools JS Array filter()
```

## Parameter

Parameter	Description
function()	,
currentValue	,
index	,
arr	,
thisValue	, Default <b>undefined</b> <b>this</b> value

## Example

```
const ages = [32, 33, 16, 40];
```

```
const filtered = ages.filter(function(age){return age >= 18;});
console.log(filtered); // [ 32, 33, 40 ]
console.log(typeof filtered); // object
console.log(Array.isArray(filtered)); // true

const filtered2 = ages.filter((age) => {return age >=18;});
console.log(filtered2); // [ 32, 33, 40 ]

const filtered3 = ages.filter((age) => age >= 18);
console.log(filtered3); // [ 32, 33, 40 ]

const filtered4 = ages.filter(age => age >= 18);
console.log(filtered4); // [ 32, 33, 40 ]
```

Apps chart.js

## Ex1

```
let devCount = '0';
let cmmnCount = '0';
let mntnCount = '0';
let projCount = '0';
let cmpyCount = '0';

for (let k = 0; k < data.checklistV0.length; k++) {

    if(data.checklistV0[k].checklistCat === '2') {
        devCount++;
    }

    if(data.checklistV0[k].checklistCat === '3') {
        cmmnCount++;
    }

    if(data.checklistV0[k].checklistCat === '4') {
        mntnCount++;
    }

    if(data.checklistV0[k].checklistCat === '5') {
        projCount++;
    }

    if(data.checklistV0[k].checklistCat === '6') {
        cmpyCount++;
    }

}
```

## Ex2

```
let checklistObj = data.checklistV0;

let devCount = '0';
let cmmnCount = '0';
let mntnCount = '0';
let projCount = '0';
let cmpyCount = '0';

for (let k = 0; k < checklistObj.length; k++) {

  if(checklistObj[k]['checklistCat'] === '2') {
    devCount++;
  }
  if(checklistObj[k]['checklistCat'] === '3') {
    cmmnCount++;
  }
  if(checklistObj[k]['checklistCat'] === '4') {
    mntnCount++;
  }
  if(checklistObj[k]['checklistCat'] === '5') {
    projCount++;
  }
  if(checklistObj[k]['checklistCat'] === '6') {
    cmpyCount++;
  }
}
```

## Ex3

```
let checklistObj = data.checklistV0;

let devCount = '0';
let cmmnCount = '0';
let mntnCount = '0';
let projCount = '0';
let cmpyCount = '0';

// checklistObj      checklistCat === 2
//                   devCount
devCount = (checklistObj.filter(item => item['checklistCat'] ===
'2')).length;
cmmnCount = (checklistObj.filter(item => item['checklistCat'] ===
'3')).length;
mntnCount = (checklistObj.filter(item => item['checklistCat'] ===
'4')).length;
```

```
projCount = (checklistObj.filter(item => item['checklistCat'] === '5')).length;  
cmpyCount = (checklistObj.filter(item => item['checklistCat'] === '6')).length;
```

## Ref Link

[JavaScript]

Array.prototype.filter()

JavaScript Array filter()

, filter()

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