

### Web Expert

#### **Objects & functions**

#### DE HOGESCHOOL MET HET NETWERK

Hogeschool PXL - Dep. PXL-IT - Elfde-Liniestraat 26 - B-3500 Has www.pxl.be - www.pxl.be/facebook



### Destructuring

Object literal uitpakken in 1 of meerdere variabelen

```
let person = { id:1, name:'tim' };
let id;
{ id } = person;

let person = { id:1, name:'tim' };
let id, name;
{ id, name } = person;

let person = { id:1, name:'tim' };
let { id, name } = person;
```



#### **Shorthand notation**

Waarde van een bestaande variabele gebruiken als veld in nieuw object

```
let id = 1;
let person = { id, name:'tim' };
// ipv let person = { id:id, name: 'tim' };

let id = 1;
let name = 'tim';
let person = {id, name};
// ipv let person = {id: id, name: name};
```



#### Functions (map, filter, reduce)

```
let persons = [
    { id: 1, name: 'pauline', age: 15 },
    { id: 2, name: 'tim', age: 9 },
    { id: 3, name: 'sofie', age: 7 }
];
let ages = persons.map( function(person) {return person.age;} );
console.log( ages );  // [15, 9, 7]
```

map: pas function toe op elke waarde in een array om een nieuwe array te maken



#### **Arrow notation function**

(map, filter, reduce)

reduce: array wordt herleid tot één waarde adhv function



### Arrow notation function (map filter reduce)

```
let persons = [
    { id: 1, name: 'sofie', age: 15 },
    { id: 2, name: 'tim', age: 9 },
    { id: 3, name: 'sofie', age:7 }
];
let youngPersons = persons.filter( (person) => person.age < 12);
console.log( youngPersons );</pre>
```

filter: nieuwe array met enkel die waarden die voldoen aan de voorwaarde



#### **Arrow notation function**

(map filter reduce)

```
let persons = [
    { id: 1, name: 'pauline', age: 15 },
    { id: 2, name: 'tim', age: 9 },
    { id: 3, name: 'sofie', age: 7 }
];

let sumAgesOfYoungPersons = persons
    .filter( (person) => person.age < 12 )
    .reduce( (sum, person) => { return sum + person.age; } , 0);

console.log( sumAgesOfYoungPersons );
```



# Arrow notation function (forEach)

```
let person={
    name: 'tim',
    hobbies:['reading', 'running'],
    print(){
        console.log(this.name);
        this.hobbies.forEach( (hobby) => {
              console.log(`${this.name} has hobby ${hobby}`);
        });
                                               tim has hobby reading
                                               tim has hobby running
person.print()
```



In arrow functions this retains the value of the enclosing lexical context's this dus hier this komt overeen met person-object

# Arrow notation function (forEach)

```
let person={
    name: 'tim',
    hobbies:['reading', 'running'],
    print(){
        console.log(this.name);
        this.hobbies.forEach( function( hobby ) {
              console.log(`${this.name} has hobby ${hobby}`);
        });
                                          tim
                                          undefined has hobby reading
                                          undefined has hobby running
person.print()
```

In een function:

this = object als de function deel uitmaakt van object **global** anders



this maakt hier deel uit van de anonieme functie dus global

### **Arrow notation function**(find)

```
{ id: 1, name: 'tim' }
undefined
```

