

# Objects

## Absence of information

```
let a; //undefined
let b = null; // null object, done on purpose
let c = 0; // the value stored is 0/none
let d = ""; //an empty string, string with no value
```

## Check if something is true or false

```
let x = "";
console.log(Boolean(x));
//same as writing:
if (""){
    console.log("true");
} else{
    console.log("false");
}
```

## Values that are true

```
console.log(Boolean(" ")) //string with only a space  
console.log(Boolean("0")) //string with value 0  
console.log(Boolean([])) // an empty array  
console.log(Boolean({})) // empty object
```

## Useful when getting resources

```
let userInfo = server.getUser;
if (userInfo) {
    //there was info gotten
}else{
    //got no info
}
```

## Creating Objects

```
let obj = {  
    value1: 45,  
    value2: "Example"  
}
```

Used to represent a thing with data belonging to it

```
let person = {  
    firstName: "Henrik",  
    lastName: "Olsen",  
    birthYear: 1975,  
    children: null,  
}
```

## Using the data

```
console.log(person.firstName + " " + person.lastName);
```

## Adding and editing information

```
person.lastName = "Henriksen"; //change value  
person.age = 47; // add new value  
console.log(person);
```

# Array of objects

```
let person1 = {  
    firstName: "Henrik",  
    lastName: "Olsen",  
    birthYear: 1975,  
    children: null,  
}  
let person2 ={  
    firstName: "Mathea",  
    lastName: "Olsen",  
    birthYear: 1942,  
    children: person1,  
}  
  
let people = [person1, person2]
```

## Array of objects

```
console.log(people[1])
console.log(people[1].firstName)
console.log(people[1] === person2);
```

## Using loops

```
for(let i= 0; i<people.length; i++){
    console.log(people[i]);
}
```

## Declaring directly into array

```
let products = [  
  {  
    id: 327,  
    name: "Product 1",  
    price: 99.99,  
  },  
  {  
    id: 968,  
    name: "Product 2",  
    price: 50.95,  
  },  
];
```

## Find object based on value

```
for (let i = 0; i < products.length; i++) {  
    if (products[i].id === 968) {  
        console.log(i + " " + products[i].price);  
    }  
}
```