

## Class 13 - class 14:

### Truthy and falsy values

#### Falsy Values

- False
- 0
- ""
- Null
- Undefined
- NaN

Everything else is a truthy value

### Nesting conditionals

```
if(){  
    if(){  
    }  
}else{  
}
```

### Ternary conditional operator

Condition? value: value

Logical operators - combine logic together

#### Logical AND (&&)

TRUE && TRUE → TRUE  
TRUE && FALSE → FALSE  
FALSE && TRUE → FALSE  
FALSE && FALSE → FALSE

#### Logical OR (||)

TRUE || TRUE → TRUE  
TRUE || FALSE → TRUE  
FALSE || TRUE → TRUE  
FALSE || FALSE → FALSE

#### Logical NOT (!)

!TRUE → FALSE  
!FALSE → TRUE

## Callback functions

A function that expects another function as an argument

```
function callFunc (func){  
    func()  
    func()  
}
```

```
function print(){  
    console.log('hi')  
}
```

## More array methods

indexOf - return the element at the given index or returns -1 if doesn't exist.

array.indexOf(element)

Includes - returns true if the element exists and false if it doesn't.

array.includes(element)

Reverse - reverses an array in-place.

Array.reverse()

Filter - filters the array and returns a copy of the filtered array.

array.filter(callbackfunction)

Foreach - loops through the array like for loop.

array.forEach(callbackfunction)

Map - loops through the array and returns a new array.

array.map(callbackfunction)

## While loop

```
while(condition){  
  
}
```

## **Type conversion**

Convert to a number

Number()

Convert to a string

String()

Convert to a boolean

Boolean()

## **Type coercion**

A number concatenated with a string will turn into a string.

## **Objects**

```
Let obj = {  
    Key: value,  
    .  
    .  
}
```

Every key will be turned into a string

## **Access data from the obj**

obj.key

obj["key"]

## **Modifying objects**

Obj.key = newValue

## **Add a new property to objects**

Obj.newKey = value

Obj['newKey'] = value

## **Loop through an object**

For in

```
for (key in object) {  
  
}
```

**String literal template**

``${expression} string``

**Object Methods****Object.keys**

Return array of the keys

**Object.values**

Returns array of the values

**Object.entries**

Returns nested array of key-value pairs

**Some interview questions on what we covered so far**

- 1- What's the difference between == and ===?
- 2- Does JavaScript support automatic type conversion?
- 3- What would be the result of 3+2+"7"?
- 4- What is an undefined value in JavaScript?
- 5- What are escape characters?
- 6- What is the unshift method in JavaScript?
- 7- How are object properties assigned?
- 8- What is the for-in loop in Javascript?
- 9- Is JavaScript a case-sensitive language?
- 10- What is the difference between null & undefined?