



WEEKEND LABS

SESSION: 6

JAVASCRIPT.js



OBJECT ORIENTED PROGRAMMING

- Constructor Function
- ES6 Classes



CONSTRUCTOR FUNCTION

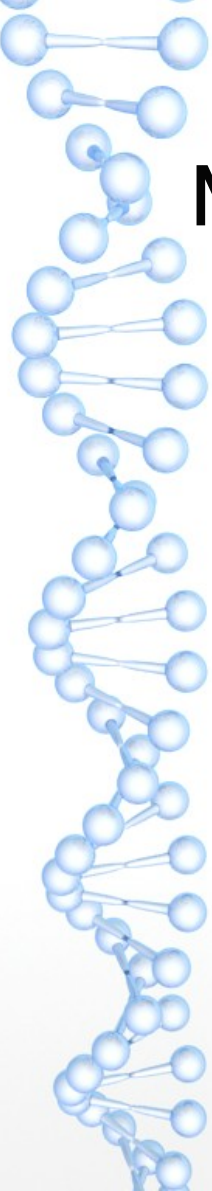
// Constructor Function

```
function Person(firstname, lastname, dob) {  
    this.firstname= firstname;  
    this.lastname= lastname;  
    this.dob= new Date(dob);  
}
```



How to manipulate the objects?

```
function Person(firstname, lastname, dob) {  
  this.firstname= firstname;  
  this.lastname= lastname;  
  this.dob= new Date(dob);  
  this.getBirthYear = () => {  
    return this.dob.getFullYear();  
  }  
  this.getFullName = () => {  
    return `${this.firstname} ${this.lastname}`  
  }  
}
```



Neater way to manipulate("syntactic sugar")

```
function Person(firstname, lastname, dob) {  
    this.firstname= firstname;  
    this.lastname= lastname;  
    this.dob= new Date(dob);  
}  
  
Person.prototype.getBirthYear = () => {  
    /*          ....          */  
}
```



Welcome to ES6: Classes

```
class Person(firstname, lastname, dob) {  
  constructor(firstname, lastname, dob) {  
    this.firstname= firstname;  
    this.lastname= lastname;  
    this.dob= new Date(dob);  
  }  
  getBirthYear = () => {}  
}
```

DOM Manipulation

Document Object Model

`document.getElementById()`

`document.querySelector()`

`document.querySelectorAll()`

`document.getElementsByClassName()`

`document.getElementsByTagName()`



DOM Manipulation

AddEventListener

Event object

Target manipulation

Change styles on various occasions dynamically



AJAX

Asynchronous JavaScript and XML