

Modules

ECMAScript 6 Fundamentals

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pluralsight 
hardcore dev and IT training

An IIFE Module

```
(function(target) {  
  
    var privateDoWork = function(name) {  
        return name + " is working";  
    };  
  
    var Employee = function(name) {  
        this.name = name;  
    }  
  
    Employee.prototype = {  
        doWork: function() {  
            return privateDoWork(this.name);  
        }  
    }  
  
    target.Employee = Employee;  
  
})(window));
```

Organize

Control
visibility

CommonJS

```
var privateDoWork = function(name) {  
    return name + " is working";  
};  
  
var Employee = function(name) {  
    this.name = name;  
}  
  
Employee.prototype = {  
    doWork: function() {  
        return privateDoWork(this.name);  
    }  
}  
  
exports.Employee = Employee;  
  
// or, if there is more ..  
//exports.Employee = Employee;  
//exports.Another = SomethingElse;
```

```
var Employee = require("./Employee").Employee;  
  
var e1 = new Employee("Scott");  
console.log(e1.doWork());
```

AMD

```
// employee.js
define(function() {

    var privateDoWork = function () {
        // ...
    };

    var Employee = function(name){
        // ....
    }

    return Employee;

});
```

```
define(["employee"], function(Employee){
    var e = new Employee("Scott");
});
```

ES6 Modules

```
export class Employee {  
  constructor(name) {  
    this._name = name;  
  }  
  
  get name() {  
    return this._name;  
  }  
  
  doWork {  
    return `${this._name} is working`;  
  }  
}
```

```
import {Employee} from './es6/employee';  
  
var e = new Employee("Scott");  
e.doWork();
```

module and default

```
export default class Employee {  
  constructor(name) {  
    this._name = name;  
  }  
  
  get name() {  
    return this._name;  
  }  
  
  doWork() {  
    return `${this.name} is working`;  
  }  
}
```

```
import factory from "./es6/Employee";
```

```
module employees from "./es6/Employee";  
  
var e = employees.Employee("Scott");
```

Hiding The Details

```
let privateFunction = function () {  
  // ...  
};  
  
export class Employee {  
  constructor(name) {  
    this._name = name;  
  }  
  
  get name() {  
    return this._name;  
  }  
  
  doWork() {  
    return `${this.name} is working`;  
  }  
}
```

Summary

```
export class Employee {  
  constructor(name) {  
    this._name = name;  
  }  
  
  get name() {  
    return this._name;  
  }  
  
  doWork {  
    return `${this._name} is working`;  
  }  
}
```

```
import {Employee} from './es6/employee';  
  
var e = new Employee("Scott");  
e.doWork();
```