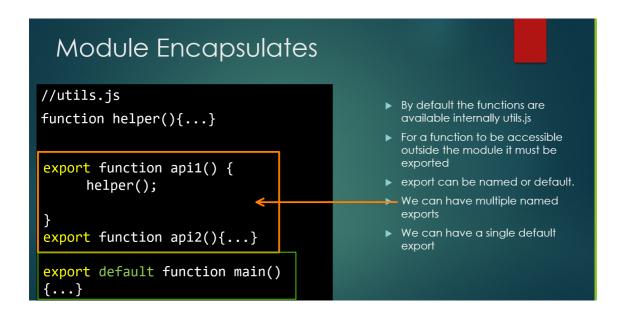
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## ES2015 Modules

Wednesday, March 16, 2022 3:59 PM

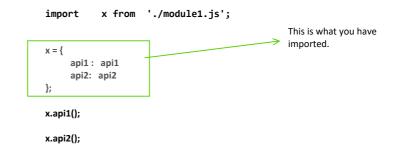
- · A module is a collection of functionality
- Each .js file forms a module
- All functionality within one module is by default private
  - o Can be used only within that module.
- We can export selected functionality
  - o Exported functionality can be used for other functions



## Module internals

- Think of a module as an object in javascript
- The module object will contain all the exports

```
//module1.js
export function api1() {...}
export function api2() {...}
//internally created as
module = {
     api1: api1
     api2: api2
}
```



## We can destructor any object with it's internal property

```
let \{api1, api2\} = x;
Or we can destructure while import
```

import {ap1,api2 } from './module1'

```
Module Named Import
//utils.js *
function helper()\{\dots\}
                              import { api1 } from './utils';
```

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```
+unction api1()
  helper();
                                                Named import uses { }Can we used only for non default
export function api2(){...}
                                                exportName should match the export name
export default function main() {..
```

## Default export

```
import x from './module1';
export default main(){
}
//internally created as
//we are only exporting main as module
module = main; <
```

```
Module Default Import
//utils.js
                                    //app.js
function helper(){...}
                                    import fn,{ api1 } from './utils';
export function api1() {
                                    api1();
   helper();
                                    fn();

    Default export doesn't need (--)

export function api2(){...}
                                         · Names "main" is not exported

    Can be imported and used under any

export default function main() {...}
```