**Modules in JavaScript**

Use module to encapsulate details and expose only public API.

JavaScript provides native and non-native support the following module formats.

**Revealing module pattern - singleton**

The container function contains variables and functions which are access only through container function object and function has executed immediately so it creates single instance of it. to define singleton function, we have to use IIFE (IIFE - anonymous function call when declared).

var obj = function(){

function printMessage() {

console.log('');

};

return {

printMessage : printMessage

}

}();

**Revealing module pattern - Constructor function**

//Constructor function name start with capital letter

var Messager = function(){

function printMessage() {

console.log('');

};

return {

printMessage : printMessage

}

};

var obj = new Messanger();

obj.printMessage();

**AMD (Asynchronous module definitions)** - It is loaded into browser by using Loader

**CommonJS** - It is mainly used by nodeJS apllication which is loaded at server side.

AMD and CommonJS are non-native format means it is provided by Javascript.

**ES2015** - is native format which provided by Javascript by currently not supported by browser.

**Module Loader -** To load above module in browser or at server, we need loader to load it.

RequireJS

SystemJS