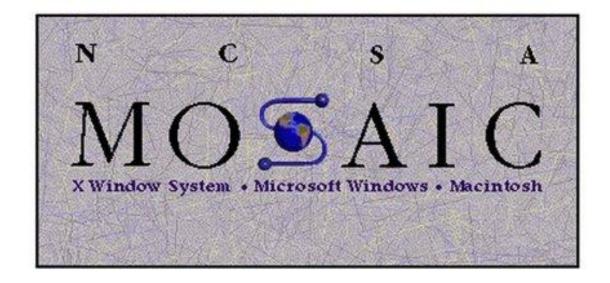


JAVASCRIPT

MOSAIC



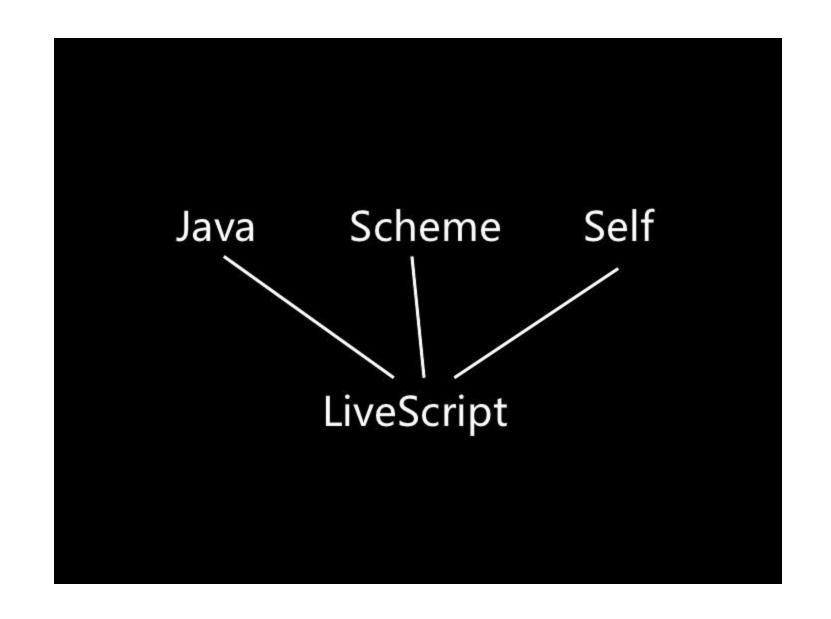


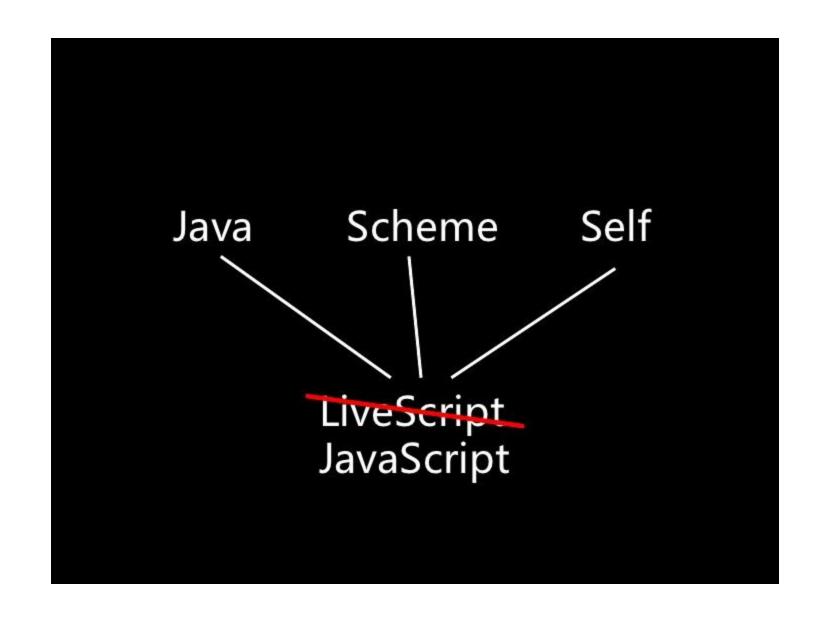
NETSCAPE

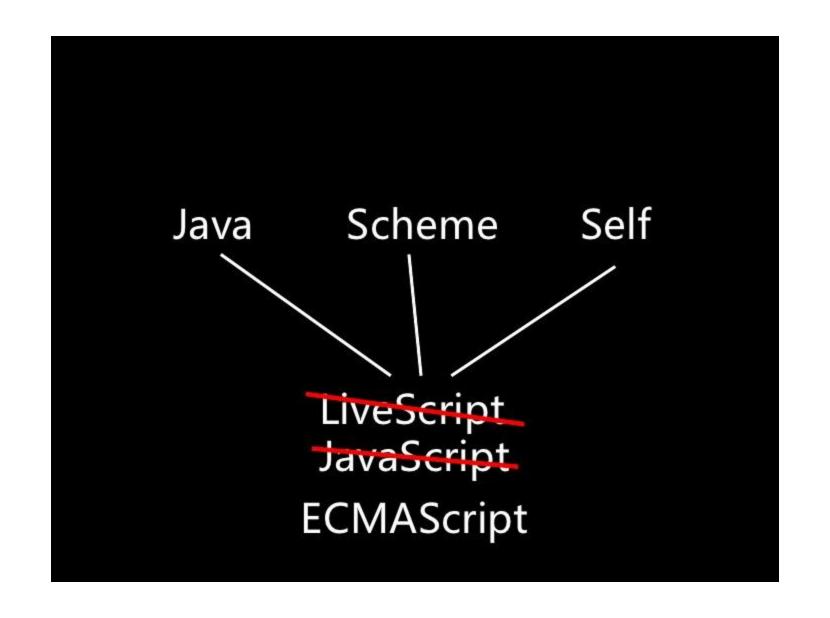


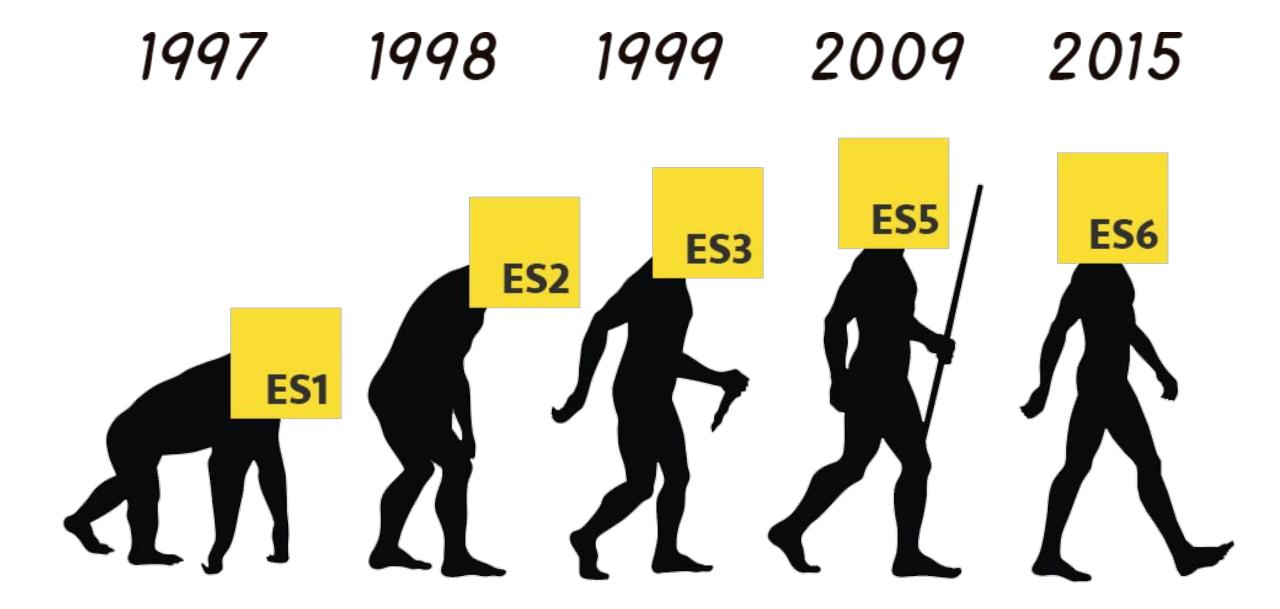
BRENDAN EICH











WHAT IS FIRST CLASS OBJECT

A first class object is an entity that can be dynamically created, destroyed, passed to a function, returned as a value, and have all the rights as other variables in the programming language have.

- can be assigned to variable
- Can be passed as parameter
- •Can be included as property from object
- Can be returned from functions

TYPES

Type	Value example	Value category
Number	1,5,6	Primitive value
String	"ahmed", "hi"	
Boolean	True, false	
Null	Null	
undefined	undefined	
Object	[1,2,3,4] Function(){} {id:1} Regular expressions	Object values

NAN

Special number : Not a number

Any arithmetic operation wit nan as input will have Nan as a result

NaN is not equal anything including NaN

NaN === NaN is false

NaN !== NaN is true

parseInt('ss')===NaN!!

isNan(parseInt('ss'))

```
function name
 function
                      argument
declaration
  function makeRed(sender)
   sender.style.color = 'red';
                  statement
```

Functions are first class object

- May be passed as an argument to a function
- May be returned from a function
- May be assigned to a variable
- May be store in an object or array

VAR STATEMENT

It gets split into two parts:

•The declaration part is get hoisted to the top of the function initializing to undefined

```
var x = 5 ,y=4;
var x ,y;
x=5;
y=4
```

Function statement

Is just a short hand for var statement with a function value

Function foo(){}

Expand to

Var foo;

Foo = function (){}

* the assignment of the function is also hoisted

* name is mandatory

Function expression

var foo = function() {}

Expand to

Var foo;

Foo = function() {}

* function declaration is only hoisted

* name is optional

```
Function foo1() { }

Var f = function foo2() { }

(function foo3(){ })
```

!function foo4(){}

WHAT WILL BE ALERTED ?

WHAT WILL BE ALERTED