

\* 변수

var (global) ← 전역적 선언과 초기화 가능

let (block) ← блок 선언과 초기화 가능

const (상수)

## \* type binding

Java

int

a;

int m[2][2]  
v[2]

} static type binding

JavaScript

var

a;

string

a = "Hello";

number

a = 100;

boolean

a = true;

76 01 2d2f  
18 01 2d2f  
2d 0f -m 23

} dynamic

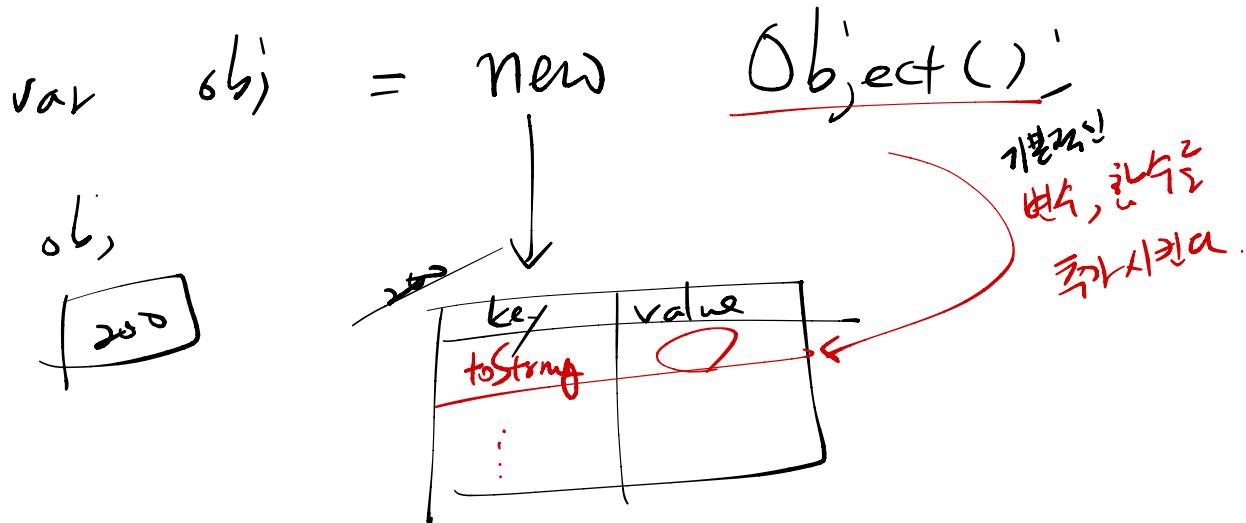
"

## \* function

plus  
ok = plus;  
    ^ ok  
haha = ok;  
    ^ haha

function plus(a, b) {  
 return a + b;  
}

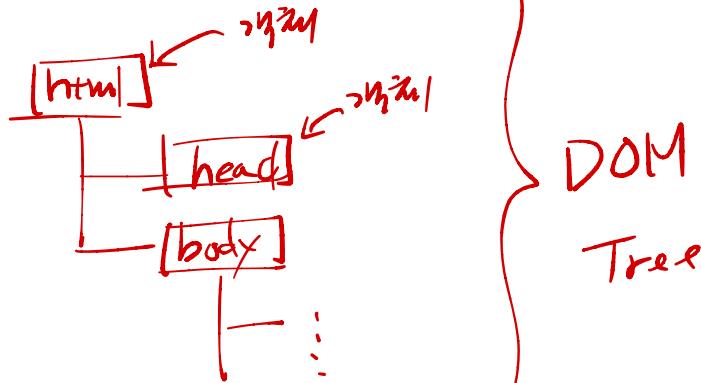
\* object



## \* DOM API (Document Object Model)

↳ tag է է այլ այլ API

<html>  
  <head> —> <head>  
  <body> —> <body>  
</html>



tag ← → ↗ կամ

DOM API ↗  
JavaScript ↗

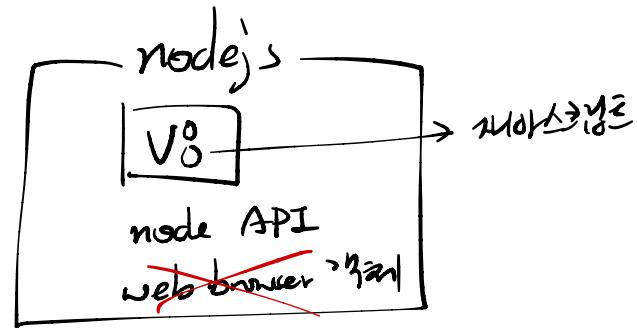
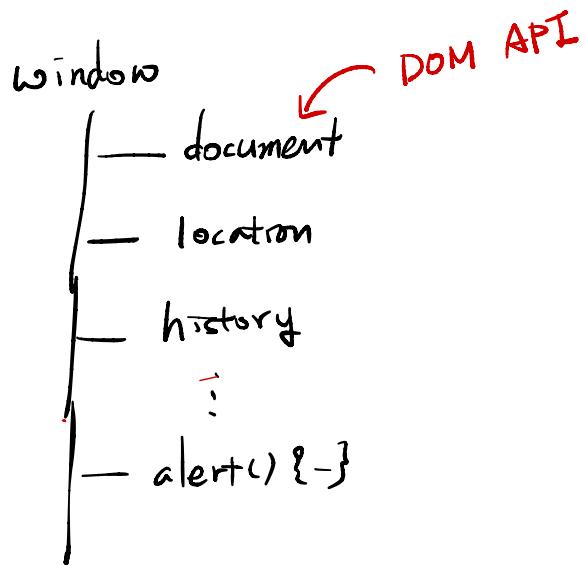
Java ↗

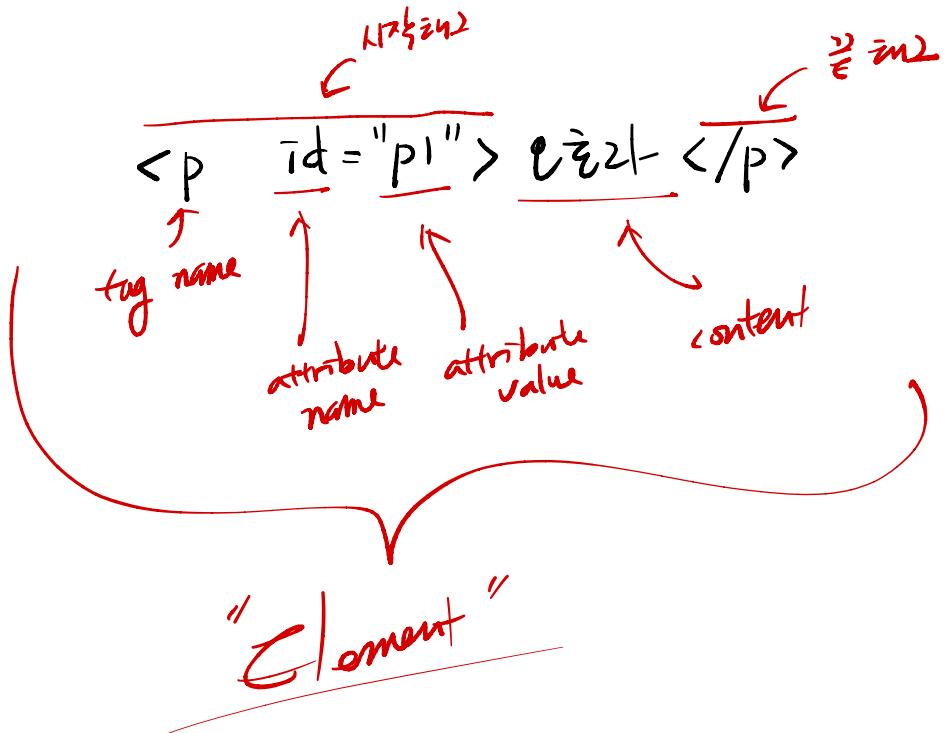
Python ↗

C# ↗

⋮

\* Web Browser 을 위한 API

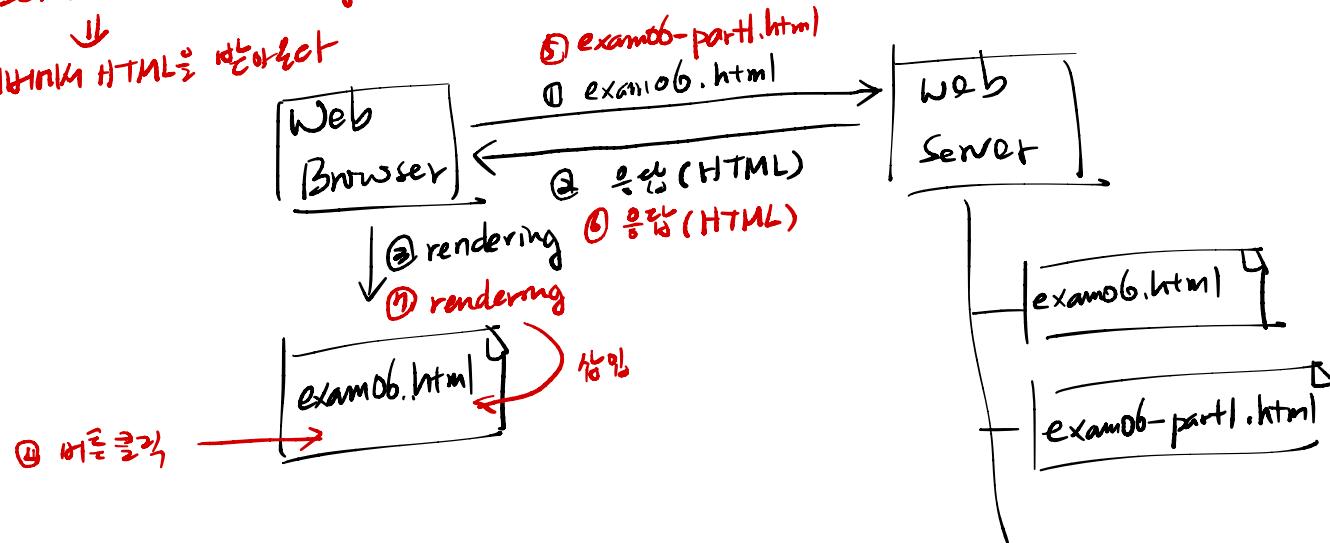




- \* AJAX (Asynchronous JavaScript And XML)

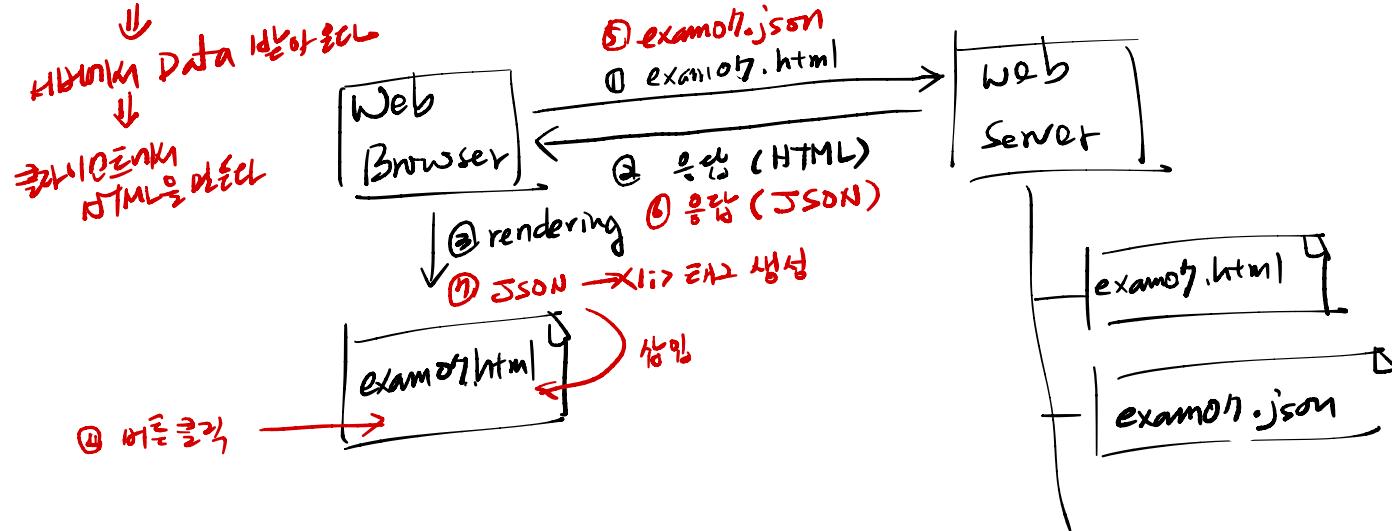
## ① Server-side rendering

↓  
HTML이 HTML이 되도록



## \* AJAX (Asynchronous JavaScript And XML)

### ② client-side rendering



## \* Data Type

- ✓ string → "aaa" , 'aaa'
- ✓ number → 300 , 3.14 ,  $314E-2$  ( $314 \times 10^{-2}$ ) , NaN , Infinity , -Infinity
- ✓ boolean → true , false
- ✓ undefined → 미정의 상태를 가진 값은 undefined = undefined type의 대표적인 값
- ✓ object → object , null ← object 타입
- ✓ function → 함수
- ✓ symbol → 기호

\* 10102

var arr = new Array();

비기본적

key	value
toString()	=
--proto--	
:	
length	

new



Object()



Array()

→ 헤



Object() 흐름 →



Array() 흐름



10102번 프로퍼티 추가

모든 객체가  
별도의 갖춰야하는  
프로퍼티(변수,  
함수, 메서드)  
추가

```
var arr = new Array()
```

```
arr[0] = "aaa";
```

```
arr[1] = "bbb";
```

```
arr[5] = "ccc";
```

```
console.log(arr.length);
```



key	value
0	"aaa"
1	"bbb"
5	"ccc"

\* 例解

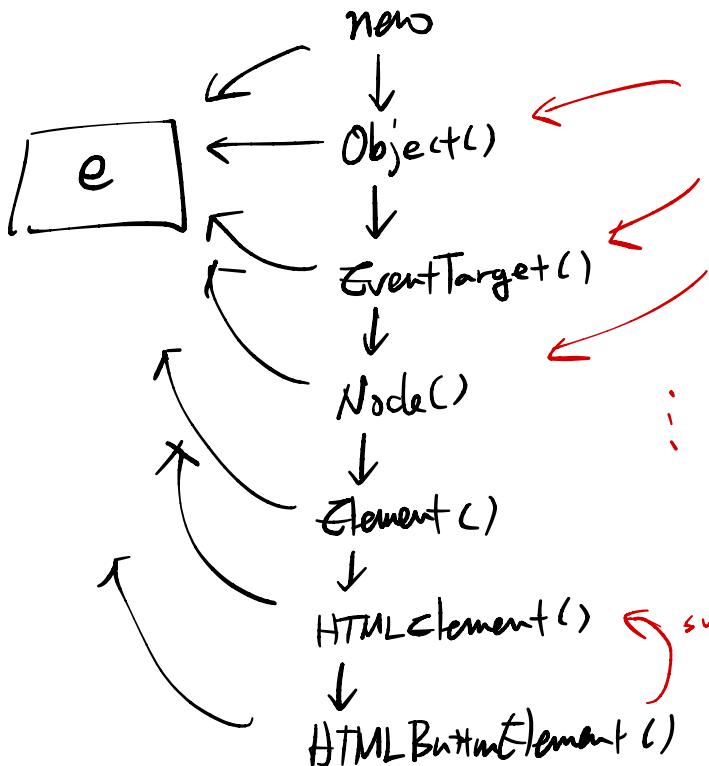
var e = document.getElementById("btn"); // <button> —</button>

~~new X()~~

~~new  
Object()~~

~~⋮~~

~~X()~~



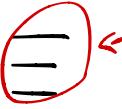
이것이 바로 이벤트를 처리하는 기본 구조입니다  
(Object( constructor))

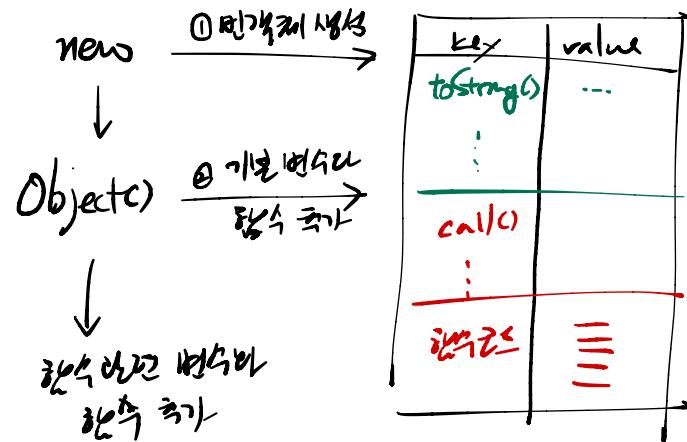
\"Object( constructor)"

⋮

super

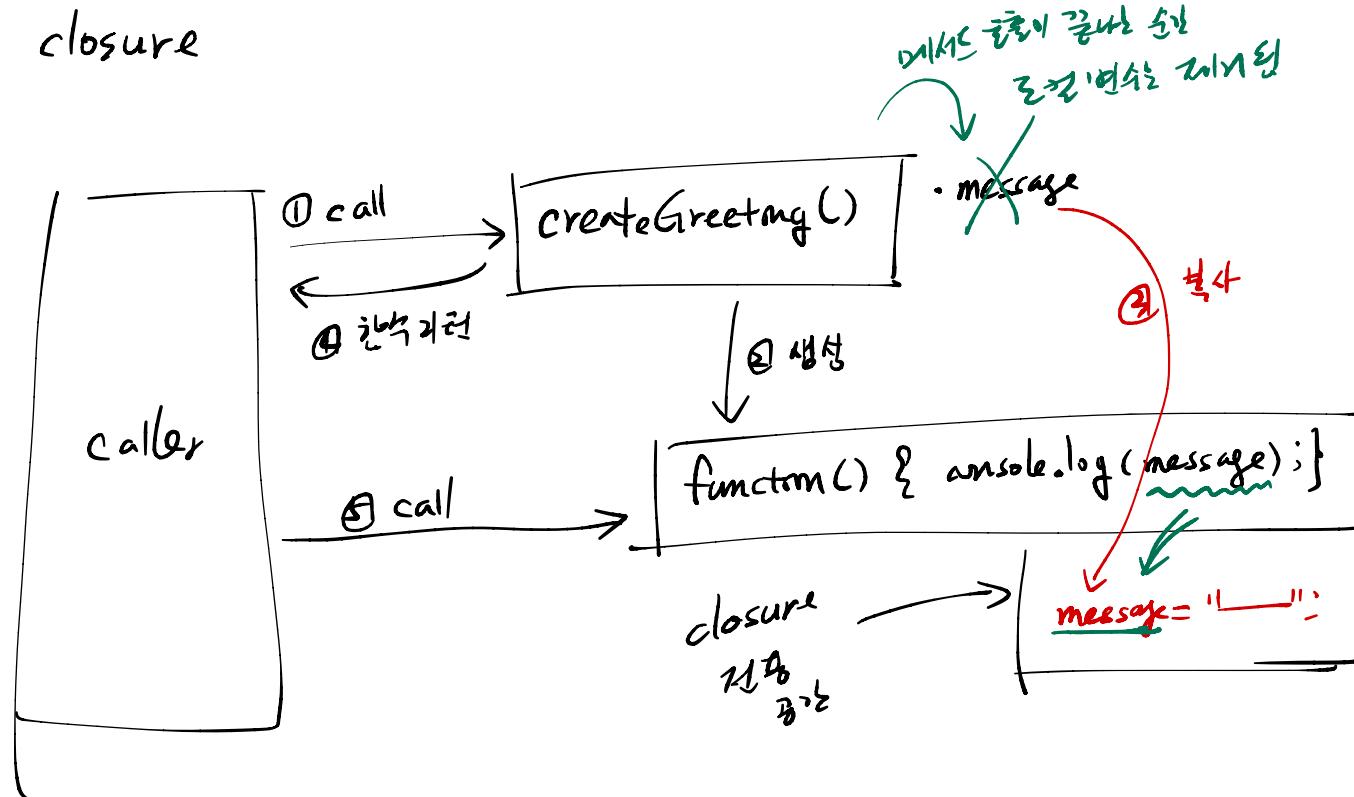
\* function object

function f1() {  
   
 "function body"  
}

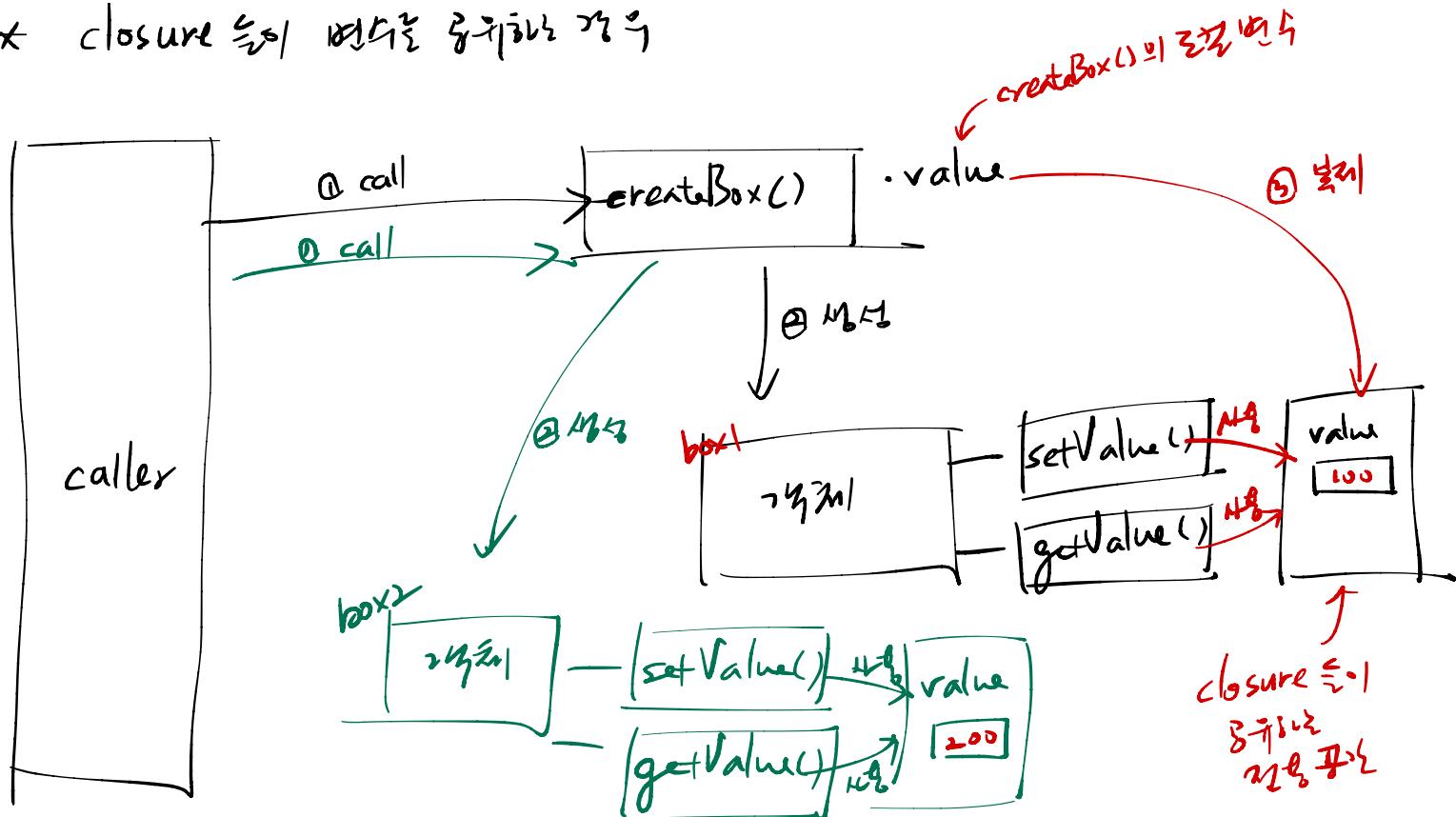


function = 구조 + 기능

## \* closure



\* closure یعنی 떠나도 끌고가는 것



\* 초기화 초기화

prototype (prototype)

① Object.create(null)

↓ 초기화

key	value

초기화

② Object.create(Object.prototype) == new Object()

원형은 부모로  
인herit

원형은 부모로  
인herit

→ prototype 초기화  
기본 메서드/메타데이터  
설정

key	value
toString()	-
:	

==

key	value
toString()	-
:	

↑ 초기화

④ {}

\* 메모리와 같은 차이

var obj = new Object()

obj.f1 = function() {};

① new

메모리에 할당

key	value
f1()	-

참조

key	value
toString()	-
valueOf()	-
:	-

할당된 메모리  
(= 메모리)

② Object()

f1 프로퍼티 추가

기본값은  
비어 있는  
상태

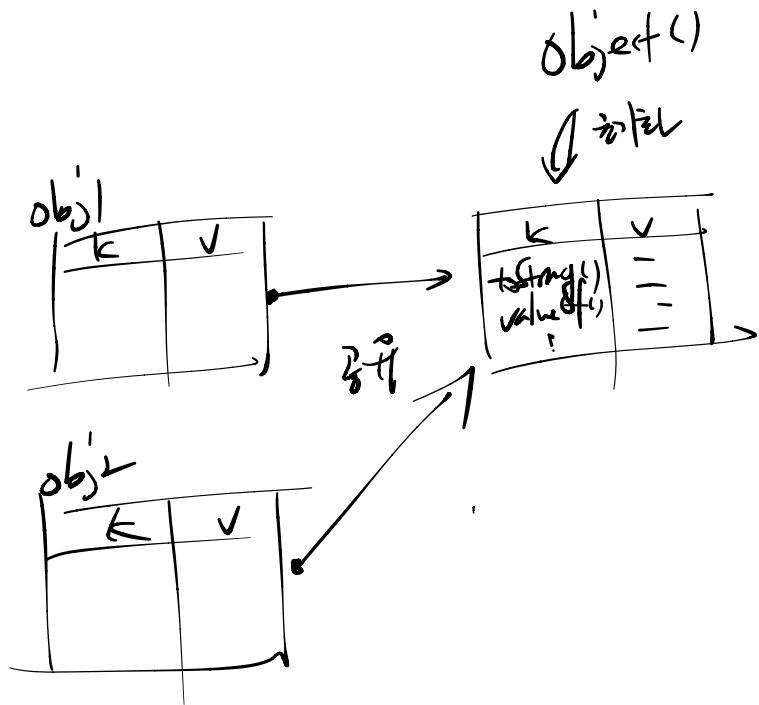
obj.f1(); → obj가 원래 f1()를 갖지 않았음

obj.toString(); → obj가 원래 f1()를 갖지 않음(X) → 전형적인 예에서 갖지 않았음!

\* 오브젝트의 초기화

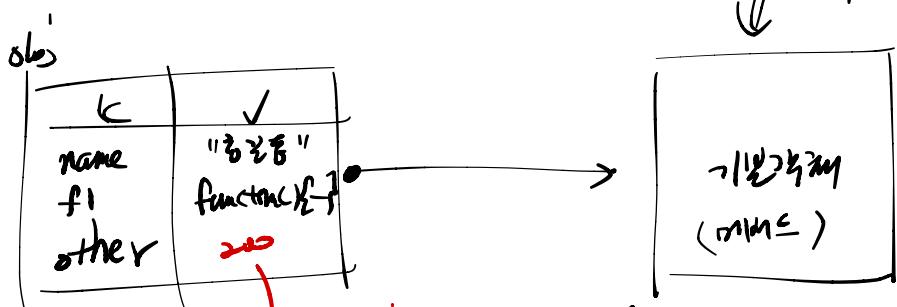
```
var obj = new Object();
```

```
var obj2 = new Object();
```

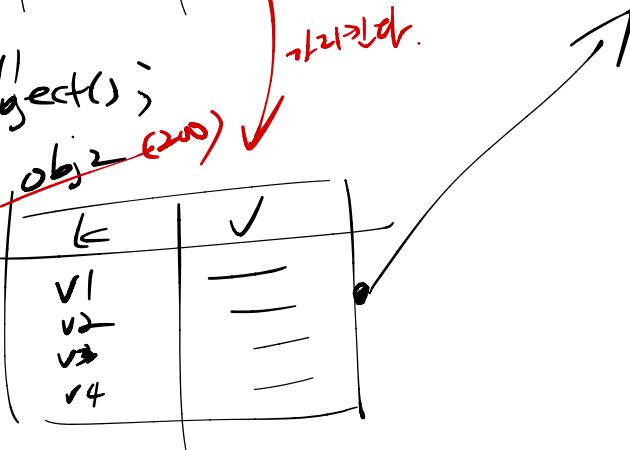


\* 이란 이유 → 다른 객체를 프로토로 흡수(흡수)

var obj = new Object();



var obj2 = new Object();



Object()  
↓  
→ 기본형

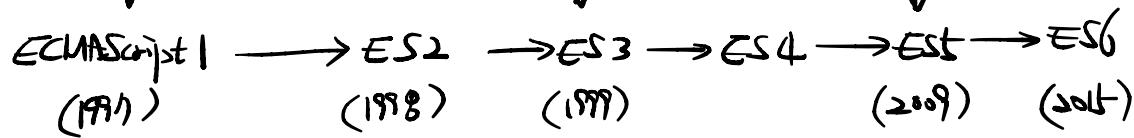
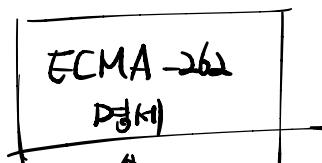
obj.other.v1 = 100;

## \* JavaScript vs ECMAScript

(1996)

J-S 1.0 → 1.1 → 1.2 → 1.3 → 1.4 → 1.5 → ... → 1.8.5 /

표준으로 표기



ES 2022