# 12강_자주쓰이는 내장객체

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# 12-1 : String객체

Ex : 12_01.html



https://www.w3schools.com
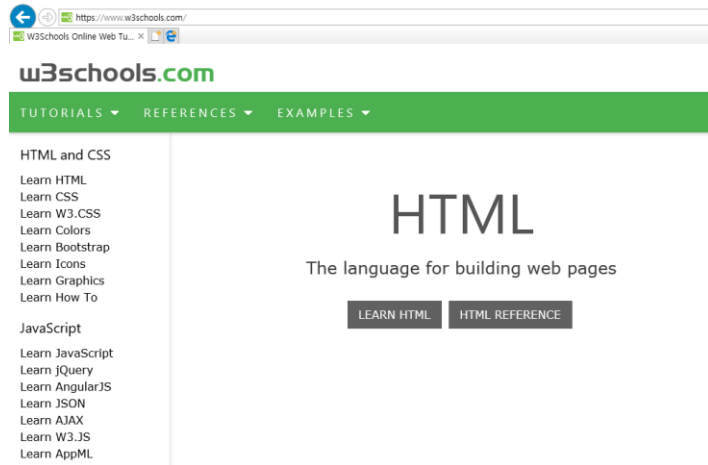
```javascript
/*
    String객체
*/

var strEn = "ABCDEFE";
var strKo = new String("가나다라마바사아");
String.prototype.temp = 123;

console.log("strEn : " + strEn);
console.log("strKo : " + strKo);

console.log("strEn.length : " + strEn.length);
console.log("strKo.length : " + strKo.length);

console.log("strEn.constructor : " + strEn.constructor);
console.log("strKo.constructor : " + strKo.constructor);

console.log("strEn.temp : " + strEn.temp);
console.log("strKo.temp : " + strKo.temp);

console.log("charAt() : " + strEn.charAt(3));
console.log("indexOf() : " + strEn.indexOf("E"));
console.log("lastIndexOf() : " + strEn.lastIndexOf("E"));
console.log("concat() : " + strEn.concat("abcedf"));
console.log("replace() : " + strEn.replace("A", "a"));
console.log("split() : " + strEn.split("C"));
console.log("slice() : " + strEn.slice(2, 4));
console.log("substring() : " + strEn.substring(1, 4));

var lc = strEn.toLowerCase();
console.log("lc : " + lc);
var up = lc.toUpperCase();
console.log("up : " + up);
```
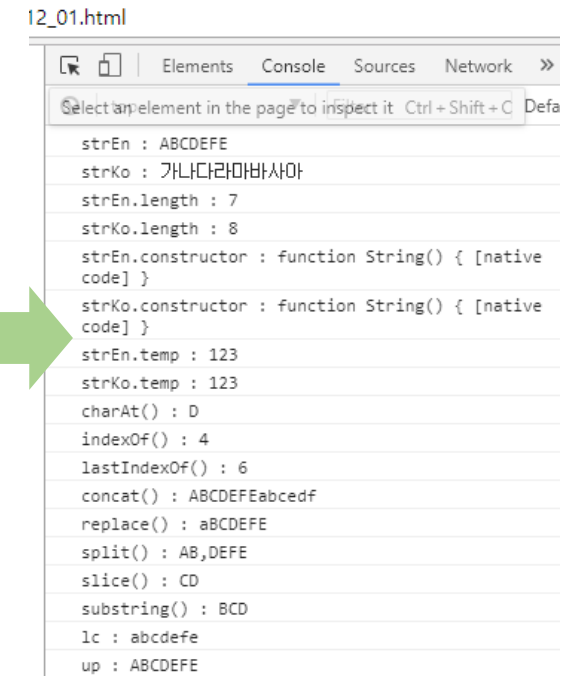
12_01.html

Elements  Console  Sources  Network

Select an element in the page to inspect it  Ctrl + Shift + C   Defa

```
strEn : ABCDEFE
strKo : 가나다라마바사아
strEn.length : 7
strKo.length : 8
strEn.constructor : function String() { [native code] }
strKo.constructor : function String() { [native code] }
strEn.temp : 123
strKo.temp : 123
charAt() : D
indexOf() : 4
lastIndexOf() : 6
concat() : ABCDEFEabcedf
replace() : aBCDEFE
split() : AB,DEFE
slice() : CD
substring() : BCD
lc : abcdefe
up : ABCDEFE
```

## 12-2 : Math 객체

Ex : 12_02.html

```javascript
/*
    Math객체
*/

var num1 = 123.456;
var num2 = -123.456;
var num3 = 3;

console.log("Math.PI", Math.PI);
console.log("Math.abs()", Math.abs(num2));
console.log("Math.max()", Math.max(num1, num2));
console.log("Math.min()", Math.min(num1, num2));
console.log("Math.pow()", Math.pow(num3, 3));
console.log("Math.random()", Math.random());
console.log("Math.ceil()", Math.ceil(num1));
console.log("Math.floor()", Math.floor(num1));
console.log("Math.round()", Math.round(num1));
console.log("Math.sqrt", Math.sqrt(3));
```

2_02.html

Elements | Console | Sources | Netw

Select an element in the page to inspect it  Ctrl + Shift

Math.PI 3.141592653589793
Math.abs() 123.456
Math.max() 123.456
Math.min() -123.456
Math.pow() 27
Math.random() 0.43097460738273363
Math.ceil() 124
Math.floor() 123
Math.round() 123
Math.sqrt 1.7320508075688772

## 12-3 : Date 객체

Ex : 12_03.html

```javascript
/*
    Date객체
*/
var objDate1 = new Date();  //시스템 날짜를 이용한 객체생성
var objDate2 = new Date(2010, 10, 10);                  //2010년 11월 10일
var objDate3 = new Date(2010, 10, 10, 10, 10, 10, 100); //2010년 11월 10일 10시 10분 10초 100분


console.log(objDate1);
console.log(objDate2);
console.log(objDate3);

//getYear() / setYear()
//1900년도 기준(1900 + objDate1.getYear())
console.log("objDate1.getYear : " + objDate1.getYear());
console.log("objDate1.getYear : " + (objDate1.getYear() + 1900));

//권장 메서드 : getFullYear() / setFullyear()
console.log("objDate1.getFullYear : " + objDate1.getFullYear());

//getMonth()/setMonth()
console.log("objDate1.getMonth : " + objDate1.getMonth());

//getDate() / setDate()
console.log("objDate1.getDate : " + objDate1.getDate());

//getDay() / setDay()
console.log("objDate1.getDay : " + objDate1.getDay());
```



```
Mon Oct 09 2017 05:48:08 GMT+0900 (대한민국 표준시)
Wed Nov 10 2010 00:00:00 GMT+0900 (대한민국 표준시)
Wed Nov 10 2010 10:10:10 GMT+0900 (대한민국 표준시)
objDate1.getYear : 117
objDate1.getYear : 2017
objDate1.getFullYear : 2017
objDate1.getMonth : 9
objDate1.getDate : 9
objDate1.getDay : 1
```

# 12-4 : Array 객체

Ex : 12_04.html

```javascript
/*
    Array객체
*/

var varArr1 = new Array("박용택", "이승엽", "정상호", "한기주", "장원삼");
var varArr2 = new Array("손승락", "이호준", "박세웅", "해커", "윤호슬");

var varArr3 = new Array(1, 6, 3, 5, 4, 2);

console.log("varArr1.length", varArr1.length);

console.log("varArr1.join()", varArr1.join());
console.log("varArr1", varArr1);
console.log("varArr1.reverse()", varArr1.reverse());
console.log("varArr1.sort()", varArr1.sort());
console.log("varArr1.slice()", varArr1.slice(1, 3));
console.log("varArr1.concat()", varArr1.concat(varArr2));
console.log("varArr2.reverse()", varArr2.reverse());

console.log("varArr3.sort(a-b)", varArr3.sort(function(a, b){return a-b}));
console.log("varArr3.sort(b-a)", varArr3.sort(function(a, b){return b-a}));
```

| | Elements | Console | Sources | Network | Performance | Memory | Application | Security | Audits |
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top ▼  | Filter | Default levels ▼

```
varArr1.length 5
varArr1.join() 박용택,이승엽,정상호,한기주,장원삼
varArr1 ▶(5) ["박용택", "이승엽", "정상호", "한기주", "장원삼"]
varArr1.reverse() ▶(5) ["장원삼", "한기주", "정상호", "이승엽", "박용택"]
varArr1.sort() ▶(5) ["박용택", "이승엽", "장원삼", "정상호", "한기주"]
varArr1.slice() ▶(2) ["이승엽", "장원삼"]
varArr1.concat() ▶(10) ["박용택", "이승엽", "장원삼", "정상호", "한기주", "손승락", "이호준", "박세웅", "해커", "윤호슬"]
varArr2.reverse() ▶(5) ["윤호슬", "해커", "박세웅", "이호준", "손승락"]
varArr3.sort(a-b) ▶(6) [1, 2, 3, 4, 5, 6]
varArr3.sort(b-a) ▶(6) [6, 5, 4, 3, 2, 1]
>
```