



[09] JS

JavaScript Performance / Продуктивність

Bad:

```
var i;  
for (i = 0; i < arr.length; i++) {  
    .....  
}
```



JavaScript Performance / Продуктивність

Better Code:

```
var i;  
var l = arr.length;  
for (i = 0; i < l; i++) {  
    .....  
}
```



JavaScript Performance / Продуктивність

Bad:

```
var fullName = firstName + " " + lastName;  
document.getElementById("demo").innerHTML = fullName;
```



JavaScript Performance / Продуктивність

Better Code:

```
document.getElementById("demo").innerHTML = firstName + " " + lastName
```



JavaScript Common Mistakes

```
var x = 0;  
if (x = 0)
```

```
var x = 10;  
var y = "10";  
if (x == y)
```

```
var x = 10;  
var y = "10";  
if (x === y)
```

```
var x = 10 + 5;  
var x = 10 + "5";
```



JavaScript Regular Expressions

Шаблони пошуку і заміни.

```
var str = "Hello World";  
var n = str.search(/World/i);  
i - чуттєвість до регістру
```

```
var str = "Hello World";  
var res = str.replace(/world/i, "Світ");
```

```
var str = "Hello World";  
var n = str.search("World");
```

```
var str = "Hello World";  
var res = str.replace("World", "Світ");
```



JavaScript Regular Expressions

Шаблони пошуку і заміни.

```
var patt = /e/;  
patt.test("The best things in life are free!");  
  
var patt = /free/;  
patt.test("The best things in life are free!");  
  
/best /.exec("The best things in life are free!");
```



The typeof Operator

```
console.log(typeof "john");  
console.log(typeof 3.14);  
console.log(typeof NaN);  
console.log(typeof false);  
console.log(typeof [1,2,3,4]);  
console.log(typeof {name:'john', age:34});  
console.log(typeof new Date());  
console.log(typeof function () {});  
console.log(typeof myCar);  
console.log(typeof null);
```



JavaScript Events

```
<some-HTML-element some-event="some JavaScript">
```

```
<button onclick="document.getElementById('demo').  
innerHTML=Date()">The time is?</button>
```

```
<p id="demo"></p>
```

```
<button onclick="this.innerHTML=Date()">The time is?</button>
```



JavaScript Events

```
<button onclick="displayDate()">The time is?</button>
```

```
<script>
```

```
function displayDate() {
```

```
    document.getElementById("demo").innerHTML = Date();
```

```
}
```

```
</script>
```

```
<p id="demo"></p>
```



JavaScript Events

```
<script type="text/javascript">  
  function myFunction () {  
    alert("Hello");  
  }  
</script>
```

```
<div oncontextmenu="myFunction()">  
  fsd g sdfg df sgdsf gsdf  
</div>
```



JavaScript Events

```
<p ondblclick="myFunction()">
```

Double-click this paragraph to trigger a function.

```
</p>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction() {
```

```
    document.getElementById("demo").innerHTML = "Hello World";
```

```
}
```

```
</script>
```



JavaScript Events

```
<p id="myP" onmousedown="mouseDown()" onmouseup="mouseUp()">  
  g gsd fg sdfg dsf regsf dgsdfg fdsgre sgfsdfg sr sgdfg srs  
</p>  
<script>  
function mouseDown() {  
  document.getElementById("myP").style.color = "red";  
}  
function mouseUp() {  
  document.getElementById("myP").style.color = "green";  
}  
</script>
```



JavaScript Objects

Властивості і методи як в реальному житті

```
<p id="demo"></p>
```

```
var person = {
  firstName: "John",
  lastName : "Doe",
  id      : 5566,
  fullName : function() {
    return this.firstName + " " + this.lastName;
  }
};
var fn = person.fullName();
document.getElementById("demo").innerHTML = person.fullName();
```



JavaScript Examples

Переадресація

```
<script language="JavaScript">  
  window.location.href = "http://www.google.com"  
</script>
```



JavaScript Examples

Калькулятор

```
x = parseInt(document.getElementById("input1").value);  
y = parseInt(document.getElementById("input2").value);  
document.getElementById("result").value = x + y;
```



JavaScript Examples

Слайдер

setAttribute()
getAttribute()





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