JavaScript Variables

A variable is a storage location and an associated symbolic name (an identifier) which contains some known or unknown quantity or information, a value.

var quantity;   declaration

quantity=3;   initialization

var quantity=3;   declaration+initialization

Data Types

Numeric	0.75
String	"Hello class"
Boolean	true / false

Numeric

```
var price;

var quantity;

var total,

price=5;

quantity=3;

total=price*quantity;


var el=document.getElementById('cost');

el.textContent='$'+total;
```

String

```
var username;

var message;

username='Molly';

Message="see our upcoming range';


var elName=document.getElementById('name');

elName.textContent=username;

var elNote=document.getElementById('note');

elNote.textContent=message;
```

Boolean

```
var inStock;

var shipping;

inStock=true;

chipping-=false;


var elStock=document.getElementById('stock');

elStock.className=inStock;

var elShip=document.getElementById('shipping');

elShip.className=shipping;
```

Naming variables

Must begin with a letter

Can contain letters, numbers, $ or _ (no . Or hyphen-)

Cannot contain reserved keywords such as "if", "while", etc.

Case sensitive

Descriptive

No spaces

Arithmetic Operators

+   addition

-    Subtraction

/   division

*   Multiplication

++   Increment

--   Decrement

%   modulus

Arrays

A list of values

```
var colors;
colors=['white','black','orange'];


var el = document.getElementById('colors');
el.textContent=colors[0];
```

Arrays

colors=['white','black','orange'];

Index value

0   'white'

1   'black'

2   'orange'

var allColors;

allColors=colors.length;

Arrays

```
var colors;

colors=['white','black','orange'];

Colors[2]='beige';


var el = document.getElementById('colors');

el.textContent=colors[2];
```

```
<html>

<head>

<title>bgcolor_change</title>

<script language="JavaScript">

var myPix = new Array("red","blue","green")

function choosePic()

    {

        randomNum = Math.floor(Math.random()*myPix.length)

        document.bgColor=myPix[randomNum]

    }
```

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Arrays

```
</script>
</head>
<body>

<center>
  <a href="#" onmousedown="choosePic()"> random bgcolor</a>
</center>
</body>
</html>
```

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