

What is variables and how can I use them ?

A variable represent a value. From math you properly have used variables like X and Y.

```
X = 10
Y = 5
total = X + Y
```

A variables in javascript and other programming languages represents a memorybox/space in the computers memory where you the programmer can store some kind of data. E.g. the number 10.

You first create a variable by declaring (defining) it. Giving it a variable name.

```
var age ; // age is the name of the variable
```

Then you **assign** values to your variable.

```
age = 10; // I assign the numeric value 10 to the variable age
```

Example: Assigning, Naming variables (case, allowed character, reserved words) , operators

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<html>
<head>
<title>Listing 4 assigning number values to variables</title>
</head>

<body>
<script Language="javascript" >

var age = 10; // here we declare the variable age and assign to it the value 10

alert("The age is now " + age);

age = 20; // here we assign a new value to the variable age

alert("The age is now " + age);

</script>

</body>
</html>
```

Different ways of displaying variables and strings on the screen

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<html>
<head>
  <title>Listing 5 displaying variable, strings on the screen</title>
</head>

<body>
<script type="text/javascript" >

var age = 10;//JS define a variable called age and give it (assign) the value 10
var name = "Hal"; // What is between the quotes is the String of the characters H-a-l

document.write(age);

document.write("<br>");

document.write("I'm now "+age + " years <br>");

</script>

</body>
</html>
```