JavaScript Variables

- description : JavaScript Variables
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JavaScript Variables

JavaScript   .

          , x, y   z   var   .

```
var x = 5;
vat y = 6;
var z = x + y;
```

                                   .

- x   5   .
- y   6   .
- z   11   .

Using let and const (ES6)

2015   var   JavaScript   .

2015   JavaScript (ES6)   const   ,
let   .

                                                                                      ,
                    var   .

Safari 10   Edge 14   ES6   .

Much Like Algebra

, price1, price2, total .

```
var price1 = 5;
var price2 = 6;
var total = price1 + price2;
```

, price1 .

, expressions (total = price1 + price2).

11 .

JavaScript .

JavaScript Identifier

JavaScript **variables** **unique names** **identified** .

identifiers .

(: x y) (age, sum, totalVolume) .

( ) .

- , , .
- .
- $ _ , .
- (y Y).
- (: JavaScript) .

JavaScript .

The Assignment Operator

JavaScript (😃 " " " **assignment** .

. .

```
x = x + 5
```

JavaScript   .   x + 5   x   .

(x + 5   x   . x   5   .)

"   "   JavaScript   = =   .

JavaScript Data Types

JavaScript   100   "John Doe"   .

                  ,   _____ text strings   .

JavaScript   ,   .

                                                            .   .

                  ,   .

```
var pi = 3.14;
var person = "John Doe";
var answer = 'Yes I am!';
```

Declaring (Creating) JavaScript Variables

JavaScript   "   "   .

var   JavaScript   .

```
var carName;
```

                        (, undefined   )

            assign   (😀   .

```
carName = "Volvo";
```

                  ,   .

```
var carName = "Volvo";
```

, carName   , "Volvo"   .

id = "demo"   HTML   "   "   .

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

<script>
var carName = "Volvo"
document.getElementById("demo").innerHTML = carName;
</script>
```

.

One Statement, Many Variables

.

var   ,   comma   .

```
var person = "John Doe", carName = "Volvo", price = 200;
```

.

```
var person = "John Doe",
carName = "Volvo",
price = 200;
```

Value = undefined

,   .
,   .

undefined   .

carName   undefined   .

```
var carName;
```

Re-Declaring JavaScript Variables

JavaScript , .

carName "Volvo" .

```
var varName = "Volvo";
var carName;
```

JavaScript Arithmetic

, = + JavaScript ____arithmetic
.

```
var x = 5 + 2 + 3;
```

,

```
var x = 5;
vat y = 6;
var z = x + y;
```

.

- x 5 .
- y 6 .
- z 11 .

Using let and const (ES6)

2015 var JavaScript .

2015 JavaScript (ES6) const ,
let .

,
var .

Safari 10 Edge 14 ES6 .

Much Like Algebra

, price1, price2, total .

```javascript
var price1 = 5;
var price2 = 6;
var total = price1 + price2;
```

, price1 .

, expressions (total = price1 + price2).

11 .

JavaScript .

JavaScript Identifier

JavaScript **variables** **unique names** *8 identified .

identifiers .

(: x y) **(age, sum, totalVolume)** .

( ) .

* , , . * . *
$ _ . *
(y Y). * (**: JavaScript**) .
JavaScript .

=====The Assignment Operator===== JavaScript (😃 " " "
" assignment .

. .

```javascript
x = x + 5
```
JavaScript . **x + 5** **x** .

(x + 5 **x** . **x** 5 .)
" " **JavaScript** == .
=====JavaScript Data Types==== JavaScript 100 **"John Doe"** .

, **text strings** .

JavaScript , .

.   .

,   .

**<code javascript> var pi = 3.14; var person = "John Doe"; var answer = 'Yes I am!';
</code>**
=====Declaring (Creating) JavaScript Variables===== JavaScript
"   "   .

var   JavaScript   .

<code javascript> var carName; </code>
(, **undefined**   )

                  assign   (🙂   .

<code javascript> carName = "Volvo"; </code>
              ,   .

<code javascript> var carName = "Volvo"; </code>
              , **carName**   ,   **"Volvo"**   .\
        id = "demo"   HTML   "   "   .

**<code javascript> <p id="demo"></p> <script> var carName = "Volvo"
document.getElementById("demo").innerHTML = carName; </script> </code>**
                                                            .

=====One Statement, Many Variables=====
        .

var   ,   comma**   .

```javascript
var person = "John Doe", carName = "Volvo", price = 200;
```

                                          .

```javascript
var person = "John Doe",
carName = "Volvo",
price = 200;
```

Value = undefined

              ,   .

                  ,   .

                  undefined   .

carName   undefined   .

```
var carName;
```

Re-Declaring JavaScript Variables

JavaScript   ,   .

    carName   "Volvo"   .

```
var varName = "Volvo";
var carName;
```

JavaScript Arithmetic

                    , =   +   JavaScript   ____ arithmetic
   .

```
var x = 5 + 2 + 3;
```

                    ,   .

```
var x = "John" + " " + "Doe";
```

```
var x = "5" + 2 + 3;
```

                                        .

```
var x = 2 + 3 + "5";
```

JavaScript Dollar Sign $

JavaScript   (   )   .

- (A-Z   a-z)
- ($)
- (_)

JavaScript   , $.

```
var $$$ = "Hello World";
var $ = 2;
var $myMoney = 5;
```

                              %5JavaScript   ,
JavaScript   __   __^{main function}   ^{alias}
              .\\ \\   JavaScript   jQuery   ,   ''$''   HTML
              .\\ jQuery   ''$("p");%%''   "   p   "   .

   , Javascript, Variables