

Datatyper, Operatörer och Variabler

JavaScript

JavaScript Variabler

Variablerna är en sorts värde behållare som lagrar data värde av olika(Data types)

```
var x = 5;
```

```
var y = 6;
```

```
var z = x + y;
```

```
var pi = 3.14;
```

```
var person = "John Doe";
```

```
var answer = 'Yes I am!';
```

Deklarera Variabler

Alla variabler ska deklaras med unika namn

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

Old School!

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

Reserverade ord

```
let let = 5; // can't name a variable "let", error!  
let return = 5; // also can't name it "return", error!
```

JavaScript Data Types

- Number
- String
- Boolean
- Null
- Undefined

and Object

JavaScript kan göra om “number” till “string”.

```
var x = 16 + "Volvo";
```

```
var x = 16 + 4 + "Volvo";
```

```
var x = "Volvo" + 16 + 4;
```

JavaScript typer är dynamiska

```
var x;
```

```
x = 5;
```

```
x = "John";
```

JavaScript String

```
var answer1 = "It's alright";           // Single quote inside double quotes
```

```
var answer2 = "He is called 'Johnny'";  // Single quotes inside double quotes
```

```
var answer3 = 'He is called "Johnny"';   // Double quotes inside single quotes
```

JavaScript Numbers

```
var x1 = 34.00;    // Written with decimals
```

```
var x2 = 34;       // Written without decimals
```


JavaScript Booleans

```
var x = 5;
```

```
var y = 5;
```

```
var z = 6;
```

```
(x == y)    // Returns true
```

```
(x == z)    // Returns false
```

JavaScript Arrays

```
var cars = ["Saab", "Volvo", "BMW"];
```

JavaScript Objects

```
<script>
```

```
    var person = {  
      firstName : "John", lastName : "Doe", age : 50, eyeColor : "blue"  
    };
```

```
document.getElementById("demo").innerHTML = person.firstName + " is " + person.age + " years old.";
```

```
</script>
```

Difference Between Undefined and Null

```
typeof undefined    // undefined
```

```
typeof null         // object
```

```
null === undefined  // false
```

```
null == undefined   // true
```

Aritmetiska Operatorer

OperatorDescription

+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus (Division Remainder)
++	Increment
--	Decrement

Tilddelningsoperatorer

Operator	Example	Same As
=	$x = y$	$x = y$
+=	$x += y$	$x = x + y$
-=	$x -= y$	$x = x - y$
*=	$x *= y$	$x = x * y$
/=	$x /= y$	$x = x / y$
%=	$x \% = y$	$x = x \% y$

Jämförelseoperatorer

OperatorDescription

== equal to

=== equal value and equal type

!= not equal

!== not equal value or not equal type

> greater than

< less than

>= greater than or equal to

<= less than or equal to

? ternary operator

Logiska operatorer

&& logical and

|| logical or

! logical not

Typ läxa

Läs på om ...

JS Statements

JS Syntax

JS Comments

JS Variables

JS Operators

JS Data Types

Behöver ni fler övningar? Gör en enkel miniräknare.

Använd “radio” knappar för att bestämma +, -, * eller /

Två textfält där man kan skriva in siffror. och en knapp som heter “Beräkna”

Gör en funktion som anropas med onclick=”funktionsnamn();”