



FAST-TRACK ACADEMY

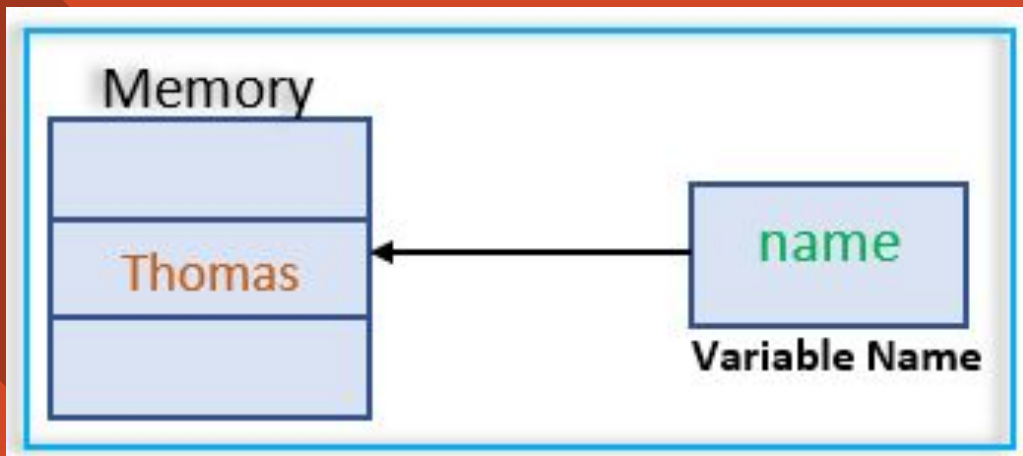
JavaScript Variables and Data Types JS Beginner

**Professional Web Development Course
(HTML, CSS, BOOTSTRAP 4, SQL & JAVASCRIPT)**

What are JavaScript VARIABLES?

A variable is a “named storage” for data in COMPUTER MEMORY.
We use variables to store DATA.

```
var name = "Thomas";
```



How to DECLARE a Variable

```
var name;
```

How ASSIGN and INITIALISE a Variable

```
name = "Thomas";
```

Variable Examples:-

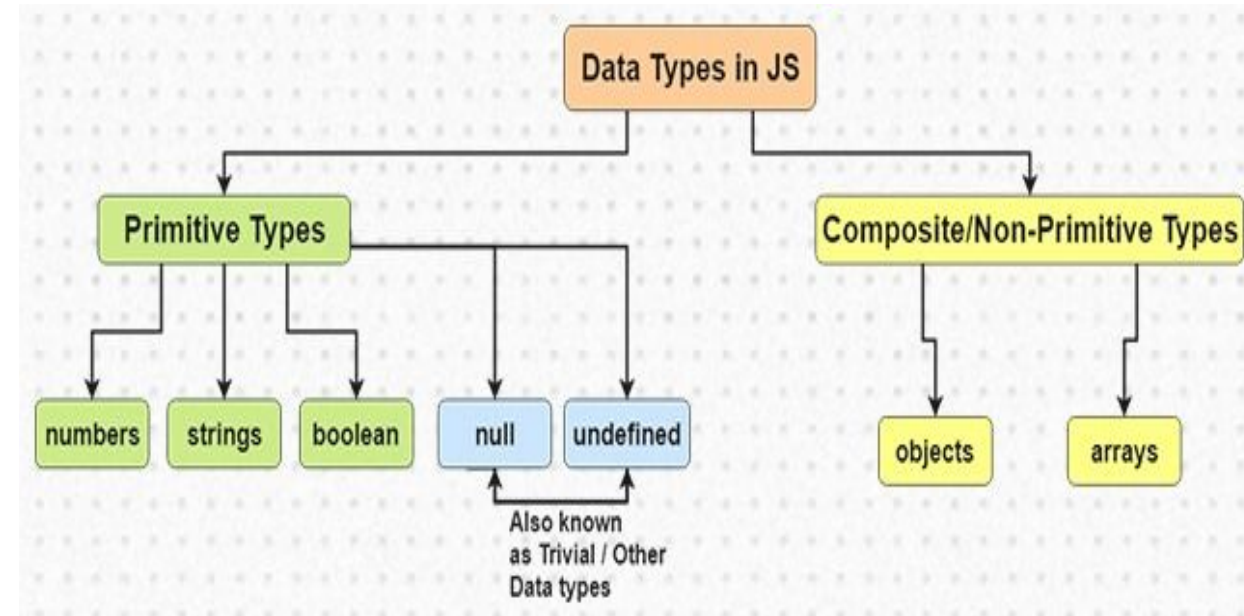
```
var mushaar = 300;  
var canshuur = 30;  
var haraadiga = mushaar - canshuur;  
console.log(haraadiga);
```

What JavaScript DATA TYPES?

Data Types specify what kind of data can be stored in VARIABLES.

Number Data Types example:-

```
var dada = 40;  
var tiradaCaruurta = 6;  
var dhirirka = 1.7;
```



String Data Type example:-

```
var magaca = "Ahmed";  
var goobtaDhalashada = 'Somalia';  
var shaqada = "Software Engineer";
```


JavaScript DATA TYPES:-

Boolean Data Types example:-

```
var xaasle = true;  
var sigaarCabe = false;  
var waaMillionaire = false;
```

Array Data Types examples:-

```
var wadamaBooqashada = ["China", "India", "Ethiopia"];  
var saaxiibada = ["Ali", "Jamac", "Sugulle"];  
var maalmahaShaqada = ["Isniin", "Talaada", "Arbaca"];
```

Object Data Type Example:-

```
var qof = {  
  magaca: "Ahmed",  
  goobtaDhalashada: "Somalia",  
  shaqada: "Software Engineer",  
  dada: 40,  
  tiradaCaruurta: 6,  
  dhirirka: 1.7,  
  xaasle: true,  
  sigaarCabe: false,  
  waaMillionaire: false,  
  wadamaBooqashada: ["China", "India", "Ethiopia"],  
  saaxiibada: ["Ali", "Jamac", "Sugulle"],  
  maalmahaShaqada: ["Isniin", "Talaada", "Arbaca"],  
};
```

Naming JavaScript variables:-

- Variable names can only contain letters, digits or the symbols \$ and _
- Variable names can only start with letters, \$ or _
- Variable names may not contain a space
- Variable names may not be reserved words
- Variable names are case sensitive (so fish refers to a different variable to Fish)
- Make variable names concise but meaningful (so firstName and lastName rather than var1 and var2)
- Make variable names camelCase if variable name consists more than one word, use a capital letter at the start of each new word and small letter the first word (so firstName rather than firstname)

Example of good and bad variable naming:-

Good variable Naming:-

```
var firstName = "Ahmed";  
var _firstName = "Ahmed";  
var $firstName = "Ahmed";  
var firstName1 = "Ahmed";  
var first2Name = "Ahmed";
```

Bad variable naming:-

```
var firstname = "Ahmed"; // legal but not good  
var FirstName = "Ahmed"; // legal but not good  
var first name = "Ahmed"; // space is illegal  
var FIRSTNAME = "Ahmed"; // legal but not good  
var first_name = "Ahmed"; // legal but not good  
var &firstName = "Ahmed"; // illegal (&)  
var 2firstName = "Ahmed"; // illegal (number start)  
var first-Name = "Ahmed"; // illegal (-)
```

How to check the Data Type of a variable (typeof)

- You can use the JavaScript typeof operator to find the type of a JavaScript variable.

Example of checking variable data type:-

```
var magaca = "Ahmed";  
console.log(typeof magaca); // string  
  
var wadamaBooqashada = ["China", "India", "Ethiopia"];  
console.log(typeof wadamaBooqashada); // Arrays are Object  
  
var tiradaCaruurta = 6;  
console.log(typeof tiradaCaruurta); // number  
  
var xaasle = true;  
console.log(typeof xaasle); // boolean  
  
var qof = {};  
console.log(typeof qof); // object  
  
var guri;  
console.log(typeof guri); // undefined
```