VARIABLES



AFTER THIS PRESENTATION

 You'll understand different data types in JavaScript



WE WILL LOOK AT

var

typeof



DATA TYPES

- Number
- String
- Boolean
- Other e.g. Object



NUMBER

- JavaScript has only one type of number
- Can be written with or without a decimal place

```
var number1 = 34.289;
var number2 = 100;
```

Can use scientific notation



STRING

- A string simply means text
- You can use single or double quotes

```
var name = "David";
var title = 'Professor';
```

 You can use quotes inside a string, as long as they don't match the quotes surrounding the string

```
var message = "It's alright";
```

BOOLEAN

A Boolean value can only be true or false

```
var condition1 = true;
var condition2 = false;
```

Do not confuse Boolean values with String values



A VARIABLE TYPE CAN CHANGE

• If you do this

```
var storage = "David";
```

• And then this:

```
storage = 98;
```

The type of the variable is immediately changed



USING TYPEOF

 You can use the typeof operator to check the type of a variable



JavaScript Alert

"John" is type: string

3.14 is type: number

false is type: boolean

OK

×



```
<!doctype html>
<html>
<head>
  <title>Variable Type Example</title>
</head>
<body>
  <script>
  alert( '"John" is type: ' + typeof "John" + "\n\n"
        + "3.14 is type: " + typeof 3.14 + "\n\n"
        + "false is type: " + typeof false ) ;
  </script>
</body>
</html>
```



COMMON CHANGES

Code	Quicker Typing
count = count + 1	count++
count = count - 1	count
count = count + 10	count += 10
hello = hello + "!"	hello += "!"
marks = marks - 20	marks -= 20
pigs = pigs * 5	pigs *= 5
cakes = cakes / students	cakes /= students



FROM ONE TYPE TO ANOTHER

Function	Meaning
<pre>parseInt()</pre>	Converts to an integer
parseFloat()	Converts to a floating point number
String()	Converts the value of an object to a string

