ARRAYS

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IN JAVASCRIPT ARE SIMPLE AND EASY-TO-USE.

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BTW, IF YOU HAVE NOT ENCOUNTERED ARRAYS BEFORE - **AN ARRAY IS SIMPLY A LIST OF VALUES**

AN ARRAY IS A **VARIABLE THAT CONTAINS MULTIPLE VALUES** THAT CAN BE EASILY WORKED WITH

EXAMPLE 9: CREATING AND USING AN ARRAY VARIABLE

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ITS ACTUALLY REALLY INTUITIVE AND SIMPLE TO DO

```
<script>

function arrayStuff() {
  var allDays = ['Mon','Tue','Wed','Thu','Fri','Sat','Sun'];
  printArray(allDays, 'All days');
}

function printArray(array,name) {
  console.log("printing array:"+name);
  console.log(array.length + " elements");
  for(var i=0;i<array.length;i++) {
     console.log(i + " : " + array[i]);
   }
}


window.onload = arrayStuff;
```

AN ARRAY IS SIMPLY A VARIABLE CONTAINING A LIST OF VALUES

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```

REMEMBER TO DECLARE YOUR VARIABLE, ELSE IT WILL BECOME GLOBAL!

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```

THE LIST OF VALUES IS ENCLOSED IN SQUARE BRACKETS, AND SEPARATED BY COMMAS

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function printArray(array,name) {
  console.log("Printing array: "+name);
  for(var i=0;i<array.length;i++) {
    console.log(i+": "+array[i]);
  }
}

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```

UNLIKE IN SOME OTHER LANGUAGES (EG. C), YOU CAN PASS AN ARRAY INTO A FUNCTION PRETTY EASILY, NO GOTCHAS

AN ARRAY IS SIMPLY A VARIABLE CONTAINING A LIST OF VALUES

```
console.log(array.length + " elements");
```

HOW MANY ELEMENTS IN THIS ARRAY? SIMPLY USE THE `.length` 'PROPERTY', AS ITS CALLED

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WE WILL HAVE A LOT MORE TO SAY ON PROPERTIES SOON - FOR NOW JUST REMEMBER THIS BIT OF SYNTAX :-)

AN ARRAY IS SIMPLY A VARIABLE CONTAINING A LIST OF VALUES

```
for(var i=0;i<array.length;i++) {
    console.log(i + " : " + array[i
}
}
window.onload = arrayStuff;
```

A VERY COMMON WAY TO USE ARRAYS IS TO "ITERATE" OVER AN ARRAY, I.E. DO STUFF TO EACH ELEMENT IN THE ARRAY

"ITERATE" OVER AN ARRAY

```
for(var i=0;i<array.length;i++) {
    console.log(i + ": " + array[i
}
}
window.onload = arrayStuff;
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TO ACCESS AN INDIVIDUAL ELEMENT OF AN ARRAY, USE THE INDEXING OPERATOR

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```
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    console.log(i + ": " + array[i
}
}
window.onload = arrayStuff;
```

REMEMBER THAT JAVASCRIPT ARRAYS ARE INDEXED STARTING FROM 0 (LIKE IN MOST LANGUAGES)

"ITERATE" OVER AN ARRAY

```
for(var i=0;i<array.length;i++) {
    console.log(i + ": " + array[i
}
}
window.onload = arrayStuff;
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```
    for(var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i
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}

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```

ITS A WAY OF PERFORMING AN OPERATION A BUNCH OF TIMES (IN A LOOP)

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```
for (var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i
    }
}
window.onload = arrayStuff;
```

THIS BIT OF WEIRD SYNTAX TELLS THE LOOP HOW MANY TIMES TO EXECUTE

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```
for (var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i
    }
}
window.onload = arrayStuff;
```

AT START OF LOOP, SET A LOOP VARIABLE ('COUNTER') TO AN INITIAL VALUE

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```
for(var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i
    }
}

window.onload = arrayStuff;
```

ON EACH ITERATION OF THE LOOP, DO SOMETHING TO THE COUNTER (INCREMENT IT)

BTW, IN CASE YOU HAVE NOT SEEN THESE BEFORE, THIS HERE IS A "FOR LOOP"

```
for(var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i
    }
}
window.onload = arrayStuff;
```

KEEP GOING AS LONG AS THIS LOOP CONDITION IS TRUE. ELSE, STOP LOOPING

```
    for(var i=0;i<array.length;i++) {
        console.log(i + " : " + array[i]);
    }
}
window.onload = arrayStuff;
```

```
printing array:All days
7 elements
0 : Mon
1 : Tue
2 : Wed
3 : Thu
4 : Fri
5 : Sat
6 : Sun
```

```
var allDays = [‘Mon','Tue','Wed','Thu','Fri','Sat','S
```