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JavaScript For...In Statement

The for...in statement loops through the properties of an object. The code in the body of the for...in loop is executed once for each element/property.

The variable argument can be a named variable, an array element, or a property of an object.

```
for ( variable in object ) {  
    code to be executed  
}
```

The script allows users to guess a digit. It quits after five tries. The variable d2 starts with a value 0. Each time the for statement is executed, d2 will be increased by 1 until it reaches to 5 and then the script stops. The object [Array](#) lets you work with arrays. Its constructor includes

```
<html><body>  
<script type="text/javascript">  
    var myDigit = new Array( 3, 8, 6, 9, 0 );  
    var d1 = prompt( "Guess a digit." );  
    for ( var d2 in myDigit )  
        if ( d1 == myDigit[d2] ) {  
            document.write( "You won!" );  
            exit;  
        }  
        else  
            d1 = prompt( "Guess a digit again." );  
    document.write( "You failed!" );  
</script>  
</body></html>
```

```
new Array( arrayLength );  
new Array( element0, element1, ..., elementN );
```

- `arrayLength`: the initial length of the array. You can access this value using the [length](#) property. If the value specified is not a number, an array of length 1 is created, with the first element having the specified value.

- **elementN**: a list of values for the array's elements. When this form is specified, the array is initialized with the specified values as its elements, and the **length** property is set to the number of arguments.

You can refer to a particular element in an array by referring to the name of the array and the index number such as `myDigit[d2]`. The index number starts at 0.

Demonstration

The following demonstration shows how the script of HTML and JavaScript is displayed on the Web.

Display the HTML

Reset

```
<html>
<body>
  <script type="text/javascript">
    var person = {fname:"John", lname:"Doe", age:25};
    for ( x in person ) {
      document.write( x + ": " );
      document.write( person[x] + "<br />" );
    }
  </script>
</body>
</html>
```

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