

Unit conversion with javascript Array.map()



JavaScript

The screenshot shows a live chat window. At the top, there's a dark header bar with icons for IE, Atom, and Angular, followed by a red 'EXPLORE TEAM' button. Below the header, the message 'Live Chat Support' is displayed. A message from 'Sabrina' says: 'Welcome! Are you looking for training for your team?'. At the bottom, there's a text input field with 'Type here...' placeholder text and a 'SEND' button.

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percentages to fractions. An array of these measurements can conveniently and quickly get converted with javascript's Array.map() method.

The map() method is called as a prototype method of an array. The function passed to array.map() runs on every element in that array, and then returns a new array with the returned values.

The following examples convert distance, temperature, weight, and time to demonstrate some scenarios for when and how to use the Array.map() method.

1Convert Meters to Centimeters

2Convert Celsius to Fahrenheit

3Convert Kilograms to Grams

4Convert Years to Days

Let's say we have an array of measurements in meters, but what we really need is an array of those measurements in centimeters. To convert from Meters to Centimeters multiply total meters by 100

```
1      function meters_to_centimeters( distance ) {  
2          var centimeters = distance * 100;  
3          return centimeters;  
4      }  
5  
6      var meters_array = [2, 1.5, 14, 4.2, 8];
```



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```
1  function celsius_to_fahrenheit( temperature ) {  
2      var fahrenheit = (temperature * 1.8) + 32;  
3      return fahrenheit;  
4  }  
5  
6  
7  var temperatures_in_celsius = [10, 16, 20, 24, 32];  
8  
9  var temperatures_in_fahrenheit = temperatures_in_cels  
10 ius.map(celsius_to_fahrenheit);  
11  
12 console.table([temperatures_in_celsius,temperatures_i  
n_fahrenheit]);  
13 //celsius: [10, 16, 20, 24, 32];  
14 //fahrenheit: [50, 60.8, 68, 75.2, 89.6];
```

Let's take a look at an example using the map() method to convert a array of weights in kilograms to an array in grams. To convert weight from Kilograms to grams, multiply by 1000

```
1  function kilograms_to_grams( weight ) {  
2      var grams = weight * 1000;  
3      return grams;  
4  }  
5  
6  
7  var weights_in_kilograms = [12, 6, 2, 14, 7];  
8  
9  var weights_in_grams = weights_in_kilograms.map(kilog
```



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```
3         var days = time * 365;
4         return days;
5     }
6
7     var years_array = [12, 21, 31, 54, 72];
8
9     var days_array = years_array.map(years_to_days);
10
11    console.table([years_array, days_array]);
12    //years: [12, 21, 31, 54, 72];
13    //days: [4380, 7665, 11315, 19710, 26280];
14
```

To summarize, javascripts Array.map() method is useful for converting a group of measurements with javascript. Whether you are looking to convert a group of distances, temperatures, weights, times or other units, Array.map() can handle the job. Array.map() goes much deeper and can handle many more use cases.

Array.map() also has parameters passed in with the callback function including currentValue, index, and the array that .map() was called from. While the above examples map over an array of numbers, .map() can also be used with strings, objects, and other types stored within the array.

For a more in depth explanation of the Array.map() javascript method, checkout the Mozilla Developer Network map() method documentation.

[MDN Array.prototype.map\(\)](#)

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