

# shuffle()

Shuffles the elements of an array.

The first parameter, `array`, is the array to be shuffled. For example, calling `shuffle(myArray)` will shuffle the elements of `myArray`. By default, the original array won't be modified. Instead, a copy will be created, shuffled, and returned.

The second parameter, `modify`, is optional. If `true` is passed, as in `shuffle(myArray, true)`, then the array will be shuffled in place without making a copy.

## Examples



```
function setup() {
  createCanvas(100, 100);

  background(200);

  // Create an array of colors.
  let colors = ['red', 'orange', 'yellow', 'green', 'blue',
    'indigo', 'violet'];

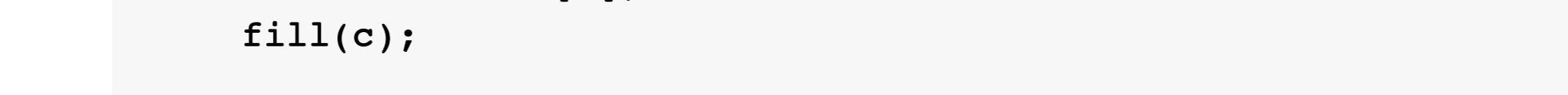
  // Create a shuffled copy of the array.
  let shuffledColors = shuffle(colors);

  // Draw a row of circles using the original array.
  for (let i = 0; i < colors.length; i += 1) {
    // Calculate the x-coordinate.
    let x = (i + 1) * 12.5;

    // Style the circle.
    let c = colors[i];
    fill(c);

    // Draw the circle.
    circle(x, 33, 10);
  }

  // Draw a row of circles using the original array.
  for (let i = 0; i < shuffledColors.length; i += 1) {
    // Calculate the x-coordinate.
```



```
function setup() {
  createCanvas(100, 100);

  background(200);

  // Create an array of colors.
  let colors = ['red', 'orange', 'yellow', 'green', 'blue',
    'indigo', 'violet'];

  // Shuffle the array.
  shuffle(colors, true);

  // Draw a row of circles using the original array.
  for (let i = 0; i < colors.length; i += 1) {
    // Calculate the x-coordinate.
    let x = (i + 1) * 12.5;

    // Style the circle.
    let c = colors[i];
    fill(c);

    // Draw the circle.
    circle(x, 50, 10);
  }

  describe(
    'A row of colorful circles on a gray background. Their
    sequence changes each time the sketch runs.'
  );
}
```

## Syntax

```
shuffle(array, [bool])
```

## Parameters

`array` Array: array to shuffle.  
`bool` Boolean: if `true`, shuffle the original array in place. Defaults to `false`.

## Returns

Array: shuffled array.

This page is generated from the comments in `src/utilities/array_functions.js`. Please feel free to edit it and submit a pull request!

## Related References

[append](#)  
 Adds a value to the end of an array.

[arrayCopy](#)  
 Copies an array (or part of an array) to another array.

[concat](#)  
 Concatenates two arrays, maps to `Array.concat()`.

[reverse](#)  
 Reverses the order of an array, maps to `Array.reverse()`.

