18 JAVASCRIPT ONE-LINERS

THAT'LL MAKE YOU LOOK LIKE A PRO

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1. Generate a random string

We can use Math.random to generate a random string, it's very convenient when we need a unique ID.

```
const randomString = () => Math.random().toString(36).slice(2)

randomString() // gi1qtdego0b
randomString() // f3qixv40mot
randomString() // eeelv1pm3ja
```

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2. Escape HTML special characters

If you know about XSS, one of the solutions is to escape HTML strings.

```javascript
const escape = (str) => str.replace(/[&<>"']/g, (m) => ({ '&': '&amp;', '<': '&lt;', '>': '&gt;', '"': '&quot;', "'": '&#39;' }[m]))

escape('<div class="medium">Hi Medium.</div>')
// &lt;div class=&quot;medium&quot;&gt;Hi Medium.&lt;/div&gt
```

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3. Uppercase the first character of each word in a string

This method is used to uppercase the first character of each word in a string.

```javascript
const uppercaseWords = (str) => str.replace(/^(.)|\s+(.)/g, (c) => c.toUpperCase())

uppercaseWords('hello world'); // 'Hello World'
```

4. Convert a string to camelCase

```javascript
const toCamelCase = (str) => str.trim().replace(/[-_\s]+(.)?/g, (_, c) => (c ? c.toUpperCase() : ''))

toCamelCase('background-color'); // backgroundColor
toCamelCase('-webkit-scrollbar-thumb'); // WebkitScrollbarThumb
toCamelCase('_hello_world'); // HelloWorld
toCamelCase('hello_world'); // helloWorld
```

5. Remove duplicate values in an array

It is very necessary to remove the duplicates of the array, using "Set" will become very simple.
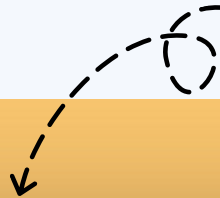
```javascript
const removeDuplicates = (arr) => [...new Set(arr)]

console.log(removeDuplicates([1, 2, 2, 3, 3, 4, 4, 5, 5, 6]))
// [1, 2, 3, 4, 5, 6]
```

6. Flatten an array

We are often tested in interviews, which can be achieved in two ways.
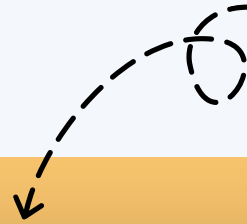
```javascript
const flat = (arr) =>
    [].concat.apply(
        [],
        arr.map((a) => (Array.isArray(a) ? flat(a) : a))
    );
// Or
const flat = (arr) => arr.reduce((a, b) => (Array.isArray(b) ? [...a, ...flat(b)] : [...a, b]), [])

flat(['cat', ['lion', 'tiger']]); // ['cat', 'lion', 'tiger']
```

7. Remove falsy values from an array

Using this method, you will be able to filter out all the falsy values from the array.
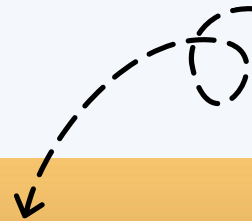
```
const removeFalsy = (arr) => arr.filter(Boolean)

removeFalsy([0, 'a string', '', NaN, true, 5, undefined, 'another string', false])
// ['a string', true, 5, 'another string']
```
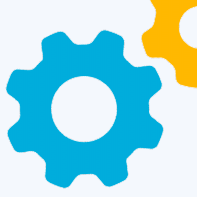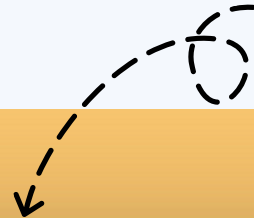
8. Check if a number is even or odd

Super simple task that can be solved by using the modulo operator (%).

```js
const isEven = num => num % 2 === 0
isEven(2) // true
isEven(1) // false
```
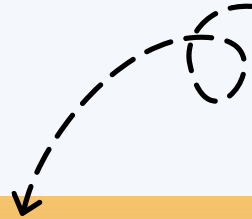
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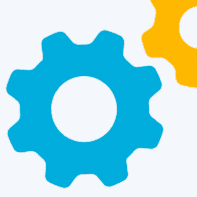
9. Get a random integer between two numbers

This method is used to get a random integer between two numbers.

```javascript
const random = (min, max) => Math.floor(Math.random() * (max - min + 1) + min)

random(1, 50) // 25
random(1, 50) // 34
```
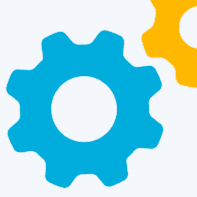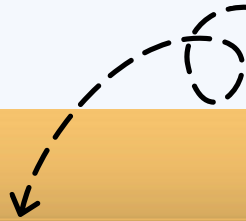
10. Get average value of arguments

We can use the reduce method to get the average value of the arguments that we provide in this function.

```
const average = (...args) => args.reduce((a, b) => a + b) / args.length

average(1, 2, 3, 4, 5);    // 3
```
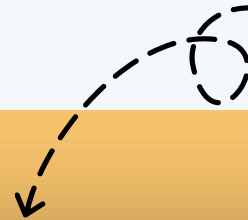
11. Truncate a number to a fixed decimal point

Using the Math.round() method, we can truncate a number to a certain decimal point that we provide in the function.

```
const round = (n, d) => Number(Math.round(n + "e" + d) + "e-" + d)
round(1.005, 2) //1.01
round(1.555, 2) //1.56
```

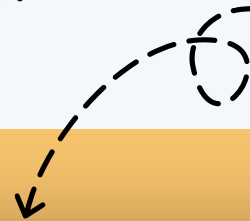# 12. Calculate the number of difference days between two dates

Sometimes we need to calculate the number of days between two dates, a line of code can be done.

```javascript
const diffDays = (date, otherDate) => Math.ceil(Math.abs(date - otherDate) / (1000 * 60 * 60 * 24))

diffDays(new Date("2021-11-3"), new Date("2022-2-1"))  // 90
```
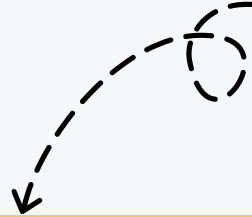
13. Get the day of the year from a date

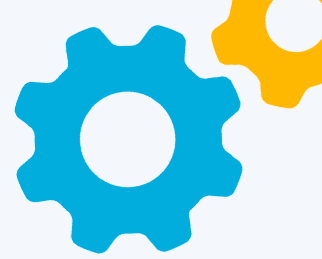Do you want to know the day of the year a certain date is?

```javascript
const dayOfYear = (date) => Math.floor((date - new Date(date.getFullYear(), 0, 0)) / (1000 * 60 * 60 * 24))
dayOfYear(new Date()) // 74
```
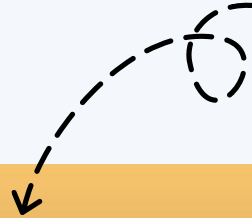
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14. Generate a random hex color

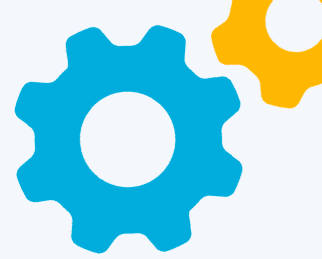If you need a random color value, this function will do.

```javascript
const randomColor = () => `#${Math.random().toString(16).slice(2, 8).padEnd(6, '0')}`
randomColor() // #9dae4f
randomColor() // #6ef10e
```
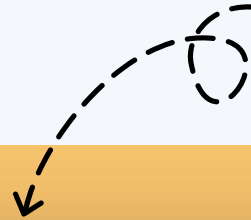
15. Convert RGB color to hex

```javascript
const rgbToHex = (r, g, b) => "#" + ((1 << 24) + (r << 16) + (g << 8) + b).toString(16).slice(1)

rgbToHex(255, 255, 255)  // '#ffffff'
```

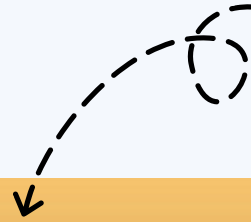# 16. Clear all cookies

```javascript
const clearCookies = () => document.cookie.split(';').forEach((c) => (document.cookie = c.replace(/^
+/, '').replace(/=.*/, `=;expires=${new Date().toUTCString()};path=/`)))
```
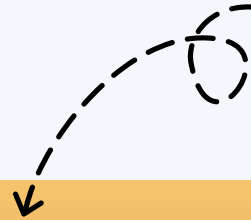
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17. Detect dark mode

```
const isDarkMode = window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').matches
```
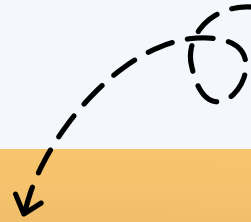
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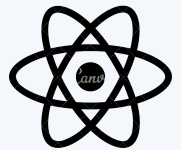*Forming a network of fantastic coders.*
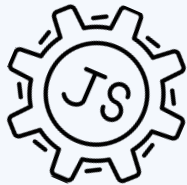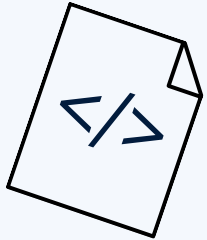
18. Swap two variables

```
[foo, bar] = [bar, foo]
```

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