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The top 10 JavaScript updates you can't miss in 2023



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ECMAScript new features

Every year, ECMAScript introduces a wave of new language features that get implemented in our favorite browsers. This year, one of my absolute favorites is the `groupBy` object.

Imagine you have an array of objects pulled from a database, each one containing an “age” field.

With `groupBy`, you can effortlessly categorize people under 21 as children and those over 21 as adults . The resulting output is a neat and tidy object, with all ages neatly grouped together.

Here's an example to illustrate the magic:

```
let ppl = [
  { name: "John", age: 2 },
  { name: "Jane", age: 19 },
  { name: "Jeff", age: 69 },
];
```

```
▼ {minor: Array(2), adult: Array(1)}
  ▼ adult: Array(1)
    ▶ 0: {name: 'Jeff', age: 69}
      length: 1
    ▶ [[Prototype]]: Array(0)
  ▼ minor: Array(2)
    ▶ 0: {name: 'John', age: 2}
    ▶ 1: {name: 'Jane', age: 19}
```

However, I find myself using the array `toSorted` function more often, along with `toSplice` and `toReversed`.

```
const arr = [5, 3, 1, 4, 2]
arr.toSorted((a, b) => a - b);
console.log(arr); // [1, 2, 3, 4, 5]
```



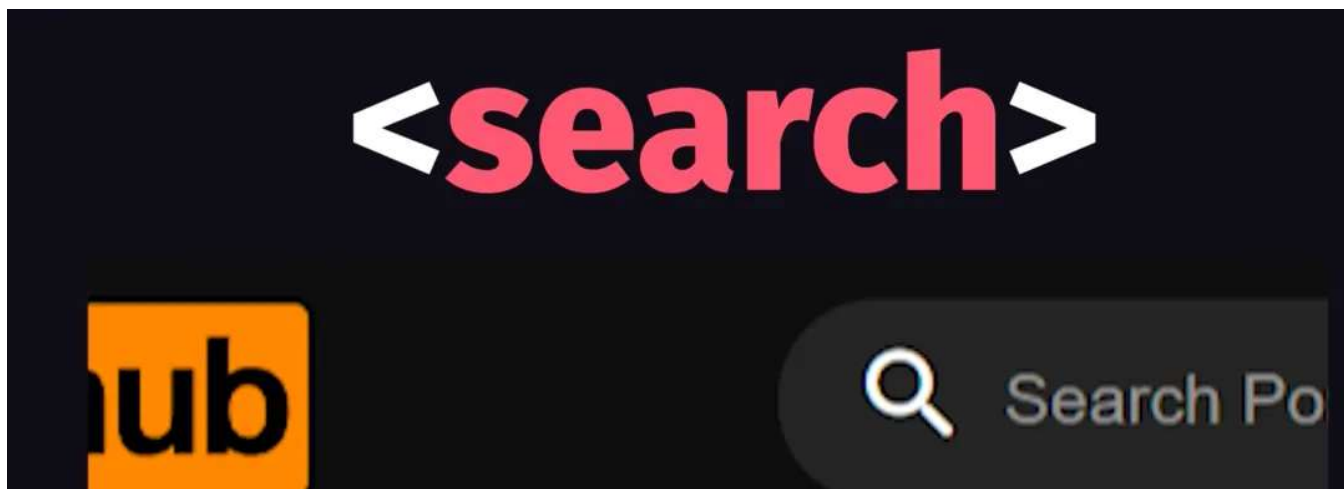
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While we've always had `sort` and `reverse` methods, they've been a thorn in the side of functional programming enthusiasts. Why? Because they modify the original array, causing confusion and inconsistency compared to other methods like `map` and `filter` that remain pure and create new arrays.

But fear no more! JavaScript now offers a set of new array methods that let you sort, reverse, and slice without ever touching the original array. This means you can finally write pure functional code with confidence, ensuring predictable behavior and avoiding unintended side effects.

These new methods treat the original array as an immutable value, returning a new array with the desired changes applied. This leads to cleaner, more readable, and more maintainable code.

New HTML elements



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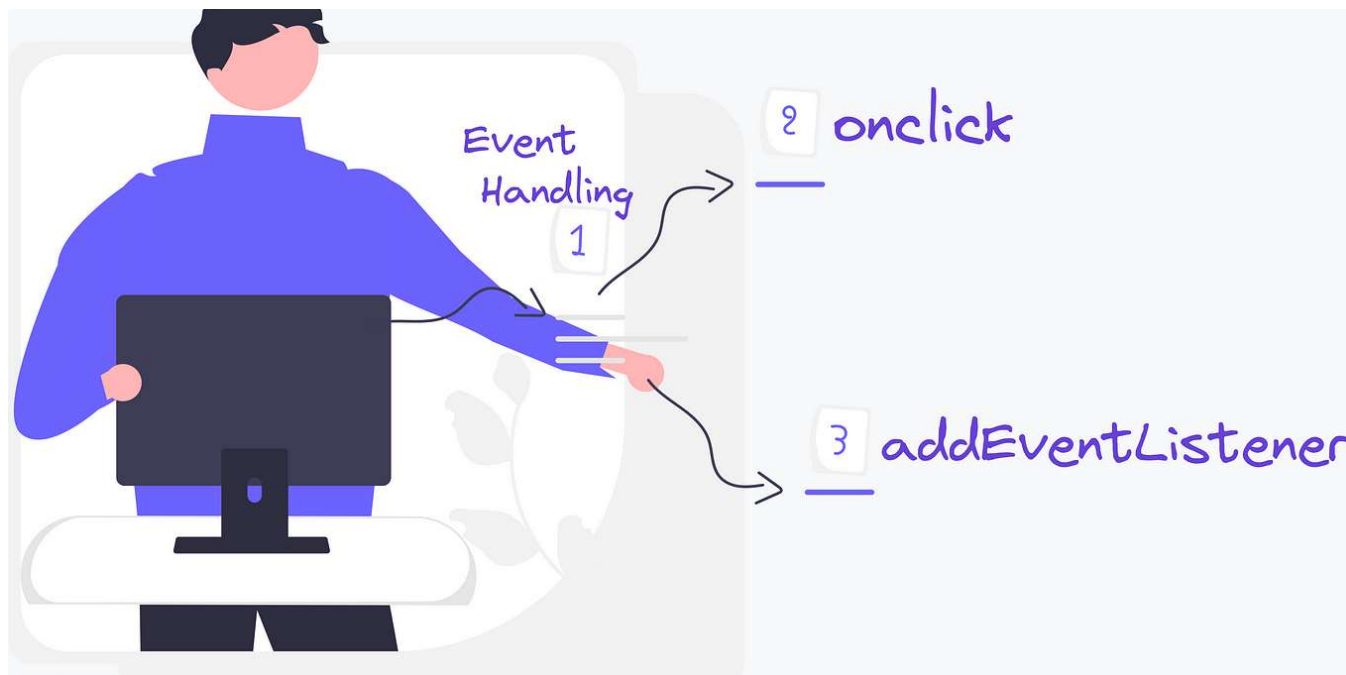
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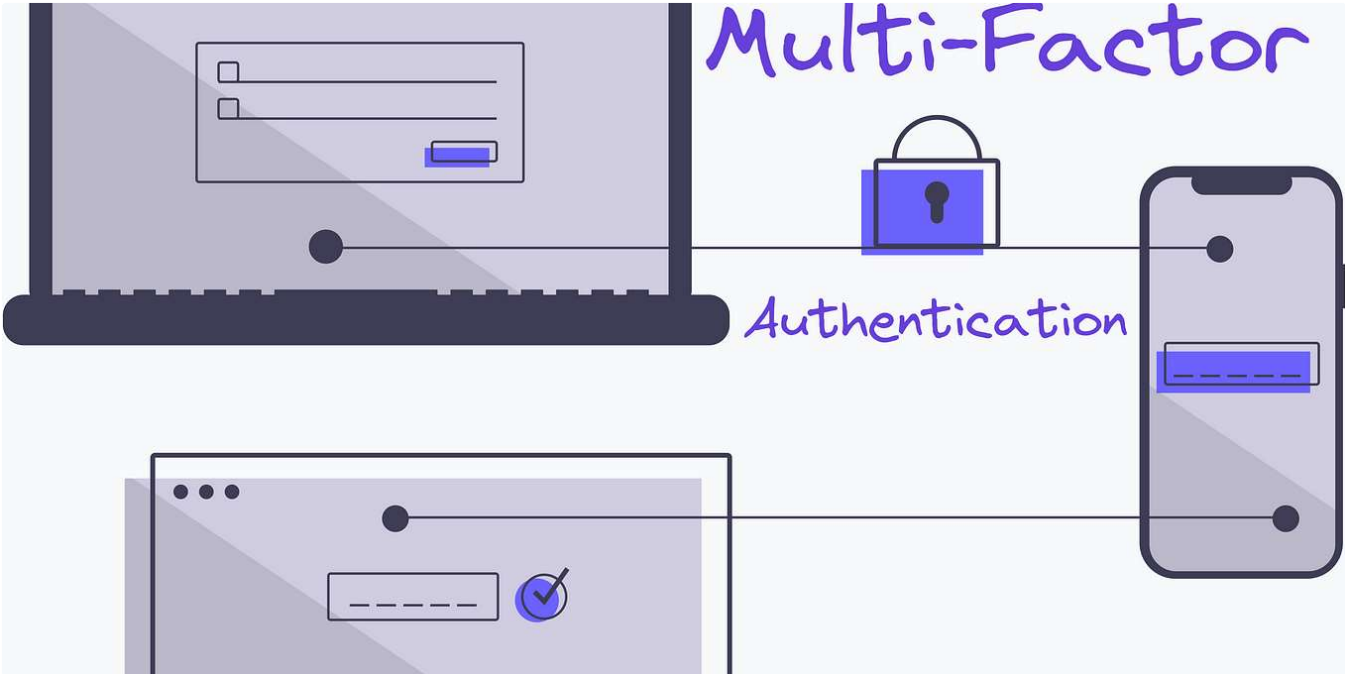


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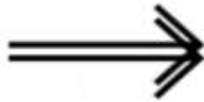
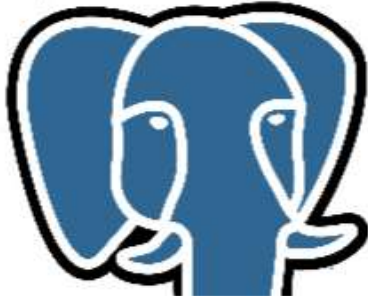


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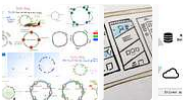
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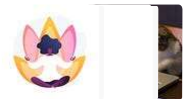
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