

ES6: NEXT GEN JS

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REST OPERATOR ...

Note: yep, looks just like spread (and it does the opposite). Who comes up with these? The spread operator unpacks (for example, extracting contents from an array). The rest operator packs (for example, packing items into an array).

References: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions/rest_parameters

Code snippet: in this example, we calculate the bill including sales tax. Of course, we have no idea how many values will be entered on the function call.

```
14 ▼ function calcBill(salesTax, ...enteredAmounts) {
15     // sales tax followed by an unknown number of values
16     //console.log(salesTax, enteredAmounts); // for debugging
17
18     return enteredAmounts.map(amount => (amount * salesTax) +
19     amount );
20
21 const enteredAmounts = calcBill(0.08, 42, 33, 100, 205, 100)
```

Result when viewed in the browser console is shown below.

```
▼ (5) [45.36, 35.64, 108, 221.4, 108]
  0: 45.36
  1: 35.64
  2: 108
  3: 221.4
  4: 108
  length: 5
  ► __proto__: Array(0)
```

Spread returned values

```
45.36 35.64 108 221.4 108
```

Reference file: **08Rest.html**

Quick question: what other use cases might be appropriate for the rest operator?