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9 Incredibly Useful JavaScript Tips



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🚀 1. Dynamically Load JS Files

In certain unique scenarios, particularly during the development of libraries and frameworks, there arises a need to dynamically load JS files and execute them. Below is a straightforward encapsulation using Promise.

```
function loadJS(files, done) {  
  // Get the head tag  
  const head = document.getElementsByTagName('head')[0];
```

```

Promise.all(files.map(file => {
  return new Promise(resolve => {
    //Create a script tag and add it to the head
    const s = document.createElement('script');
    s.type = "text/javascript";
    s.async = true;
    s.src = file;
    //Listen to the load event and resolve if the loading is completed
    s.addEventListener('load', (e) => resolve(), false);
    head.appendChild(s);
  });
})).then(done); // Everything is completed, execute the user's callback even
}
loadJS(["test1.js", "test2.js"], () => {
  //User callback logic
});

```

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There are two core points in the above code. One is to use Promise to handle asynchronous logic, and to use script tags to load and execute js.

🔧 2. Implement Template Engine

The following example employs minimal code to create a dynamic template rendering engine. It not only facilitates the substitution of regular dynamic variables but also supports dynamic JavaScript syntax logic, including for loops, if statements, and more. The detailed implementation logic can be found in another article by the author titled “Interviewer asked: Can you handwrite a template engine?” providing a comprehensive explanation. Interested readers can explore it further. 📄 🔍

```

// This is a dynamic template containing js code
var template =
  'My favorite sports:' +
  '<%if(this.showSports) {%>' +
    '<% for(var index in this.sports) { %>' +
    '<a><%this.sports[index]%></a>' +
    '<%}%>' +
  '<%} else {%>' +
    '<p>none</p>' +
  '<%}%>';
// This is the function string we want to concatenate
const code = `with(obj) {
  var r=[];
  r.push("My favorite sports:");

```

```
if(this.showSports) {  
  // ...  
}
```

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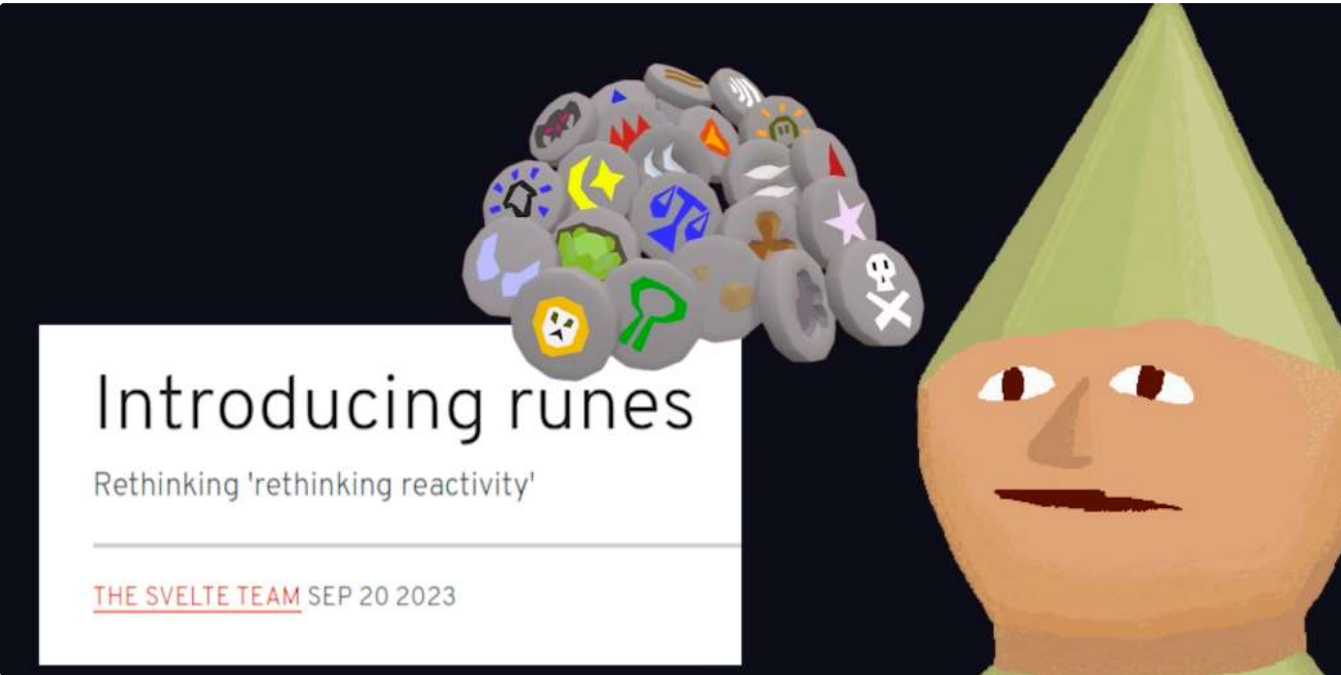
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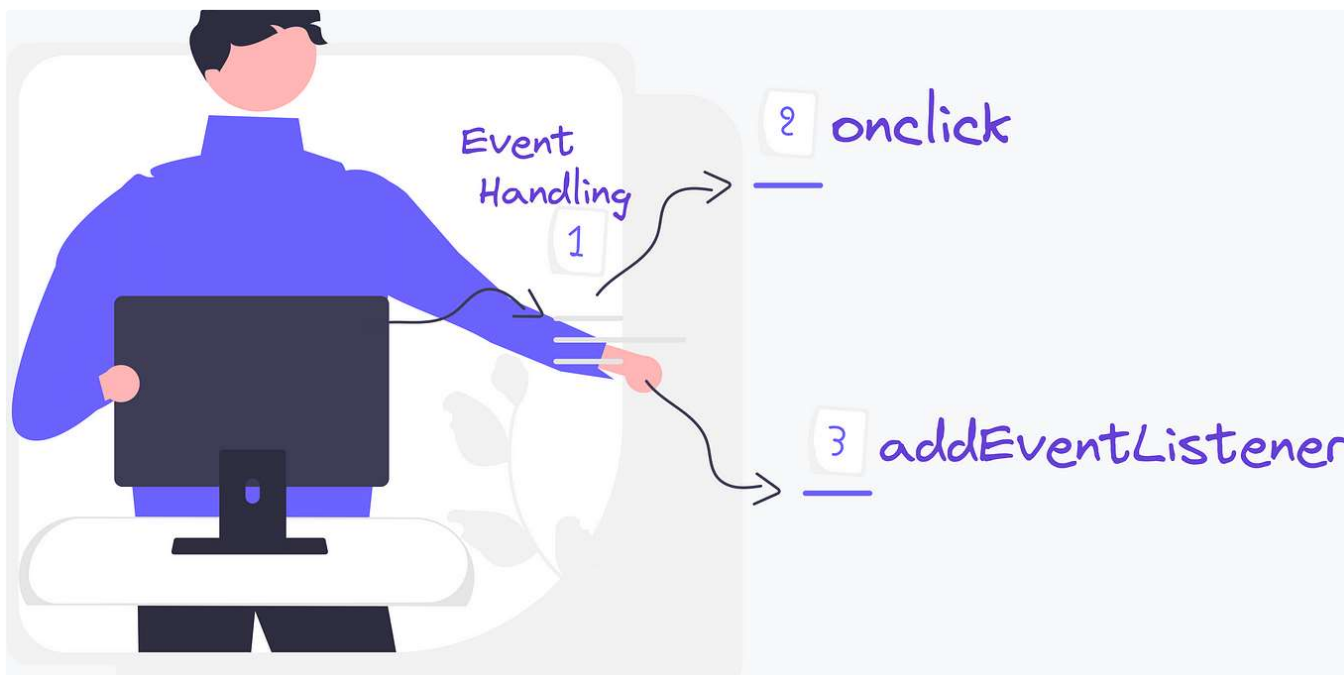
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
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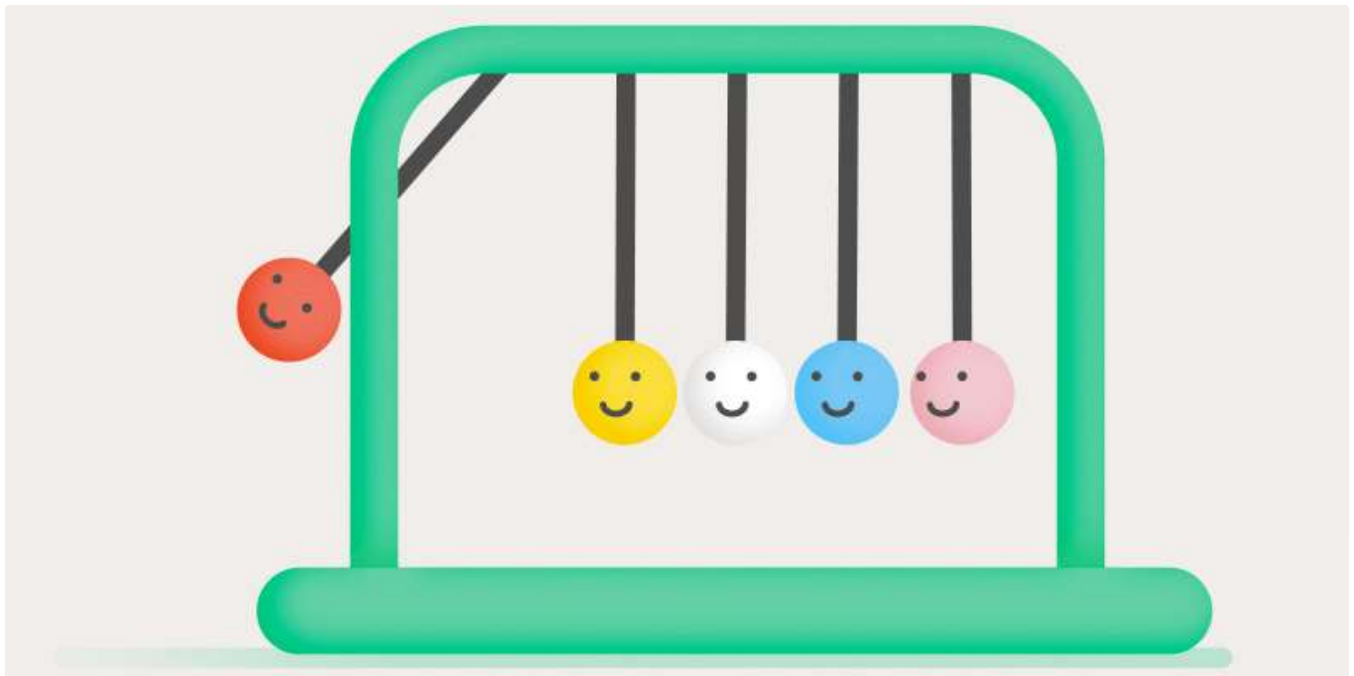
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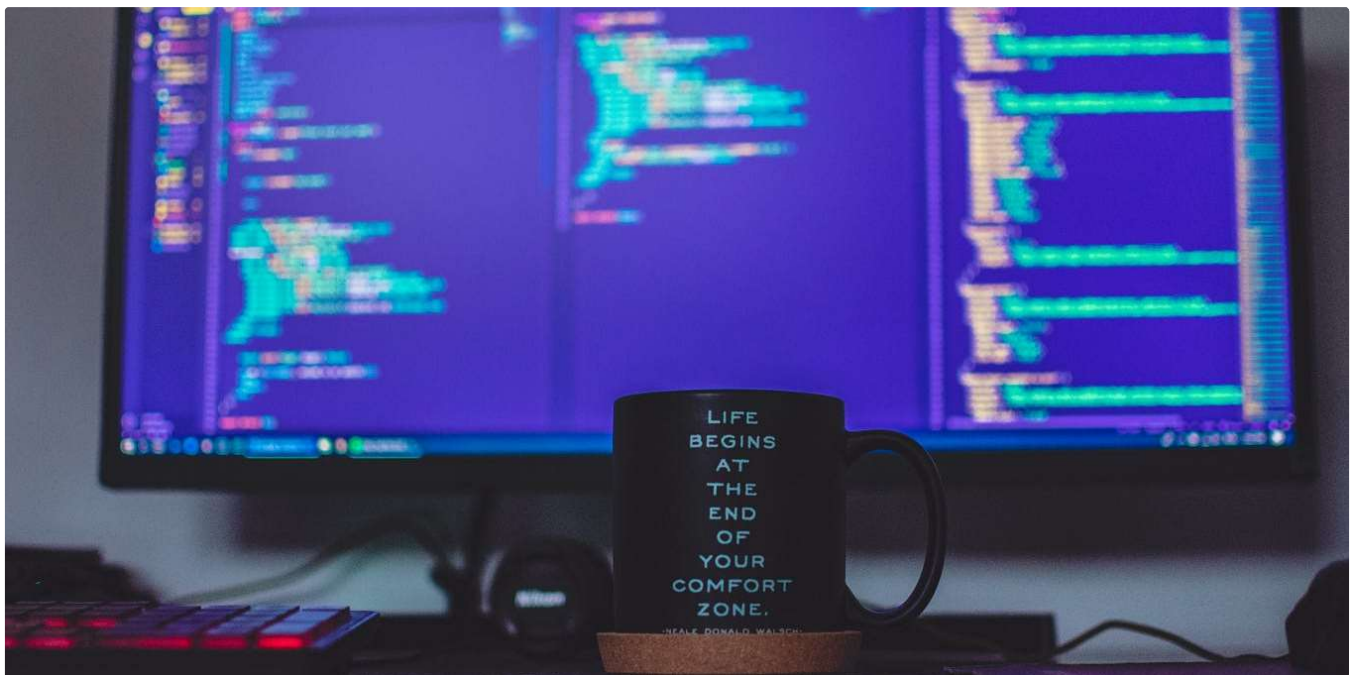
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