



IMPORT IN JAVASCRIPTS



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COMMON JS

In the **commonJS** module system used by **Node.js**, importing a module is synchronous. This means that when a module is imported, the code execution will wait until the module has been loaded and processed before continuing.



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```
1  const fs = require('fs');
2
3  /**
4      code execution will wait until the module
5      has been loaded and processed
6  */
7  console.log(
8      ' printed after the "fs" module has been loaded.'
9  );
```





In contrast, in the **ECMAScript** module system used in modern browsers and in recent versions of **Node.js**, importing a module is asynchronous.

This means that when a module is imported, the code execution will not wait for the module to be loaded and processed, but instead continue running, and the imported module will be made available as soon as it has finished loading and processing. Muhammad Mohsin



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```
1  // importing a module in an asynchronous manner
2  import { readFile } from 'fs/promises';
3
4  // code execution will be asynchronous
5  console.log('code execution will be asynchronous');
6
7  // the imported module will be made available as
8  // soon as it has finished loading and processing
9  async function readMyFile() {
10     const content = await readFile('./my-file.txt', 'utf-8');
11     console.log(content);
12 }
```





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