

JavaScript Callbacks

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Organization of the pill

Analyze task priority and difficulty

Study callback functions concepts

Analyze callback usage in real projects

Optimize my time to accomplish the most important tasks

Knowledge learned

Concept:

A callback function is a function passed into another function as an argument, which is then invoked inside the outer function to complete some kind of routine or action

Knowledge learned

Example:

```
1  function greeting(name) {  
2      alert('Hello ' + name);  
3  }  
4  
5  function processUserInput(callback) {  
6      var name = prompt('Please enter your name.');
```

```
7      callback(name);  
8  }  
9  
10 processUserInput(greeting);
```

Difficulties during the pill

Get to internalize the callback concept

Use the callback functions in practice

Use the correct syntax to call the function as a parameter

Knowledge limitation in javascript functions

Recommend uses of callbacks

For one very important reason — JavaScript is an event driven language.

Sending API call to certain endpoints for getting data.

Sending network requests to get some resources (for example, text file, image file, binary file, etc.) from a remote server.

To handle these situations, we must write asynchronous codes and the callback function is one approach to deal with these situations

Advantages of callbacks

Write asynchronous code

Error handling with callbacks

Simplicity

Slightly better performance than promises

Disadvantages of callbacks

The biggest problem with callbacks is that they do not scale well for even moderately complex asynchronous code. The resulting code often becomes hard to read, easy to break, and hard to debug.

Not recommended to use callbacks

When we have a moderately complex asynchronous code.

Because the resulting code often becomes hard to read, easy to break, and hard to debug.

Thank You!

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