## JavaScript: Executing synchronously

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🔹 acarlstein.com/
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I am being ask this question often; therefore, I am posting the answer here.

Commonly there are those who wish to do a process that normally is asynchronously, such as performing AJAX operations in a synchronous fashion. There are a few ways to do this.

If you are coding in JS for NodeJS, then you can use the package async-waterfall, example:

```
function readFile(callback) {
      fs.readFile('your_file.json', function (error, file) {
          if (error) {
              callback(error);
          } else {
              callback(null, file);
      });
 }
 function processFile(file, callback){
      // Some code here
 }
 async.waterfall([
      readFile,
      processFile
  ], function (error) {
      if (error) {
          // handle error made in readFile or processFile method
      }
 });
```

Else, you can use promise chains which is part of Javascript, example:

```
new Promise(function(resolve, reject) {
    try{
       resolve(readfile());
    }catch(e){
       reject("error message");
    }
}).then(function(result) {
    return processFile(result)
});
```

Or, you can use async/await: <a href="https://developer.mozilla.org/en-us/docs/Web/JavaScript/Reference/Statements/async">https://developer.mozilla.org/en-us/docs/Web/JavaScript/Reference/Statements/async</a> function

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