

Asynchronous JavaScript



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Class Overview

Callbacks

Anonymous Functions

homework solution

Slow Computing Operations



I/O



Network Requests



Databases

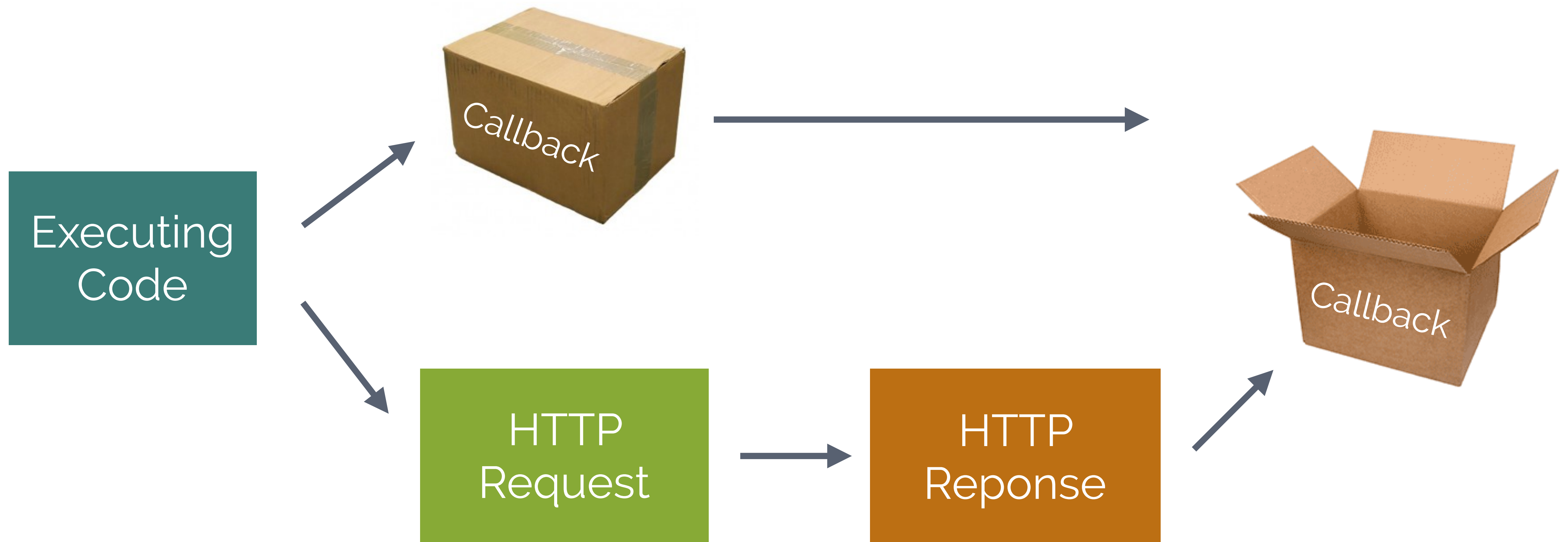





```
var request = require('request');  
  
var result = request.get('https://www.google.com');  
  
console.log(results);  
console.log('done');  
  
// undefined  
// 'done'
```

**Super
Callback!**





```
var request = require('request');

function reqCallback(err, res, body) {
  console.log(body);
  console.log('done');
}

request.get('https://www.google.com', reqCallback);
```

When To Use Callback Pattern

**Async
Operations**

**Return
Multiple
Arguments**

Node 'Failback' Pattern

```
function myCallback (err, data) { }
```

Error First
*if falsey, no errors

Returned data
or parameters

***Note: Callback function signature decided by *calling* function

Anonymous Function

Function that has not been assigned to a variable. Usually passed as an argument to another function.

```
var request = require('request');

request.get('https://www.google.com', function(err,
res, body) {
  console.log(body);
  console.log('done');
});
```

Why?

Quick to write

No unnecessary variables

Why Not?

No reference in stacktraces

Can't reuse

Can be difficult to read