# Callbacks/Class 5

How can we do n tasks in the same amount of time?

*We have 2 ways*

> Multithreading

```
const fs = require("fs");
fs.readFile("input.txt", "utf8", (err, data) => {
  if (err) {
    console.log("error reading file");
  } else {
    console.log(data);
  }
});

console.log("hello world");

/*
This is a callback function where everything in the callback occurs
asyncronously. This allows you to do other things while a file is loading
for instance. Waiting for each file to finish reading before moving onto
another task would be inefficent.

As a task is completed, it gets placed on the queue to print.

This also means that the "hello world" statement will print first because
its not a callback statement.
*/
```

```
const dns = require("dns");
const domain = "venus.cs.qc.cuny.edu";

dns.resolve(domain, (err, data) => {
  if (err) {
    console.log(err);
  } else {
    console.log(data);
  }
});

/*
In this code, the input is a domain and the output is an array of ip-
address's

Another thing to note is that asyncronous programming doesnt have the
traditional return values.
```

```
*/

//Another way to generalize this function

function resolve(domain) {
  dns.resolve(domain, (err, data) => {
    if (err) {
      console.log(err);
    } else {
      console.log(data);
    }
  });
}

resolve(domain);
```