Intro to Node.JS with Twilio

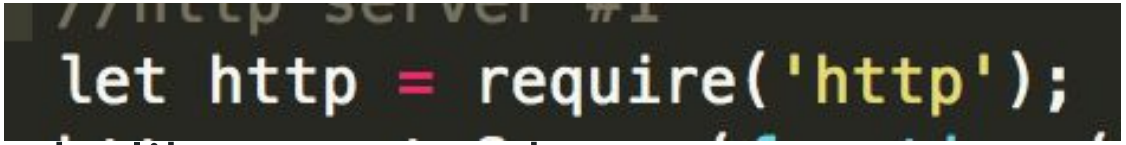
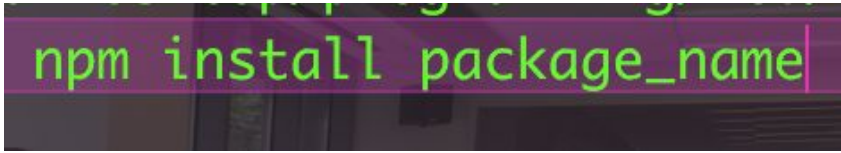
What is Node.JS?

- Open Source server-side platform
  - Need own HTTP server
- Helps JS projects talk to
  - Networks
  - File systems
  - I/O systems

When Should I use Node.JS?

- Streaming-based (ex: data), real-time services
  - Chat
- Static web servers
  - Network w/ protocols: HTTP, TCP, DNS, SSL
- Working with external APIs
  - JSON-based APIs

Modules

- Node.JS relies heavily on modules
  - 
```
let http = require('http');
```
- Node library = package
  - Install via command line:

```
npm install package_name
```
- NPM = Node Package Manager
  - Package = 1+ modules packaged together

Packages

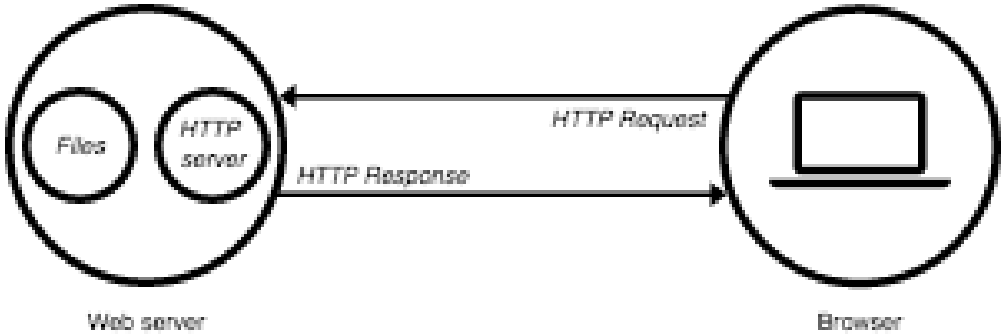
```
Shapes              <- Package name
  - Circle.js       <-
  - Rectangle.js    <- Modules that belong to the Shapes package
  - Square.js       <-
```

Download Node.JS

https://nodejs.org/en/#build

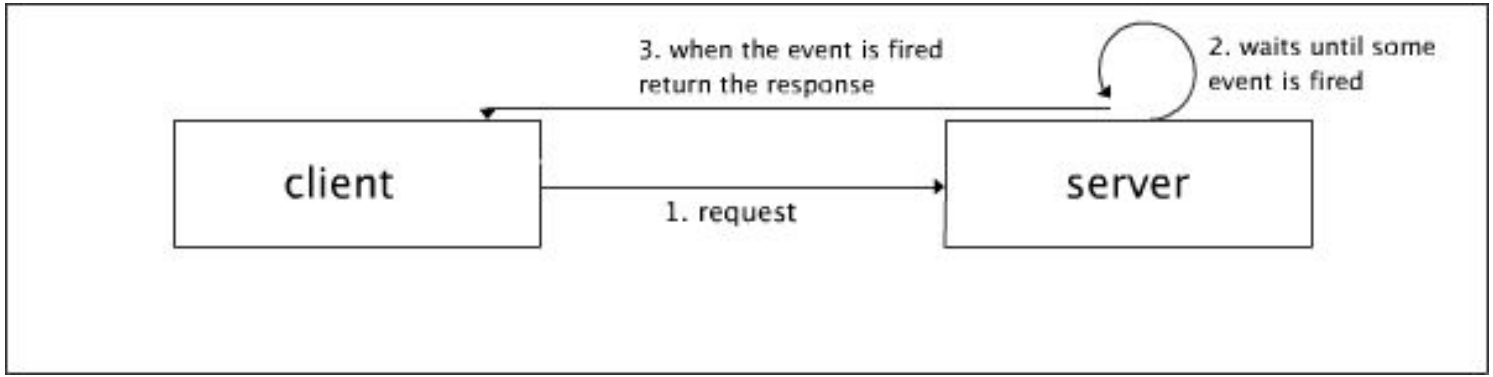
What is an HTTP Server?

- Piece of software that understands URLs (web addresses) and HTTP (protocol your browser uses to read webpages)



Set up an HTTP Server in Node!

```
let http = require('http');
let server = http.createServer(function (req, res) {
    res.end('Hello, World!\n');
}).listen(8000);
console.log('Server running on port 8000');
```


3. when the event is fired
return the response
2. waits until some
event is fired
client
server
1. request

Read and Write to Files

```
var fs = require('fs');
fs.readFile('tennis.txt', 'utf8', function read(err, data) {
    if(err) {
        throw err;
    }
    console.log(data);
});
fs.writeFile('response-file.txt', 'hi mom', function(){
    console.log("open response-file.txt to see 'hi mom' in it omg")
});
```

NBA Data

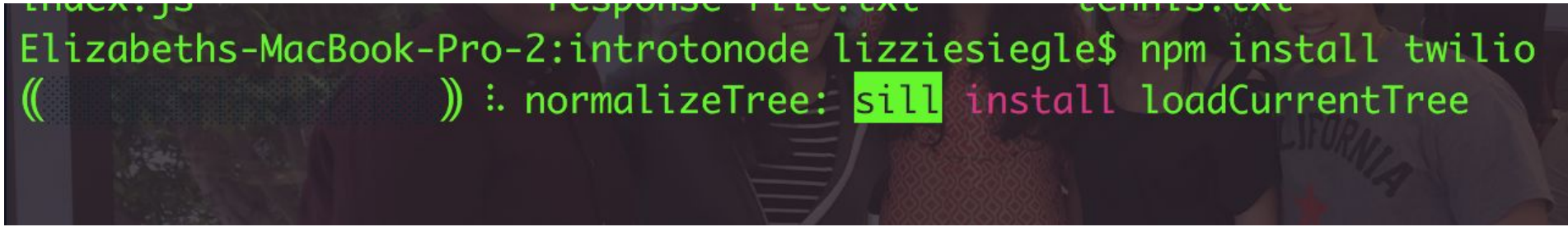
```
var NBA = require('nba');
const curry = NBA.findPlayer('Stephen Curry');
console.log(curry);
```

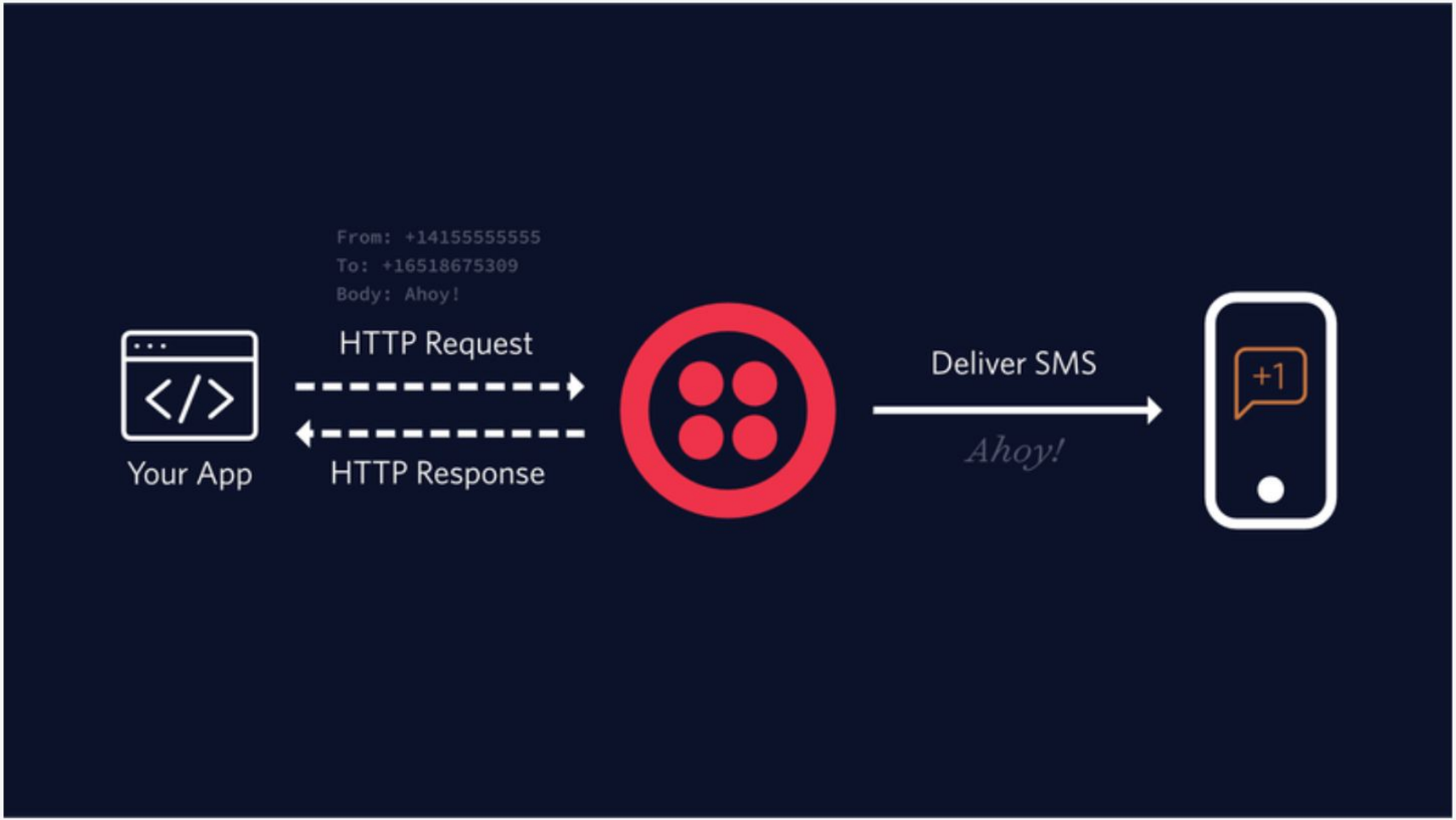
Star Wars Quote Generator

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

console.log(starwars()); // "No. I am your Father."
console.log(starwars()); // "Great shot kid, that was one in a million."
// console.log(starwars.quotes);  // list
```

Twilio with Node




From: +14155555555
To: +16518675309
Body: Ahoy!
HTTP Request
Your App
HTTP Response
Deliver SMS
Ahoy!
+1

Sources

https://cms-assets.tutsplus.com/uploads/users/45/posts/20769/image/image00.png

https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSQOn65tOmJAe51EKeckPvA1GNexAH7JhN14Q_swMDERxWx9c4mxQ

https://www.twilio.com/docs/guides/how-to-send-sms-messages-in-node-js#sign-up-for-a-twilio-account