

1. install training material from Nodeschool

```
Command Prompt
C:\Program Files\nodejs>npm install -g learnyounode
npm WARN deprecated colors-tmpl@1.0.0: no longer maintained
npm WARN deprecated boganipsum@0.1.0: no longer maintained
npm WARN deprecated hoek@5.0.4: This version is no longer maintained. Please upgrade to the latest version.
C:\Users\bosun\AppData\Roaming\npm\learnyounode -> C:\Users\bosun\AppData\Roaming\npm\node_modules\learnyounode\bin\learnyounode
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: codeclimate-test-reporter@github:codeclimate/javascript-test-reporter#97f1ff2cf18cd5f03191d3d53e671c47e954f2fa (node_modules\learnyounode\node_modules\i18n-core\node_modules\codeclimate-test-reporter):
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: Error while executing:
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: undefined ls-remote -h -t ssh://git@github.com/codeclimate/javascript-test-reporter.git
npm WARN optional SKIPPING OPTIONAL DEPENDENCY:
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: undefined
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: No git binary found in $PATH

+ learnyounode@3.5.10
added 736 packages from 373 contributors in 50.027s
```

Practice HELLO WORLD

```
C:\Users\bosun\AppData\Roaming\npm>node program.js
HELLO WORLD

C:\Users\bosun\AppData\Roaming\npm>
```

2. HTTP File Server

a. Support txt file

The screenshot displays a Windows desktop environment with the following components:

- http_file_server.js - Notepad**: A text editor window containing the following JavaScript code:

```
////////////////////////////////////  
//  
// Write an HTTP server that serves the same text file  
// for each request it receives.  
//  
////////////////////////////////////  
var http = require('http')  
var fs = require('fs')  
  
var server = http.createServer(function (req, res) {  
  // - 200 is the return code  
  // - "text/plain" means the file is a text file.  
  res.writeHead(200, { 'content-type': 'text/plain' })  
  
  // Argument 2 is the location of the file  
  // c:/temp/abc.txt  
  fs.createReadStream(process.argv[3]).pipe(res)  
})  
  
// Argument 1 is the port number  
server.listen(Number(process.argv[2]))
```
- Taskbar**: Shows system icons including network, volume, and battery (95%), along with the date and time: 11:23 AM, 2/6/2019.
- Command Prompt**: A terminal window running the command:

```
C:\Users\bosun\AppData\Roaming\npm>node http_file_server.js 8000 C:\Users\bosun\AppData\Roaming\npm\temp\abc.txt
```
- abc.txt - Notepad**: A text editor window containing the text:

```
HELLO WORLD!
```
- Web Browser**: A browser window with the address bar set to `localhost:8000`. The page content displays `HELLO WORLD!`.
- Taskbar (Bottom)**: Shows the same system icons and date/time as the top taskbar, but with a slightly different time: 11:21 AM, 2/6/2019.

b. Support HTML file

The screenshot displays a Windows desktop environment with the following components:

- http_file_server.js - Notepad:** A text editor window containing the following JavaScript code:

```
//////////////////////////////////////////  
//  
// Write an HTTP server that serves the same text file  
// for each request it receives.  
//  
//////////////////////////////////////////  
var http = require('http')  
var fs = require('fs')  
  
var server = http.createServer(function (req, res) {  
  // - 200 is the return code  
  // - "text/plain" means the file is a text file.  
  res.writeHead(200, { 'content-type': 'html' })  
  
  // Argument 2 is the location of the file  
  // c:/temp/abc.txt  
  fs.createReadStream(process.argv[3]).pipe(res)  
})  
  
// Argument 1 is the port number  
server.listen(Number(process.argv[2]))
```
- Taskbar:** Shows system icons for network, volume, and battery (96%), along with the date and time: 11:32 AM, 2/6/2019.
- Command Prompt:** A terminal window with the title "Command Prompt - node http_file_server.js 8000 C:\Users\bosun\AppData\Roaming\npm\t...". The command entered is:

```
C:\Users\bosun\AppData\Roaming\npm>node http_file_server.js 8000 C:\Users\bosun\AppData\Roaming\npm\temp\abc.html
```
- abc.html - Notepad:** A text editor window showing the content of the served file:

```
<html>  
HELLO WORLD!  
</html>
```
- Web Browser:** A browser window with the address bar set to "localhost:8000". The page content is "HELLO WORLD!".
- Taskbar (Bottom):** Shows system icons for network, volume, and battery (96%), along with the date and time: 11:31 AM, 2/6/2019.