

EXPLORER

app.js



NODEJS-COMPLETE-GUIDE

.gitignore

app.js

U

```
1 const http = require('http');
2
3 const server = http.createServer((req, res) => {
4   console.log(req);
5 });
6
7 server.listen(3000);
```

I

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

1: node



Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$ node app.js

Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$ node app.js

|

OUTLINE

master* 0 0

Ln 7, Col 21 Spaces: 4 UTF-8 LF JavaScript Prettier



NODEJS-COMPLETE-GUIDE

.gitignore

app.js

U

```
1 const http = require('http');
2
3 const server = http.createServer((req, res) => {
4   console.log(req);
5   // process.exit(); I
6 });
7
8 server.listen(3000);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: bash



```
_repeat: null,
_destroyed: false,
[Symbol(unrefed)]: true,
[Symbol(asyncId)]: 8,
[Symbol(triggerId)]: 7 },
[Symbol(kBytesRead)]: 0,
[Symbol(kBytesWritten)]: 0 },
_consuming: false,
_dumped: false }
```

0:04:08

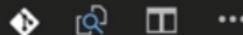
OUTLINE

Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$ [

0:00:45

EXPLORER

app.js



NODEJS-COMPLETE-GUIDE

.gitignore

app.js

```
2
3  const server = http.createServer((req, res) => {
4    console.log(req.url, req.method, req.headers);
5    // process.exit();
6  });
7
8  server.listen(3000);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node



```
Maximilians-MBP:nodejs-complete-guide mschwarzmueller$ node app.js
/ GET { host: 'localhost:3000',
  connection: 'keep-alive',
  'cache-control': 'max-age=0',
  'upgrade-insecure-requests': '1',
  'user-agent':
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.10
6 Safari/537.36',
  accept:
    'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8',
  'accept-encoding': 'gzip, deflate, br',
  'accept-language': 'en-US,en;q=0.9,de-DE;q=0.8,de;q=0.7',
  cookie: '_ga=GA1.1.922359435.1535034935' }
/ GET { host: 'localhost:3000',
  connection: 'keep-alive',
  'cache-control': 'max-age=0',
  'upgrade-insecure-requests': '1',
  'user-agent':
    'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.10
6 Safari/537.36',
  accept:
    'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8',
  'accept-encoding': 'gzip, deflate, br',
```

0:02:30

0:00:40

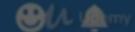


006 Understanding Requests

OUTLINE

master* 0 ▲ 0

Ln 4, Col 19 (3 selected) Spaces: 4 UTF-8 LF JavaScript Prettier: ✓



NODEJS-COMPLETE-GUIDE

.gitignore

app.js U

```
2
3  const server = http.createServer((req, res) => {
4    console.log(req.url, req.method, req.headers);
5    // process.exit();
6    res.setHeader('Content-Type', 'text/html');
7    res.write('<html>');
8    res.write('<head><title>My First Page</title></head>');
9    res.write('<body><h1>Hello from my Node.js Server!</h1></body>');
10   res.write('</html>');
11   res.end();
12 });
13
14 server.listen(3000);
15
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: bash

```
'upgrade-insecure-requests': '1',
'user-agent':
  'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.10
6 Safari/537.36',
accept:
  'text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8',
'accept-encoding': 'gzip, deflate, br',
'accept-language': 'en-US,en;q=0.9,de-DE;q=0.8,de;q=0.7',
cookie: '_ga=GA1.1.922359435.1535034935' }
```

0:03:30

0:02:07

^C

Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$



What about the other headers you see there? These are basically default headers which are set by the server.

11 ms 220 ms

Name	Headers	Preview	Response	Cookies	Timing
test	Connection: keep-alive Content-Type: text/html Date: Mon, 27 Aug 2018 11:54:17 GMT Transfer-Encoding: chunked				
ng-v...					
2 request...					

0:04:41 0:00:56

Console What's New X

Highlights from the Chrome 68 update

007 Sending Responses



Home Media Player Node.js Server! Elements Console Network > Filter Hide data URLs All XHR JS CSS Img Media Font Doc WS Manifest Other 11 ms 220 ms Name Headers Preview Response Cookies Timing test 1 <html><head><title>My First Page</title><head><body> ng-v... 2 request... {} Line 1, Column 105 0:04:54 0:00:43 Highlights from the Chrome 68 update 007 Sending Responses

92°F Haze 12:20 PM 7/26/2023



The name does NOT have to be “message”! It will add any input data to the request and make it accessible via the assigned name.

```
5  if (url === '/') {
6    res.write('<html>');
7    res.write('<head><title>Enter Message</title></head>');
8    res.write('<body><form action="/message" method="POST"><input type="text" name="message"><br/>');
9    res.write('</body>');
10   res.end();
11 }
12 res.setHeader('Content-Type', 'text/html');
13 res.write('<html>');
14 res.write('<head><title>My First Page</title></head>');
15 res.write('<body><h1>Hello from my Node.js Server!</h1></body>');
16 res.write('</html>');
17 res.end();
18 });
19
20 server.listen(3000);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node



0:04:08

0:01:40

009 Routing Requests

```
connection: 'keep-alive',
pragma: 'no-cache',
'cache-control': 'no-cache',
'upgrade-insecure-requests': '1',
'user-agent':
'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.10
6 Safari/537.36',
```



Ln 8, Col 93 (14 selected)

Spaces: 4 UTF-8 LF

JavaScript Prettier: ✓



Media Player EXPLORER

NODEJS-COMPLETE-GUIDE

.gitignore

app.js

```
const http = require('http');

const server = http.createServer((req, res) => {
  const url = req.url;
  if (url === '/') {
    res.write('<html>');
    res.write('<head><title>Enter Message</title></head>');
    res.write('<body><form action="/message" method="POST"><input type="text" name="message"><br/></form>');
    res.write('</html>');
    return res.end();
  }
  res.setHeader('Content-Type', 'text/html');
  res.write('<html>');
  res.write('<head><title>My First Page</title></head>');
  res.write('<body><h1>Hello from my Node.js Server!</h1></body>');
  res.write('</html>');
  res.end();
});
server.listen(3000);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node

```
connection: 'keep-alive',
pragma: 'no-cache',
'cache-control': 'no-cache',
'upgrade-insecure-requests': '1',
'user-agent':
'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.106 Safari/537.36',
```

OUTLINE

0:25 master* 0 0 0 01:23

Ln 10, Col 12 (10 selected) Spaces: 4 UTF-8 LF JavaScript Prettier: ✓ ☀️ 92°F Haze 12:56 PM 7/26/2023

Windows Search File Explorer Task View Taskbar Icons

NODEJS-COMPLETE-GUIDE

.gitignore

app.js

```
1 const http = require('http');
2
3 const server = http.createServer((req, res) => {
4   const url = req.url;
5   const method = req.method; ←
6   if (url === '/') {
7     res.write('<html>');
8     res.write('<head><title>Enter Message</title></head>');
9     res.write('<body><form action="/message" method="POST"><input type="text" name="message"><input type="submit" value="Submit"></form></body>');
10    res.write('</html>');
11    return res.end();
12  }
13  if (url === '/message' && method === 'POST') { ←
14    ...
15  }
16  res.setHeader('Content-Type', 'text/html');
17  res.write('<html>');
18  res.write('<head><title>My First Page</title></head>');
19  res.write('<body><h1>Hello from my Node.js Server!</h1></body>');
20  res.write('</html>');
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node



Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$ node app.js



Media Player EXPLORER

NODEJS-COMPLETE-GUIDE

- .gitignore
- app.js M
- message.txt U

```
3
4  const server = http.createServer((req, res) => {
5    const url = req.url;
6    const method = req.method;
7    if (url === '/') {
8      res.write('<html>');
9      res.write('<head><title>Enter Message</title></head>');
10     res.write('<body><form action="/message" method="POST"><input type="text" name="message"><br/></form></body>');
11     res.write('</html>');
12     return res.end();
13   }
14   if (url === '/message' && method === 'POST') {
15     fs.writeFileSync('message.txt', 'DUMMY');
16     res.statusCode = 302;
17     res.setHeader('Location', '/');
18     return [res.end()];
19   }
20   res.setHeader('Content-Type', 'text/html');
21   res.write('<html>');
22   res.write('<head><title>My First Page</title></head>');
23 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Maximilians-MBP:nodejs-complete-guide mschwarzmueller\$

0:03:08 OUTLINE 0:01:03

02-basics* 0 0 0

Ln 18, Col 12 Spaces: 2 UTF-8 LF JavaScript Prettier

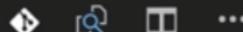
92°F Haze 1:07 PM 7/26/2023

Windows Taskbar icons: File Explorer, Search, Task View, File Manager, Google Chrome, Microsoft Edge, Mail, Calendar, File Explorer, Media Player.

Handwritten annotations: A blue arrow points from the word "require" in the code to the "require" keyword in the code editor. A blue star is placed near the line 18 code block.

EXPLORER

app.js



NODEJS-COMPLETE-GUIDE

.gitignore

app.js M

message.txt U

```
10 res.write('<body><form action="/message" method="POST"><input type="text" name="message"></form>');
11 res.write('</html>');
12 return res.end();
13 }
14 if (url === '/message' && method === 'POST') {
15   const body = [];
16   req.on('data', (chunk) => {
17     console.log(chunk);
18     body.push(chunk);
19   });
20   req.on('end', () => {
21     const parsedBody = Buffer.concat(body).toString();
22     const message = parsedBody.split('=')[1];
23     fs.writeFileSync('message.txt', message);
24   });
25   res.statusCode = 302;
26   res.setHeader('Location', '/');
27   return res.end();
28 }
29 res.setHeader('Content-Type', 'text/html');
30 res.end();
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node



```
Maximilians-MBP:nodejs-complete-guide mschwarzmueller$ node app.js
<Buffer 6d 65 73 73 61 67 65 3d 66 61 73 64 66 61 73 64 66>
message=fasdfasdf
^C
```

```
Maximilians-MBP:nodejs-complete-guide mschwarzmueller$ node app.js
<Buffer 6d 65 73 73 61 67 65 3d 48 65 6c 6c 6f 25 32 31>
```

0:10:59

0:00:13



Media Player

EXPLORER

app.js

NODEJS-COMPLETE-GUIDE

- .gitignore
- app.js M
- message.txt M

```
const body = [];
req.on('data', chunk => {
  console.log(chunk);
  body.push(chunk);
});
return req.on('end', () => {
  const parsedBody = Buffer.concat(body).toString();
  const message = parsedBody.split('=')[1];
  fs.writeFile('message.txt', message, err => {
    res.statusCode = 302;
    res.setHeader('Location', '/');
    return res.end();
  });
});
res.setHeader('Content-Type', 'text/html');
res.write('<html>');
res.write('<head><title>My First Page</title></head>');
res.write('<body><h1>Hello from my Node.js Server!</h1></body>');
res.write('</html>');

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: node

```
at IncomingMessage.emit (events.js:182:13)
at endReadableNT (_stream_readable.js:1085:12)
at process._tickCallback (internal/process/next_tick.js:63:19)
Maximilians-MBP:nodejs-complete-guide mschwarzmueller$ 
Maximilians-MBP:nodejs-complete-guide mschwarzmueller$ node app.js
<Buffer 6d 65 73 73 61 67 65 3d 48 65 6c 6f 2b 61 67 61 69 6e>
```