



# EXPRESS.JS 201

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# TRAJECTORY

- ◉ Handling URL params
- ◉ **app.use** and **next**
- ◉ Serving static resources

# URL PARAMETERS: REQ.PARAMS

- ◉ Gives us the ability to have **wildcard parameters** in our URLs
- ◉ Accessed as a property on the request (req) object
- ◉ The name(s) of the route parameter(s) is specified in the path as their respective keys

# REQ.PARAMS

## GET /USERS/1

# REQ.PARAMS

```
// GET /users/:id
app.get('/users/:id', (req, res, next) => {
  // `req.params` is an object
  // This params object contains any URL parameters we state in this route's path (e.g. `id`)
  const userId = req.params.id // Access its value just as any object property/key
  // We can then find the user associated with that `id` and send that user as the response
})
```

# APP.USE AND NEXT



```
const express = require('express')

const app = express()

app.get('/', (req, res, next) => {
  res.send(`<h1>Welcome to the Homepage</h1>`)
})

app.get('/users', (req, res, next) => {
  res.send(`<h1>All of our users!</h1>`)
})

app.listen(3000, () => {
  console.log('Listening on http://localhost:3000/')
})
```

## YOUR EXPRESS APP

```
app.get('/')
```

```
app.get('/users')
```

**GET /users HTTP  
/1.1**

HTTP/1.1 200 OK  
Date: Wed, 03 Jan 2018 17:29:52 GMT  
Connection: keep-alive  
Transfer-Encoding: chunked

*"Are you a handler for GET /users?"*

<h1>All of our users!</h1>



```
app.get('*', (req, res, next) => {  
  console.log(req.method, req.url)  
})
```

```
app.get('/', (req, res, next) => {  
  res.send(`<h1>Welcome to the Homepage</h1>`)  
})
```

```
app.get('/users', (req, res, next) => {  
  res.send(`<h1>All of our users!</h1>`)  
})
```

## YOUR EXPRESS APP

```
app.get('*')
```

```
app.get('/')
```

```
app.get('/users')
```

**GET /users HTTP  
/1.1**



*"Are you a handler for GET /users"?*

*"I'm a handler for everything! I'll log something to the console and..."*

*"....."*



```
app.get('*', (req, res, next) => {  
  console.log(req.method, req.url)  
  next()  
})
```

```
app.get('/', (req, res, next) => {  
  res.send('<h1>Welcome to the Homepage</h1>')  
})
```

```
app.get('/users', (req, res, next) => {  
  res.send('<h1>All of our users!</h1>')  
})
```

## YOUR EXPRESS APP

```
app.get('*')
```

```
app.get('/')
```

```
app.get('/users')
```

**GET /users HTTP  
/1.1**



HTTP/1.1 200 OK  
Date: Wed, 03 Jan 2018 17:29:52 GMT  
Content-Length: 24  
Transfer-Encoding: chunked  
...now I'm ready for you to go the next  
matching route

<h1>All of our users!</h1>



```
app.use('*', (req, res, next) => {  
  console.log(req.method, req.url)  
  next()  
})  
  
app.get('/', (req, res, next) => {  
  res.send('<h1>Welcome to the Homepage</h1>')  
})  
  
app.get('/users', (req, res, next) => {  
  res.send('<h1>All of our users!</h1>')  
})
```



# APP.GET

- ◉ Only for **GET** requests
- ◉ Exact match of verb and URL

# APP.USE

- ◉ Handles all verbs
- ◉ Fuzzy match of URL (we'll explore this more later)



# EXPRESS MIDDLEWARE

*A function that handles responding to requests.*

*Of the form: **function(req, res, next){...}***



# EXPRESS MIDDLEWARE

```
app.use((req, res, next) => {  
  console.log(req.method, req.url)  
  next()  
})
```



# MORGAN

## LOGGING MIDDLEWARE MADE EASY

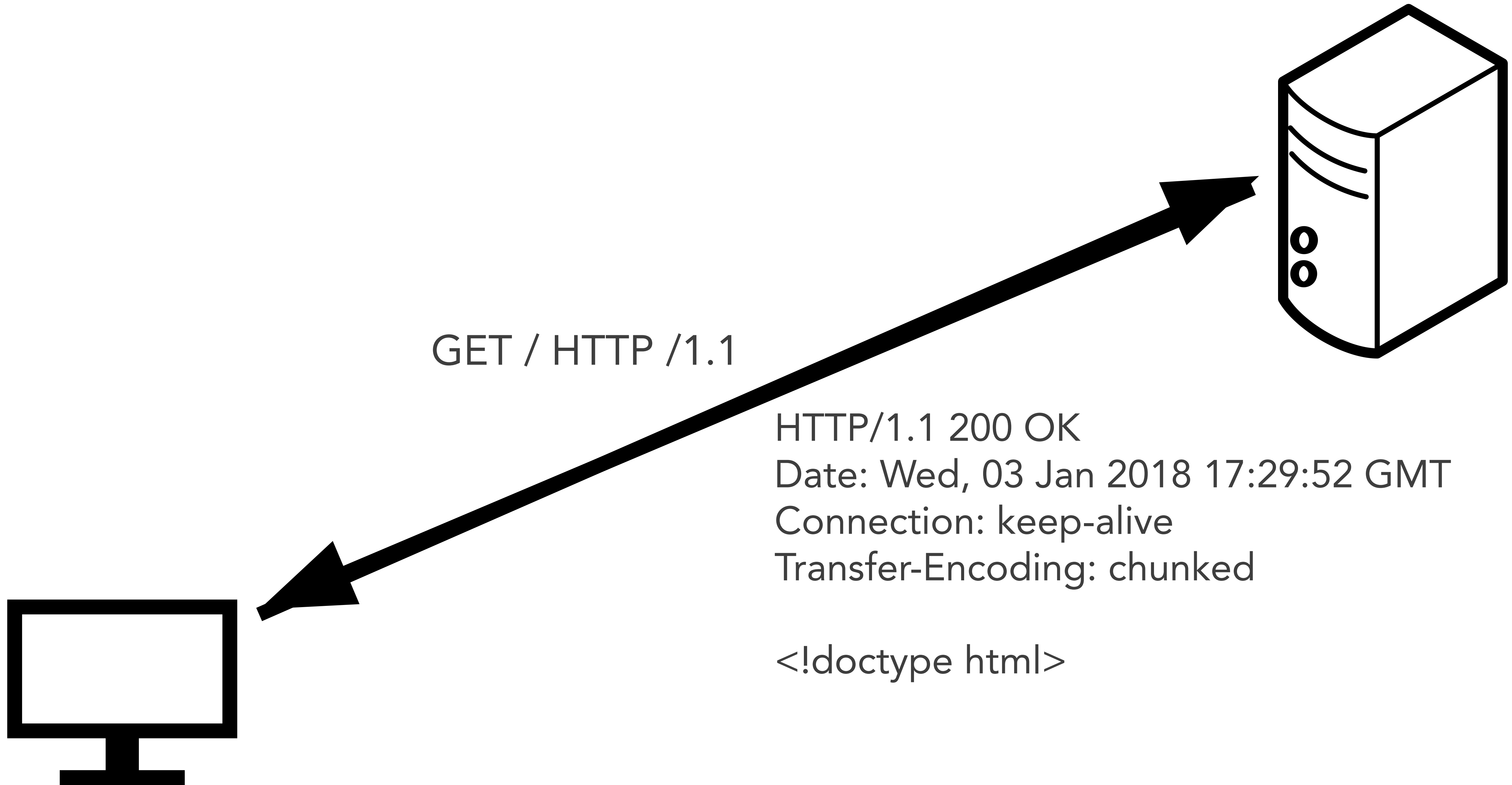
```
const morgan = require('morgan')

app.use(morgan('dev'))
// 'dev' – Concise output colored by response status for development
// use. The :status token will be colored green for success codes, red
// for server error codes, yellow for client error codes, cyan for
// redirection codes, and uncolored for information codes.
```

# EXPRESS.STATIC



```
/server
  app.js
/public
  styleA.css
  styleB.css
  clientSideScript.js
```



<!doctype html>

<head>

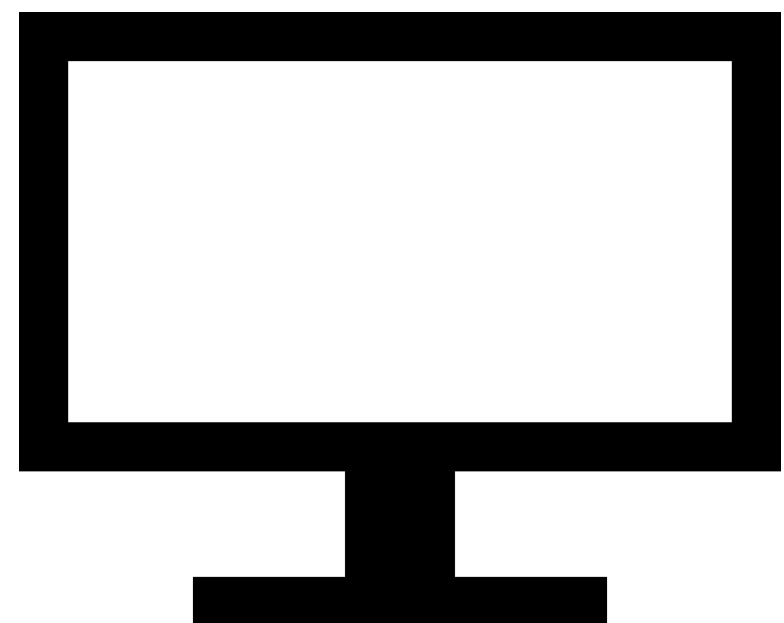
<link rel="stylesheet" href="/style.css" />

</head>

<body>

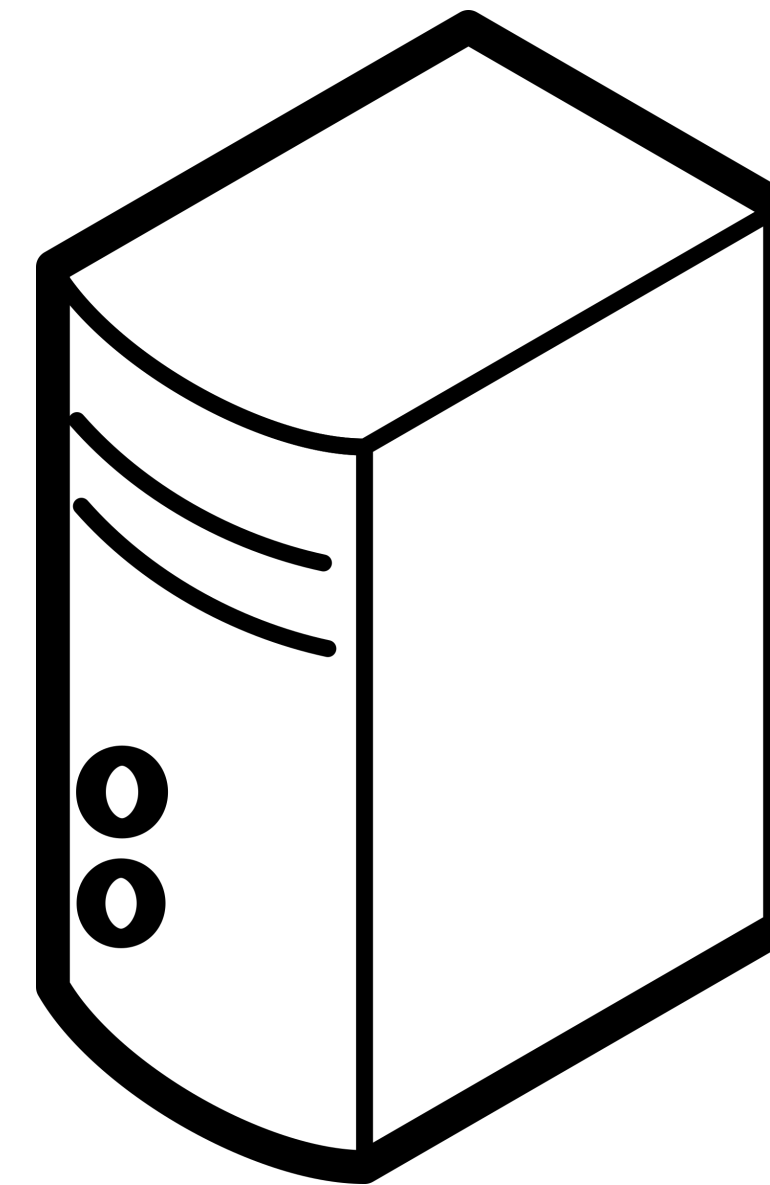
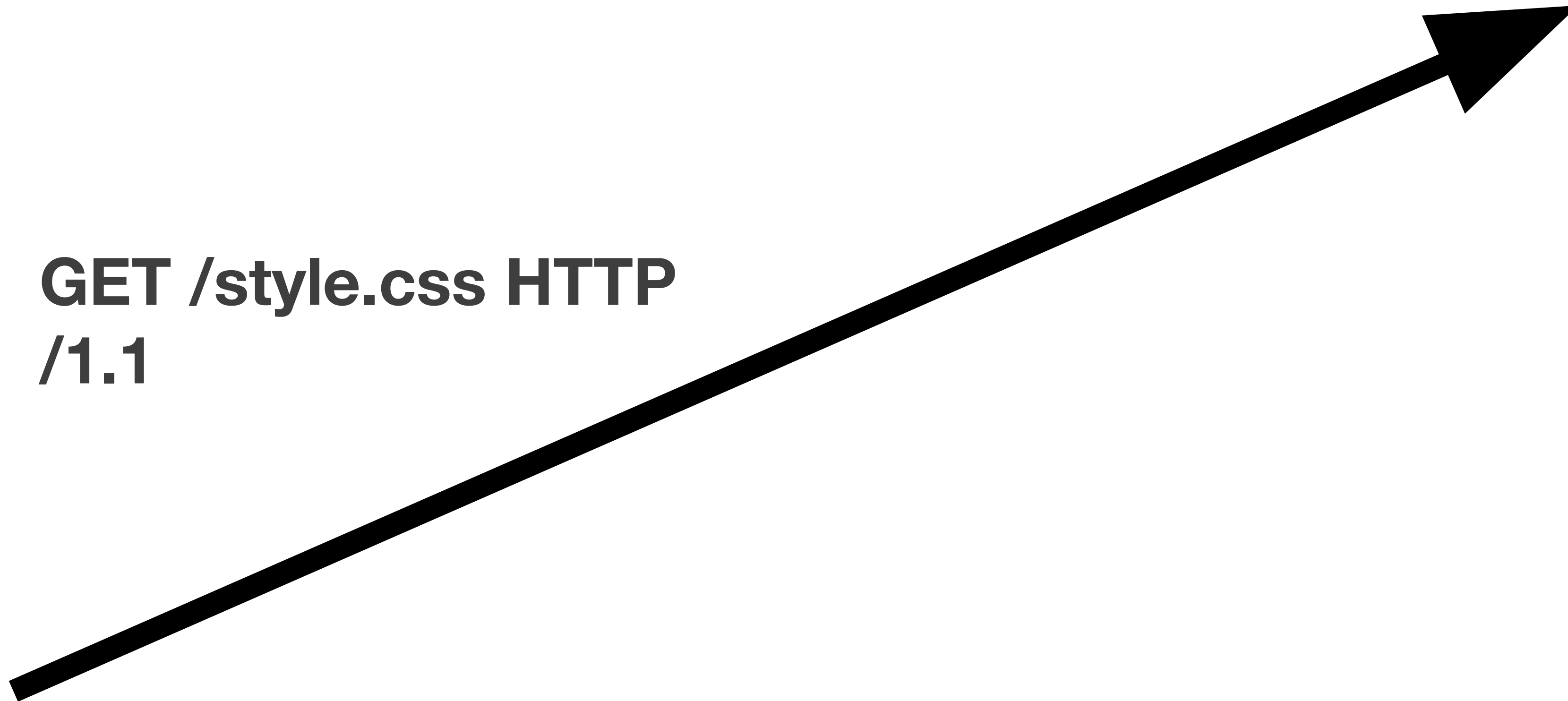
</body>

</html>





**GET /style.css HTTP  
/1.1**



```
app.get('/style.css', (req, res, next) => {  
  res.sendFile(path.join(__dirname, 'public', 'style.css'))  
})
```



```
app.get('/styleA.css')  
  res.sendFile(  
  })
```

```
app.get('/styleB.css')  
  res.sendFile(  
  })
```

```
app.get('/clientSideScript.js')  
  res.sendFile(  
  })
```

```
styleA.css'))
```

```
styleB.css'))
```

```
⇒ {  
  clientSideScript.js'))
```



```
const staticMiddleware = express.static(path.join(__dirname, 'public'))  
app.use(staticMiddleware)
```