

EXPRESS 201

TRAJECTORY

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

URL PARAMETERS

REQ.PARAMS

GET /PUPPIES/1

```
app.get('/puppies/:puppyId', (req, res, next) => {
  console.log(req.params.puppyId)
  // use req.params.puppyId to find the puppy with the requested id
  // and then send that puppy 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 main page</h1>`)
})

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

app.listen(3000)
```

YOUR EXPRESS APP

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

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

GET /puppies HTTP/1.1



<h1>Welcome to the puppies page!</h1>

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

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

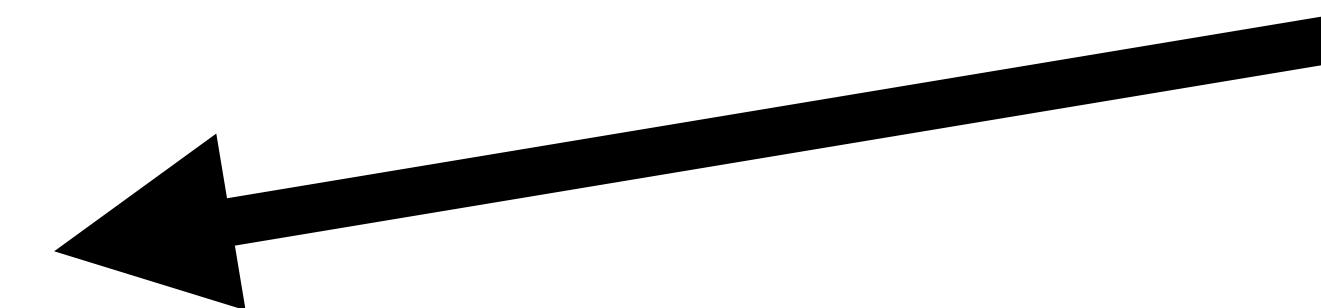
```
app.get('/puppies', (req, res, next) => {
  res.send(`<h1>Welcome to the puppies page</h1>`)
})
```

YOUR EXPRESS APP

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

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

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



GET /puppies HTTP/1.1

“Are you a handler for GET /puppies?”

“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 main page</h1>`)
})
```

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

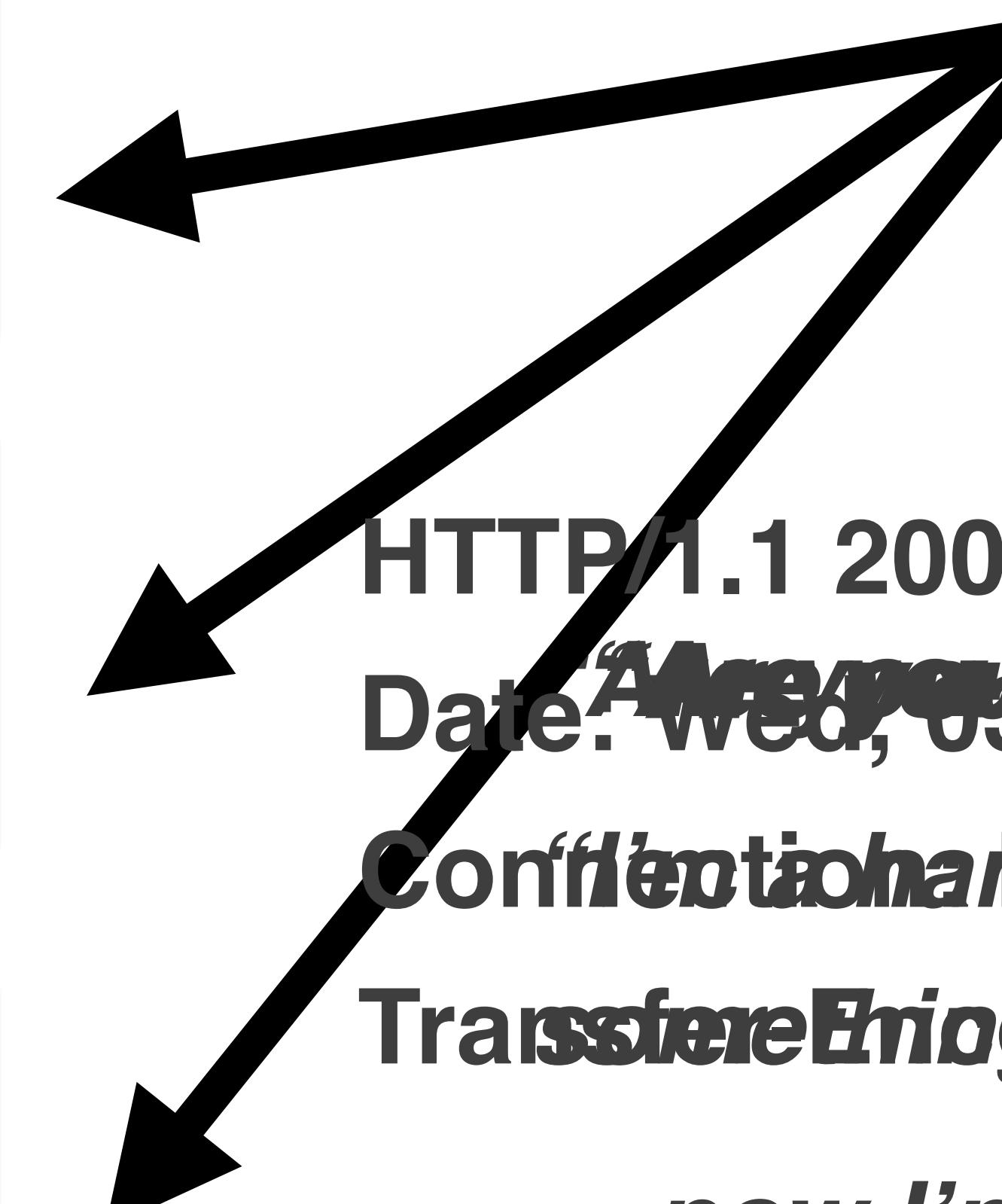
YOUR EXPRESS APP

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

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

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

GET /puppies HTTP/1.1



HTTP/1.1 200 OK

Date: Wed, 05 Jan 2016 17:29:52 GMT

Content-Type: application/json; charset=UTF-8

Transfer-Encoding: chunked

...now I'm ready for you to go the next

<h1>Welcome to the puppies page!</h1>

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

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

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

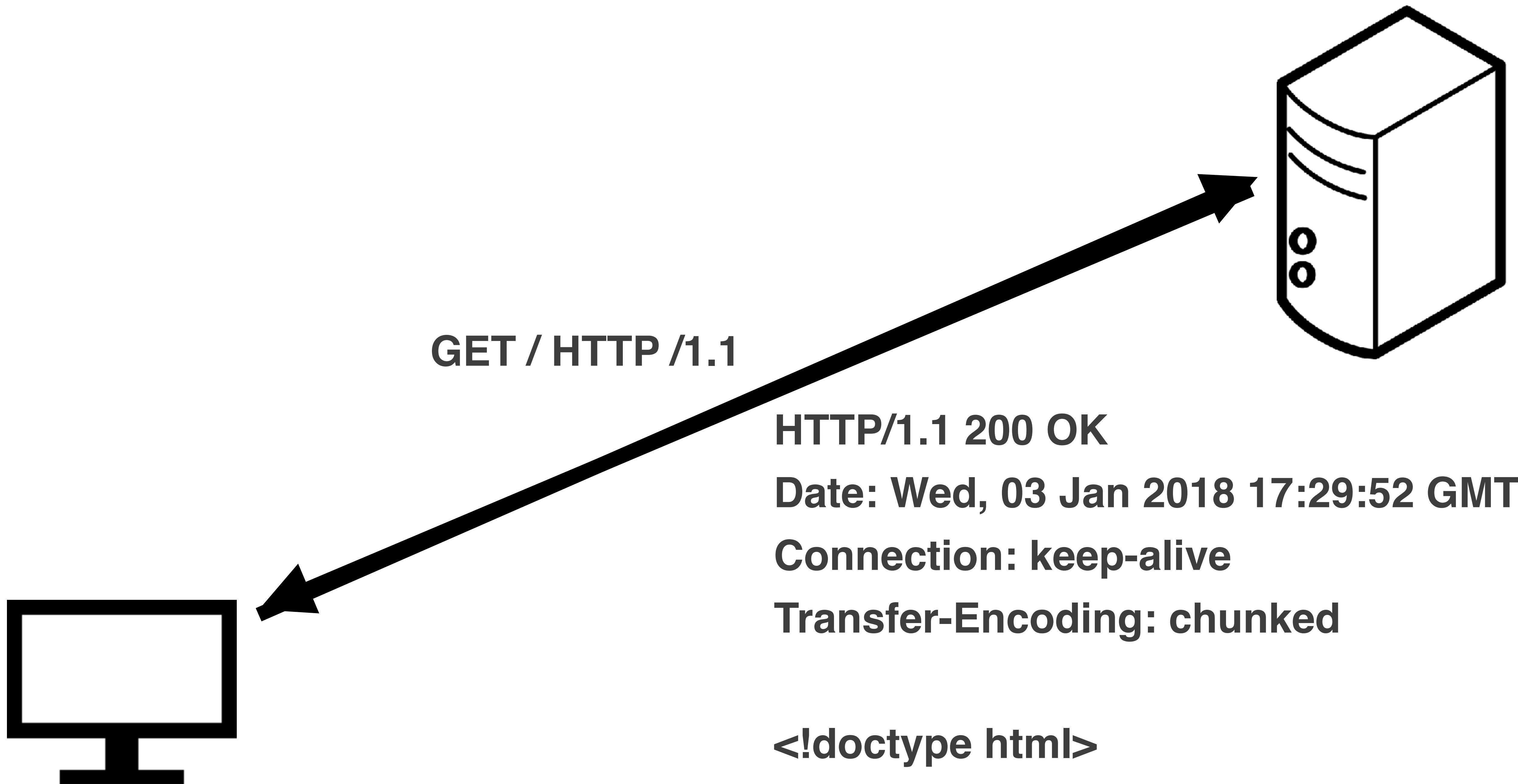
A function that handles responding to requests.

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

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


EXPRESS STATIC

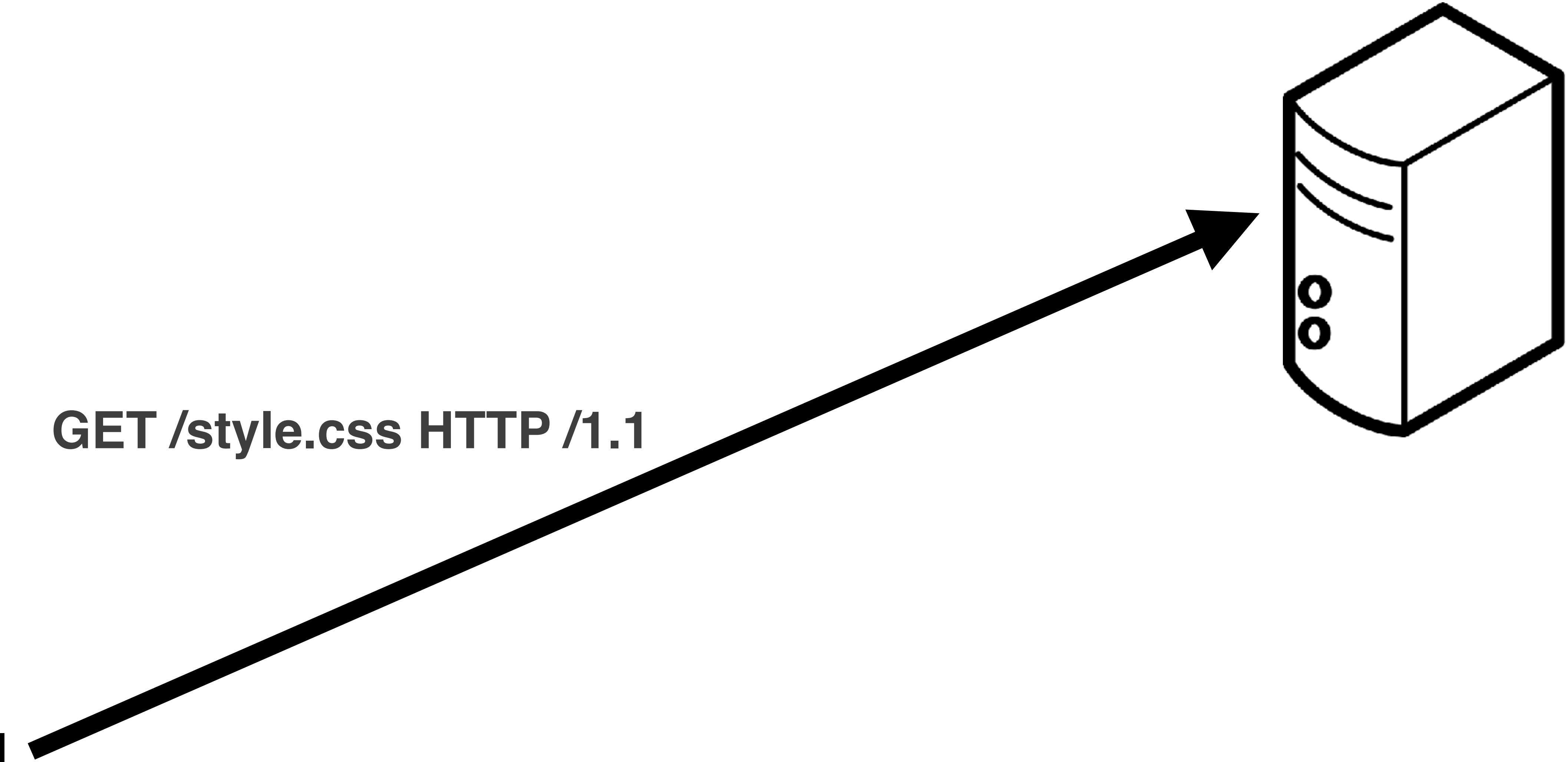
```
/server
  app.js
/public
  styleA.css
  styleB.css
  clientSideScript.js
```





```
<!doctype html>
<head>
  <link rel="stylesheet" href="/style.css" />
</head>
<body>
</body>
</html>
```

GET /style.css HTTP /1.1

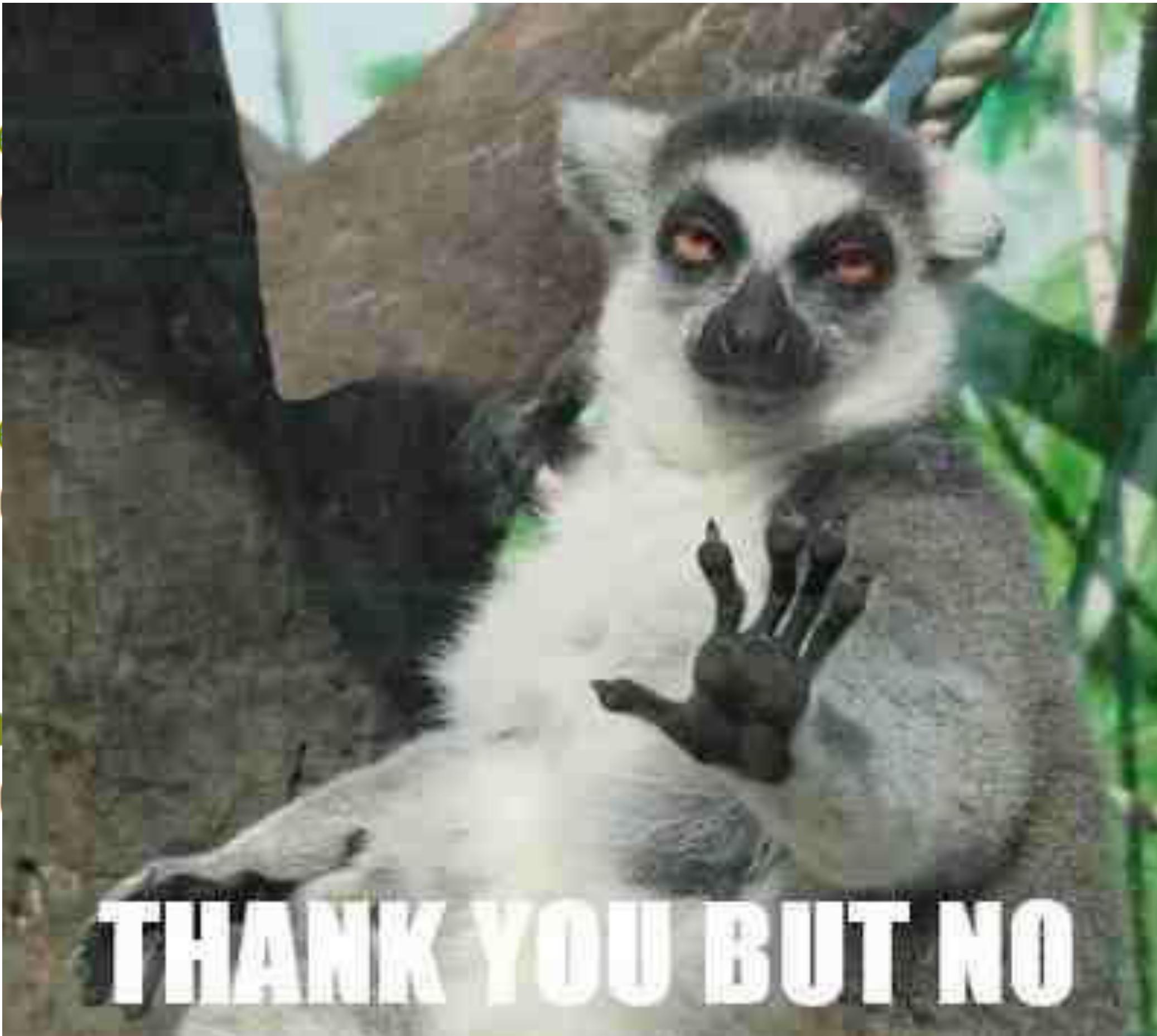


```
app.get('/style.css', (req, res, next) => {
  res.sendFile(path.join(__dirname, 'public', 'style.css'))
})
```

```
app.get('/styleA')
  res.sendFile(path.join(__dirname, 'public/styleA.css'))
}

app.get('/styleB')
  res.sendFile(path.join(__dirname, 'public/styleB.css'))
}

app.get('/clientSideScript')
  res.sendFile(path.join(__dirname, 'public/clientSideScript.js'))
```

A photograph of a ring-tailed lemur sitting on a tree branch. A large, semi-transparent watermark is overlaid across the center of the image, containing the text "THANK YOU BUT NO" in a bold, sans-serif font.

⇒ {
 clientSideScript.js'}}

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