# EXPRESS 201

### TRAJECTORY

Handling URL params

App.use and next

Serving static resources

# URL PARAMETERS REQ.PARAMS

# GET /PUPPIES/1

```
app.get('/puppies/1', (req, res, next) \Rightarrow {
 // send puppy with id 1
app.get('/puppies/2', (req, res, next) \Rightarrow {
// send puppy with id 2
app.get('/puppies/3', (req, res, next) \Rightarrow {
 // send puppy with id 3
```



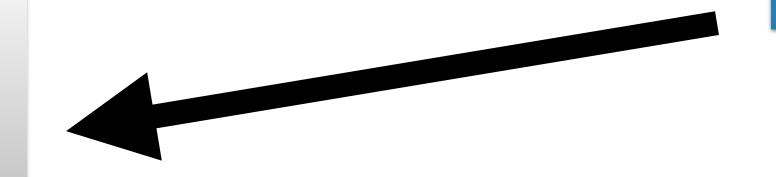
```
app.get('/puppies/:puppyId', (req, res, next) ⇒ {
  console.log(req.params.puppyId)
  // use req.params.puppyId to find the puppy with the requested id
  // and then send that puppy as the response!
})
```

# APP.USE AND NEXT

```
const express = require('express')
const app = express()
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the puppies page</h1>`)
})
app.listen(3000)
```

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

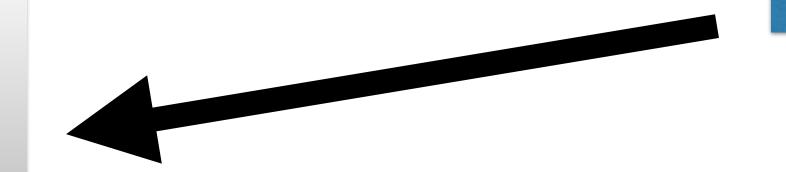
app.get('/')



app.get('/puppies')

GET /puppies HTTP /1.1





app.get('/puppies')

"Are you a handler for GET/puppies"?

GET /puppies HTTP /1.1

app.get('/puppies')

"Are you a handler for GET/puppies"?

GET /puppies HTTP /1.1



app.get('/puppies')



HTTP/1.1 200 OK

Date: Wed, 03 Jan 2018 17:29:52 GMT

Connection: keep-alive

Transfer-Encoding: chunked

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

```
app.get('*', (req, res, next) \Rightarrow {
  console.log(req.method, req.url)
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the puppies page</h1>`)
```

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

GET /puppies HTTP/1.1

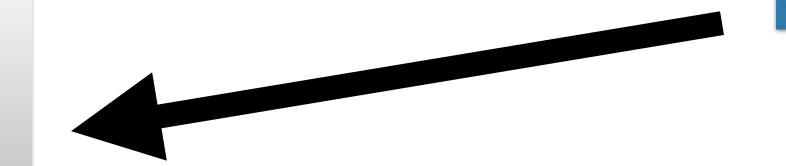
app.get('/')

app.get('\*')

app.get('/puppies')

GET /puppies HTTP /1.1



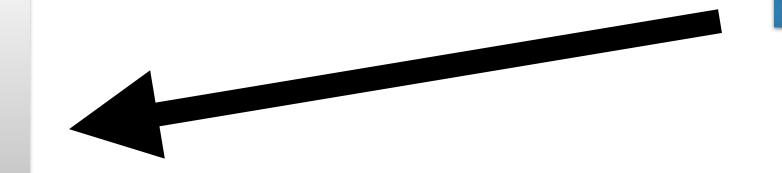


"Are you a handler for GET/puppies"?

app.get('/puppies')

GET /puppies HTTP /1.1





app.get('/')

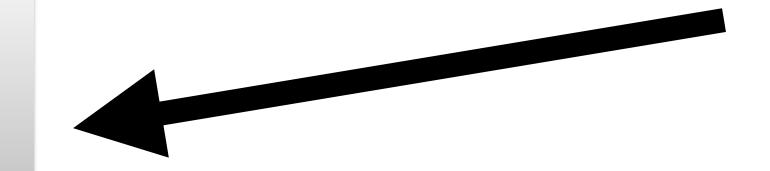
app.get('/puppies')

"Are you a handler for GET /puppies"?

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

GET /puppies HTTP /1.1





app.get('/')

app.get('/puppies')

"Are you a handler for GET /puppies"?

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

5

```
app.get('*', (req, res, next) \Rightarrow {
  console.log(req.method, req.url)
 next()
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the puppies page</h1>`)
```

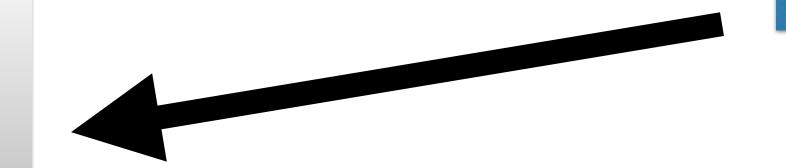
```
app.get('*')
```

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

app.get('/puppies')

GET /puppies HTTP /1.1



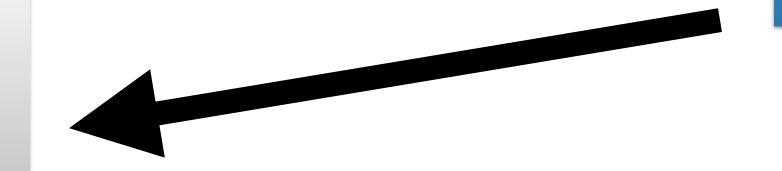


"Are you a handler for GET/puppies"?

app.get('/puppies')

GET /puppies HTTP /1.1





app.get('/')

app.get('/puppies')

"Are you a handler for GET /puppies"?

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

GET /puppies HTTP /1.1



app.get('/')

app.get('/puppies')

"Are you a handler for GET /puppies"?

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

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

app.get('\*')

app.get('/puppies')

GET /puppies HTTP /1.1

"Are you a handler for GET/puppies"?

app.get('\*')

app.get('/')

app.get('/puppies')

GET /puppies HTTP /1.1

"Are you a handler for GET /puppies"?

GET /puppies HTTP /1.1

HTTP/1.1 200 OK

Date: Wed, 03 Jan 2018 17:29:52 GMT

Connection: keep-alive

Transfer-Encoding: chunked

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

```
app.get('*', (req, res, next) \Rightarrow {
  console.log(req.method, req.url)
  next()
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the puppies page</h1>`)
```

```
app.use('*', (req, res, next) \Rightarrow {
 console.log(req.method, req.url)
  next()
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the puppies page</h1>`)
```

```
app.use((req, res, next) \Rightarrow {
console.log(req.method, req.url)
  next()
app.get('/', (req, res, next) \Rightarrow {
  res.send(`<h1>Welcome to the main page</h1>`)
app.get('/puppies', (req, res, next) \Rightarrow {
  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





#### EXPRESS MIDDLEWARE

A function that handles responding to requests.

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



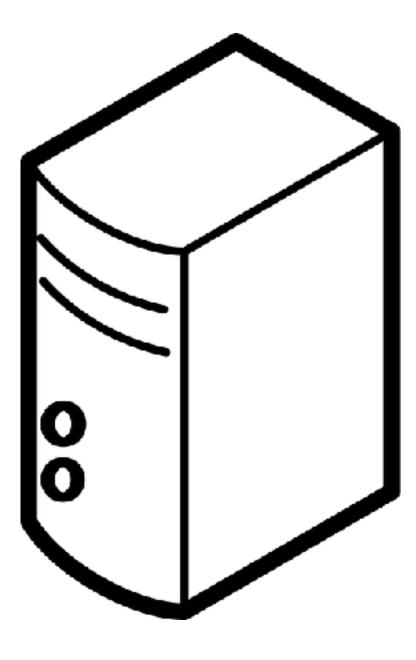
```
app.use((req, res, next) ⇒ {
  console.log(req.method, req.url)
  next()
})
```

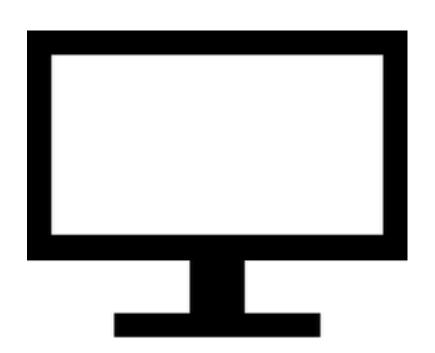


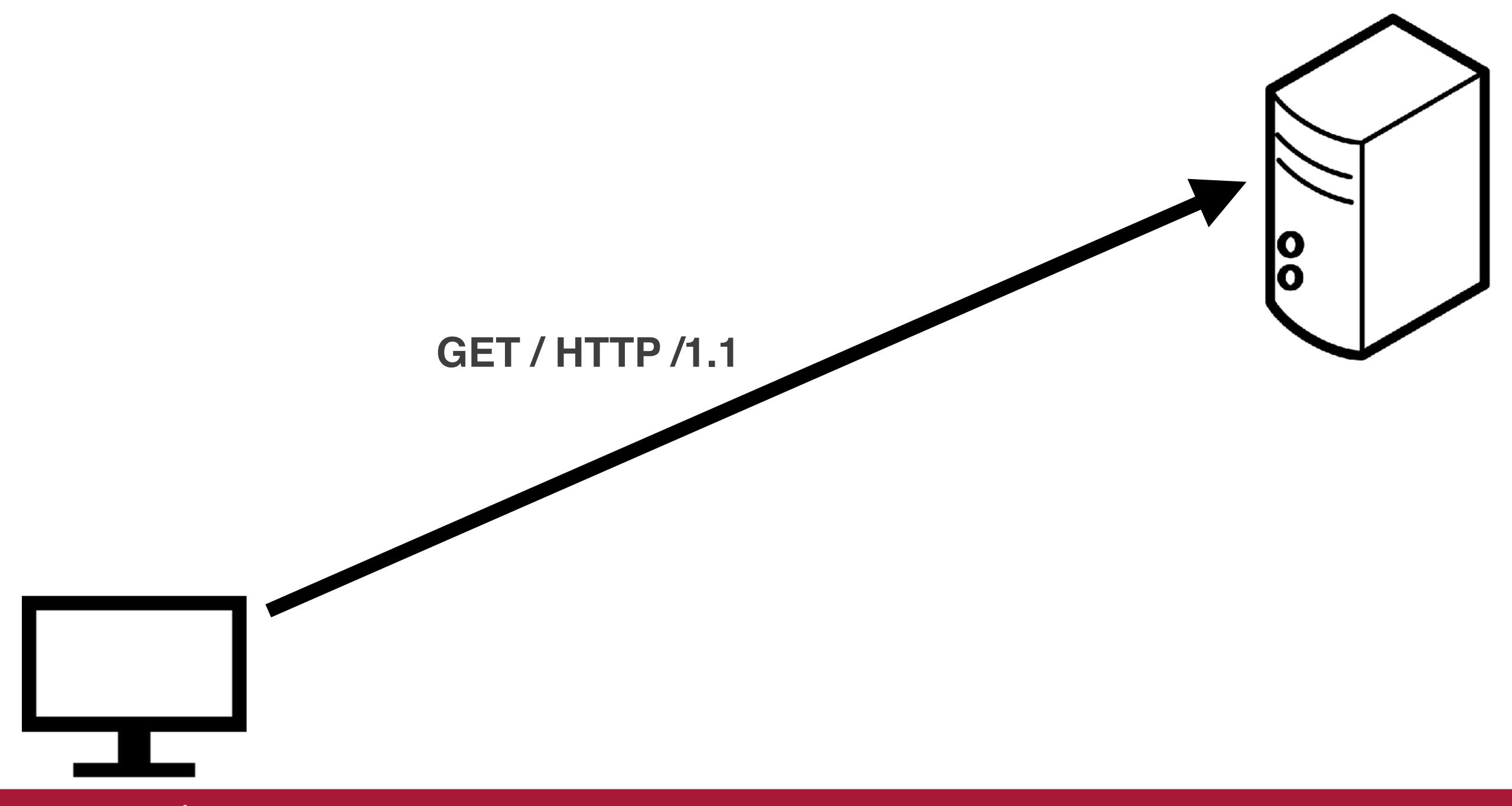
```
const morgan = require('morgan')
app.use(morgan('dev'))
```

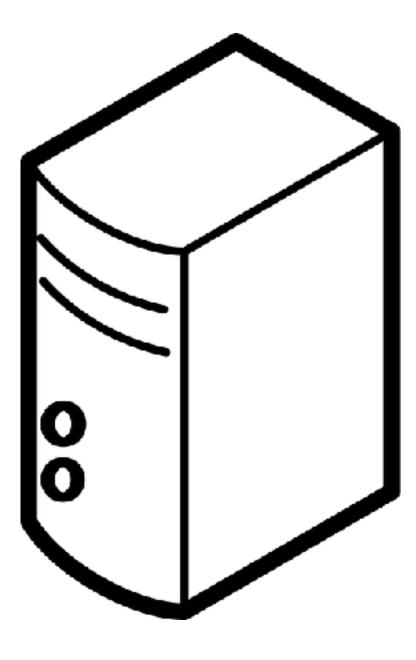
# EXPRESS.STATIC

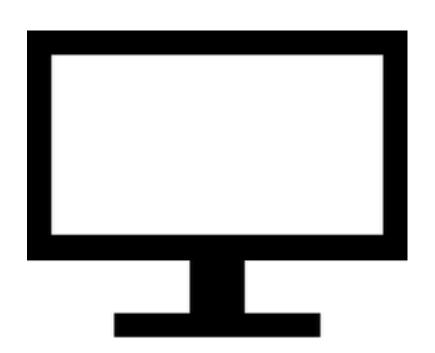
```
/server
  app.js
/public
  styleA.css
  styleB.css
  clientSideScript.js
```

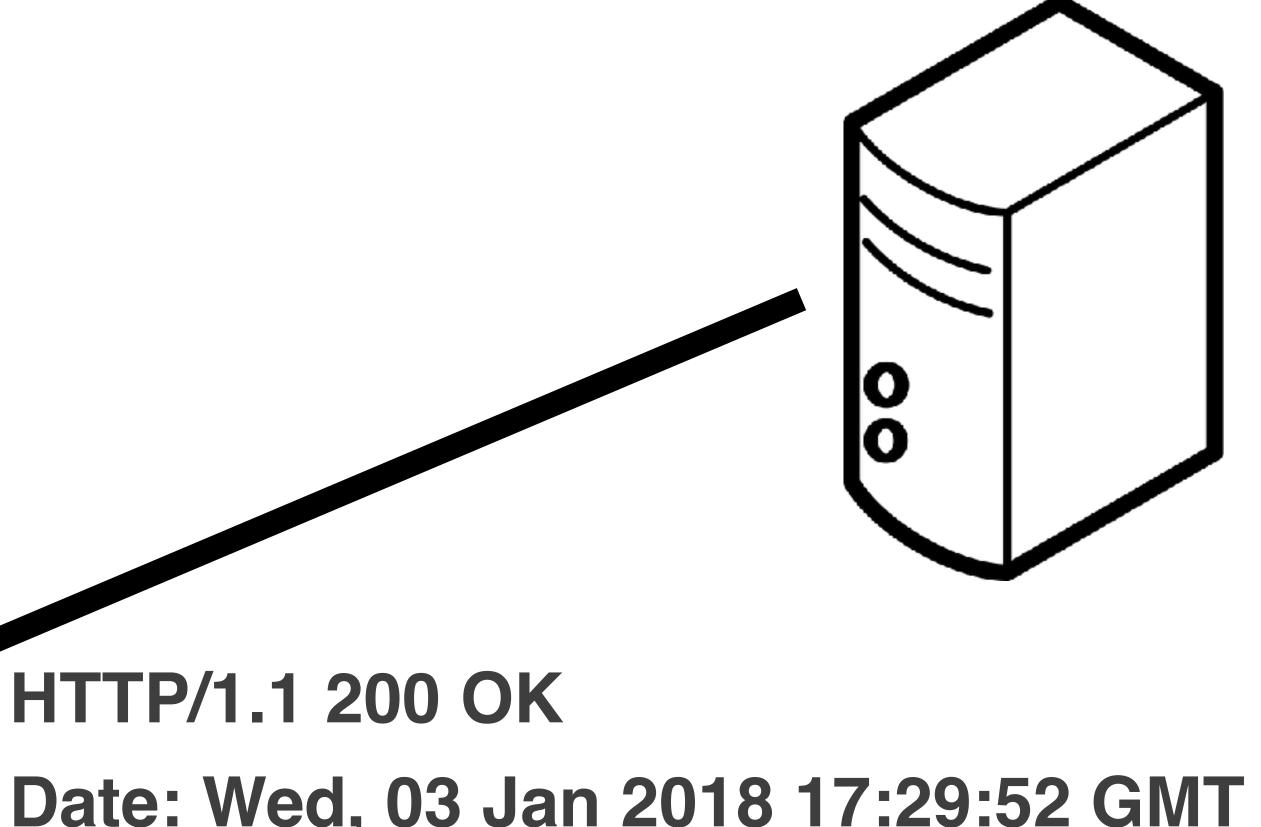












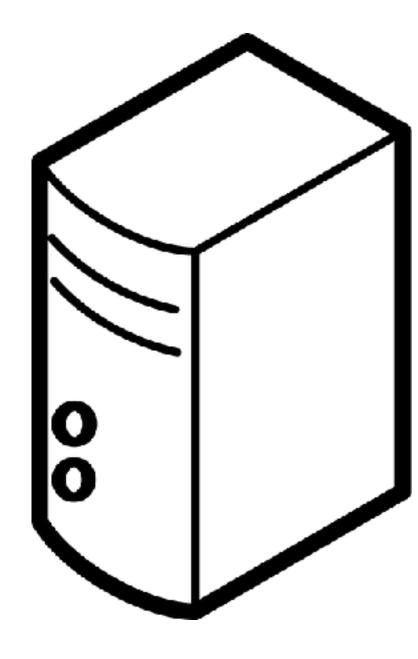
Date: Wed, 03 Jan 2018 17:29:52 GMT

Connection: keep-alive

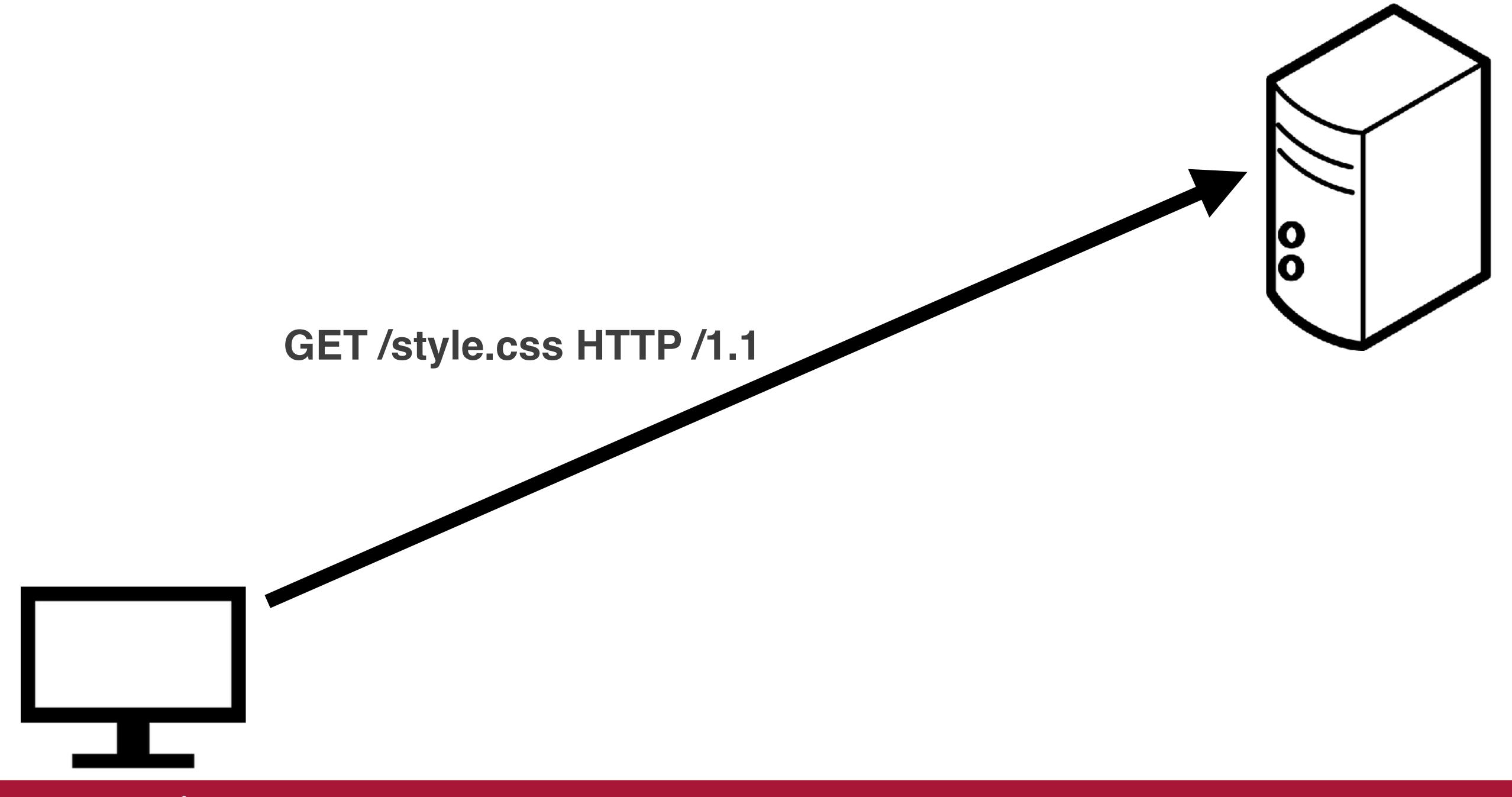
Transfer-Encoding: chunked

<!doctype html>





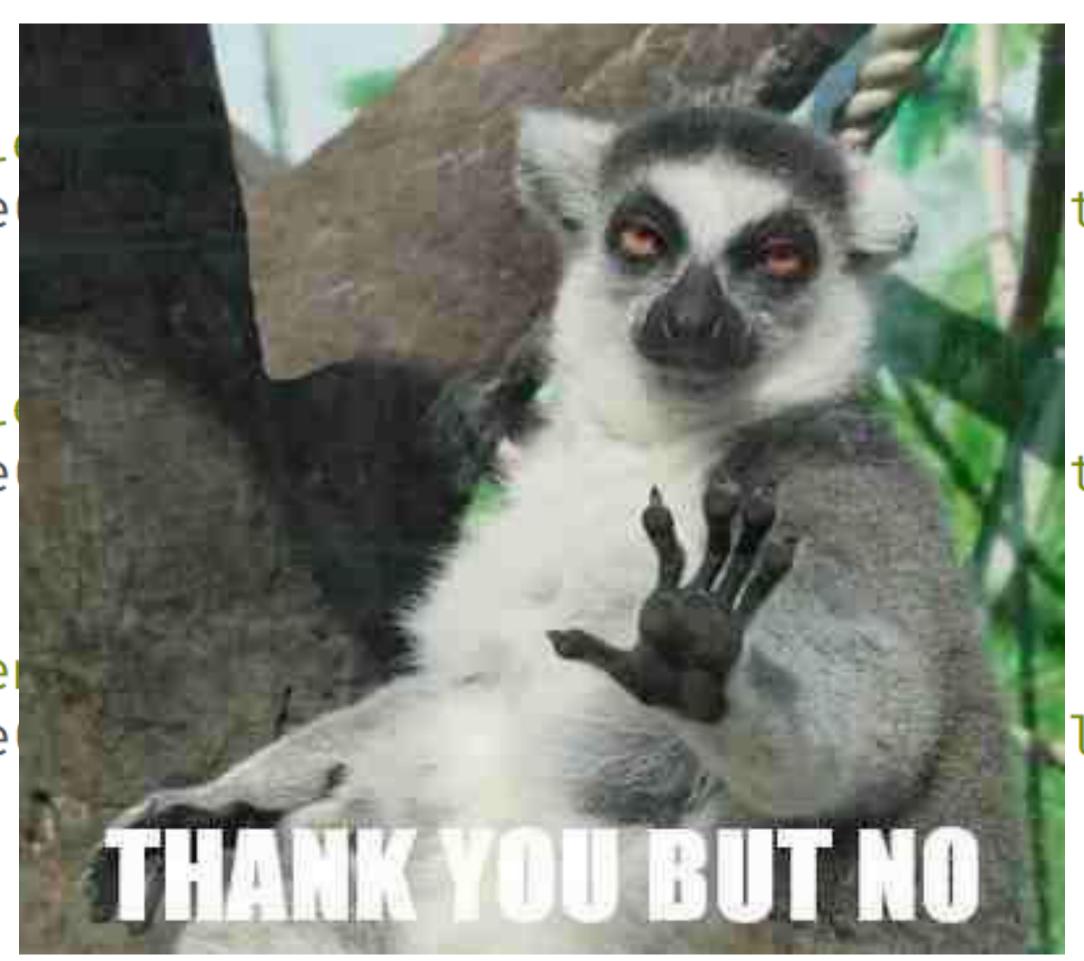




```
app.get('/style.css', (req, res, next) ⇒ {
  res.sendFile(path.join(__dirname, 'public', 'style.css'))
})
```

```
app.get('/styleA.css', (req, res, next) \Rightarrow {
  res.sendFile(path.join(__dirname, 'public', 'styleA.css'))
app.get('/styleB.css', (req, res, next) \Rightarrow {
  res.sendFile(path.join(__dirname, 'public', 'styleB.css'))
app.get('/clientSideScript.js', (req, res, next) \Rightarrow {
  res.sendFile(path.join(__dirname, 'public', 'clientSideScript.js'))
```

```
app.get('/style
  res.sendFile
app.get('/style
  res.sendFile
app.get('/clie
  res.sendFile
```



```
tyleA.css'))
```

```
tyleB.css'))
```

```
⇒ {
lientSideScript.js'))
```

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