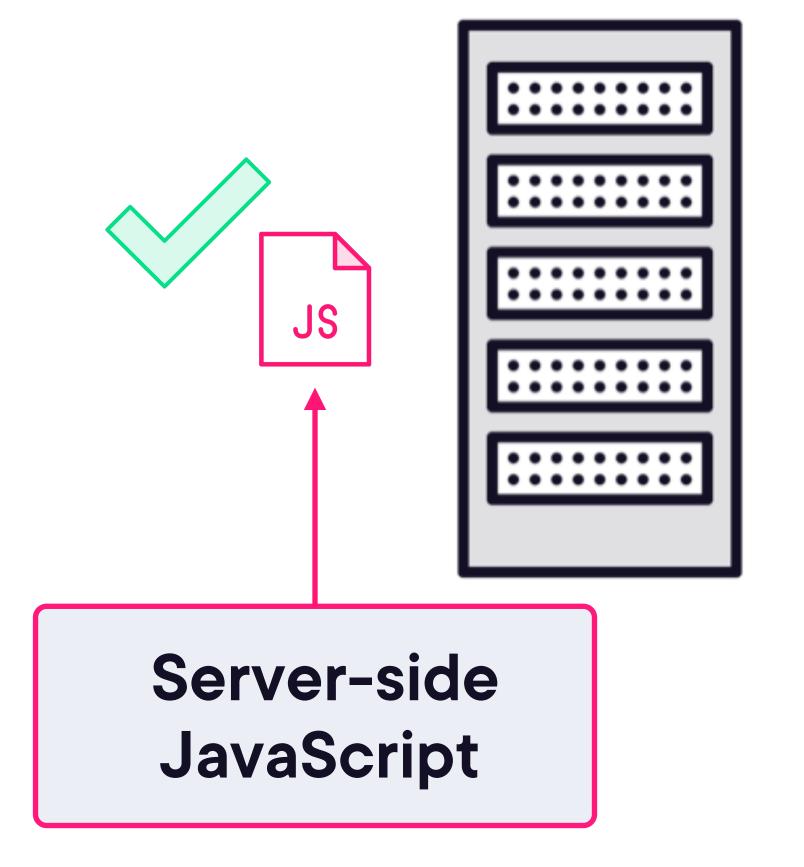
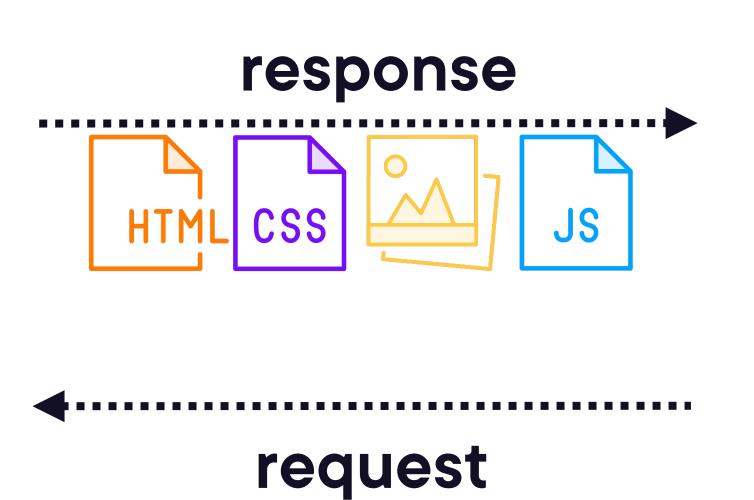
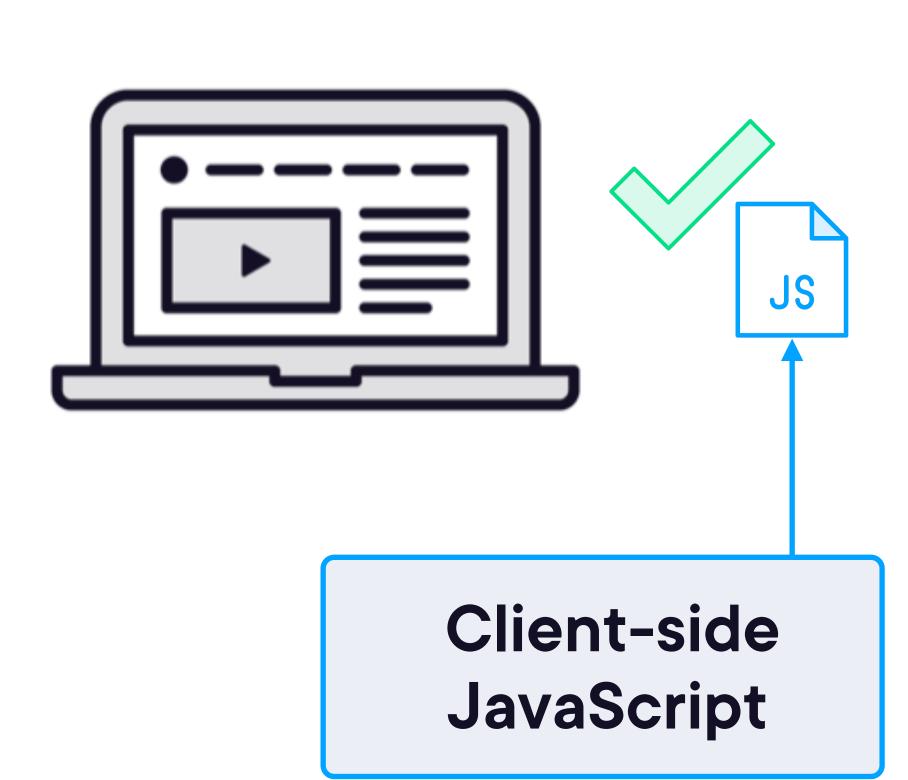
Server (running Node.js)





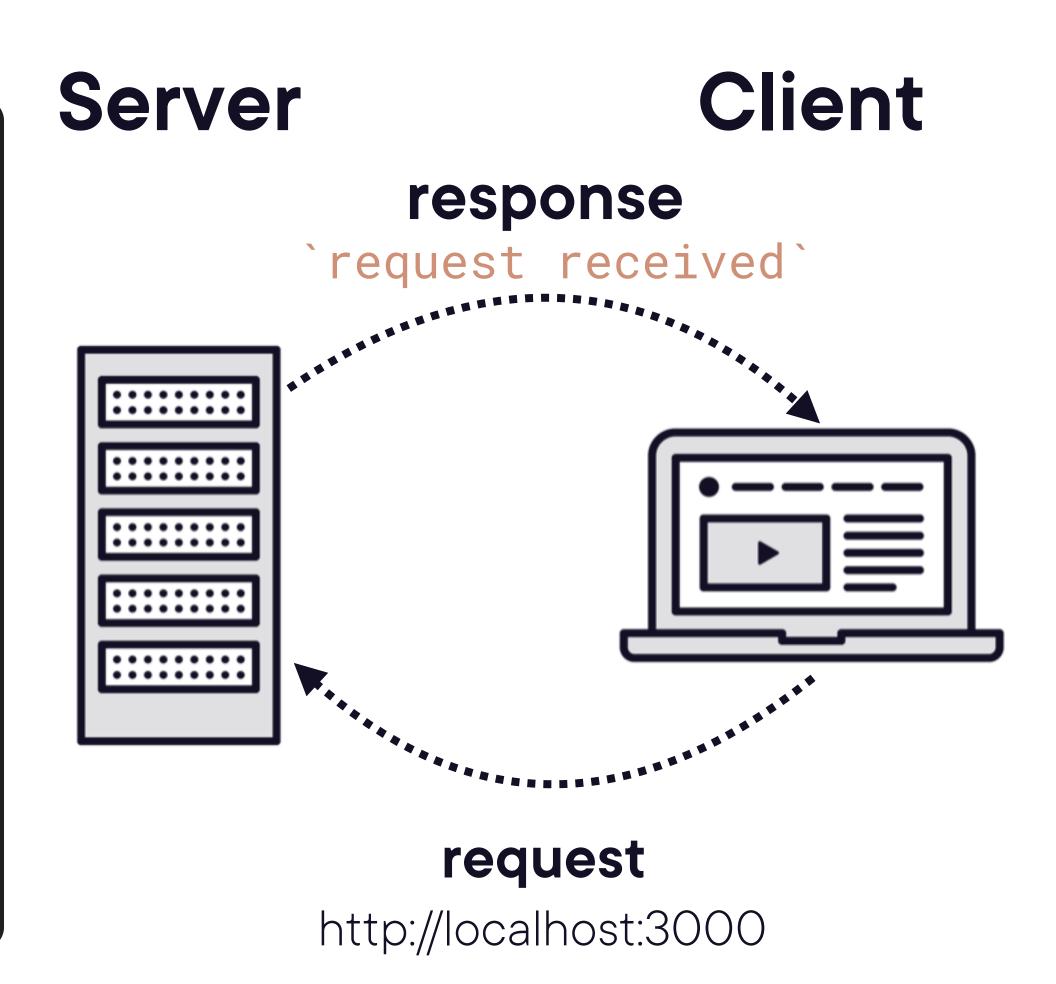
http://server/path



Client

A Simple Node Server

```
app.mjs
import { createServer } from 'node:http'
const server = createServer()
function requestCallback(request, response) {
  response.writeHead(200)
  response.end(`request received`)
server.on('request', requestCallback)
server.listen(3000)
```



Node.js Server Creation Pattern

Three main actions to create and use a server

Import some code and create a server object

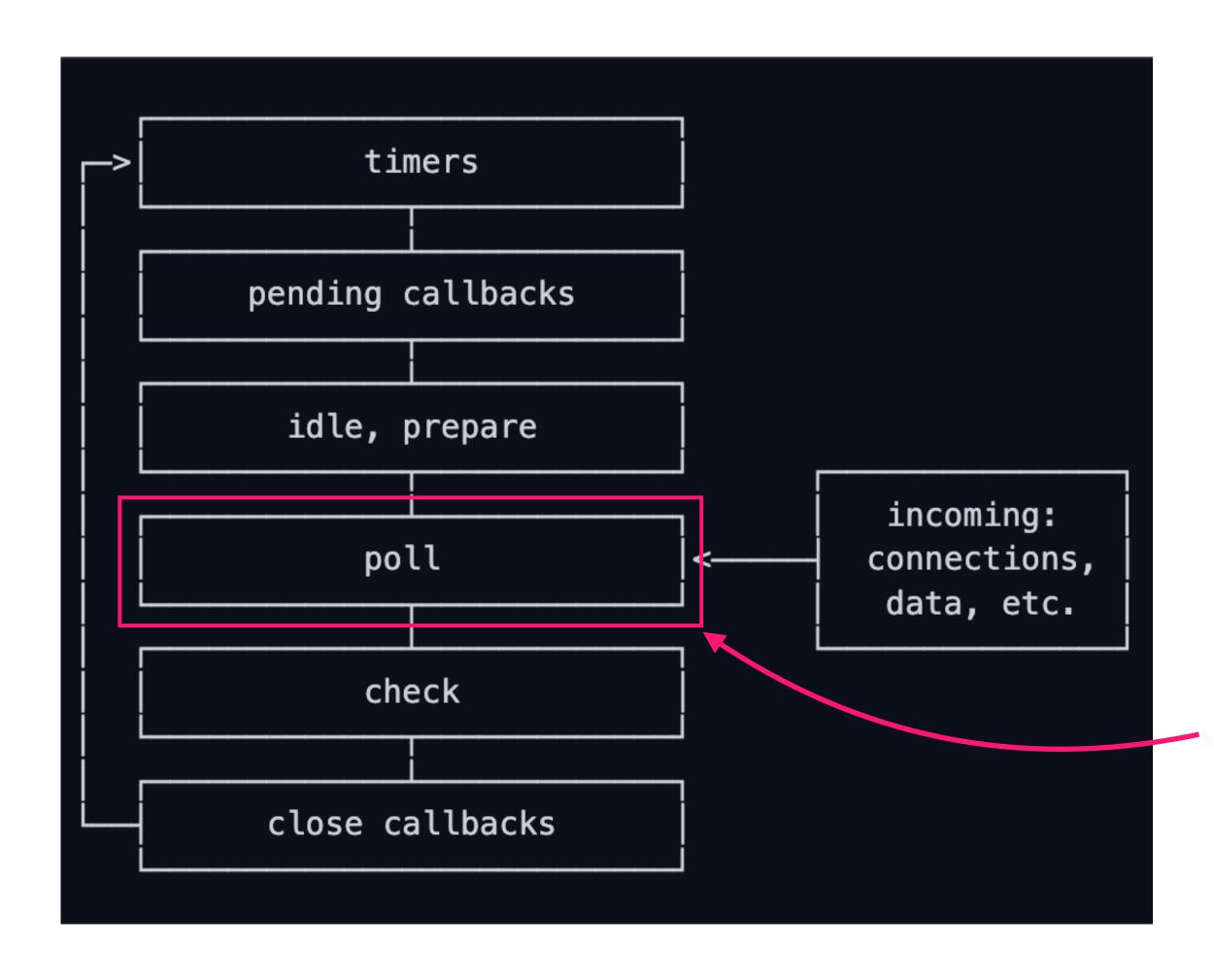
Listen for requests coming in to that server

Define callback functions that run when that request event happens

Node.js Event Loop

Node.js programs loop forever until they are stopped

Node.js Event Loop



server requests and client responses happen in this phase

app-express.mjs

```
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
server.listen(3000)
```

app-express.mjs

```
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
server.listen(3000)
```

server.listen(3000)

```
app-express.mjs
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
```

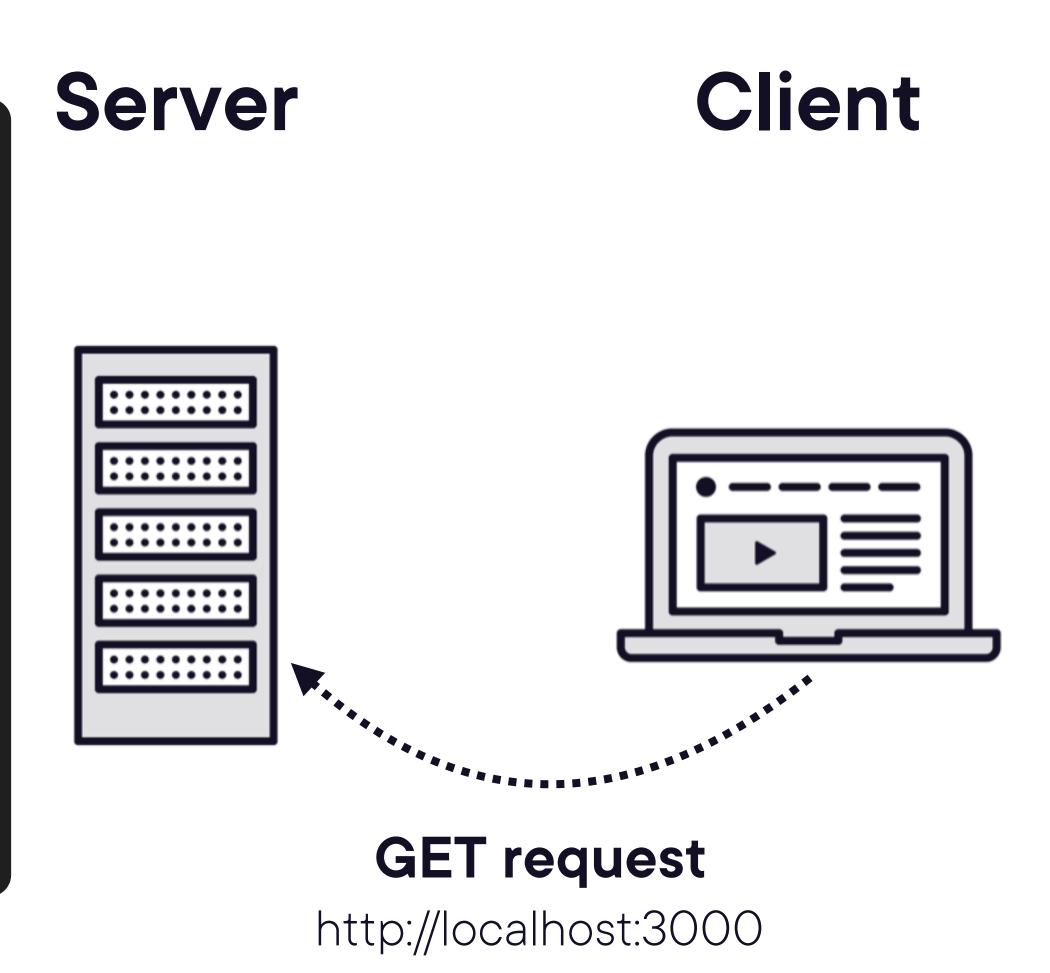
app-express.mjs

```
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
server.listen(3000)
```

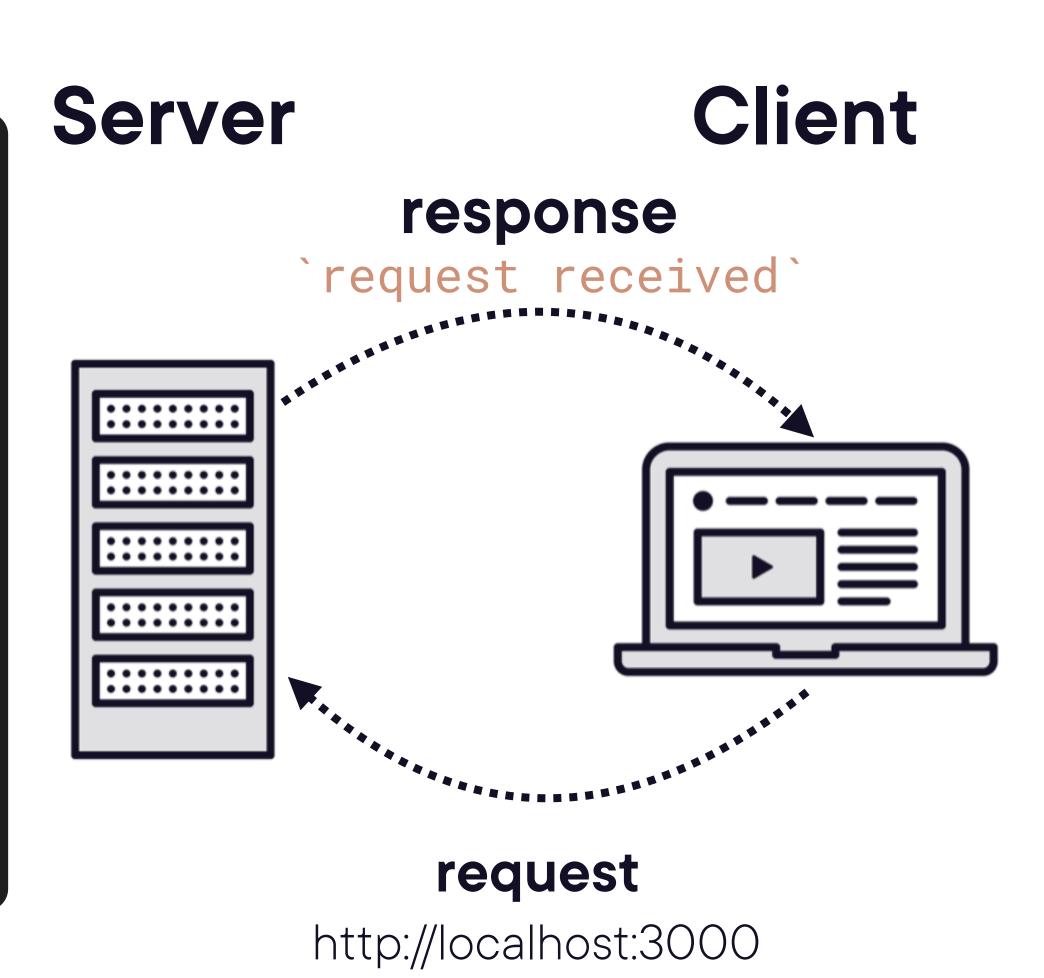
```
import overces
```

```
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
server.listen(3000)
```

```
app-express.mjs
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/
                requestCallback)
server.listen(3000)
```



```
app-express.mjs
import express from 'express'
const server = express()
function requestCallback(request, response) {
  response.status(200).send(`request received`)
server.get('/', requestCallback)
server.listen(3000)
```



HTTP Status Code 200



The request succeeded