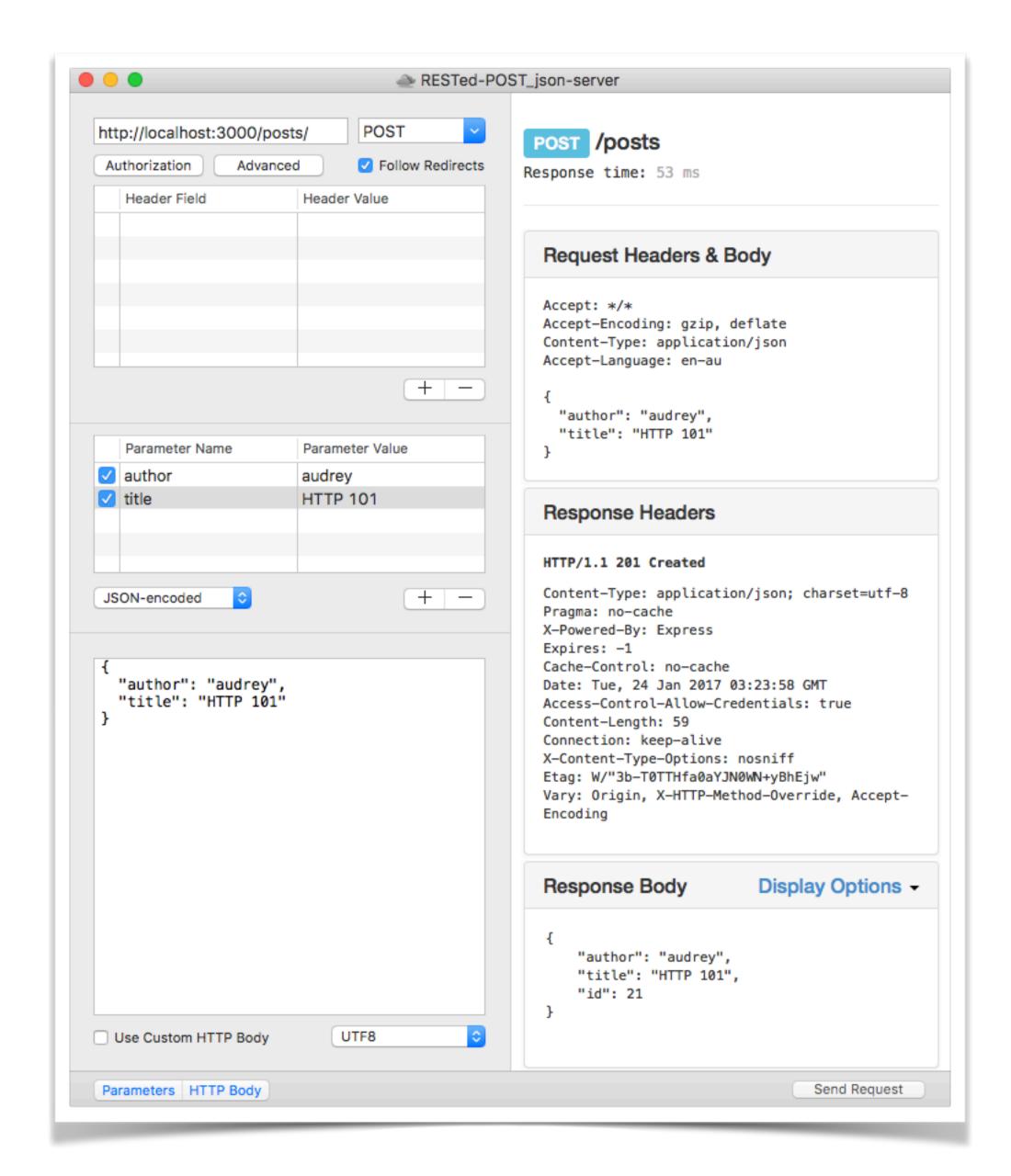
NETWORKING WITH URLSESSION



PART 2: HTTP 101







Uniform Resource Locator



- Uniform Resource Locator
- HyperText Transfer Protocol



- Uniform Resource Locator
- HyperText Transfer Protocol
 - POST: Create



- Uniform Resource Locator
- HyperText Transfer Protocol
 - **POST:** Create
 - ▶ GET: Read



- Uniform Resource Locator
- HyperText Transfer Protocol
 - **POST:** Create
 - ► GET: Read
 - PUT: Update



- Uniform Resource Locator
- HyperText Transfer Protocol
 - **POST:** Create
 - GET: Read
 - PUT: Update
 - ▶ DELETE: Delete



- Uniform Resource Locator
- HyperText Transfer Protocol
 - POST: Create
 - ▶ GET: Read
 - PUT: Update
 - ▶ DELETE: Delete
 - ► HEAD: GET headers only









```
Accept: */* Request Headers
```

```
Accept-Encoding: gzip, deflate
Content-Type: application/json
Accept-Language: en-au
```

```
Request Body
"author": "audrey",
"title": "HTTP 101"
}
```



```
Response Headers
HTTP/1.1 201 Created
Content-Type: application/json; charset=utf-8
Pragma: no-cache
X-Powered-By: Express
Expires: -1
Cache-Control: no-cache
Date: Tue, 24 Jan 2017 03:23:58 GMT
Access-Control-Allow-Credentials: true
Content-Length: 59
Connection: keep-alive
X-Content-Type-Options: nosniff
Etag: W/"3b-T0TTHfa0aYJN0WN+yBhEjw"
```

Vary: Origin, X-HTTP-Method-Override, Accept-Encoding

```
Response Body
"author": "audrey",
"title": "HTTP 101",
"id": 2
}
```

```
Accept: */* Request Headers
```

```
Accept-Encoding: gzip, deflate
Content-Type: application/json
Accept-Language: en-au
```

```
Request Body
"author": "audrey",
"title": "HTTP 101"
}
```

```
Response Headers
HTTP/1.1 201 Created
Content-Type: application/json; charset=utf-8
Pragma: no-cache
X-Powered-By: Express
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```

Vary: Origin, X-HTTP-Method-Override, Accept-Encoding

```
Response Body
"author": "audrey",
"title": "HTTP 101",
"id": 2
}
```

```
Accept: */* Request Headers
```

```
Accept-Encoding: gzip, deflate
Content-Type: application/json
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Etag: W/"3b-T0TTHfa0aYJN0WN+yBhEjw"
Vary: Origin, X-HTTP-Method-Override, Accept-Encoding
```

```
Response Body
"author": "audrey",
"title": "HTTP 101",
"id": 2
}
```

```
Accept: */*
Accept-Encoding: gzip, deflate
Content-Type: application/json
Accept-Language: en-au
```

```
Request Body
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```

Vary: Origin, X-HTTP-Method-Override, Accept-Encoding

```
Response Body
"author": "audrey",
"title": "HTTP 101",
"id": 2
}
```

```
Accept: */*
Accept-Encoding: gzip, deflate
Content-Type: application/json
Accept-Language: en-au
```

```
Request Body
"author": "audrey",
"title": "HTTP 101"
}
```



application/json



- application/json
- application/x-www-form-urlencoded



- application/json
- application/x-www-form-urlencoded
- > text/html



- application/json
- application/x-www-form-urlencoded
- text/html
- application/pdf

- application/json
- application/x-www-form-urlencoded
- text/html
- application/pdf
- image/png, image/jpeg, image/gif



- application/json
- application/x-www-form-urlencoded
- text/html
- application/pdf
- Image/png, image/jpeg, image/gif
- multipart/form-data



DEMO





No code changes needed!



- No code changes needed!
 - Negotiate with your web people



- No code changes needed!
 - Negotiate with your web people
- Multiplexing and concurrency



- No code changes needed!
 - Negotiate with your web people
- Multiplexing and concurrency
- Header compression

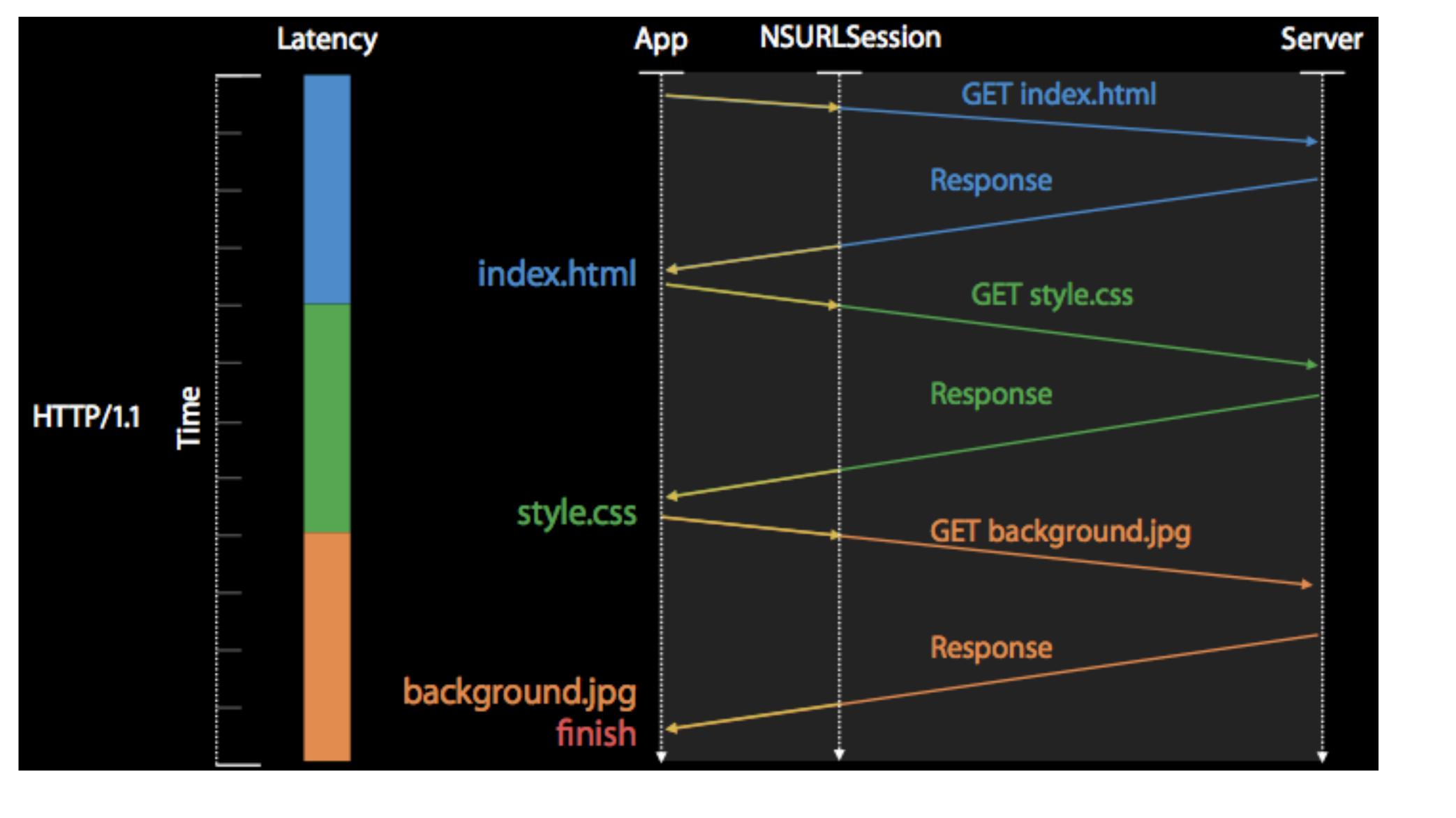


- No code changes needed!
 - Negotiate with your web people
- Multiplexing and concurrency
- Header compression
- Stream priorities

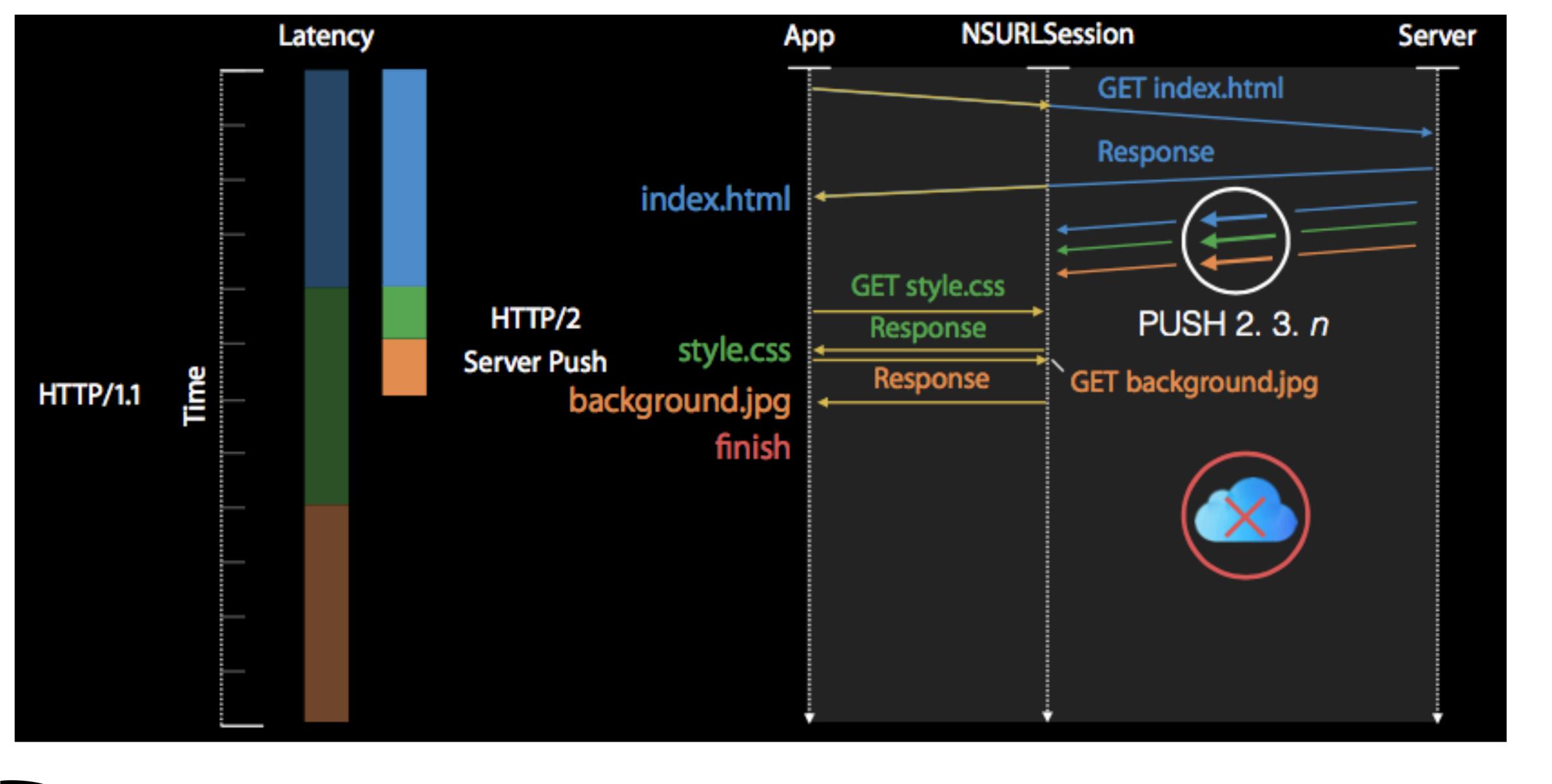


- No code changes needed!
 - Negotiate with your web people
- Multiplexing and concurrency
- Header compression
- Stream priorities
- Server push











CHALLENGE TIME!

