HTTP

HYPERTEXT TRANSFER PROTOCOL

API

APPLICATION PROGRAMMING INTERFACE

W2D1

Project One

Github Avatar Downloader

Objective

use **nodejs** to make
http requests to github.com

protocol

a set of **rules** governing the **exchange** of **data** between **devices**

KKJP

Knock knock.

Who's there?

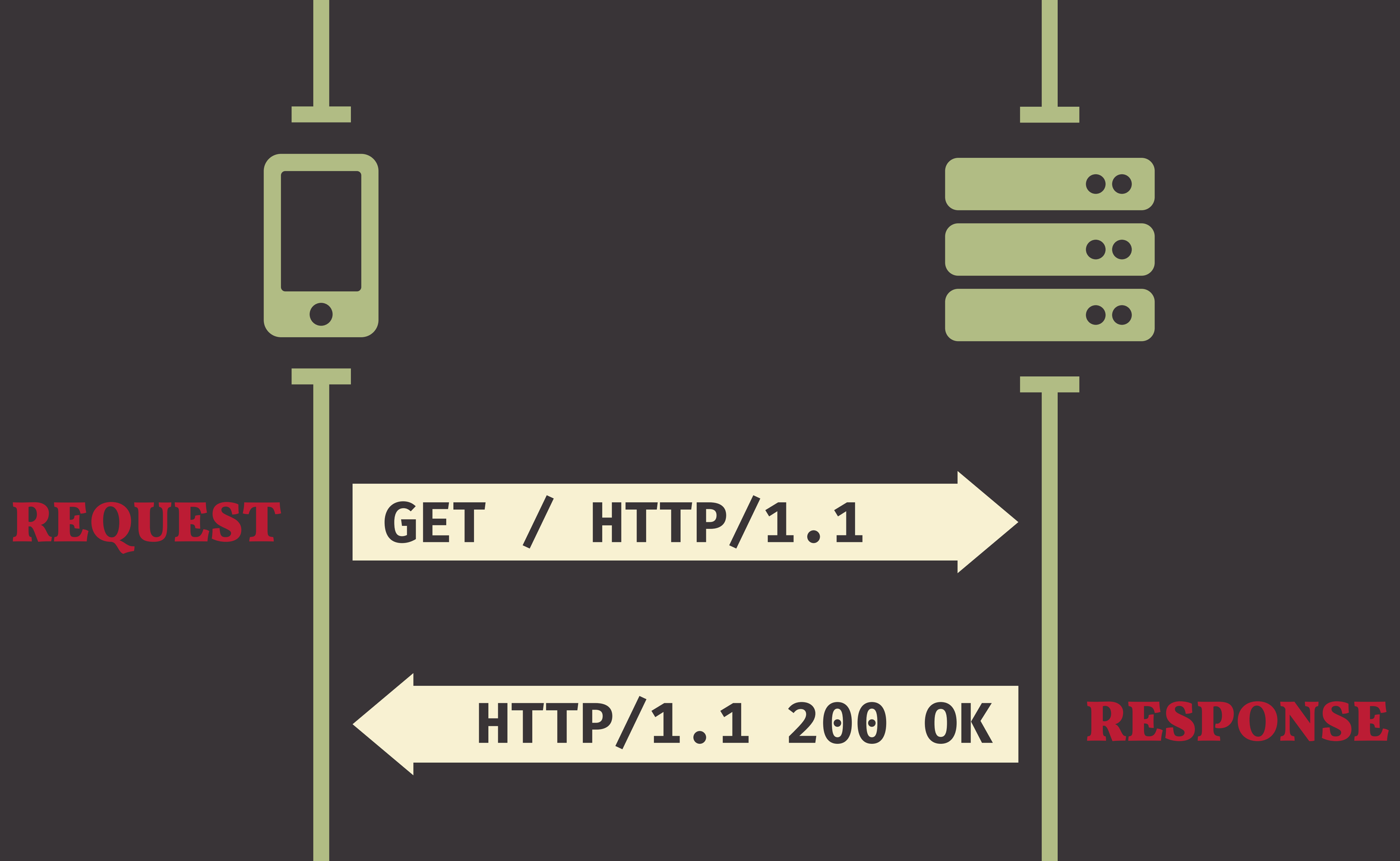
Orange.

Orange who?

Orange you going to let me in?

COMMON PROTOCOLS

FTP
POP3
IMAP
SMTP
...


REQUEST
GET / HTTP/1.1
HTTP/1.1 200 OK
RESPONSE

act one

THE CLIENT

an http request

1. request line
    1. **method**
    2. **path**
    3. version
2. headers
3. body

METHOD

	safe	body
GET	✔	✘
POST	✘	✔

METHOD

	safe	body
PUT	✗	✓
DELETE	✗	✗

PATH

✔ /path/to/document

✘ C:\path\to\document

/ is the **root** path

http request

```
GET / HTTP/1.1
Host: example.com
```

http request

act two

THE SERVER

an http response

http response

```
HTTP/1.1 200 OK
Content-Type: text/html
```

STATUS CODE/REASON PHRASE

200 OK
301 Moved Permanently
400 Bad Request
404 Not Found
500 Internal Server Error

more on this tomorrow

Questions?