#### HTTP refresher

- Build on top of TCP
- Text protocol
- Request / Response
- Header vs content
- GET/POST/UPDATE/DELETE (REST)
- 2xx, 3xx, 4xx, 5xx
- JSON/HTML

## Tooling

- Telnet / CURL
- Firefox (Inspector)
- Charles (Web Debugging Proxy)
- Postman (HTTP Requests)

## Telnet / CURL

HTTP is a text protocol, can be used with sample telnet

```
telnet www.google.fr 80 GET / HTTP/1.0
```

Owant refused non HTTPS traffic

```
telnet www.qwant.com 80
Trying 194.187.168.100...
Connected to www.qwant.com.
Escape character is '^]'.
GET /?q=hello HTTP/1.2
```

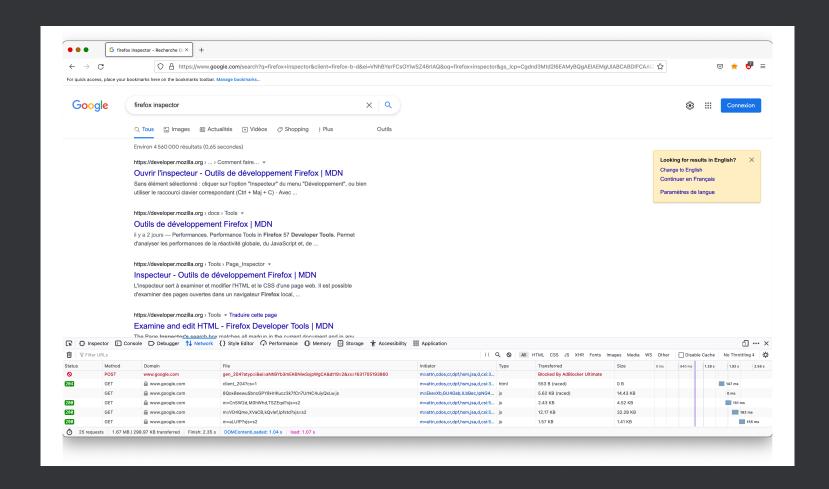
HTTP/1.1 301 Moved Permanently content-length: 0 location: https:///?q=hello

Try this API

- curl -i -X GET "https://api.agify.io/?name=hugues"
- curl -i -X GET "https://geo.ipify.org/api/v1?apiKey=at\_UIcnbgnaUVR4ZD5cm9O2A3opPUCTt&ipAddress=8.8.8.8"

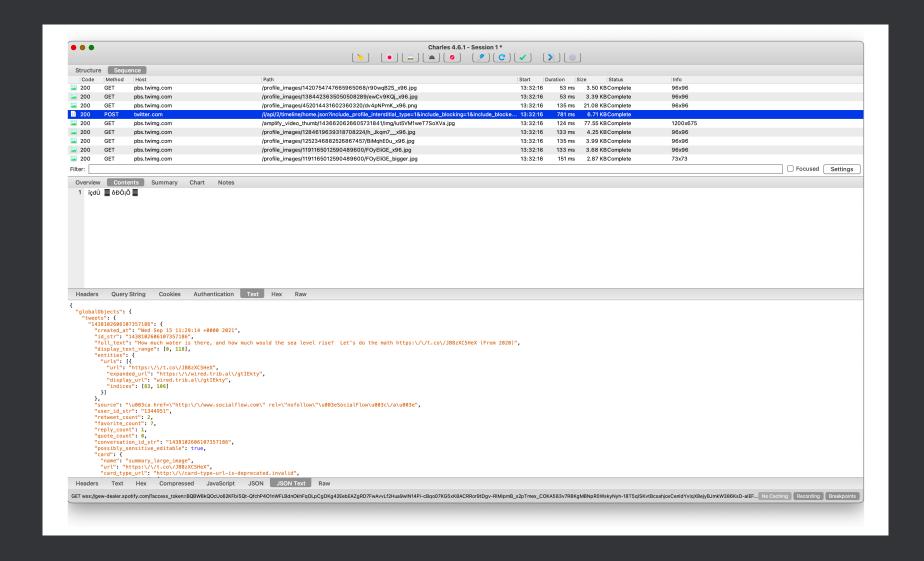
# Firefox (Inspector)

- Choose Tools > Web Developer > Inspector from the Menu Bar or the equivalent keyboard shortcut.
- Right-click an element on a web page and select Inspect Element.
- Browse Facebook
  - Inspect Cookie



### Charles

Charles - Web Debugging Proxy Application



#### Charles (Setup)

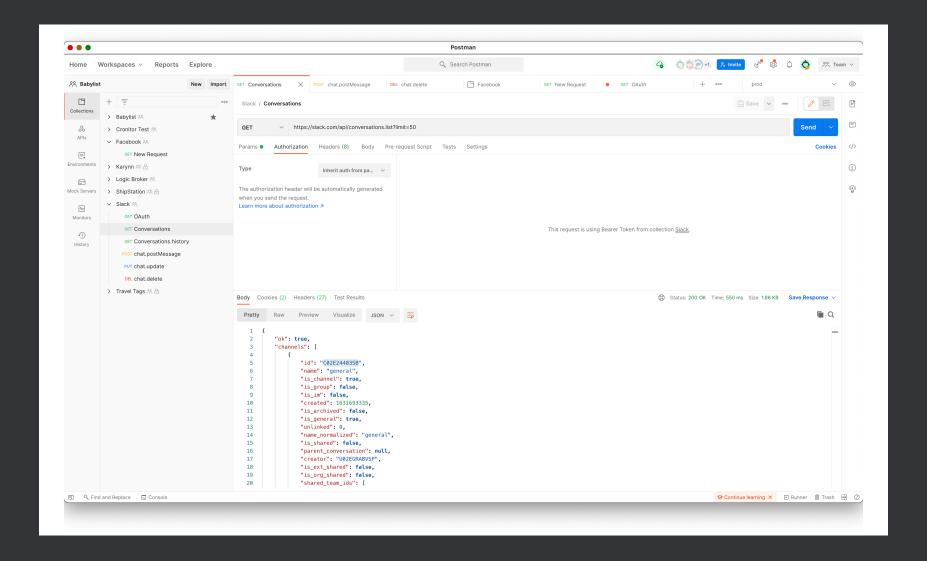
- Configure
  - SSL Certificate

```
charles ssl export charles.pem sudo mv charles.pem /etc/pki/ca-trust/source/anchors/sudo update-ca-trust
```

- Firefox Proxy
  - Inspect some web pages
  - Twitter (twitter.com/i/api)
  - Facebook
  - Google

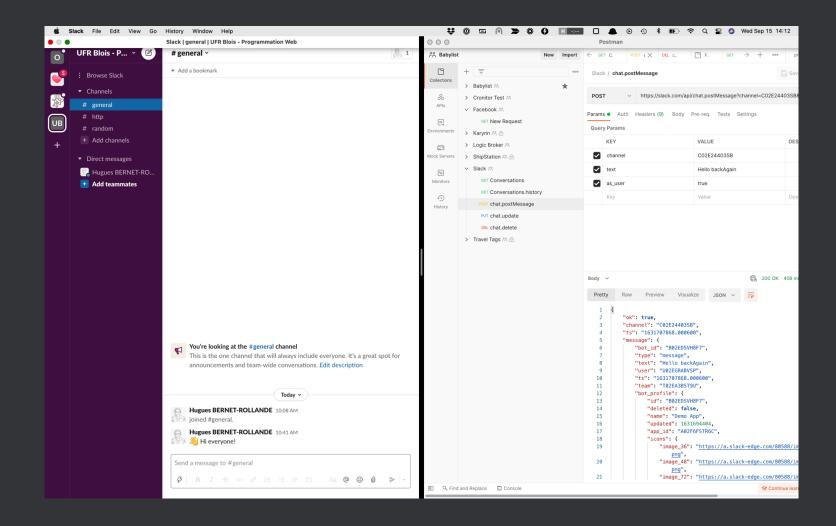
#### Postman

The Postman app



#### Slack API

- Get a list of conversations
- Get a list of messages
- Post / Edit / Delete a Message



# https://bit.ly/3Ek414c

```
curl \
   --location \
   --request POST \
'https://slack.com/api/chat.postMessage?channel=CO2E244O3SB&text=Hello World' \
--header 'Authorization: Bearer xoxp-2486113197334-2492860403907-2492926538098-76ac2d6b0dcc5d6a24b3c72889355468' \
```

## Facebook Graph API

- https://developers.facebook.com/docs/graph-api/
- https://developers.facebook.com/tools/explorer/544715170079393/

#### Exercises

# Inspect sites (Charles / Firefox Inspector)

- Medium
- Twitter

#### Explore some API

- Twitter
- Facebook