

NETWORK PROTOCOL

msgs sent over wire or network = msgs sent over the internet from 1 machine to another machine

Network protocol ^{consists of}

- types of msgs
- struc.
- order
- response to a msg, what shud it look like if present
- rules on when msgs can be sent to 1 another

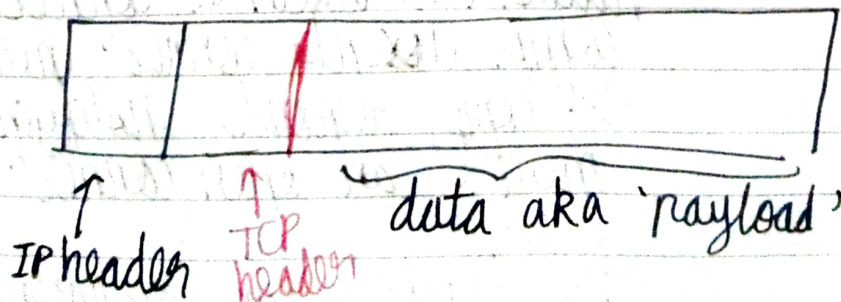
3 main protocols:

1) IP → Internet Protocol

i) Modern internet effectively runs on IP. When 1 machine interacts with another and

sends data to it, the data is sent in form of IP packet (funda unit bldg blocks of data sent b/w machines i.e. communicating)

ii) IP packet → made up of bytes



iii) IP header - At beginning of packet. Contains imp info → source IP address, destinaⁿ IP address (machine sending data) (machine data will go to)

```
const http Response = {
```

```
  status Code: 200,
```

```
  headers:
```

```
{
```

```
  'access-control-allow-origin': 'https://www.google.com',
```

```
  'content-type': 'application/json',
```

```
}
```

```
  body: '{}'
```

eg: - 404 status

eg: - requested

piece not found

Path $\xrightarrow{\text{contains}}$ logic $\xrightarrow{\text{gets executed}}$ as per path provided in req

Headers \rightarrow collecⁿ of k-v pairs contains imp. meta data or info abt req.

eg: 403 status code \rightarrow data you're req. in is forbidden

NOTE

status code \rightarrow describes type of ^{response} ~~req~~ status codes are like guidelines that you can alter as per requirement

eg: - 404 status code = requested piece of data not found.

