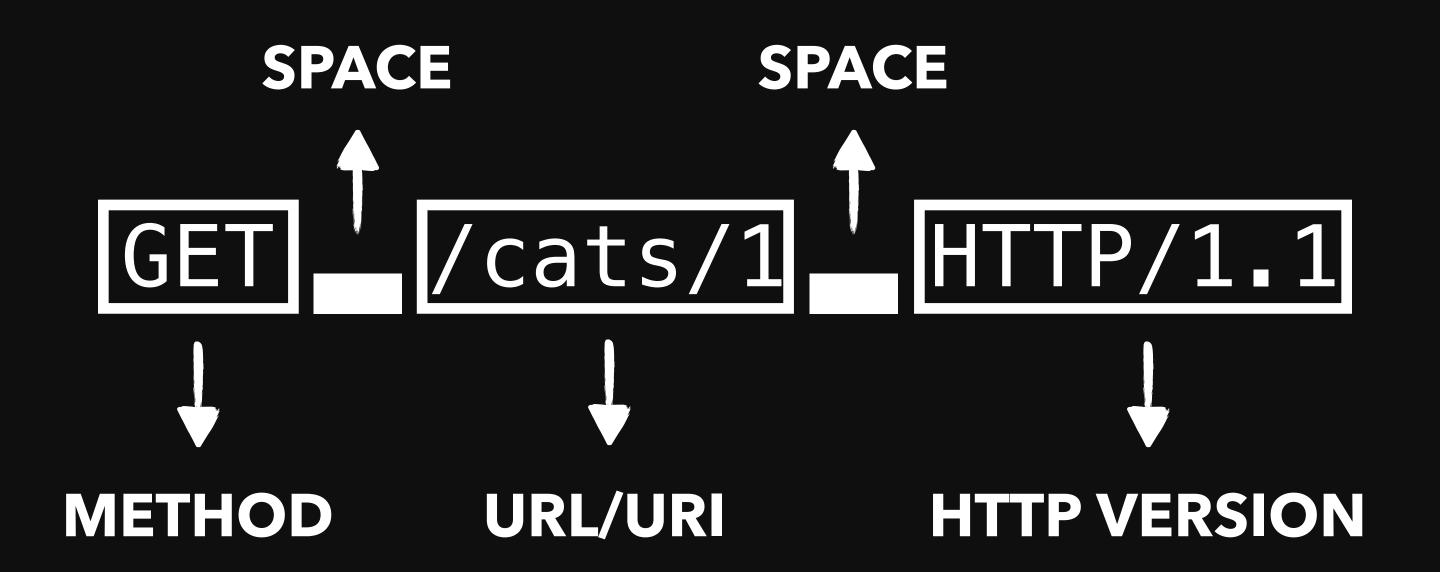


HTTP Protocol

WTF is it?

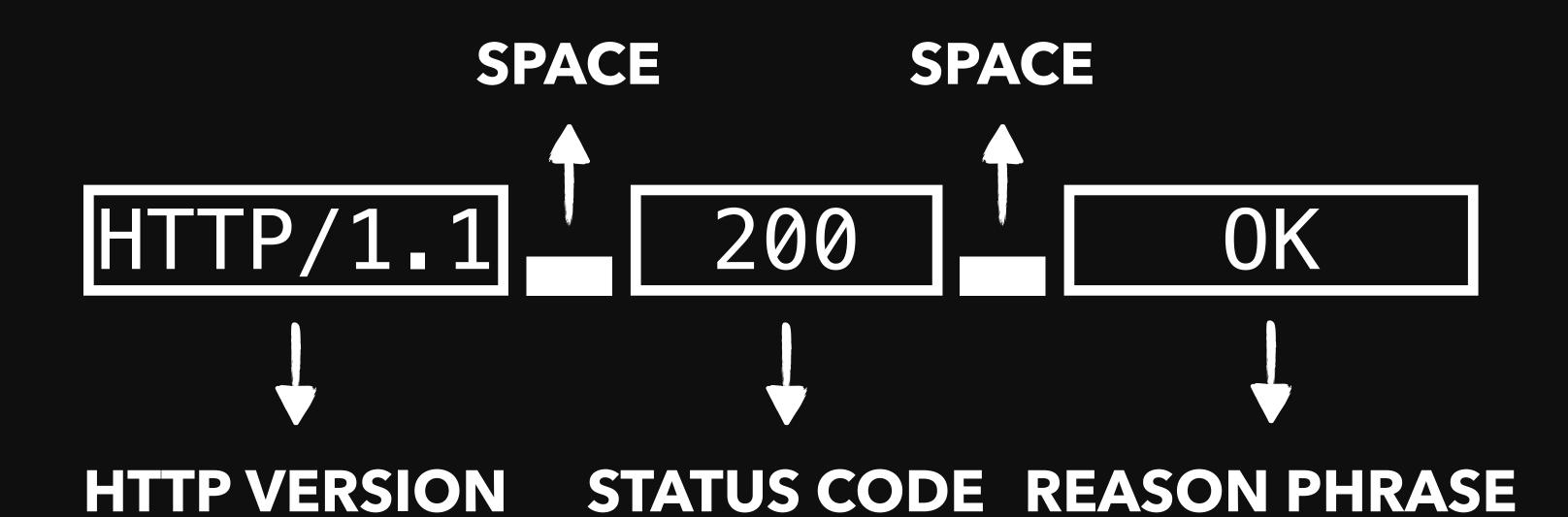
HTTP PROTOCOL - REQUEST LINE (REQUEST)





HTTP PROTOCOL - STATUS LINE (RESPONSE)





HTTP PROTOCOL - HTTP MESSAGE (REQUEST/RESPONSE)



```
GET /cats/1 HTTP/1.1 	← REQUEST/STATUS LINE
```

Content-Length: 4

X-Header: some-value

CRLF (CARRIAGE RETURN LINE FEED - \r\n)

HTTP VERBS / REQUEST METHODS



GET get 1/multiple resources

POST create a resource / execute action with side effects

PATCH partially update 1/multiple resources

PUT fully update 1/multiple resources

DELETE delete 1/multiple resources

HEAD CONNECT OPTIONS TRACE

HTTP STATUSES / RESPONSE STATUS CODES



- 1.X.X informational responses
- 2.X.X successful responses
- 3.X.X redirects
- 4.X.X client errors
- 5.X.X server errors

HTTP VERSIONS?



- HTTP 1
- HTTP 2 SPDY
- HTTP 3 QUIC

HTTP/1.0 VS HTTP/1.1



- **Persistent Connections**
- Connection & Host headers
- Improved Caching & Compression
- New HTTP Methods & Status Codes

WHAT IS REST?



- Set of Rules around HTTP
- **URL Structure**
- **Corresponding HTTP Status**

HTTP ALTERNATIVES



- HTTP2/HTTP3
- Web Sockets
- gRPC
- GraphQL