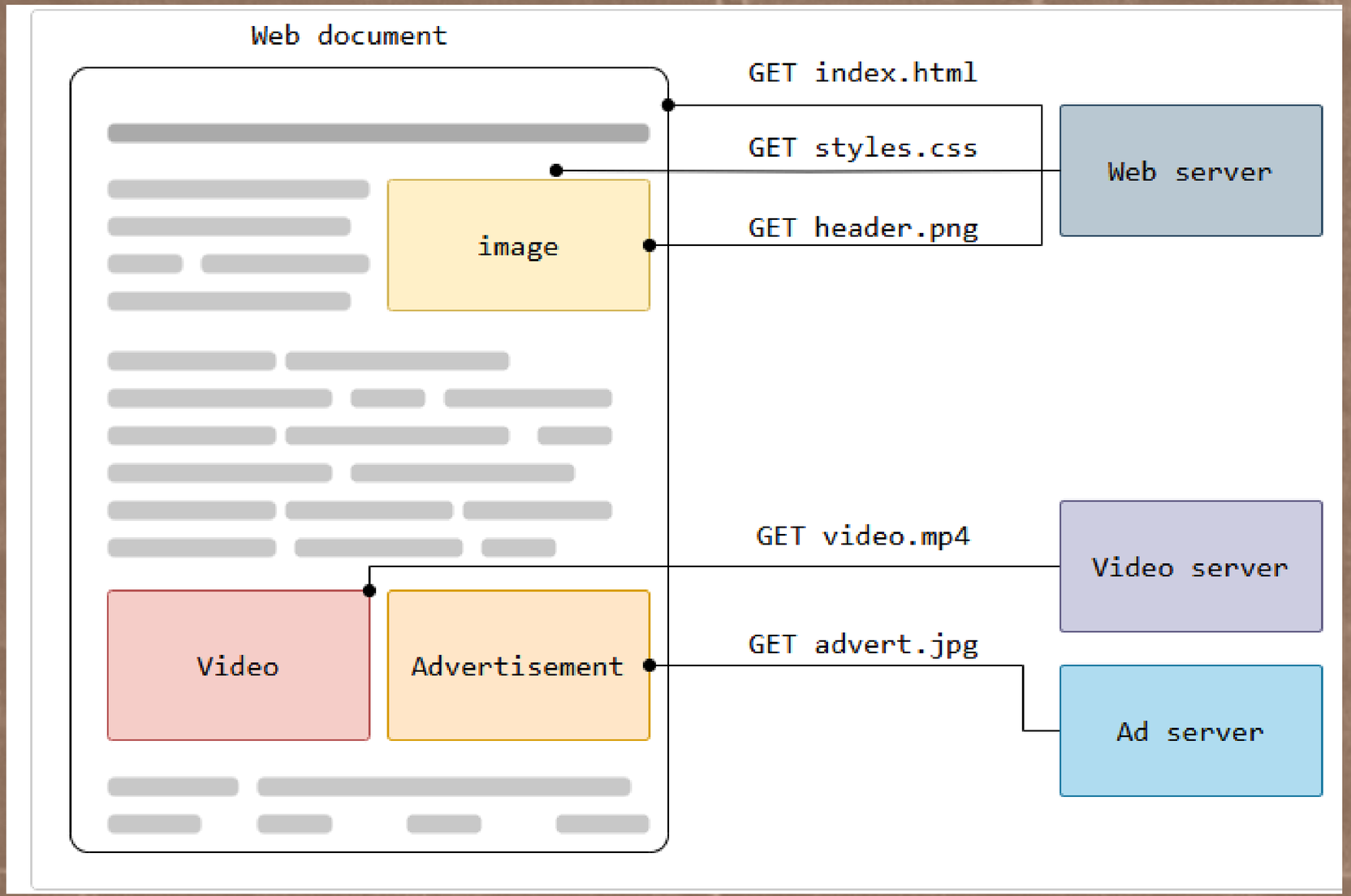
HyperText Transfer Protocol

HTTP is a protocol for fetching resources such as HTML documents. It is the foundation of any data exchange on the Web and it is a client-server protocol, which means requests are initiated by the recipient, usually the Web browser. A complete document is typically constructed from resources such as text content, layout instructions, images, videos, scripts, and more.


Web document
GET index.html
GET styles.css
GET header.png
Web server
image
GET video.mp4
Video server
Video
Advertisement
GET advert.jpg
Ad server

HTTP Protocol is used everywhere from the server page to each service communication, deploying service to monitoring service. HTTP codes give an extension of HTTP protocol to debug network problems using curl, telnet able to check server availability, service responses

HTTP status code is used for search engine optimization of how your pages get indexed, as well as how search engines perceive the performance of your site.

HTTP Response Status Codes

Informational responses (100–199)

Successful responses (200–299)

Redirection messages (300–399)

Client error responses (400–499)

Server error responses (500–599)