

Single Page Applications & AJAX

Wow. Such buzzwords. Much JavaScript

HTTP REQUESTS IN THE BROWSER

- **URL bar**
- **Links**
- **JavaScript**
 - `window.location.href = "http://www.google.com";`
- **Submitting forms (GET/POST)**

All of the above make the browser navigate and retrieve new documents.



Server



index.html

GET /



User clicks on link . . .



Server



settings.html

GET /settings



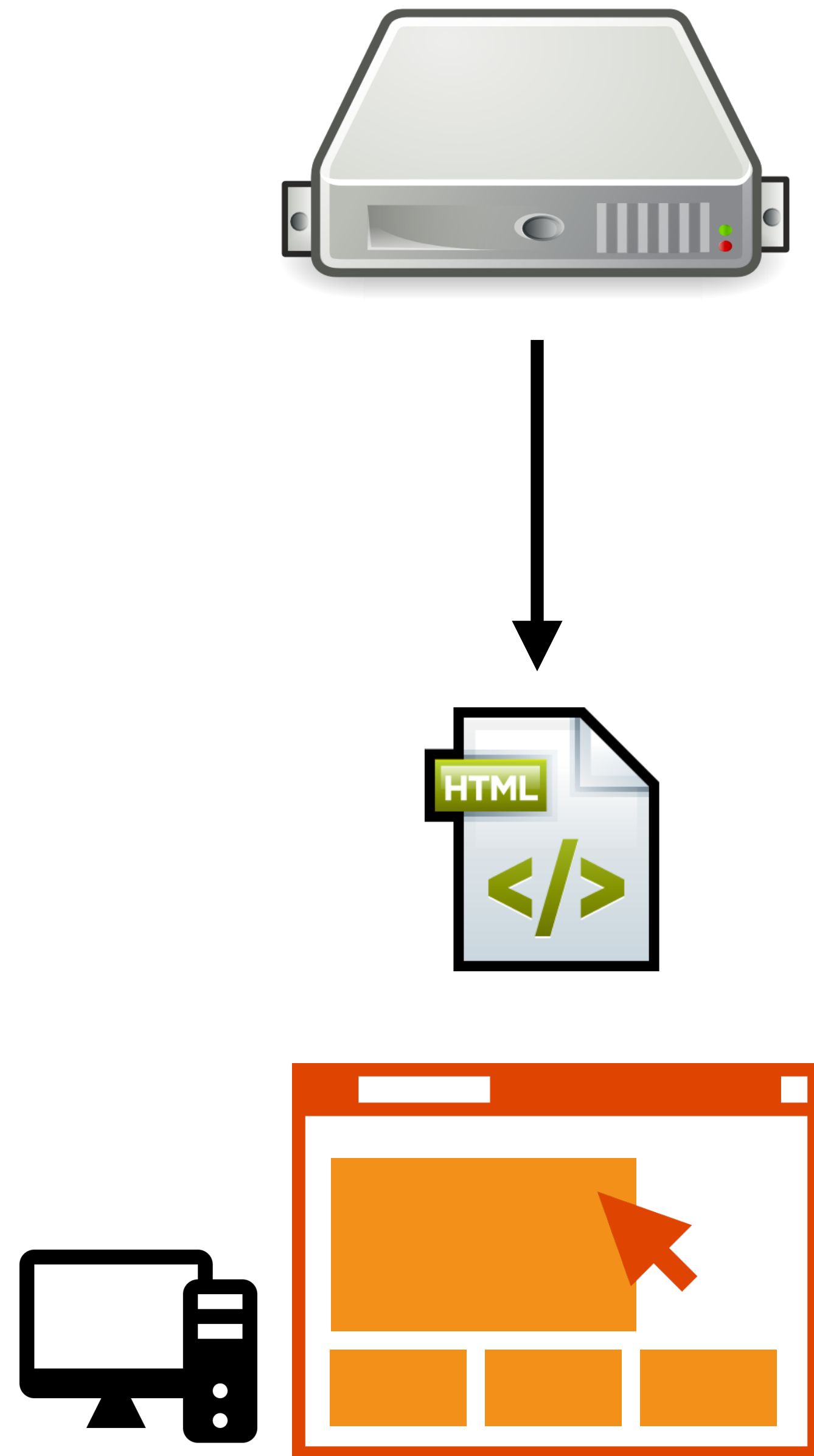
What is SPA?

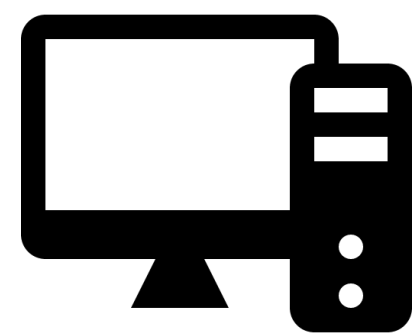
“A single-page application (SPA) is a web application or web site that interacts with the user by dynamically rewriting the current page rather than loading entire new pages from a server.”

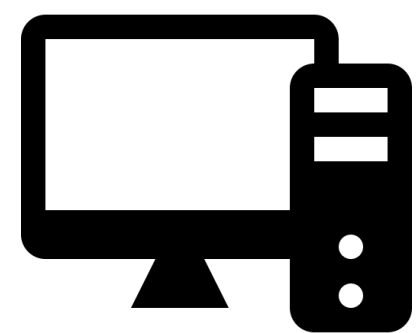
WIKIPEDIA

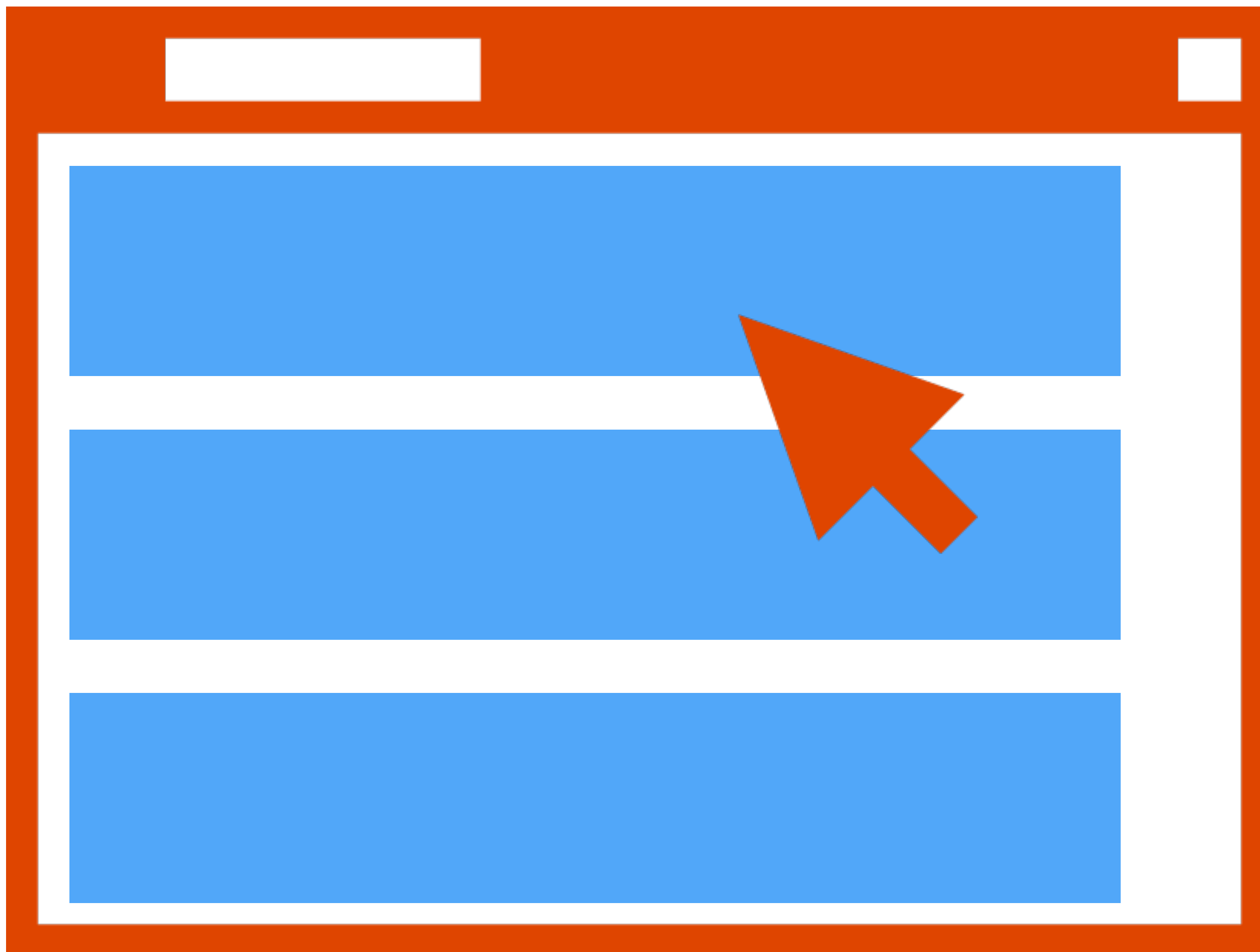
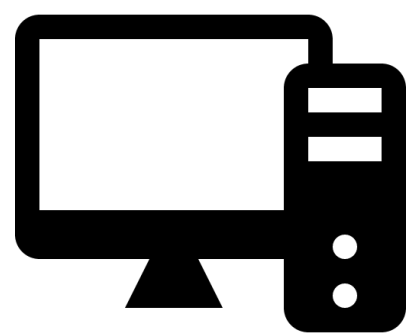
Single Page Applications

- **No reload or “refresh” within the user interface**
 - JavaScript manipulates the DOM as the user interacts
- **User experience similar to a native application**



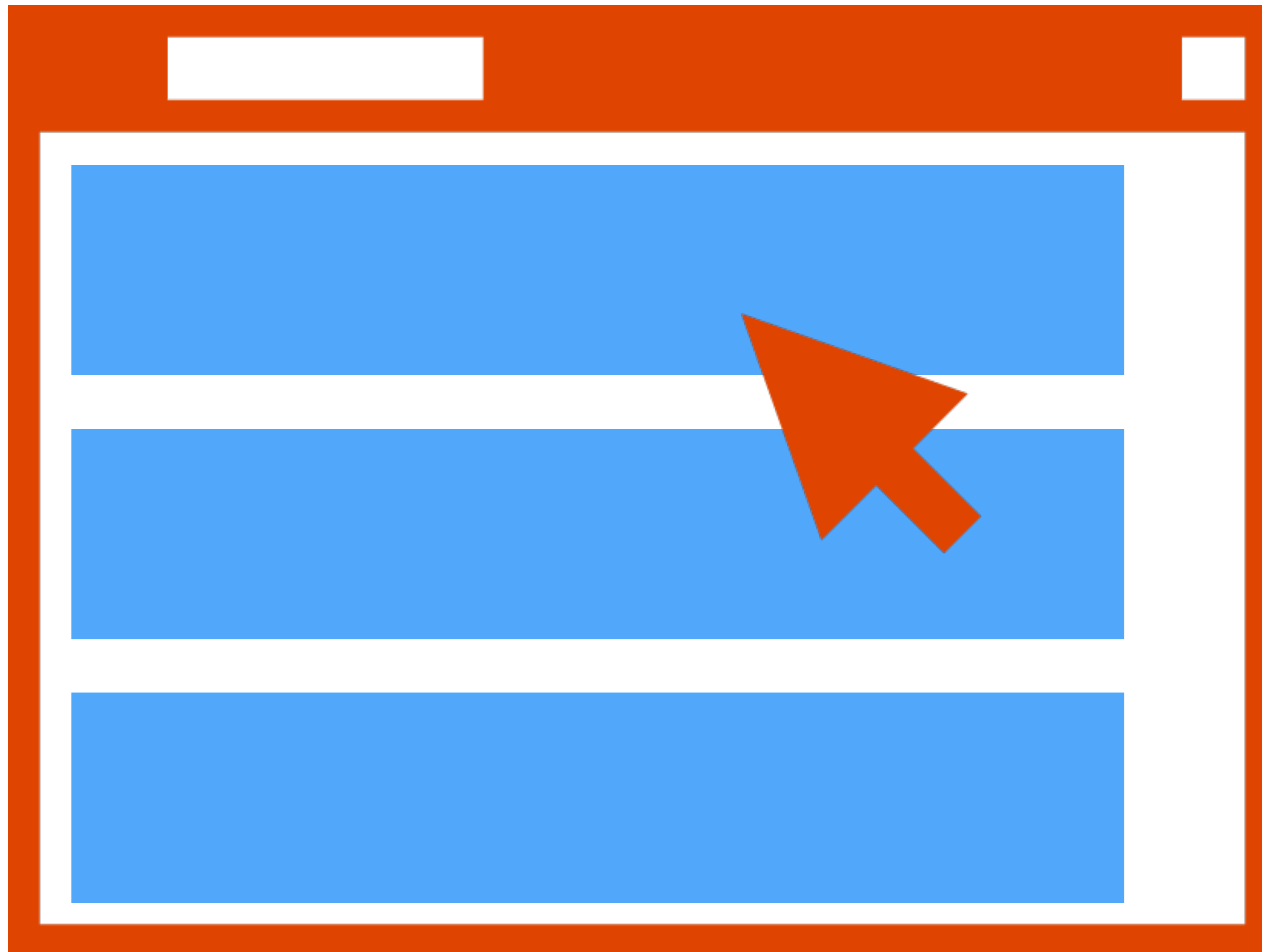
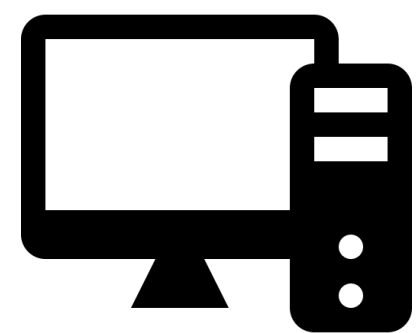


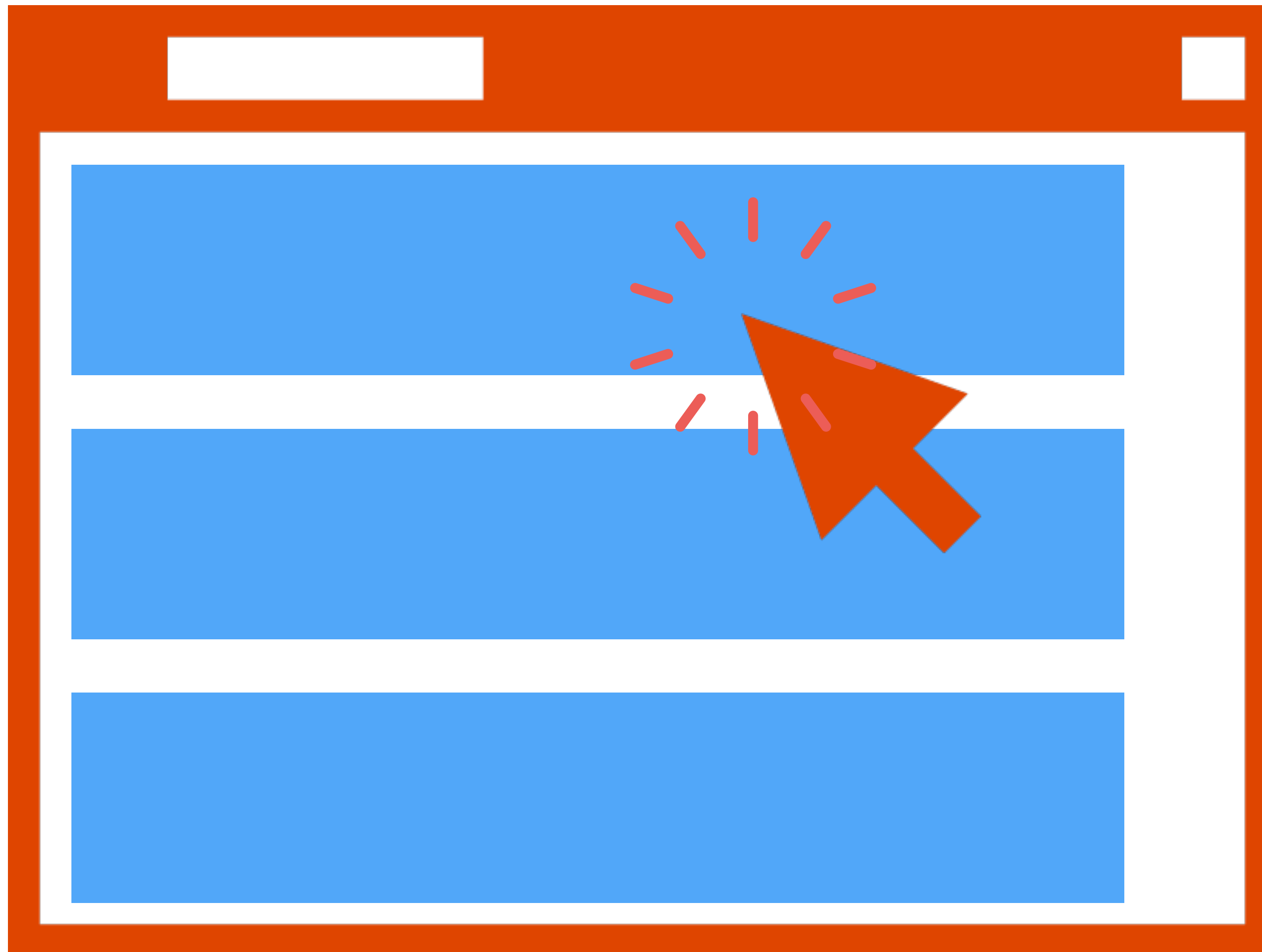
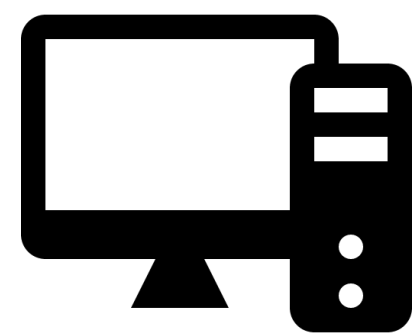


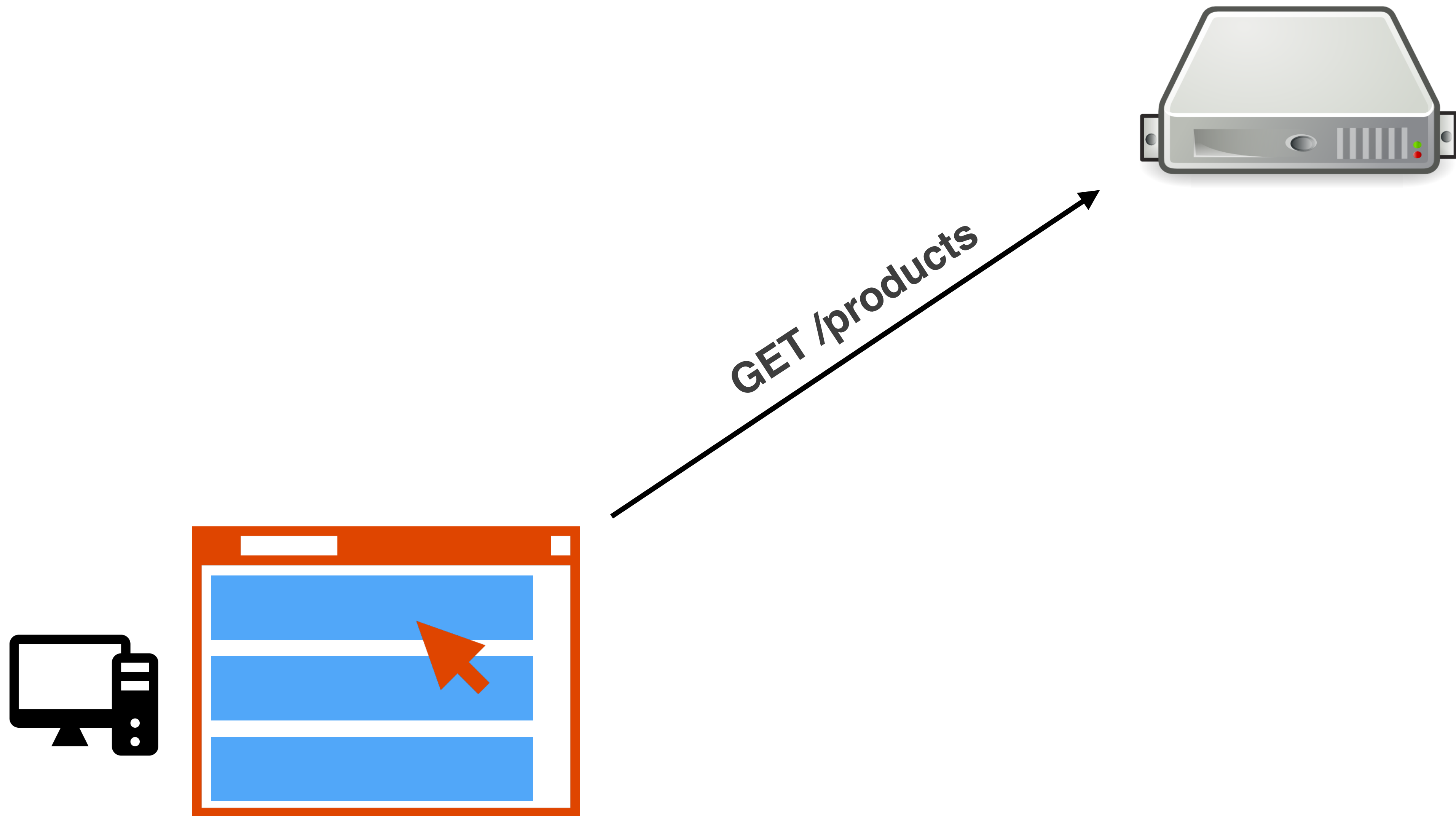


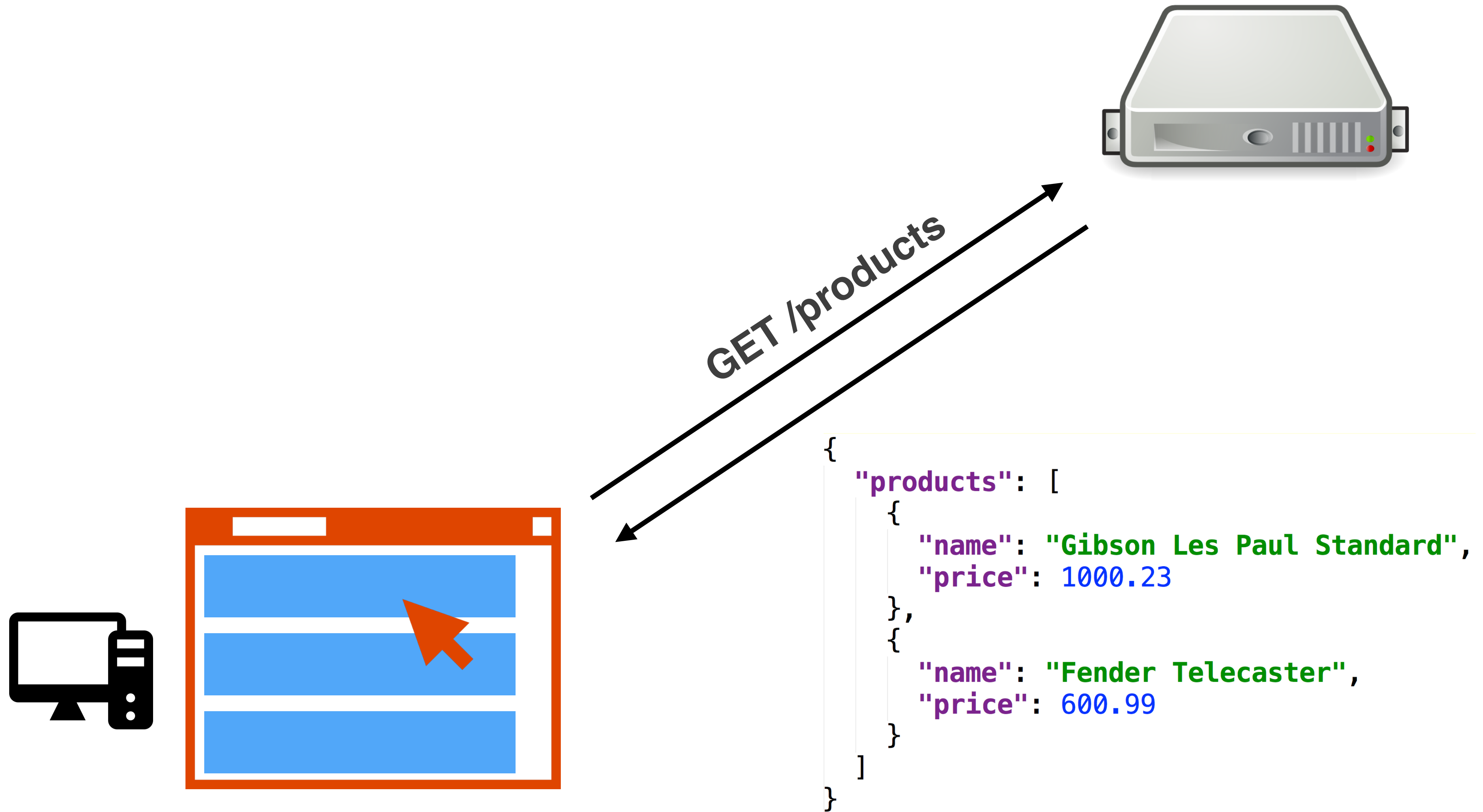


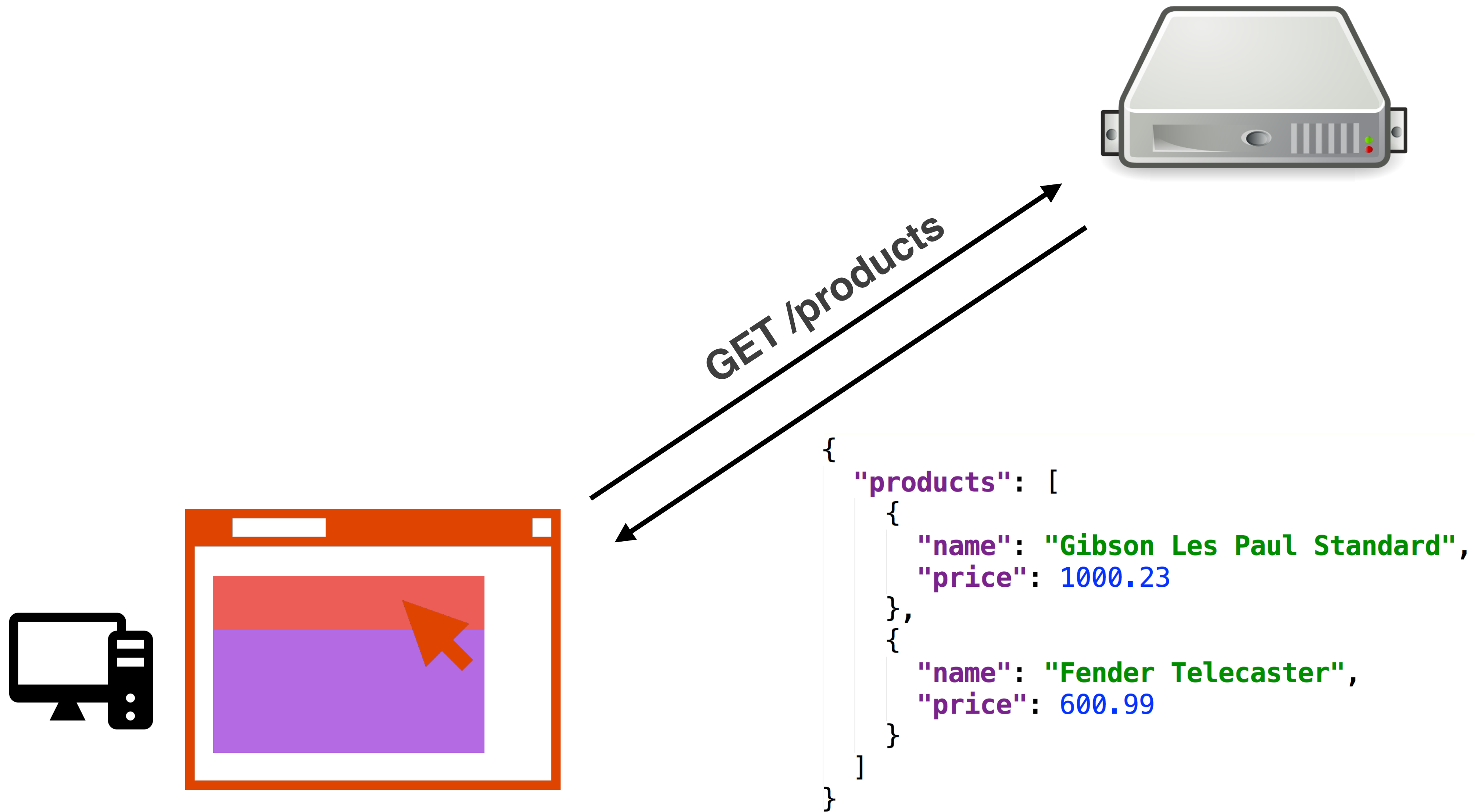
*What is
AJAX?*











DATA SERIALIZATION

ASYNCHRONOUS JAVASCRIPT AND XML

ASYNCHRONOUS JAVASCRIPT AND JSON