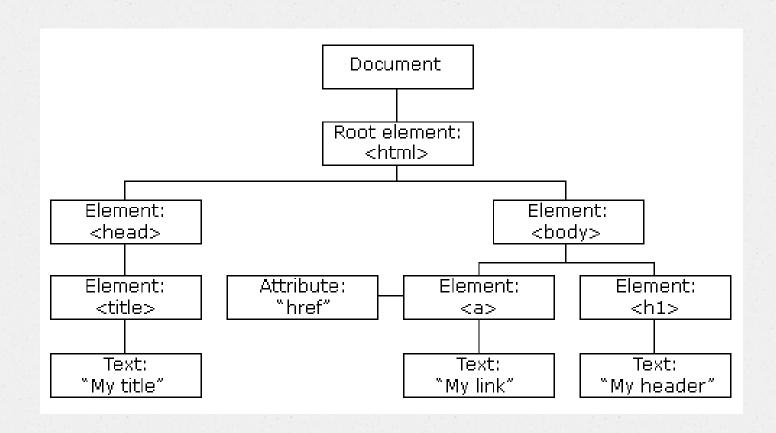
Same-Origin-Policy Lab

Computer Security

HTML and DOM

DOM(Document Object Model) is a cross platform and language independent convention for representing and interacting with objects in HTML, XHTML and XML

Website and DOM





- Extremely versatile and flexible language
- Variable declarations not necessary
- Variables automatically typed

Javascript

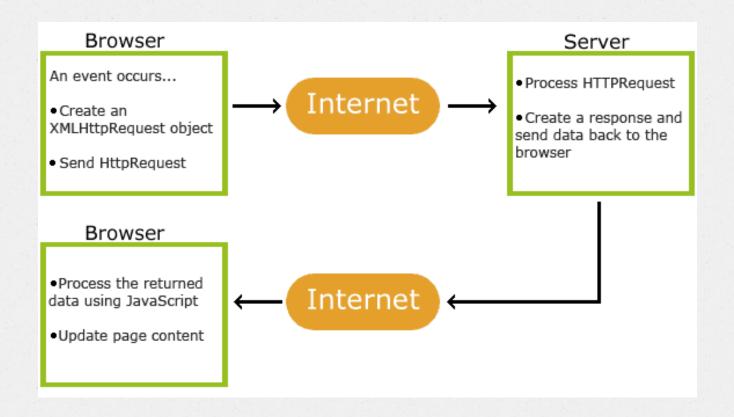
- Written inside <script></script> tags in HTML file
- Can manipulate DOM objects
- DOM access through global "document" object
- Example: SOP.html

AJAX

- Asynchronous Javascript and XML
- Asynchronous nature lets page make request and not worry about time taken for response to return



AJAX



Source: www.w3schools.com

AJAX Steps

- 1. Create XmlHttpRequest object
- Assign object's onreadystatechange method to a function (analogous to C/C++ function pointers)
- Call open() with approriate method and target
- 4. Call send()

Example http://www.w3schools.com/aj ax/tryit.asp?filename=tryajax first



- HTTP is a defined protocol used by browser for any sort of remote request (webpages/images/scripts/files/...)
- Header is usually hidden from the user but sent by browser during every request
- Example of how to use LiveHTTPHeaders firefox extension to view HTTP Header info



- Multiple web servers stored locally
 - o www.soplab.com
 - <u>www.soplabattacker.com</u>
 - <u>www.soplabcollabtive.com</u>
- Refer to lab manual for how it's done