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Web Programming Foundations Notes

**Introduction**

Welcome

* The URL you enter in a browser functions as an address to a server.
* The server holds a document in a markup language the browser can understand.
  + The document links to other files, including images/videos, a stylesheet, and JS for interactivity.
* You get a local copy of the web document running in your browser.

**Deconstructing the Web**

From URL to website

* You enter in a URL (Universal Resource Locator), which is a locator that points at a specific resource somewhere on the web.
  + The resource is the document you’re trying to access and all its associated assets.
  + The “somewhere” is the place whose IP address is mapped to the domain you used in a DNS (Domain Name Server)
* After you enter in a URL, the browser sends a GET request to the URL. The URL is sent to the DNS, which figures out which IP address the domain is pointing at, and passes the request to the server on that IP address. The server then sends data back to the browser.
  + The browser receives HTML, which is the universal document language for the worldwide web. May contain link to media items, CSS, and JS.