Part One: Solidify Terminology

1. What is HTTP? Stands for Hypertext Transfer Protocol (standard web). How browsers and servers communicate. Governs how clients get data from, or send data to, a server.
2. What is a URL? Stands for Uniform Resource Locator, an address for some internet resource.
3. What is DNS? Domain name service, turns into an IP address. A system that converts human readable URLs into IP addresses.
4. What is query string? Provides extra information – search terms, info forms, etc. The server is provided this info might use to change page. Sometimes, JavaScript will use this information in addition/instead.
5. What are two HTTP verbs and how are they different?
   1. GET – get some data from the server (most pages, search forms)
   2. POST – send some data to the server (pages that change data on server)
6. What is an HTTP request?
   1. A request from a client to a server which follows the HTTP protocol (rg a request for HTML from news.google.com)
7. What is an HTTP response?
   1. A response from a server to a client which follows the HTTP protocol (eg sending back HTML/CSS/JS/etc)
8. What is an HTTP header? Give a couple examples of request and response headers you have seen.
   1. Headers provide additional information about the request or the response.
   2. Examples
      1. Request headers: Host, User-Agen, Accept, Cookie, Cache-Control
      2. Response headers: Content-Type, Last-Modified, set-Cookie, Cache-Control.
9. What are the processes that happen when you type “<http://somesite.com/some/page.html>” into a browser?
   1. Your browser ‘resolves’ the name into an IP address using DNS
   2. Your browser makes a request to that IP address, including headers (info about browser, any previous cookies, and other things)
   3. The server sends a response (typically, HTML, with a status code (200 if it was successful)
   4. The browser makes a DOM from that HTML, and finds any other resources needed (images, CDD, JavaScript, etc. )
   5. The browser makes separate HTTP requests for those resources and receives response from the server for each.