

Web Client Technologies



Dynamic web sites

HTML and Javascript

HTML 5

- Many new markup to support various media types.
- Markup to support formatting commonly found in modern websites.

HTML





Javascript

- Nothing to do with Java besides the name
 - However, The JVM will run Javascript (Nashorn).
- Loosely Typed
- No class support
- Anonymous functions



Javascript Objects

Though javascript has no concept of class you can still create objects dynamically.



Accessing HTML

- Every browser exposes the html on the webpage via the 'document' object.
- HTML elements can be retrieved by their 'name' or 'id' attributes.
- Various Javascript frameworks makes this a bit easier.



Javascript Frameworks

- jQuery
- AngularJS
- JavascriptMVC
- CanJS
- and the list goes on...



Asynchronous Javascript (AJAX)

- Throughout most of Internet history, a server was only hit when a page initially loaded or when a form was submitted (resulting in a new page being displayed).
- Modern javascript is able to communicate via HTTP to a server without needing a page reload.
- Thus started the development of so called 'Single Page' websites.