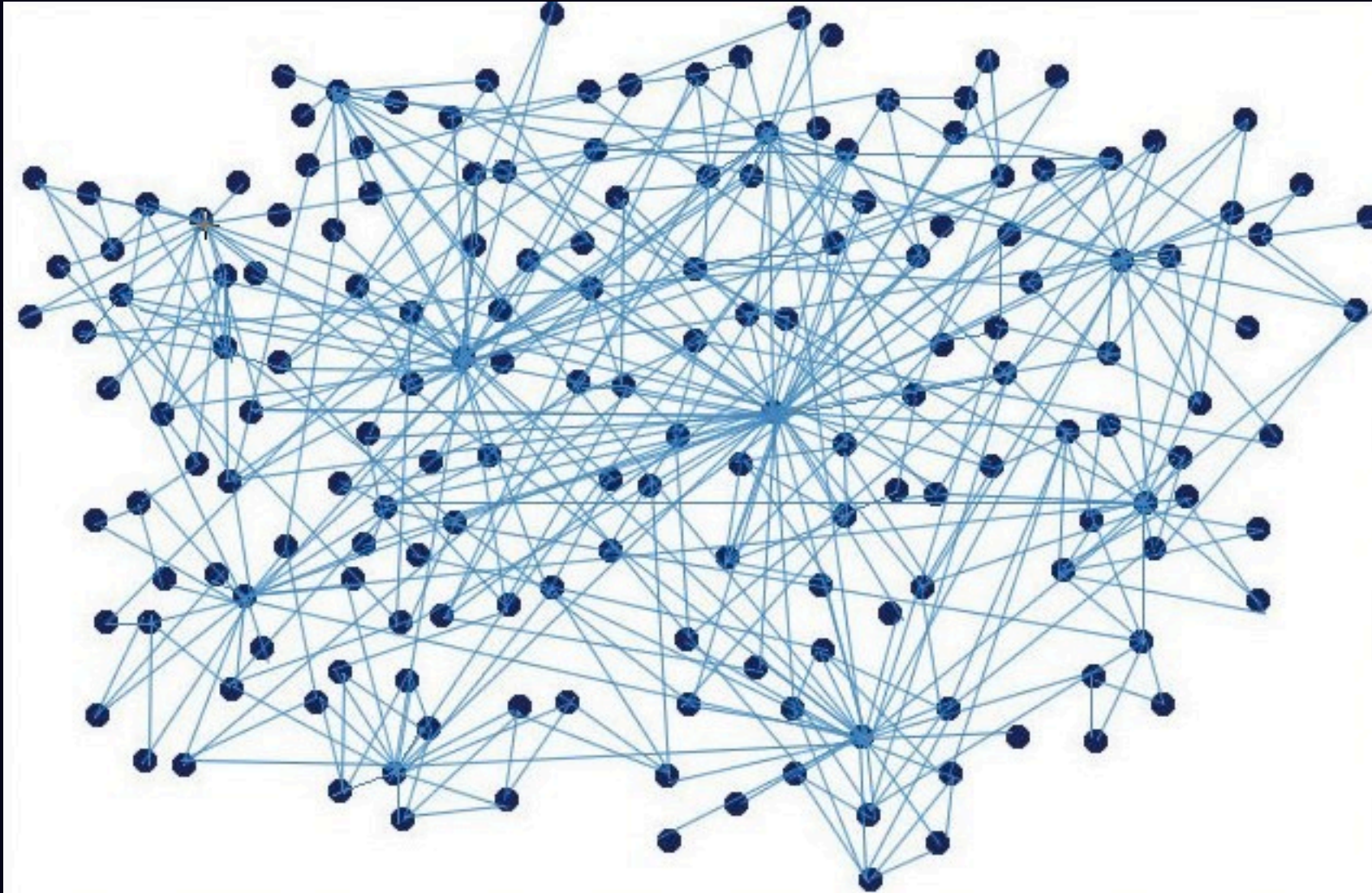# Web Development 101

Michael Botsko 2010

Revision 1.0

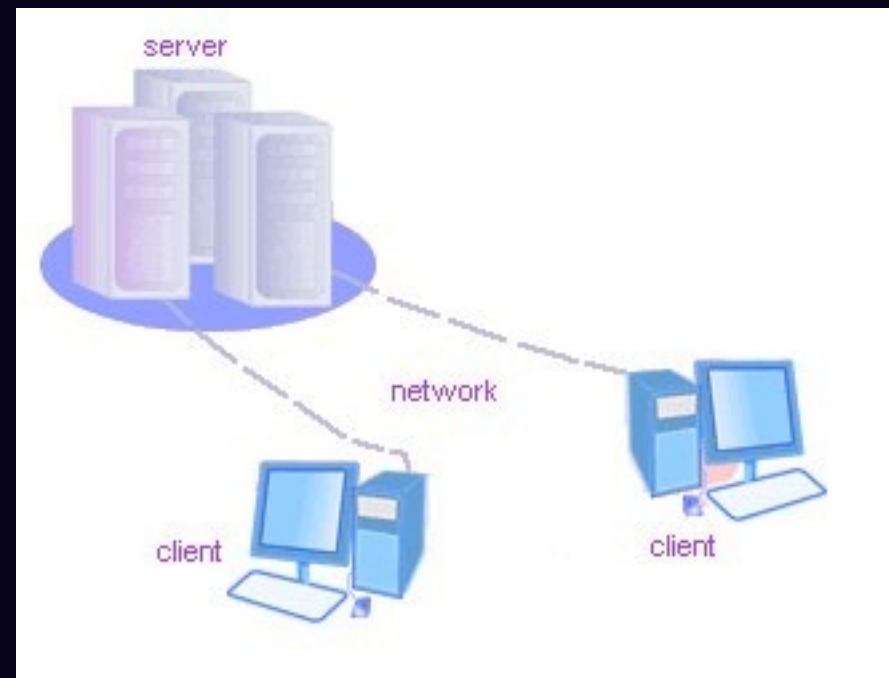# The Internet

Domain Name Service (DNS)

1. Buy "your-domain.com" from a registrar
2. Buy a server hosting package
3. Tell the registrar where to direct traffic

www.trellisdev.com -> 72.47.201.76

```
traceroute to trellisdev.com (72.47.201.76), 64 hops max, 52 byte packets
 1  * * *
 2  ge-7-7-ur03.beaverton.or.bverton.comcast.net (68.85.148.241)  8.053 ms  8.505 ms  9.621 ms
 3  po-10-ar01.beaverton.or.bverton.comcast.net (68.85.243.197)  8.590 ms  6.952 ms  8.484 ms
 4  te-0-4-0-0-cr01.portland.or.ibone.comcast.net (68.86.90.241)  12.065 ms  11.555 ms  11.229 ms
 5  pos-0-8-0-0-cr01.seattle.wa.ibone.comcast.net (68.86.85.205)  14.846 ms  14.986 ms  14.578 ms
 6  tengigabitethernet1-3.ar5.sea1.gblx.net (64.212.32.157)  13.433 ms  16.363 ms  13.653 ms
 7  wbs-connect.tengigabitethernet2-4.ar4.lax2.gblx.net (64.208.17.6)  37.241 ms  38.580 ms  37.295 ms
 8  br01-1-2.lax4.net2ez.com (64.93.64.29)  38.968 ms  39.019 ms  39.644 ms
 9  cr01-2-2.lax4.net2ez.com (64.93.64.74)  37.761 ms  39.443 ms  38.684 ms
10  cust-77.lax4.net2ez.com (64.93.75.14)  37.564 ms  36.975 ms  38.892 ms
11  72.10.63.174 (72.10.63.174)  41.604 ms  48.702 ms  50.076 ms
12  vz154.mediatemple.net (72.47.201.5)  38.611 ms  37.788 ms  37.695 ms
13  trellisdev.com (72.47.201.76)  38.566 ms  38.177 ms  37.701 ms
```

Clients & Servers

A client is an application or system that accesses a remote service on another computer system by way of a network.

A server is any combination of hardware or software designed to provide services to clients.
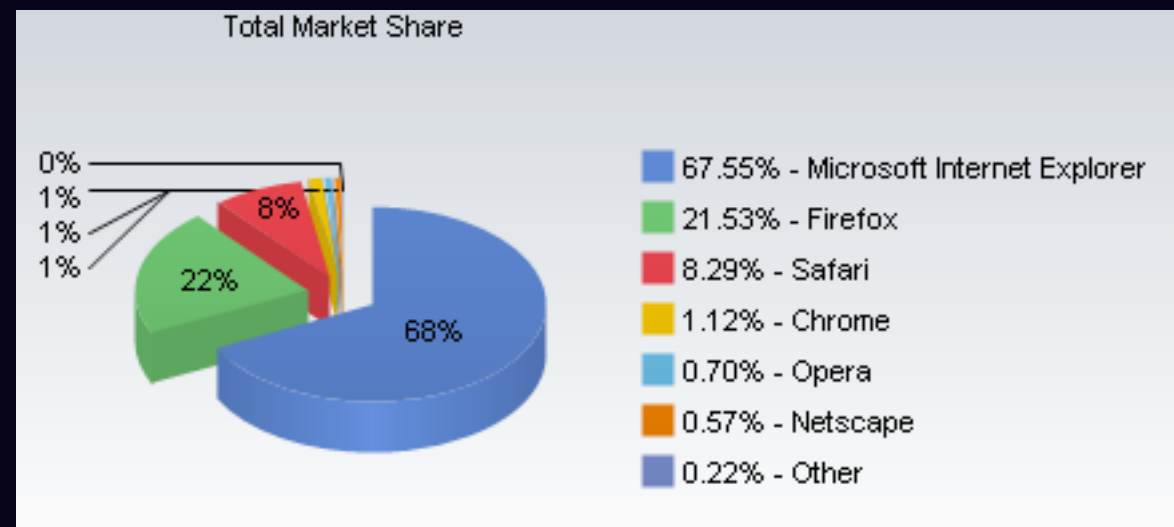
Types of Servers

Types of Clients

Web Browser

A web browser is a software application for retrieving, presenting, and traversing information resources on the World Wide Web.

Total Market Share

- 67.55% - Microsoft Internet Explorer
- 21.53% - Firefox
- 8.29% - Safari
- 1.12% - Chrome
- 0.70% - Opera
- 0.57% - Netscape
- 0.22% - Other

Rendering Engines

Trident   Gecko   Webkit

What is HTML?

Hyper Text Markup Language

- A markup language that describes the structure of a document
- Should not be used to describe style or behavior.
- Proposed in 1990 by Tim Berners-Lee of CERN.
- Best practices and standards have changed its use since 90s
- Text that's returned by a server, and rendered by the browser
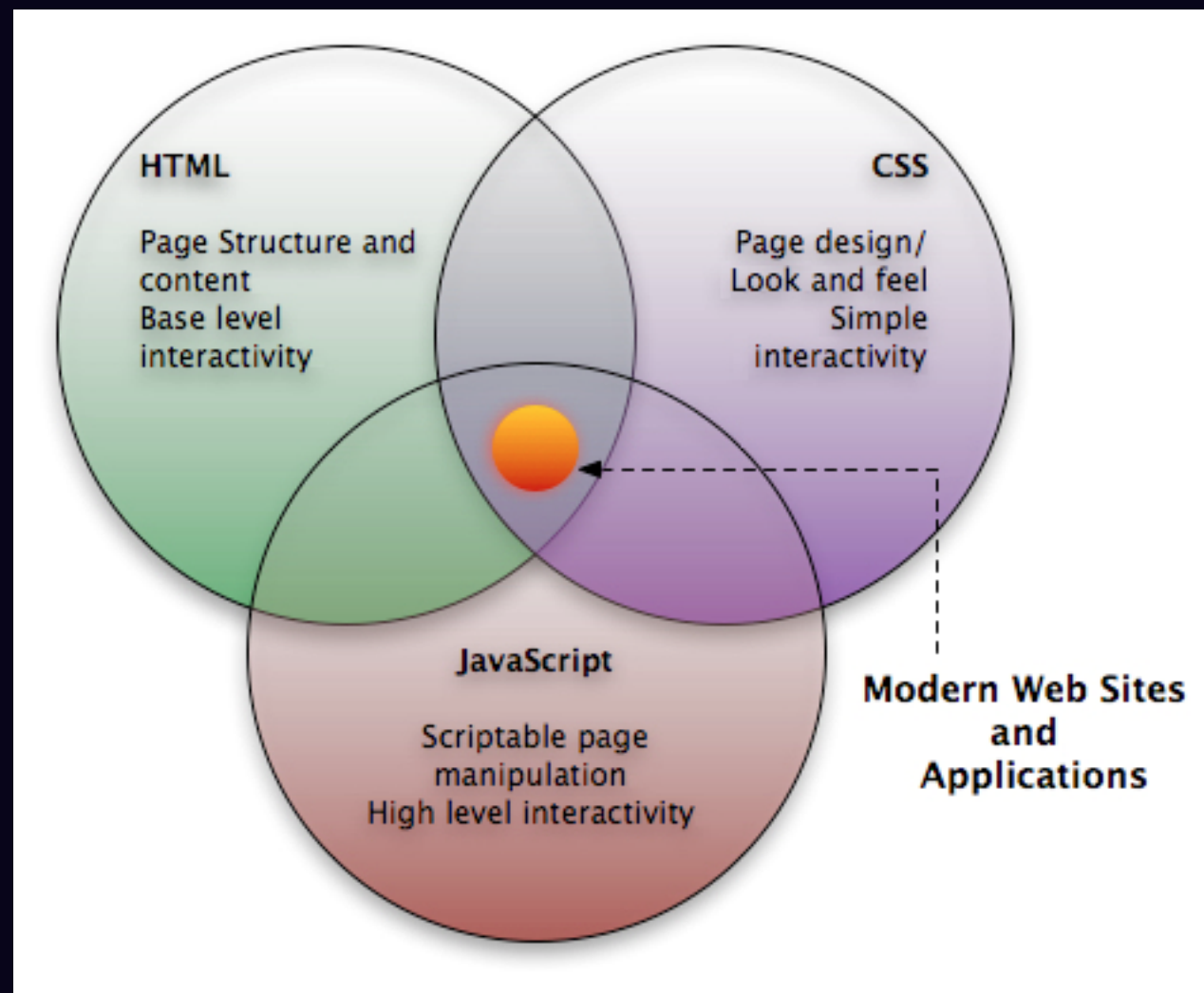- May be edited using any plain text-editing program

Windows:
- Notepad, Notepad++, EditPlus, PSPad, Dreamweaver

Mac:
- TextMate, Coda, TextWrangler, BBedit

Where Does Everything Fit?

View Source + Google