

Applications

COS 460 / 540

Applications

- DNS - Doman Name Service
- HTTP - Hyper Text Transfer Protocol

DNS



Expand...

usm.maine.edu

http://usm.maine.edu

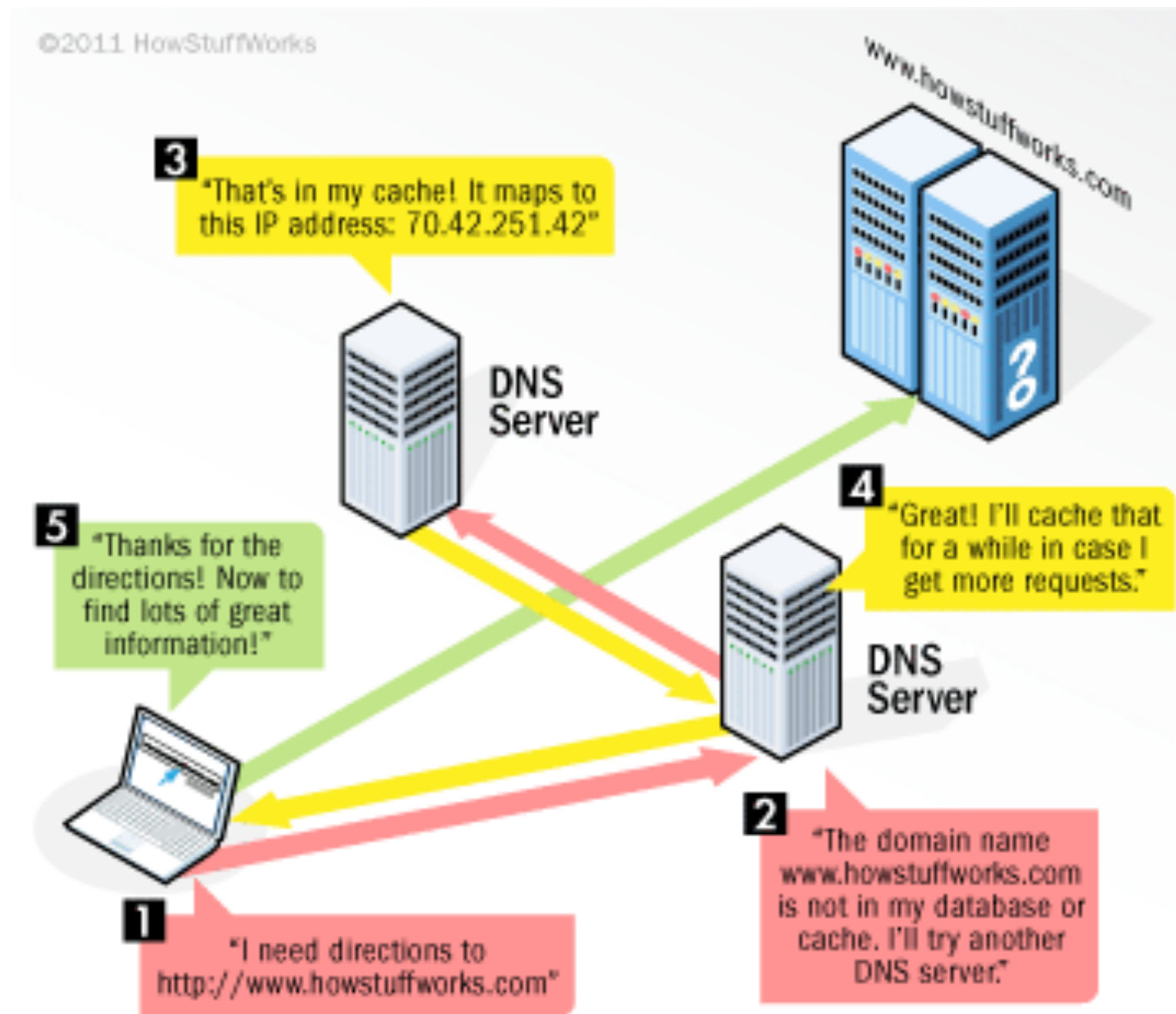
http://usm.maine.edu:80

http://usm.maine.edu:80/index.html

http://130.111.135.26:80/index.html

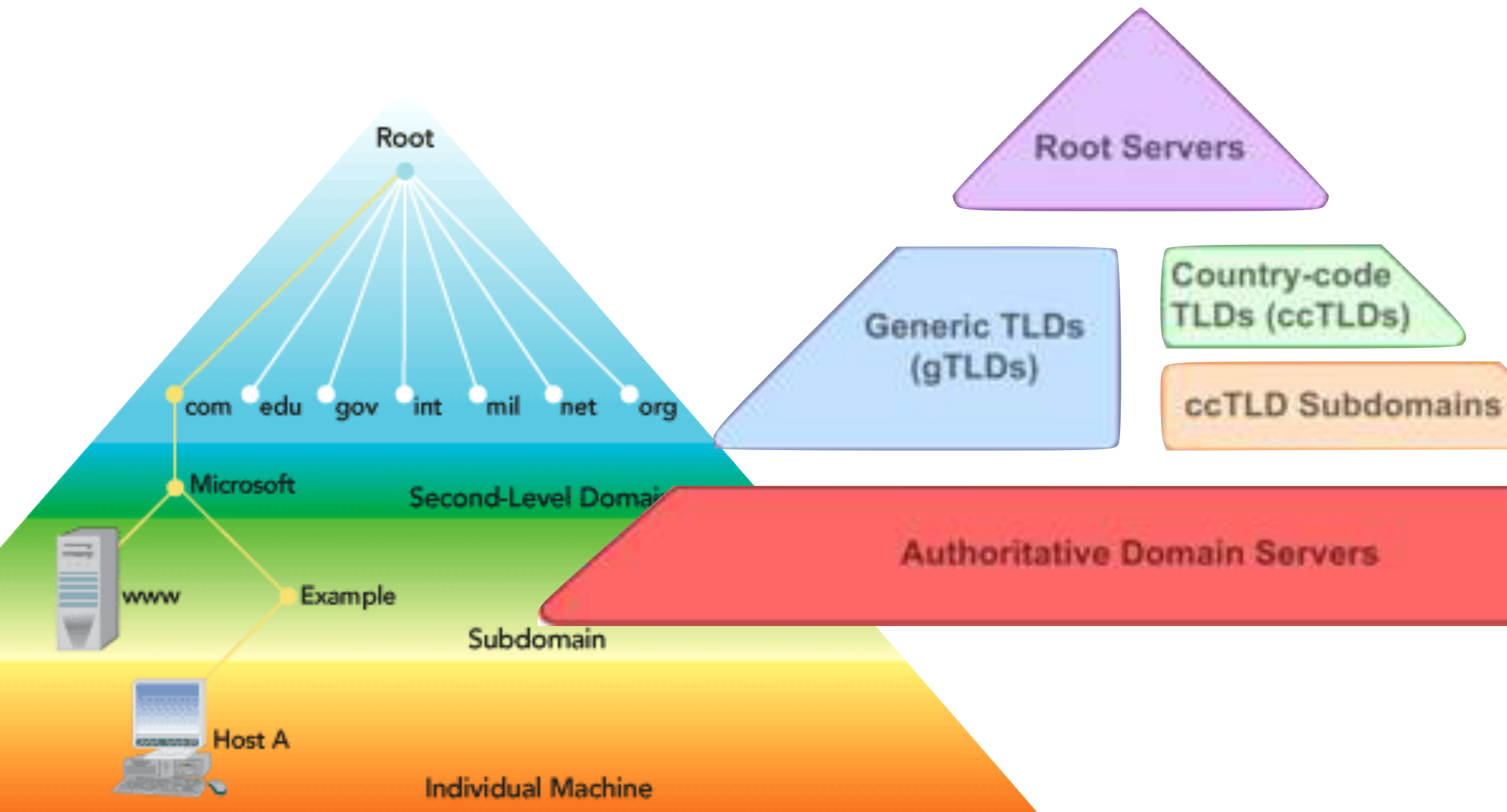
... 130.111.135.26

DNS in Action



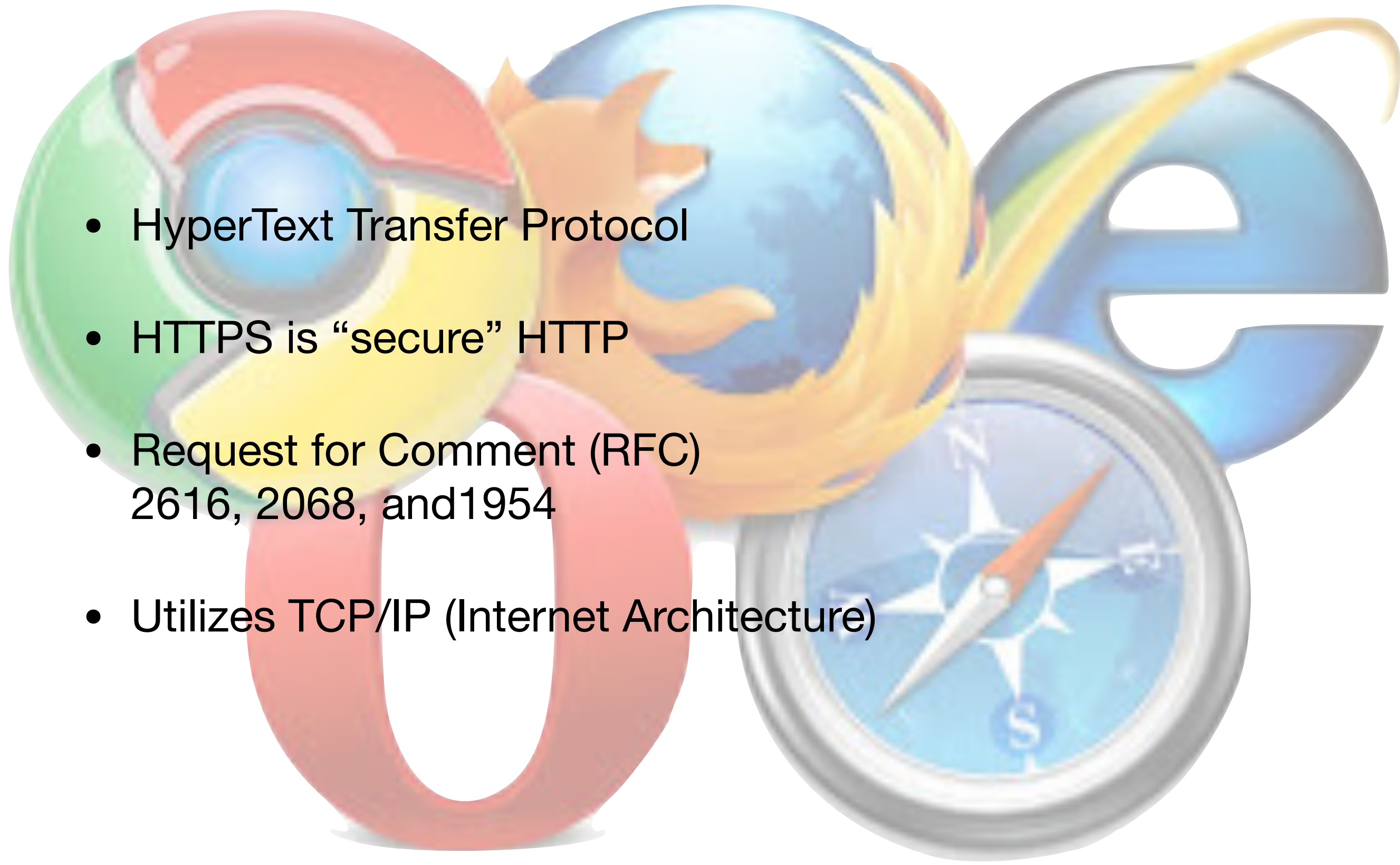
<http://computer.howstuffworks.com/dns.htm>

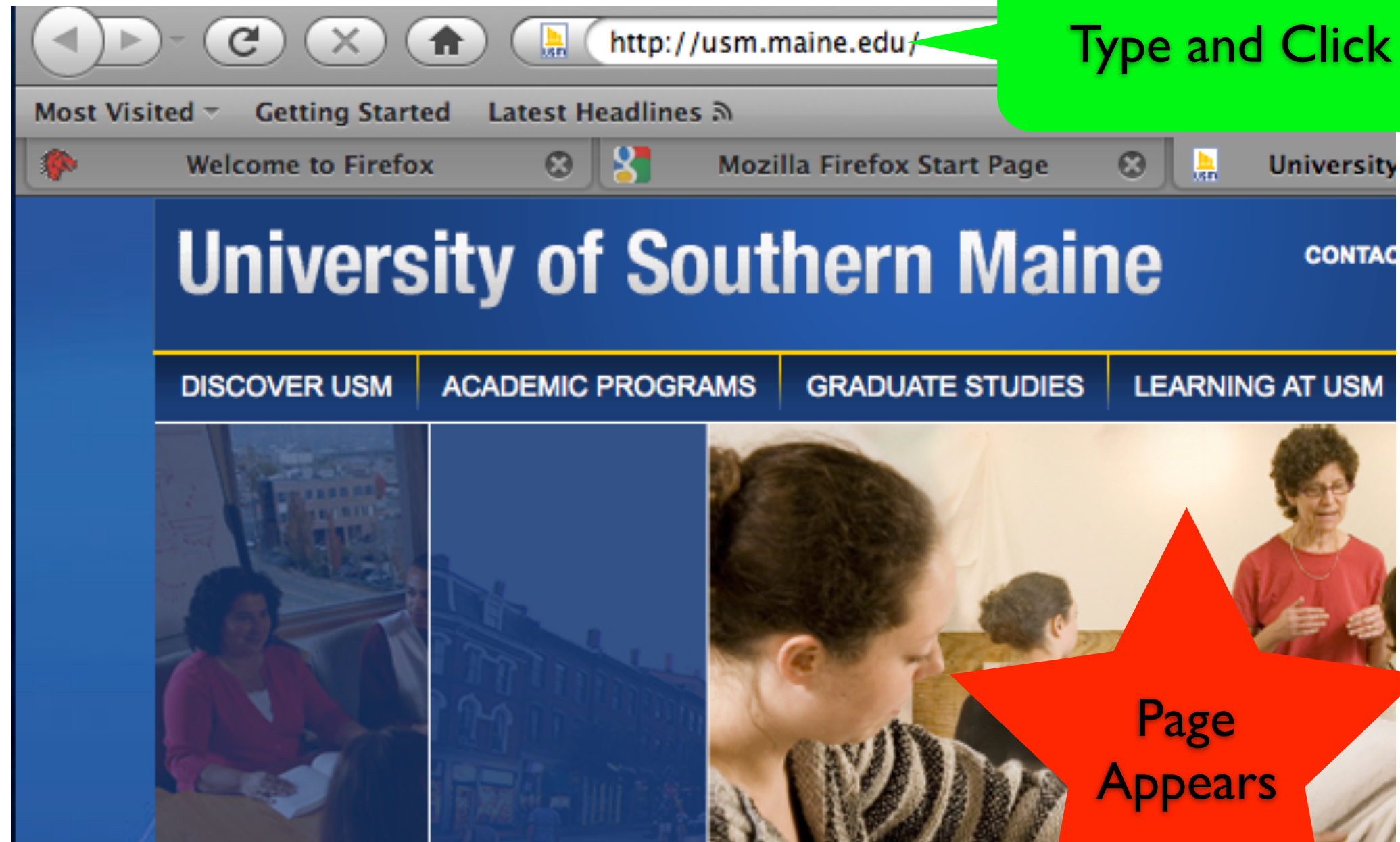
DNS Hierarchy



Example: HTTP

- HyperText Transfer Protocol
- HTTPS is “secure” HTTP
- Request for Comment (RFC)
2616, 2068, and 1954
- Utilizes TCP/IP (Internet Architecture)





How does this work?

HTTP

Type and Click
GET /index.html
HTTP/1.0
User-Agent: Zippo/
0.9
Host:
www.harpo.com:80



Request



HTTP/1.0 200 OK
Date: Fri, 31 Dec 2009
23:0
Content-Type: text/
html

Response

<html>
<body>
...
</html>

Page
Appears

HTTP, TCP

Setup Connection

Request Connection

**Accept/Request
Connection**

**Accept Connection
GET /index.html
HTTP/1.0**

...

HTTP/1.0 200 OK

...

Close Connection

Request Close

Accept/Request Close

Accept Close

HTTP

- HTTP is essentially **file transfer**
- Every bit is important
- Similar to Email, Printing, File Servers...