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COMS 210

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COMS 210 Internet Programming

Ch. 1 Homework

1. What is the difference between the Internet and WWW?

The internet is the network where millions of computers connect while the WWW are billions o pages that can be accessed through the internet.

1. What are some of the most important aspect or features of the Internet?

The most important aspects of the Internet are the following: subnetworks can stand on their own, computers are able to join and leave the network, anyone can create an internet device, lack of centralized control, and anyone can use it.

1. What organization decides on standards for web pages and language?

The organization that decides on web standards is called W3C (World Wide Web Consortium).

1. What features are provided by the Internet Protocol (IP) and what additional features are added by TCP?

The IP provides some features to find your internet and local IP addresses, and then the TCP adds multiplexing, which is a guaranteed message delivery on top of IP.

1. Which of the following are legal IP addresses?
   1. [www.google.com](http://www.google.com) 🡪 172.217.4.36🡪 Valid
   2. 150.135.1.150🡪 Invalid
   3. 123.456.789.10🡪 Invalid
   4. 241.258.17.127🡪 Invalid
   5. 10.0.0.1🡪 Valid
   6. 876.540.9.0🡪 Invalid
2. What is your computer’s public IP address? What is your computer’s private IP address here on the Bethany campus or at home?

Public IPv4 address 🡪 198.160.171.211

Private IP 🡪 10.21.4.68

1. What are the IP addresses of the following sites?
   1. [www.amazon.com](http://www.amazon.com) 🡪 65.8.233.10
   2. [www.microsoft.com](http://www.microsoft.com) 🡪 23.35.205.40
   3. [www.zdnet.com](http://www.zdnet.com) 🡪 107.178.248.185
   4. [www.alhso.org](http://www.alhso.org) 🡪 207.178.159.163
   5. [www.wmpenn.edu](http://www.wmpenn.edu) 🡪 13.89.57.207
2. Name three major web browsers and one major web server in use today. (Major servers should be in the top 4 – 5 statistically in 2020.)

Web Browser🡪 Mozilla Firebox, Apple Safari, Google Chrome

Web server🡪 Apache

1. What would be the correct URL to download the file cairo.js from the folder /bin/bookmark/ on server [www.jasmine.org](http://www.jasmine.org) on port 9010?

<http://www.jasmine.org:9010/bin/bookmark>

1. What is the difference between an HTTP GET and POST request?

GET command means to download the file, and POST command means to send a web form response.

1. What does an HTTP error 403 mean? Why might you see an HTTP error 500.

An HTTP error 403 means that the user is forbidden to access the page. We might see an HTTP error 500 in the case there is an error with internal server.

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