

## Test Your Tech

Navigation is:

- A. Following a series of links to locate specific information on the Web.
- B. Finding your uncle's mountain cabin in dense fog.
- C. Avoiding rush-hour traffic during the World Series.

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## Announcements

- Due by Today
  - Chapters 5-6 in *Fluency*
- Due Tuesday
  - HW2
- Due by Wednesday

## Networking and Client-Server Architecture

*How the Web works....*

## Protocols

- List as many as you can think of....
  - Example—http

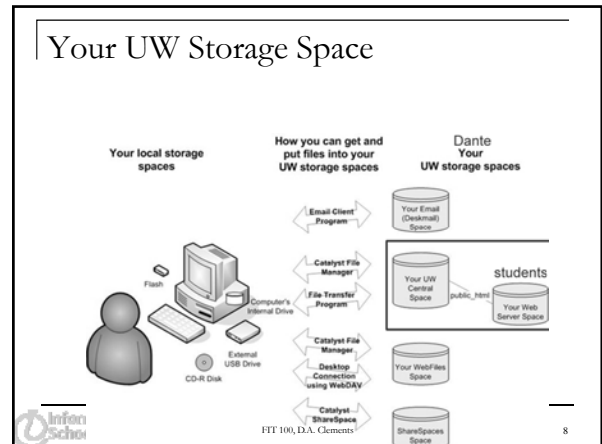
## WWW vs. Internet

- Internet is all the wires, routers, gateways, servers—all using TCP/IP to transfer packets
- Many different protocols use the Internet
  - ftp, email, chat, IM, Skype, VoIP, http

## WWW vs. Internet

- WWW is the part of the Internet that uses the http protocol
  - Web servers and the Web pages they store and serve
  - Web browsers are the clients

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## Your Web Files

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## HTTP

- **HyperText Transfer Protocol**
  - Understands how to interpret URLs
    - Uniform Resource Locators
  - Divides URL into server and pathname

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## HTTP

<a href="http://faculty.washington.edu/daclem/LIS549sp08/index.html">http://faculty.washington.edu/daclem/LIS549sp08/index.html</a>	
<b>PROTOCOL (Web)</b>	

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## HTTP

<a href="http://faculty.washington.edu/daclem/LIS549sp08/index.html">http://faculty.washington.edu/daclem/LIS549sp08/index.html</a>	
<b>PROTOCOL</b>	<b>SERVER</b>

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HTTP

Read Right to Left

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	
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HTTP

Read Right to Left

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	
	1. Domain: edu	

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HTTP

Read Right to Left

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	
	1. Domain: edu	
	2. Subdomain: washington	

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HTTP

Read Right to Left

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	
	1. Domain: edu	
	2. Subdomain: washington	
	3. Server: faculty	

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HTTP

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu	
	2. Subdomain: washington	
	3. Server: faculty	

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HTTP

Read Left to Right

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu	
	2. Subdomain: washington	
	3. Server: faculty	

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HTTP

Read Left to Right

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu 2. Subdomain: washington 3. Server: faculty	4. Account: daclem

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HTTP

Read Left to Right

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu 2. Subdomain: washington 3. Server: faculty	4. Account: daclem 5. Folder: LIS549sp08

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HTTP

Read Left to Right

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu 2. Subdomain: washington 3. Server: faculty	4. Account: daclem 5. Folder: LIS549sp08 6. File: index.html

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HTTP

Read Left to Right

<http://faculty.washington.edu/daclem/LIS549sp08/index.html>

PROTOCOL	SERVER	PATHNAME
	1. Domain: edu 2. Subdomain: washington 3. Server: faculty	4. Account: daclem 5. Folder: LIS549sp08 6. File: index.html

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Finding Server and Pathname

<http://courses.washington.edu/wtcampus/autumn/>

- **Finding the Server:**
  1. Domain: **edu**
  2. Subdomain: **Washington**
  3. Server: **courses**
- **Finding the Pathname:**
  4. Account: **wtcampus**
  5. Directory: **autumn**

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Activity

- Dissecting URLs....

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### SSH Secure File Transfer (SFTP)

- Copy files between two computers
- Use it at home or anywhere



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### Why use SFTP?

Advantages:

- Secure, encrypted transfers
- Remote access from anywhere
- Network space (storage/backup)
  - Dante = 300MB
  - 1 CD-ROM ≈ 700MB
  - 1 DVD ≈
  - Single-sided: 4700GB (4.6GB)
  - Double-sided: 9400GB (9.2GB)

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### What can I connect to?

- UW SFTP Servers
  - dante.u.washington.edu for students
  - homer.u.washington.edu for faculty & staff
- Maybe your own ISP?

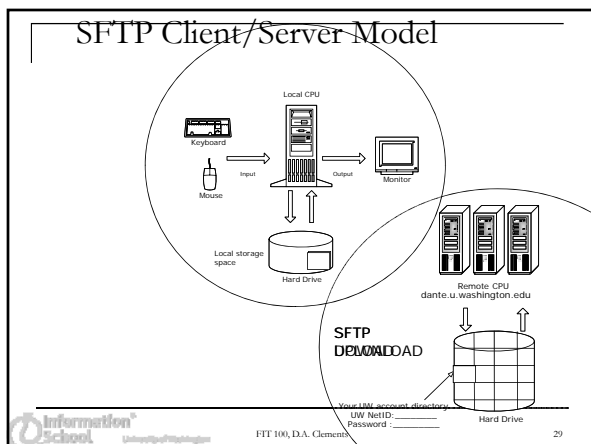
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### SFTP Client/Server Model

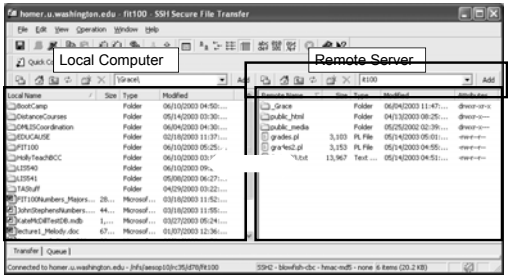
Copy files to a server  
and  
access them from

- Any computer!
- Anywhere!

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### SFTP Interface



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Video

- Warriors of the Net