

FIT 100 What you've accomplished in 3 short days...!

- You understand more about your computer space on Dante, the group of computers with space for student email, files, and web pages
- You have transferred files between a local computer and your remote account storage space using SSH Secure File Transfer.

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□ This is a more secure protocol than regular FTP (File Transfer Protocol)

 FIT 100 Computers come in all shapes and sizes
 The specifics of how computers work will be covered

- later. For now, think of them as having many forms and many names
- □ Embedded processor, ROM, channels to sensors/actuators; think of a microwave, or a newer toaster oven
- Laptop processor, RAM, floppy disk, hard disk, LCD; mobility
- □ **Desk Top** processor, RAM, floppy disk, hard disk, CD, monitor; educational and office work
- Server processors (432), RAM, many hard disks, CD; services
- Supercomputer processors (16-1000), RAM, hard disks: big science

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FIT 100 Class Computers

- ✤ FIT 100 uses Laptop for lectures Desktopsin Labs (MGH, OUGL) Dante Server: holding your computer account for email, web pages, and other files
- * An unconnected computer can only get to data that is stored locally on its hard disk, etc.
- The UW computers are connected (i.e. networked) together. Allows us to send email, transfer files, and access the W W W

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Networking

More than just a social interaction!

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MGH 030

Ethernet









FIT 100 How are Computers Named Physically?

 The physical way to name computers is to use an Internet Protocol address, or IP address

- webct.ischool.washington.edu 128.208.100.153
- ischool.washington.edu 128.208.100.150
- washington.edu (one of many) 140.142.15.163
- The Domain Name System (DNS) associates human readable names with the physical IP addresses for use by the computers and routers of the Internet

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FIT 100 World Wide Web

- The World Wide Web includes all computers, called web servers, that are capable of sending information to your browser (Netscape, IE, etc.)
- In most domains the computer that is the web server is called "www", e.g. www.washington.edu
 However, a web server can have any name ... your web pages will be served by students.washington.edu
- There are different ways (schemes) to connect to these servers
 - Hyper-text transfer protocol, http for web pages
 - File transfer protocol, ftp for moving copies of files
 - The UW now uses sftp, or Secure File Transfer Protocol
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FIT 100 Client/Server Model

- Client
 Any computer that requests information
- Server □ Any computer that provides a service

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FIT 100 What is a Web Browser?

- * An application using the HTTP Protocol
- Allows people to interact and look at all the information on the World Wide Web
- Netscape, Internet Explorer, AOL, Opera all offer graphical user interfaces (GUI's)

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FIT 100 Web Pages

Web pages are just text files containing instructions for your browser on how to lay out (format) the web page

> Web pages can be created with a text editor (like Notepad) Web pages can be created with special tools (like FrontPage or DreamWeaver)

- The instructions for the browser are written in a special language, hyper-text mark-up language, HTML
- You can always take a look at the HTML that is being used to display the web page in a browser by selecting "Source" from the View menu in your browser

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FIT 100 HTML from UW Home page

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.0//EN"
"http://www.w3.org/TR/REC-html40/strict.dtd">

"http://www.w3.org/is/acc diffelp://www.w3.org/is/acc diffelp:
"diffelp."
diffelp."
dif

<BODY BGCOLOR="#FFFFF"> <TABLE BORDER="0" CELLSPACING="0" CELLPADDING="0"> <TR> <TR> <tgst=0span="5"> width="403" height="65" alt="University of Washington">

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FIT Deconstructing a URL http://www.ischool.washington.edu/research/newsletter.htm		
host	=	www (World Wide Web)
subdomain	=	.ischool
domain	=	.washington
TLD	=	.edu (Educational Institution)
path (folder)	=	/research/
file	=	newsletter
extension	=	.htm (hypertext markup language)
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FIT 100 For Friday

- * Read Chapter 3 of the FIT coursepack
- Make sure you have added the course!
- Make sure your Dante services have all been activated

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