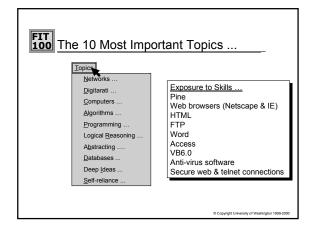
#### Fluency - A Summary of FIT100



Being Fluent With Information Technology requires life long learning. Though FIT100 is only the starting point, we have been exposed to many topics.





- Internet, Local Area Network
- TCP/IP and postcard analogy
- Ethernet and conversation analogy
- \* IP Address, DNS
- \* Hierarchical domain names
- \$ spiff.cs.washington.edu
- \* World Wide Web
- HTML, FTP, http://
- ❖ Physical/logical separation



## What the Digitarati Know

- A human's innate knowledge of technology
- \* The perfect GUI: Mac CD Player
- · Consistent interfaces
- Standard metaphors
- Standard information processing operations
- Clicking Around
- Blazing Away
- Self-reliance Notice how extensively you used this skills with DBs

Go boldly where you have never gone before

Topics

<u>N</u>etworks

Algorithms .

Databases ..

Programming

Logical Reasoning

#### FIT 100 Computer Basics

- \* Fetch/Execute cycle and analogy to Nenana Ice Classic
- · Five components of a computer
- · Memory and container analogy
- \* Machine instructions and the indirect reference to operands
- \* Instruction reference via PC
- · Memory and speed terminology

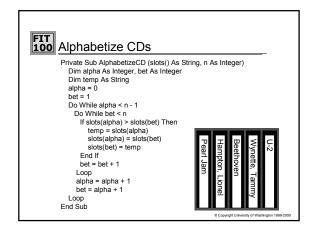
Knowing how computers work it should be obvious why they are always so annoyingly literal-minded!

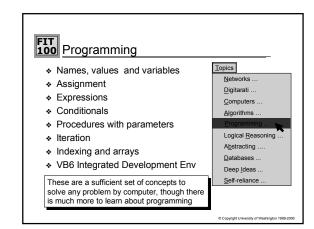


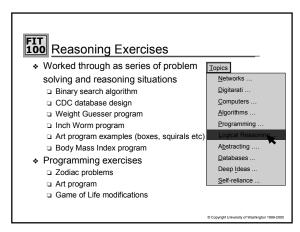
### FIT Algorithmic Thinking

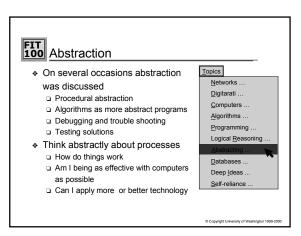
- · Five basic properties of algorithms
  - □ Input Specified ... like procedure formals
  - □ Output Specified ... like procedure results Effectiveness
  - Assured by language □ Definiteness
  - □ Finiteness ... iterations stop
- Alphabetize CD's example
- · Importance of language in being precise
- · Difference between algorithms and programs

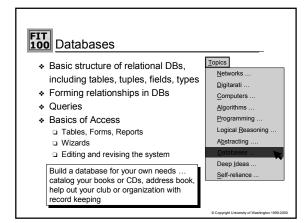


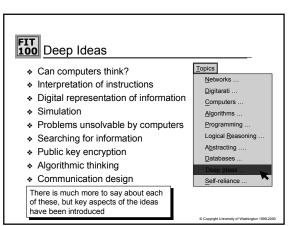














# IT and Social & Ethical Issues

- Politics and the internet
- . E-mail etiquette; flaming
- What is the relation between technology and moral values?
- \* Issues around security; viruses
- Stuff I wish we had time for:

  - Privacy and databases
    Inequitable access to information and production of information
  - □ Copyright and patents in the internet age (Napster anyone?)
  - $\ \ {\color{gray} \square} \ \ {\color{gray} Software entrepreneurship}$



## You're On Your Own

- How to find information
- \* Finding work-arounds to bugs or system incompatibilities
- · Experience with contemporary systems
- Reasoning by analogy and example

FIT100's goal is to initiate you on a livelong learning process, wherein you determine when you need to learn more about IT and then to do so on your own!

