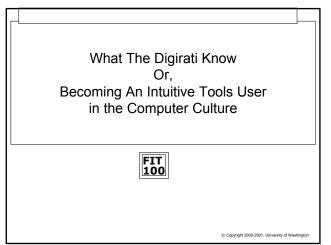
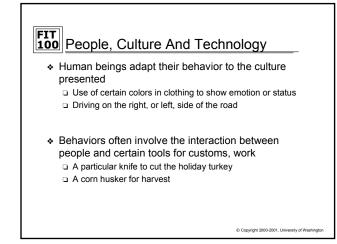


- English as a Universal Language
- Freedom of Speech and Assembly

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FIT 100 People, Culture And Technology

Human beings are natural tool users

- From the first use of animal bones as weapons thousands of years ago to present day - we have been innate tool users
- We invent tools all the time (e.g., using a book to balance a cup of coffee on your lap)
- □ Some tools seem perfectly designed for their purpose
- Complicated tools may require training
 - □ We must be taught how to ride a bicycle, drive a car, ski, ... (of course, some people don't seem to even need that!)
 - Appliances and tools come with an owner's manual

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FIT 100 How Do We Learn in a New Culture?

- By watching others: learning and reasoning why they do as they do
- By analogy with other environments: developing intuitions
- By trying things (and learning from what happens, even mistakes!): accumulating experience

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FIT 100 How Do We Learn to Use Complicated Tools?
By accumulating experience
 By developing intuitions
 By learning, and reasoning, Thus, we can "figure out" how to use some tools without reading the owner's manual (e.g. portable CD player)
 Designers (product or software) try to make technology so simple that members of a technological society can guess its operation using only their experience, intuition, prior knowledge, and reasoning
 Well-designed tools can be said to be "intuitive-use" tools. They play off of the intuition and experience of their audience.
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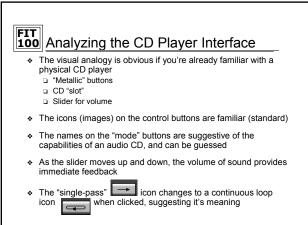
FIT 100 Learning by Analogy

- Most interactive software today uses a Graphic User Interface (GUI), pronounced GOO·ey
- * Consider this GUI interface:



Can you guess what this software does? And how to use it?

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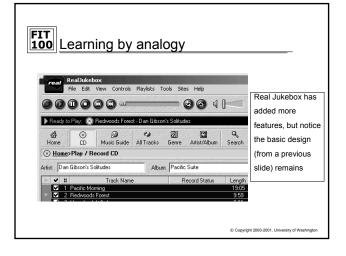
FIT 100 Criteria for Well-designed Interfaces ...

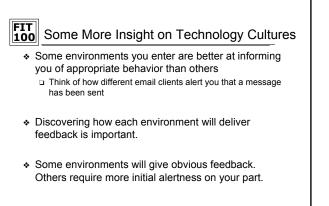
- * Familiarity: reflects relevant non-computer experience
- Well-chosen metaphors and analogies: the metaphors and analogies make sense and suggest important relationships
- Expected functionality: the software does the things one would expect given the task at hand
- * Consistency: the operations work together as whole

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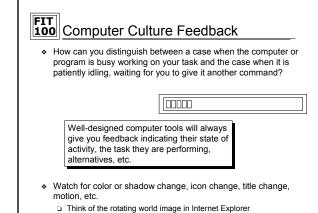
More Criteria... Simplicity: keep it simple; avoid too many features Feedback: let the user know what the machine is doing Transparency: using the tool should not take too much conscious attention, so the user can concentrate on the task at hand Rational defaults: the defaults should reflect what a typical user would want to do

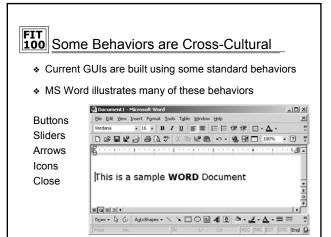
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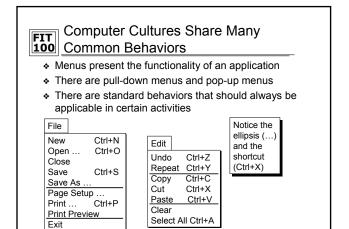




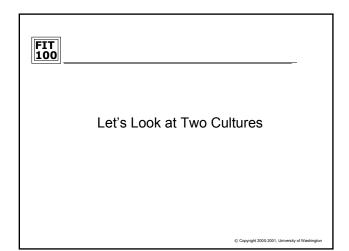
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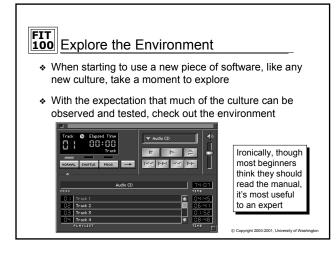






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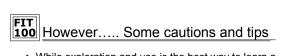




Explore, Experiment, Interact!

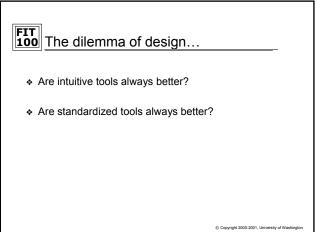
- Fundamental Rule of IT: You can't break the computer unless you drop-kick it out the window!!!!
- The way to learn the operation of an application is to try it out, so EXPLORE!
- Though nothing will break, things can get into a horrendous mess -- beginners and experts alike can really screw up software!
- There is no value in the mess, so it doesn't have to be undone ... Throw the mess away
- Be prepared to throw work out
 - + Work on copies
 - + Don't expect to do it all right the first time, work in stages
 - + Go out, and come back in

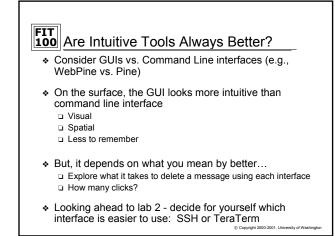
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- While exploration and use is the best way to learn a tool, here are a few good tips:
 - Your motto when working on any application should be: Save early, Save often, and create a backup!
- A "Hard Reboot" solves most problems when the program acts up
 - Start, Shutdown, Power Off, Power On
- Practice safe computing: There is a lot of "buggy" software out there, available free on the Internet and a great many viruses that are sent in email.

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FIT 100 For Friday ✤ Treasure Hunt Due * Reading: Check the website * Keep checking the website for additional information © Copyright 2000-2001, University of Washingto