What’s in Your Computer?

An Instructional Module on Replacing Your Legacy Windows Operating System

http://ltec690.wix.com/linux-mint17

Dal Wong – TCC 2015
Aloha!

• Dal Wong
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Background

- **Systems Support Representative**
- Hawaii and Pacific based clients
- Database and web servers, user workstations
Presentation

- Project introduction
- Project planning process
- Literature Review
- Design tools for module development
- Module
- Future Development
- Summary
- Questions
Viewer Poll

What type of computer system do you primarily use?

a. Linux
b. Chrome OS
c. Windows
d. OS X
e. Other
Viewer Poll

Have you ever installed software on your computer?

a. Yes
b. No
c. Don’t know
Instructional design module on installing and converting a computer operating system

Objectives:

- Introduce alternative operating system to legacy Windows operating system users
- Teach new operating system installation
- Extend the life of older computers
Project Planning Process

• Choose topic
• Literature review
• Consider audience
Project Planning Process

- Decide on format
- Select software
- Develop module
Audience Influences Design Choices

- Students in University of Hawaii Outreach College
- Adults returning to school
- Typically older population – not undergrads
- Possibly have older computer equipment
Educational Concepts

• Visual presentation and audio narration (Swann, 2014)
• Self paced (Brody, Chan, & Caputi, 2010)
Educational Concepts

- Account for different learning styles
- Visual
- Audio
- No time limit
Design Tools

- Wix to develop module
Design Tools

• Google Forms integrated into Wix
• User self assessment
Design Tools

- Audacity
- Creating MP3 narration files with Audacity and integrating into Wix
Design Tools

- PowerPoint and LibreOffice Impress
- Create Portable Network Graphics (.png) images and embed into Wix
What Didn’t Work

• Blendspace

• Schoology
Website Tour

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Site Navigation

What’s in Your Computer?

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There are five lessons in this module. Take your time in completing them. Each lesson consist of multiple slides. Please scroll down the page to view the entire lesson. Audio tracks may be replayed by clicking on the audio play button 🔊. After you complete the lessons there will be a short quiz and a post-survey. Thank you for participating in...
Lesson 1 Introduction

- Rapid technology changes hasten the introduction of new hardware products resulting in aging hardware with an unsupported operating system.
- New hardware may be good to have, better performing, and costly.
- Newer may not always be better.
- Older hardware can be kept in service longer.
- Train users to extend the life and efficiency of aging computer hardware by replacing an old operating system with a contemporary, easy-to-use operating system.
- User friendly and environmentally friendly.
Module Objectives

Objectives

- Windows XP background
- Linux background
- Computer terminology
- Configure a computer with Linux Mint operating system and install productivity applications

Click to play audio.

GIMP
Audacity
LibreOffice
Glossary

Computer Terminology

- Torrent - Computer file used to initiate download of specific files from other computer repositories using a bit-torrent system
- RAM - Random Access Memory
- Hard Drive - Device for storing data on a computer
- CD - Compact Disc, removable media used for data storage
- DVD - Digital Video Disc, removable media used for data storage, higher capacity than CD
- Flash drive - Data storage device available in various capacities (thumb drive)
- BIOS - Basic Input/Output System (contains startup instructions for computer)
Win XP Background

Windows XP Background

- Windows XP released in 2001 by Microsoft Corporation
- Support ended in 2014 - No technical updates, no security updates
- Still in use on many older computers
- One of the most popular operating systems
- Closed source, commercial software (paid licensing fees)
- XP runs well on older hardware from the early and mid 2000's
- This older hardware may not be capable of running Windows 7 and Windows 8
Linux Background

- First developed in 1991 by Linus Torvalds for a graduate student project as a free operating system for the Intel x86-based personal computers.
- Linux is free and open source - the source code may be used, modified, and distributed by anyone under the GNU General Public License.
- Linux facts:
  - There are many distributions of Linux - Linux Mint is one of them.
  - Linux powers many of the world's fastest super computers.
  - Other variations of Linux run on embedded systems such as tablets, phones, and video game consoles.
- Linux is free of cost.
- Linux is safe and reliable: easy software updates, requires minimal maintenance (no anti-virus).
Installation Instructions

Booting and Installing Linux Mint

- Let's run through a typical Linux Mint installation...
- Insure your files are backed up frequently, and definitely before making changes or installing any software. The boot installation will run from the DVD but a complete installation will overwrite your hard drive.
- Insert DVD into drive
- Linux will boot from the DVD
Step-by-step Instructions

To begin the Linux Mint download go to the website at www.linuxmint.com. Select the Download tab or the CD icon.

www.linuxmint.com
To create the iso DVD open the DVD burning utility on your computer and select the “Burn image” function. Do not select “Disc copy” as this function does not insure that all the file codes are transferred properly.
Linux Software Manager

Linux Software Manager has over 40,000 software packages available for web browsers, audio and video utilities, graphics, office productivity, games, and more. All packages are available with every distribution of Linux, and because they are all Free and Open Source Software there are no licensing fees.
Testing Knowledge

• End of module test
• Self assessment
• Understanding of software upgrade procedures
Recommendations for Future Development

- Incorporate testing feedback for online confirmation
- Streamline lesson flow
- Continued product improvement
Summary

• Intro to software modification
• Reinforce Learning
  • Hands-on training sessions
  • Individual computers for participants for practice
  • Pre-configured Linux Mint computers for familiarization
Thank You!

- Dr. Irvine, LTEC Faculty and Staff
- Critical Friends: Dave and Ken
- LTEC 690 – Spring 2015
- Participants
Questions?

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