

Chapter 13:

Intellectual Property Rights, Ethics, Health, Access, and the Environment



# **Intellectual Property Rights**

- Intellectual Property Rights
  - Rights to which creators of original creative works are entitled
    - Who has the right to use, perform, or display a creative work
    - How long the creator retains rights to the property
      - Music, movies, paintings, books of art and poetry, etc.

Protections => Copyrights, Trademarks, Patents, Trade Secrets (not in text), DRM Software, Digital Watermarks, Other Legislation



# Copyrights

### Copyrights

- Protection available to the creator artistic or literary works
- Lasts 70 years after creator's death
- Corporate copyrights/anonymous works, lasts 95 years from date of publication or 120 years from date of creation, whichever is shorter
- Can be registered with U.S. Copyright Office

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#### BOOK COPYRIGHT NOTICES

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WEB SITE COPYRIGHT NOTICES

FIGURE 16-1 Copyright

statements.



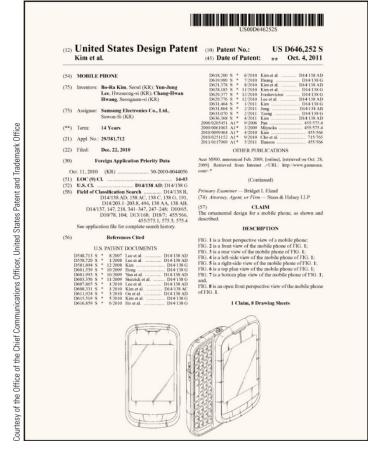
### **Trademarks**

- Trademarks
  - Word, phrase, symbol, or design that identifies goods or services
    - Trademark that identifies service => service mark service marks not registered may use the sm mark
    - Trademarks claimed but not registered use the ™ mark
    - Registered trademarks use the ® mark
    - Includes protection for domain names
      - Cybersquatting and typosquatting
    - Domain name disputes can be brought to the World Intellectual Property Organization (WIPO)



### **Patents**

- Patents
  - Protect inventions
  - Last for 20 years
  - Can also protect a business practice or procedure
    - Priceline.com's name-yourown-price
    - Amazon.com's one-click purchase
  - Expensive and difficult to obtain but can be very lucrative



#### FIGURE 16-4

Patents. The patent shown here is for a new mobile phone.



## Trade Secret (not in text)

- Trade secrets are intellectual property
  - May be formulas, practices, processes, designs, instruments, etc.
  - Not generally known to the public
  - Has economic benefit
  - Holder makes efforts to maintain secrecy



### Extra Protections

- Protections
  - Digital Watermarks
    - Subtle alteration of digital content
      - not noticeable
      - identifies the copyright holder
  - Digital Rights Management (DRM) Software
    - Protects and manages the rights of creators of digital content such as art, music, photographs, movies
    - Limits who can view, print, or copy a document
    - Control use of downloaded content
      - number of devices a file can be copied to
      - expiration of video-on-demand movie, etc.



## Ethics – Definition/Classifications

#### Ethics

- Overall standards of moral conduct
- Vary with individual and religious beliefs, country, race, or culture
- Personal Ethics
  - Guide an individual's personal behavior
- Business Ethics
  - Guide a business's policies, decisions, and actions
- Computer Ethics
  - Concern moral conduct related to computer use
- Ethical legislation is difficult to pass
  - The 1998 amendment to Section 508 of the Rehabilitation Act requires federal agency information be accessible to persons with disabilities

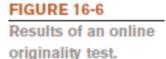


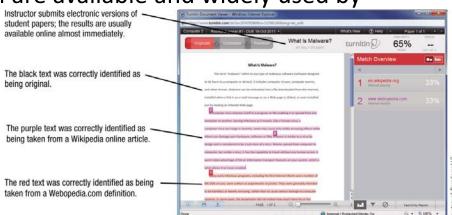
## Personal Ethical Use

- Ethical Use of Copyrighted Material
  - EULAs
  - Academic Integrity
    - Books and Web-based articles
    - Need to properly credit sources to avoid plagiarism
    - Strict consequences for plagiarism

Online tests for plagiarism are available and widely used by

schools







# Resume Padding

- Résumé padding is considered unethical by most companies
  - Many companies will terminate employees who were hired based on falsified résumés or applications
  - Other possible consequences include blacklisting from a industry or being sued for breach of contract



## Resources – Ethical Use

- Ethical Use of Resources and Information
  - EULAs
  - Ethical Use of School/Company Resources
    - Code of Conduct
      - Policy that specifies allowable use of resources by students or employees
      - Students and employees should be familiar with what is considered acceptable
    - Code of Ethics
      - Policy, typically for an industry or organization, that specifies overall moral guidelines adopted by that industry or organization
    - Whistleblowers have some protection under the law



### Music

#### Music

- Debate began with Napster
  - DRM controls can impact downloaded files, purchased CDs, etc.
- Concerns still exist about P2P file sharing sites
  - Downloading a music file from a P2P site without compensating the artist and record label is violation of the copyright law and an unethical act



## Movies, Ebooks, Software

#### Movies

- Piracy is high (illegal copies, recording pre-release movies to create DVDs, etc.)
- Distributing bootleg copies of is illegal and unethical
  - Often happens via the Internet
  - FBI Anti-Piracy Seal is used with movie DVDs, music
     CDs, and other intellectual properties commonly pirated

FIGURE 16-8
The FBI Anti-Piracy
Warning seal.

FBI Anti-Piracy Warning: Unauthorized copying is punishable under federal law.





## Digitial Rights Management (DRM)

- DRM controls are found on many legally downloaded files.
  - Can prevent file from being copied to another medium
  - Can allow file to be used only for a specified period of time
- MPAA (Motion Picture Association of America) recently began pursuing civil litigation for copyright violations for against movie pirates
  - Mainly goes after those who create illegal DVDs
  - Also pursues people sharing movies illegally on the Internet



# Digital Manipulation

- Digital Manipulation
  - Digitally altering text, images, photographs, music, and other digital content
    - Copyright concern
    - Can be used to misquote people, repeat comments out of context, create false or misleading photographs
  - Some beneficial ethical uses (aging photos of runaways and missing children, altering photos of wanted criminals, etc.)
  - Use by media is more controversial
- Recommend exploration of YouTube DeepFake videos



# **Business Ethics & Reporting**

- Ethical Business Practices and Decision Making
  - Fraudulent Reporting and Other Scandalous Activities
    - Sarbanes-Oxley Act of 2002
      - Includes provisions to improve the quality of financial reporting, independent audits, and accounting services for public companies
  - Ethically Questionable Products or Services
    - Decisions regarding selling products or services some individuals find objectionable
    - How, if at all, should businesses that allow users to upload content to their Web sites monitor the content posted
- Additional legislation to protect intellectual property rights, such as:
  - Family Entertainment and Copyright Act of 2005 (FECA)
  - U.S. Anticybersquatting Consumer Protection Act
  - Digital Millennium Copyright Act (DMCA)
    - Protects Website content



## **Ethics**

- Censoring & Misinformation
- Workplace Monitoring
  - Inform employees of the types of monitoring that may occur
  - Especially in countries other than the United States



### **Cultural Ethics**

#### Cultural Considerations

 Ethics vary within a country as well as from country to country

- Some acts may be socially acceptable or ethical in one country but not another
- Laws also vary from country to country
- Individuals and businesses need to consider both legal and ethical issues in global transactions
- Some business schools and corporations are including diversity and cross-cultural training

#### **FIGURE 16-14**

### Cultural considerations.

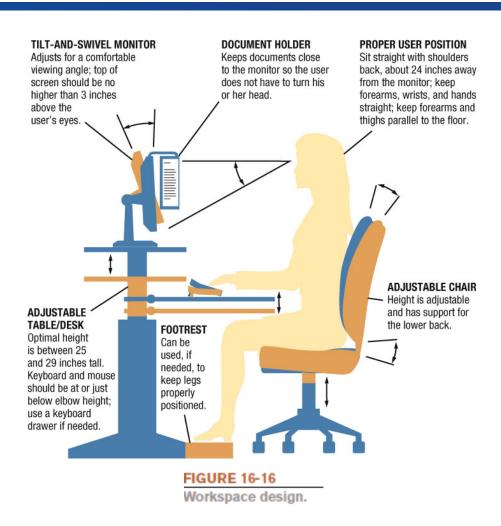
In some countries, bootleg copies of music CDs and movie DVDs are sold openly, such as this DVD seen recently at a store in China.





# Computers and Health

- What is Ergonomics?
  - The science of fitting a work environment to the people who work there
  - Using good workspace design principles can help avoid physical problems





# Physical Health

- Physical Health
  - Computer use can cause physical injuries
    - Computer vision syndrome (CVS)
    - Eyestrain
    - Blurred vision
    - Fatigue
    - Headaches
    - Back, wrist and finger pain
  - Repetitive Stress Injury (RSI)
    - Carpal tunnel syndrome (CTS) (keyboard use)
    - DeQuervain's tendonitis (mobile device keyboard and thumbpad use)



### **Emotional Health**

- Emotional Health
  - Stress of Ever-Changing Technology
    - Knowledge of and ability to use technology is becoming a necessity in many jobs
    - Technology changes at a rapid pace
    - Workers must regularly learn new skills which can create stress for many individuals
    - 24/7/365 expectations
    - Internet and Technology Addiction



# Access to Technology

- The Digital Divide
  - The gap between those who have access to technology and those who don't
- Assistive Technology
  - Hardware and software designed for use by individuals with physical disabilities
  - American with Disabilities Act



## Technology Acceptance Model (TAM)

- Assessing Accessibility/Assistive Tech/etc.
- Perceived Ease of Use (PEU)
  - If it is easy/straightforward, users will adopt and use
  - E.g. iPad
- Perceived Usefulness (PU)
  - If it is useful, certain users will adopt regardless of PEU
  - CAD has steep learning curve but professionals will learn and adopt



# Green Computing - Power

- Energy Consumption and Conservation
  - Power consumption and heat generation by computers are key concerns for businesses
    - More powerful computers use more energy and run hotter, which makes increases cooling costs
    - Servers are especially power-hungry
  - Energy-saving tactics
    - Consolidating servers
    - Powering down computers when not in use
    - Using desktop virtualization
    - Using cloud computing
  - Proper recycling is essential
    - Think security when disposing



## Summary

- Intellectual Property Rights
- Ethics
- Computers and Health
- Access to Technology
- Environmental Concerns
- Related Legislation