Chapter 4: Intellectual Property
Chapter Overview (1/2)

- Introduction
- Intellectual property rights
- Protecting intellectual property
- Fair use
- New restrictions on use
Chapter Overview (2/2)

- Peer-to-peer networks and cyberlockers
- Protections for software
- Open-source software
- Legitimacy of intellectual property protection for software
- Creative Commons
4.1 Introduction
Information Technology Changing Intellectual Property Landscape

- Value of intellectual properties much greater than value of media
  - Creating first copy is costly
  - Duplicates cost almost nothing
- Illegal copying pervasive
  - Internet allows copies to spread quickly and widely
- In light of advances in information technology, how should we treat intellectual property?
Tired of being treated like a criminal for sharing music online?

You're in good company. Over 60 million other music fans use peer-to-peer programs like Kazaa and Morpheus to share their favorite tunes. Yet the record labels are bullying ISPs and hunting down college kids in an effort to shut down file sharing.

Isn't it time for a new approach? The Electronic Frontier Foundation thinks so. We believe the answer lies in a model that fairly compensates artists while supporting music lovers. Join EFF today so the music can play on.

File-Sharing: It's Music to our Ears

Stand up for your right to share the music you love! Join EFF today at www.eff.org/share.
4.2 Intellectual Property Rights
What Is Intellectual Property?

- Intellectual property: any unique product of the human intellect that has commercial value
  - Books, songs, movies
  - Paintings, drawings
  - Inventions, chemical formulas, computer programs
- Intellectual property ≠ physical manifestation
- Does right to own property extend to intellectual property?
Property Rights

• Locke: *The Second Treatise of Government*

• People have a right…
  – to property in their own person
  – to their own labor
  – to things which they remove from Nature through their labor

• As long as…
  – nobody claims more property than they can use
  – after someone removes something from common state, there is plenty left over
Locke’s Notion of Property Rights
Expanding the Argument to Intellectual Property

- Writing a play akin to making a belt buckle
- Belt buckle
  - Mine ore
  - Smelt it down
  - Cast it
- Writing a play
  - “Mine” words from English language
  - “Smelt” them into prose
  - “Cast” them into a complete play
Analogy Is Imperfect

• If Ben Jonson and William Shakespeare simultaneously write down *Hamlet*, who owns it?
• If Ben “steals” the play from Will, both have it
• These paradoxes weaken the argument for a natural right to intellectual property
Benefits of Intellectual Property Protection

• Some people are altruistic; some are not
• Allure of wealth can be an incentive for speculative work
• Authors of U.S. Constitution recognized benefits to *limited* intellectual property protection
Limits to Intellectual Property Protection

- Giving creators rights to their inventions stimulates creativity
- Society benefits most when inventions in public domain
- Congress has struck compromise by giving authors and inventors rights for a limited time
# Prices Fall When Works Become Public Domain

<table>
<thead>
<tr>
<th>Artist</th>
<th>Work</th>
<th>Previous Rental Fee</th>
<th>Year Became Public Domain</th>
<th>Purchase Price</th>
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<tbody>
<tr>
<td>Ravel</td>
<td>Daphnis et Chloe Suite no. 1</td>
<td>$450.00</td>
<td>1987</td>
<td>$155.00</td>
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<td>Ravel</td>
<td>Mother Goose Suite</td>
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<tr>
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<td>Griffes</td>
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<td>1993</td>
<td>42.00</td>
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<td>Puccini</td>
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<td>252.00</td>
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<td>Fountains of Rome</td>
<td>441.00</td>
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<td>Elgar</td>
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<td>Holst</td>
<td>The Planets</td>
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<td>Ravel</td>
<td>Alborada Del Gracioso</td>
<td>360.00</td>
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</table>

Table from “Letter to The Honorable Senator Spencer Abraham,” by Randolph P. Luck from LUCK’S MUSIC LIBRARY. Copyright © 1996 by Randolph P. Luck. Reprinted with permission.
4.3 Protecting Intellectual Property
Trade Secret

- Confidential piece of intellectual property that gives company a competitive advantage
- Never expires
- Not appropriate for all intellectual properties
- Reverse engineering allowed
- May be compromised when employees leave firm
Trademark, Service Mark

- Trademark: Identifies goods
- Service mark: Identifies services
- Company can establish a “brand name”
- Does not expire
- If brand name becomes common noun, trademark may be lost
- Companies advertise to protect their trademarks
- Companies also protect trademarks by contacting those who misuse them
If a trademark is misused it could come undone.

If you didn’t know zipper was a trademark, don’t worry, it’s not. But it used to be. It was lost because people misused the name. And the same could happen to ours, Xerox. Please help us ensure it doesn’t. Use Xerox only as an adjective to identify our products and services, such as Xerox copiers, not a verb, “to Xerox,” or a noun, “Xeroxes.” Something to keep in mind that will help us keep it together.

xerox.com

Ready For Real Business xerox

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Patent

- A public document that provides detailed description of invention
- Provides owner with exclusive right to the invention
- Owner can prevent others from making, using, or selling invention for 20 years
Copyright

• Provides owner of an original work five rights
  – Reproduction
  – Distribution
  – Public display
  – Public performance
  – Production of derivative works
• Copyright-related industries represent 6% of U.S. gross domestic product (> $900 billion/yr)
• Copyright protection has expanded greatly since 1790
Thought for the Day:

If you go around all morning with a song you can't get out of your head, do you owe ASCAP royalties?
Key Court Cases and Legislation

- *Gershwin Publishing v. Columbia Artists*
- *Basic Books v. Kinko’s Graphics*
- Davey Jones Locker
- No Electronic Theft Act
Copyright Creep

![Diagram showing the progression of copyright protection over time.](image)
Copyright Creep

- Since 1790, protection for books extended from 28 years to 95 years or more
- Some say latest extension done to prevent Disney characters from becoming public domain
- Group of petitioners challenged the Copyright Term Extension Act of 1998, arguing Congress exceeded Constitutional power
- U.S. Supreme Court ruling
  - CTEA does not create perpetual copyrights
  - CTEA is constitutional
4.4 Fair Use
Fair Use Concept

• Sometimes legal to reproduce a copyrighted work without permission
• Courts consider four factors
  – Purpose and character of use
  – Nature of work
  – Amount of work being copied
  – Affect on market for work
Sony v. Universal City Studios

- Sony introduced Betamax VCR (1975)
- People started time shifting TV shows
- Movie studios sued Sony for copyright infringements
- U.S. Supreme Court ruled (5-4) that time shifting is fair use
Time Shifting
Digital Recording Technology

• Copying from vinyl records to cassette tapes introduced hiss and distortions
• Introduction of compact disc a boon for music industry
  – Cheaper to produce than vinyl records
  – Higher quality
  – Higher price $\Rightarrow$ higher profits
• BUT it’s possible to make a perfect copy of a CD
Audio Home Recording Act of 1992

- Protects rights of consumers to make copies of analog or digital recordings for personal, noncommercial use
  - Backup copy
  - Give to family member
- Digital audio recorders must incorporate Serial Copyright Management System (SCMS), so consumers can’t make a copy of a copy
RIAA v. Diamond Multimedia

- MP3 compression allowed songs to be stored in 10% of the space, with little degradation
- Diamond introduced Rio MP3 player (1998)
- People started space shifting their music
- RIAA started legal action against Diamond for violation of the Audio Home Recording Act
- U.S. Court of Appeals, 9th Circuit, affirmed that space shifting is consistent with copyright law
Space Shifting

Diagram showing the concept of space shifting.

- **Fair Use**:
  - Your stereo
  - Copy
  - Original
  - Your portable player
  - Backup

- **Not Fair Use**:
  - Your friend’s stereo
  - Copy

This diagram illustrates the differences between fair use and not fair use in the context of space shifting.
Kelly v. Arriba Soft

- Kelly: Photographer maintained Web site with copyrighted photos
- Arriba Soft: Created search engine that returned thumbnail images
- Kelly sued Arriba Soft for copyright infringement
- U.S. Court of Appeals, 9th Circuit, affirmed that it was fair use
Google Books

• Google announced plan to scan millions of books held by several huge libraries, creating searchable database of all words
• If public domain book, system returns PDF
• If under copyright, user can see a few sentences; system provides links to libraries and online booksellers
• Authors Guild and publishers sued Google for copyright infringement (copying books for commercial reasons)
• Out-of-court settlement reached
Benefits of Proposed Settlement

- Google would pay $125 million to resolve legal claims of authors and publishers and establish Book Rights Registry
- Readers would have much easier access to out-of-print books at U.S. public libraries and university libraries
- University libraries could purchase subscriptions giving their students access to collections of some of world’s greatest libraries
- Authors and publishers would receive payments earned from online access of their books, plus share of advertising revenues
Criticisms of Proposed Settlement

• Google should have gone to court
  – Google had a good case that its use was a fair use, based on precedent of *Kelly v. Arriba Soft*
  – If Google had been found not guilty of copyright infringement, it could have given public access to books at lower rates

• Agreement gives Google a virtual monopoly over orphaned works

• Potential chilling effect of Google tracking the pages that people are viewing
Court Rejects Proposed Settlement

• March 2011: U.S. District Court for Southern District of New York rejected proposed settlement

• Judge ruled agreement would have:
  – Given Google significant advantage over competitors
  – Rewarded Google for “wholesale copying of copyrighted words without permission”
  – Given Google liberal rights over orphaned works
4.5 New Restrictions on Use
Counterfeit CDs = Lost Profits
Digital Millennium Copyright Act

- First big revision of copyright law since 1976
- Brought U.S. into compliance with Europe
- Extended length of copyright
- Extended copyright protection to music broadcast over Internet
- Made it illegal for anyone to
  - Circumvent encryption schemes placed on digital media
  - Circumvent copy controls, even for fair use purposes
Digital Rights Management

• Actions owners of intellectual property in digital form take to protect their rights

• Approaches
  – Encrypt digital content
  – Mark digital content so devices can recognize content as copy-protected
Secure Digital Music Initiative

- **Goals**
  - Create copy-protected CDs
  - Secure digital music downloads

- **Consortium of 200 companies developed “digital watermarking” scheme**

- **Failed**
  - Internet copying became huge before SDMI ready
  - Some SDMI sponsors were electronics companies
  - Digital watermarking encryption cracked
Sony BMG Music Entertainment Rootkit

- Millions of audio CDs shipped with Extended Copy Protection, a DRM system
- Prevented users from
  - Ripping audio tracks into MP3 format
  - Making more than 3 backup copies
- Relied upon Windows “rootkit” that hid files and processes; usually only hackers use rootkits
- Huge public outcry once secret uncovered
- Sony BMG stopped production and compensated consumers
Encrypting DVDs

- Contents of DVDs encrypted using Content Scramble System (CSS)
- Need decryption keys to view a DVD
- Jon Johansen wrote a decryption program for Linux
- *2600 Magazine* published the code
- Motion picture studios sued *2600 Magazine* and won
- Johansen tried in Norway and found not guilty
Foiling HD-DVD Encryption

- Hardware, software, and entertainment companies created Advanced Access Content System to encrypt HD-DVDs
- Encryption key posted on Digg.com
- AACS leaned on Digg.com to censor postings containing key
- Digg users fought back
- AACS “expired” the key and issued a new one
- A month later, a Digg user posted the new key
Criticisms of Digital Rights Management

- Any technological “fix” is bound to fail
- DRM undermines fair use
- DRM could reduce competition
- Some schemes make anonymous access impossible
Online Music Stores Employed Digital Rights Management

• When iTunes Music Store opened, all music was protected with a DRM scheme called FairPlay
• FairPlay blocked users from freely exchanging purchased music
  – Songs couldn’t be played on more than 5 different computers
  – Songs couldn’t be copied onto CDs more than 7 times
• Songs purchased from iTunes Store wouldn’t play on non-Apple devices
• DRM-protected music purchased from other online retailers couldn’t be played on iPod
Online Music Stores Drop Digital Rights Management

- Consumers complained about restrictions associated with DRM
- European governments put pressure on Apple to license FairPlay or stop using DRM
- Amazon reached an agreement with all four major music labels to sell DRM-free music
- Apple followed suit in 2009
Microsoft Xbox One

- Microsoft announced cloud-based gaming experience for Xbox One (June 2013)
  - User could play any game without disc in tray
  - Automatic software updates of every Xbox One

- Controversial features of licensing arrangement
  - Disc could be shared only once
  - Second-hand market restricted
  - Xbox consoles would have to check in every 24 hours

- Microsoft backtracked
  - No need to connect to Internet
  - Freedom to lend, rent, buy, sell discs
  - Disc must be in tray to play game
4.6 Peer-to-Peer Networks and Cyberlockers
Peer-to-Peer Networks

• Peer-to-peer network
  – Transient network
  – Connects computers running same networking program
  – Computers can access files stored on each other’s hard drives

• How P2P networks facilitate data exchange
  – Give each user access to data stored in many other computers
  – Support simultaneous file transfers among arbitrary pairs of computers
  – Allow users to identify systems with faster file exchange speeds
A Peer-to-Peer Network
Cyberlockers

- Also called file-hosting services or cloud storage services
- Internet-based file-sharing services
- Allow users to upload and download password-protected files
- Support workgroup collaboration
- Make sharing of copyrighted material easy
Napster

- Peer-to-peer music exchange network
- Began operation in 1999
- Sued by RIAA for copyright violations
- Courts ruled in favor of RIAA
- Went off-line in July 2001
- Re-emerged in 2003 as a subscription music service
FastTrack

- Second-generation peer-to-peer network technology
- Used by KaZaA and Grokster
- Distributes index among large number of “supernodes”
- Cannot be shut down as easily as Napster
Comparing Napster and FastTrack
BitTorrent

- Broadband connections: download much faster than upload
- BitTorrent speeds downloading
  - Files broken into pieces
  - Different pieces downloaded from different computers
- Used for downloading large files
  - Computer programs
  - Television shows
  - Movies
Concept Behind BitTorrent
RIAА Lawsuits

• April 2003: RIAА warned file swappers they could face legal penalties
• RIAА subpoenaed Verizon for identities of people suspected of running supernodes
• Judge ruled in favor of Verizon
• September 2003: RIAА sued 261 individuals
• December 2003: U.S. Court of Appeals ruled Verizon did not have to give customer names to RIAА
Huge Jury Judgments Overturned

- Jammie Thomas-Rassert
  - Federal jury ordered her to pay $1.92 million
  - Damages reduced to $54,000
- Joel Tenenbaum
  - Jury ordered him to pay $675,000
  - Judge reduced award to $67,500
- Does RIAA have to prove someone actually copied the songs that people made available on Kazaa?
  - New York decision: No
  - Massachusetts, Arizona decisions: Yes
MGM v. Grokster

- Entertainment industry interests sued Grokster and StreamCast for the copyright infringements of their users

- Lower courts
  - Ruled in favor of Grokster and StreamCast
  - Cited Sony v. Universal City Studios as a precedent

- U.S. Supreme Court
  - Reversed the lower court ruling in June 2005
  - Proper precedent Gershwin Publishing v. Columbia Artists
Legal Action Against The Pirate Bay

- The Pirate Bay started in Stockholm, Sweden
- One of world’s biggest BitTorrent file-sharing sites
- People download songs, movies, TV shows, etc.
- After 2006 raid by police, popularity increased
- In 2008 the International Federation of the Phonographic Industry sued four individuals connected with site
- Defendants said The Pirate Bay just a search engine
- Found guilty; sentence to prison and fined $6.5 million
- Meanwhile, The Pirate Bay still operational
- More than 150 proxy servers all over the world
PRO-IP Act

- Gives federal law enforcement agencies right to seize domain names of sites facilitating copyright infringement
- Operation In Our Sites (2010)
  - Seized domain names of 10 Web sites making available full-run movies
  - Seized several hundred more domain names over next 1 ½ years
Megaupload Shutdown

- Megaupload a prominent cyberlocker
  - More than 180 million registered users
  - Once world’s 13th most popular Web site
  - Source of movies, TV shows, songs, games
- FBI used PRO-IP Act to shut down Megaupload (January 2012)
- FileSonic and FileServe responded by disabling sharing functionality
Legal Music Services on the Internet

- Subscription services for legal downloading
- Some based on monthly fee; some free
- Consumers pay for each download
- Apple’s iTunes Music Store leading service, surpassing WalMart as top music retailer in United States
- Still, illegal downloading far more popular than legal music services
4.7 Protections for Software
Software Copyrights

• Copyright protection began 1964
• What gets copyrighted?
  – Expression of idea, not idea itself
  – Object program, not source program
• Companies treat source code as a trade secret
Violations of Software Copyrights

• Copying a program to give or sell to someone else
• Preloading a program onto the hard disk of a computer being sold
• Distributing a program over the Internet
Important Court Cases

- **Apple Computer v. Franklin Computer**
  - Established that object programs are copyrightable

- **Sega v. Accolate**
  - Established that disassembling object code to determine technical specifications is fair use
Safe Software Development

• Reverse engineering okay
• Companies must protect against unconscious copying
• Solution: “clean room” software development strategy
  – Team 1 analyzes competitor’s program and writes specification
  – Team 2 uses specification to develop software
Software Patents (1/3)

• Until 1981, Patent Office refused to grant software patents
  – Saw programs as mathematical algorithms, not processes or machines
• U.S. Supreme Court decision led to first software patent in 1981
• Further court rulings led to patents being granted for wider range of software
Software Patents (2/3)

- Thousands of software patents now exist
  - Microsoft files ~3,000 applications annually
  - Licensing patents a source of revenue
- Secondary market for software patents
  - Patent trolls: Companies that specialize in buying patents and enforcing patent rights
  - Companies would rather settle out of court than spend time and money going to trial
  - RIM didn’t settle quickly; ended up paying $612 million
Software Patents (3/3)

- Critics say too many patents have been issued
  - Patent Office doesn’t know about prior art, so it issues bad software patents
  - Obvious inventions get patents
- Companies with new products fear getting sued for patent infringement
  - Build stockpiles of patents as defense mechanism
  - Software patents used as legal weapons
- Bezos: software patents should expire in 3-5 years
# Key Differences between Software Copyrights and Software Patents

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<tr>
<th></th>
<th><strong>Software Copyright</strong></th>
<th><strong>Software Patent</strong></th>
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</thead>
<tbody>
<tr>
<td>What is protected?</td>
<td>Object Program, screen displays</td>
<td>Software process with practical utility</td>
</tr>
<tr>
<td>Is getting protection expensive?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Is getting protection time consuming?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Is reverse engineering allowed?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
4.8 Open-Source Software
Criticisms of Proprietary Software

- Increasingly harsh measures being taken to enforce copyrights
- Copyrights are not serving their purpose of promoting progress
- It is wrong to allow someone to “own” a piece of intellectual property
Open-Source Definition

- No restrictions preventing others from selling or giving away software
- Source code included in distribution
- No restrictions preventing others from modifying source code
- No restrictions regarding how people can use software
- Same rights apply to everyone receiving redistributions of the software (copyleft)
Beneficial Consequences of Open-Source Software

- Gives everyone opportunity to improve program
- New versions of programs appear more frequently
- Eliminates tension between obeying law and helping others
- Programs belong to entire community
- Shifts focus from manufacturing to service
Examples of Open-Source Software

- BIND
- Apache
- Sendmail
- Android operating system for smartphones
- Firefox and Chrome
- OpenOffice.org
- Perl, Python, Ruby, TCL/TK, PHP, Zope
- GNU compilers for C, C++, Objective-C, Fortran, Java, and Ada
Why OpenOffice.org

Great Software...  
... Easy to Use ...  
... and it's Free!

OpenOffice.org 3 is the leading open-source 
office software suite for word processing, 
spreadsheets, presentations, graphics, databases and 
more. It is available in many languages and works on all 
common computers. It stores all your data in an 
international open standard format and can also read 
and write files from other common office software 
packages. It can be downloaded and used completely 
free of charge for any purpose.

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Businesses  
Not for profits  
IT Businesses  
F/OSS advocates

Great software  
Easy to use  
and it's free

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GNU Project and Linux

- **GNU Project**
  - Begun by Richard Stallman in 1984
  - Goal: Develop open-source, Unix-like operating system
  - Most components developed in late 1980s

- **Linux**
  - Linus Torvalds wrote Unix-like kernel in 1991
  - Combined with GNU components to make an O.S.
  - Commonly called Linux
Impact of Open-Source Software

• Linux an alternative to proprietary versions of Unix
• Linux operating system on 95% of the world’s 500 fastest supercomputers
Critique of the Open-Source Software Movement

• Without critical mass of developers, quality can be poor
• Without an “owner,” incompatible versions may arise
• Relatively weak graphical user interface
• Poor mechanism for stimulating innovation (no companies will spend billions on new programs)
4.9 Legitimacy of Intellectual Property Protection for Software
Do We Have the Right System in Place?

- Software licenses typically prevent you from making copies of software to sell or give away
- Software licenses are legal agreements
- Not discussing morality of breaking the law
- Discussing whether society *should* give intellectual property protection to software
Rights-based Analysis

• “Just deserts” argument
  – Programming is hard work that only a few can do
  – Programmers should be rewarded for their labor
  – They ought to be able to own their programs

• Criticism of “just deserts” argument
  – Why does labor imply ownership?
  – Can imagine a just society in which all labor went to common good
  – Intellectual property not like physical property
A Consequentialist Argument Why Software Copying Is Bad

1. Copying software results in reduced software sales.
2. Reduced software sales result in a decline in the software industry.
3. A decline in the software industry will result in fewer products.
4. Fewer software products means fewer benefits for society.
5. Software copying is wrong.

Beth Anderson
Utilitarian Analysis

• Argument against copying
  – Copying software reduces software purchases…
  – Leading to less income for software makers…
  – Leading to lower production of new software…
  – Leading to fewer benefits to society

• Each of these claims can be debated
  – Not all who get free copies can afford to buy software
  – Open-source movement demonstrates many people are willing to donate their software-writing skills
  – Hardware industry wants to stimulate software industry
  – Difficult to quantify how much society would be harmed if certain software packages not released
Conclusion

- Natural rights argument weak
- Utilitarian argument not strong, either
- Nevertheless, society has granted copyright protection to owners of computer programs
- Breaking the law is wrong unless there is a strong overriding moral obligation or consequence
4.10 Creative Commons
Streamlining Creative Re-use

- Under current copyright law, eligible works are copyrighted the moment they are created
- No copyright notice does not mean it’s okay to copy
- Must contact people before using work
- That slows down creative re-use
- Free Creative Commons license indicates
  - Which kinds of copying are okay
  - Which rights are being retained
- Flickr and Magnatune two well-known sites using Creative Commons licenses
<table>
<thead>
<tr>
<th>You are free:</th>
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<tbody>
<tr>
<td>to Share — to copy, distribute and transmit the work</td>
</tr>
<tr>
<td>to Remix — to adapt the work</td>
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<table>
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<tr>
<th>Under the following conditions:</th>
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<tr>
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</tr>
<tr>
<td>Noncommercial — You may not use this work for commercial purposes.</td>
</tr>
<tr>
<td>Share Alike — if you alter, transform, or build upon this work, you may distribute the resulting work only under the same or similar license to this one.</td>
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