Copyright, Copy Protection, and Trusted Systems

• Reading the tea leaves of MGM v.

G	Groksier		
	Majority	Inducement	
	Souter (Scalia, Thomas)		
	Ginsburg, Rehnquist, Kennedy	Inducement Plus	
	Breyer, Stevens, O'Connor	Inducement Minus	

- · One of your college friends is launching a tech start-up and invites you on as General Counsel. The first product in development, VidFinder, is a collaborative filtering engine to help users find videos they might like amid the terabytes of video content online.
- In light of Sony, Napster, and Grokster, what kinds of advice do you offer VidFinder?

Copyright and Secondary Liability

- · Indirect liability
 - Direct infringement
 - Responsibility of a second party for that infringement
 - Contributory
 - Vicarious
 - Inducement

Captiol Records, Inc. v. Does 1-250

Exhibit A Doe #14 (67.87.48.91 2003-12-04 08:26:24 (EST)) COPYRIGHT OWNER ARTIST RECORDING TITLE ALBUM TITLE Hotel California Hotel California N38950 Sony Music Entertainment Nas Hate Me Now 175-149 Rule 3:36 UMG Recordings, Inc. Ja Rule Love Me Hate Me Flesh of My Flesh, Blood Of My Blood UMG Recordings, Inc. DMX Take It to da House Thugs Are Us 303-748 It Wasn't Me Hot Shot UMG Recordings, Inc. Shaggy

For an injunction providing

"Defendant shall be and hereby is enjoined from directly or Recording pursuant to 17 U.S.C. § 504 indirectly infringing Plaintiffs' rights under federal or state law in the Copyrighted Recordings and any sound recording, whether now in existence or later created, that is owned or controlled by Plaintiffs (or any parent, subsidiary, or affiliate record label of Plaintiffs) ("Plaintiffs' Recordings"), including without limitation by using the Internet or any online media distribution system to eproduce (i.e., download) any of Plaintiffs' Recordings, to any of Plaintiffs' Recordings available for distribution to the public, except pursuant to a lawful license or with the express authority of Plaintiffs. Defendant also shall destroy all copies of Plaintiffs' Recordings that Defendant has downloaded onto any computer hard drive or server without Plaintiffs' authorization and shall destroy all copies of those downloaded recordings transferred onto any physical medium or device in Defendant's possession custody, or control."

- 2. For statutory damages for each infringement of each Cop
- 3 For Plaintiffs' costs in this action.

Darknet

- The idea of the darknet is based upon three assumptions:
 - Any widely distributed object will be available to a fraction of users in a form that permits copying.
 - Users will copy objects if it is possible and interesting to do so.
 - 3. Users are connected by high-bandwidth channels.

The darknet is the distribution network that emerges from the injection of objects according to assumption 1 and the distribution of those objects according to assumptions 2 and 3.

DRM and the smart cow



- All it takes is one cow to push open the gate; the others just have to follow.
- On the Internet, it's easy to follow.

A Better Way Forward?

- If you can't stop Peer-to-Peer
- · And you can't sue all its infringing users
- Should you try to license it instead?

Or Use Tech+Law to Fight Back?

- 17 U.S.C. § 1201(a)(1)(A) No person shall circumvent a technological measure that effectively controls access to a work protected under this title.
- (a)(2) No person shall manufacture, import, offer to the public, provide, or otherwise traffic in any technology, product, service, device, component, or part thereof, that
 - (A) is primarily designed or produced for the purpose of circumventing a technological measure that effectively controls access to a work protected under this title;
 - (B) has only limited commercially significant purpose or use other than to circumvent a technological measure that effectively controls access to a work protected under this title; or
 - (C) is marketed by that person or another acting in concert with that person with that person's knowledge for use in circumventing a technological measure that effectively controls access to a work protected under this title.

§ 1201, definitions

- (a)(3)(A) to "circumvent a technological measure" means to descramble a scrambled work, to decrypt an encrypted work, or otherwise to avoid, bypass, remove, deactivate, or impair a technological measure, without the authority of the copyright owner; and
- (B) a technological measure "effectively controls access to a work" if the measure, in the ordinary course of its operation, requires the application of information, or a process or a treatment, with the authority of the copyright owner, to gain access to the work.

Access v. Copy

- 1201(a)(1): unlawful to circumvent access controls
- 1201(a)(2): unlawful to traffic in tools to circumvent access controls
- 1201(b)(1): unlwaful to traffic in tools to circumvent copy controls
- Unlawful to circumvent copy controls?

- Life-Time, Inc., distributes free CD-ROMs through a mass mailing campaign. The CD-ROMs contain a huge collection of celebrity photos and interviews. Readers who use the CDs in their computers find that they can sample--i.e. get access to--up to three interviews, selecting from a list. After the user selects and views three interviews, the program offers an 800 number that, when called, allows the user to offer a credit card number and be charged \$9.95 for twenty more interviews. After payment is verified, the caller is given an "unlock" code that causes the program to permit viewing of the additional requested interviews.
- Jane Doe is sent a copy of the CD, explores it, and thanks to her undergraduate work in computer science is able to crack the CD's protection scheme and view all 2,000 interviews at her leisure without paying for a single one.
- Should the law penalize Jane in any way for what she did? Does it?

- John Roe is a film student making a documentary about "celebrity culture." He buys access to 20 interviews and in one, finds a great quote he'd like to use in his film – unfortunately the supplied software doesn't let him take clips.
- Can John use the quote in his film?
- Can Jane give John the software he needs to extract the video clip?



Universal v. Corley

- Major movie studios v. 2600 Magazine, "The Hacker Quarterly"
- 2600 posted and linked to DeCSS
- Movie studios sued under §§ 1201(a)(2) and (b)(1)



DVD Decryption in Perl

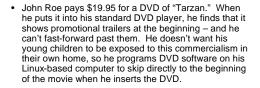
#!/usr/bin/perl

- # 472-byte qrpff, Keith Winstein and Marc Horowitz <sipb-iap-dvd@mit.edu>
- # MPEG 2 PS VOB file -> descrambled output on stdout. # usage: perl -l <k1>:<k2>:<k3>:<k4>:<k5> qrpff
- # where k1..k5 are the title key bytes in least to most-significant order

s"\$/=\2048;while(<>)(G=29;R=142;if((@a=unqT="C*"_,)[20]&48)(D=89;_=unqb24,qT,@b=map[ord qB8,unqb8,qT__^\$qi_-D])@!NC;s/._\$/15&/;Q=unqV,qb25_,;H=73;O=5b[4]<<9 | 256[\$b[3];Q=Q>>8^(P=(E=255)&(Q>>12^Q>>4^Q)8^Q))<<17,O=O>>8^(E&(F=(S=O>)14&70)

Is it illegal to display this slide?

(David S. Touretzky's Gallery of CSS Descramblers)



Should the law penalize John for what he did? Does it?

Is this wardrobe illegal?

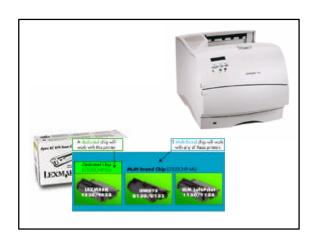




Lexmark v. Static Control

- Printer company v. toner cartridge remanufacturer
- Lexmark claims SCC microchip circumvents access-controls limiting access to copyrighted printer software
- But the program is available, unencrypted, to anyone who buys a printer





Broadcast Flags

- "Digital Broadcast Content Protection" 47 CFR 73.9002(b) and following:
- "No party shall sell or distribute in interstate commerce a Covered Demodulator Product that does not comply with the Demodulator Compliance Requirements and Demodulator Robustness Requirements."







Code is finer-grained than law

- Code can prevent uses law couldn't practically reach (even if earlier law technically prohibited them)
- This preemptive power stops many potential fair use challenges, preventing judicial review of whether a use is fair or foul