License: Closed and Open



The Contract Solution

- Not the "against the world" provisions of statute, but bilateral agreements
- · Recall off-line contract law
 - offer and acceptance
 - battles of the forms

Shrinkwrap, Clickwrap, Browsewrap

- Vault v. Quaid
- ProCD v. Zeidenberg
- Specht v. Netscape

Vault

- Vault's PROLOK: "[y]ou may not ... copy, modify, translate, convert to another programming language, decompile or disassemble" the program.
- Quaid reverse engineers, and builds RAMKEY (which unlocks PROLOK)
 - Copyright infringement?
 - License violation?
 - License enforceable?

ProCD

- ProCD sells SelectPhone with "clickwrap" license: You may only use the application program and listings for non-commercial purposes.
- · Zeidenberg re-sells access to phone lists.
 - Copyright infringement?
 - License violation?
 - License enforceable?

Preemption

- Statutory: 17 U.S.C. § 301
 - All legal or equitable rights that are equivalent to any of the exclusive rights within the general scope of copyright as specified by section 106 ...and come within the subject matter of copyright ... are governed exclusively by this title.
- Constitutional: Art VI ¶ 2
 - This Constitution, and the laws of the United States ... shall be Supreme Law of the land

Specht

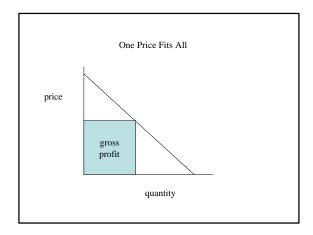
- Netscape offers SmartDownload software for download, with hyperlinked license agreement: All disputes must be arbitrated.
- Plaintiffs bring class action lawsuit for privacy violations.
 - Is there a license agreement?
 - License violation?

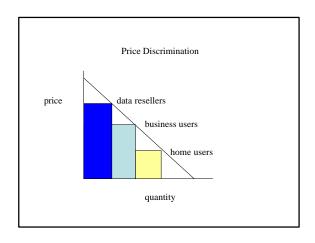
Netscape install, today

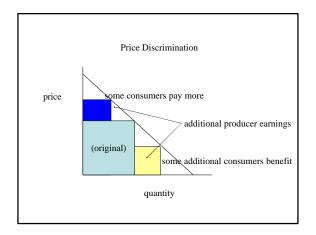


Uses of Contract

- Is K "equivalent" to ©?
- · "The license is the product"
- · Limit liability
- · Protect investment
- Price discrimination
 - differentiate among users willing to pay for different levels of use
 - prevent arbitrage







The Market

- · Does the market work?
- · How many click-wraps do you read?
 - If the license is the product, are you an informed consumer?
- Should some policy goals be nonwaivable?

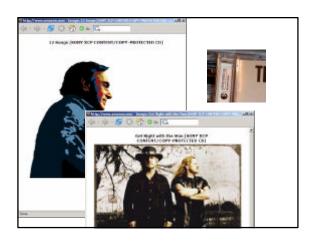
Squashing arbitrage

- Macrosquish offers an Academic Version of its popular office suite for less than half the retail price. Can Bernie BigCo, CEO, send Sam Student to buy a copy and pay him \$5 more than the academic cost as a delivery fee?
- Does it matter what the license agreement says? When a purchaser sees it?

- What if the license says "Licensee must not criticize Macrosquish products"?
- "Licensee must not build products that compete with Macrosquish software"?



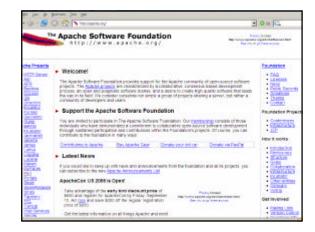




The SonyBMG Rootkit

 You buy Van Zant's "Get Right with the Man" and put it into your PC. A dialog pops up saying "the CD will automatically install a small proprietary software program onto YOUR COMPUTER." (Even before you click "Accept," the CD has installed several files.) You just want to hear the music. Have you agreed to let Sony add kernel-level drivers to your computer?



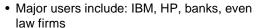


Popular Free or Open Source software

- · GNU/Linux operating system
- Apache webserver
- · Sendmail email server
- Mozilla web browser
- · BIND nameserver







Free Software / Open Source

Source Code:

 human readable, "best form for making modifications" oid CSSdecrypttitlekey(unsigned char *tkey,unsigned char *dkey)

unsigned char im1[6]; unsigned char im2[6]={0x51,0x67,0x67,0xc5,0xe0,0x00}; for(i=0;i<6;i++) im1[i]=dkev[i]:

Object Code:

- compiled, executable, much harder to read or modify

Source Code

```
APPENDIX A: C source file fact.c

#include <stdio.h>
void main(int argc, char *argv[]) {
    int i, result;
    result = 1;
    for (i = 1; i<6; i++) {
        result = result * i;
    }
    printf ("Result is: %d\n",result);
}
```

David S. Touretzky, Carnegie Mellon University

Object Code

David S. Touretzky, Carnegie Mellon University

Free Software Definition

- "Free software" is a matter of liberty, not price. [free speech, not free beer]
- "Free software is a matter of the users' freedom to run, copy, distribute, study, change and improve the software. More precisely, it refers to four kinds of freedom, for the users of the software:
 - The freedom to run the program, for any purpose (freedom 0).
 - The freedom to study how the program works, and adapt it to your needs (freedom 1). Access to the source code is a precondition for this.
 - The freedom to redistribute copies so you can help your neighbor (freedom 2).
 - The freedom to improve the program, and release your improvements to the public, so that the whole community benefits. (freedom 3).
 Access to the source code is a precondition for this.

GNU General Public License (GPL)

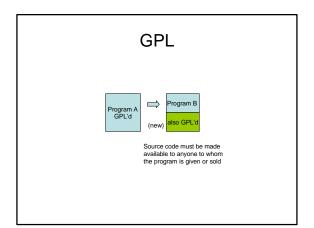
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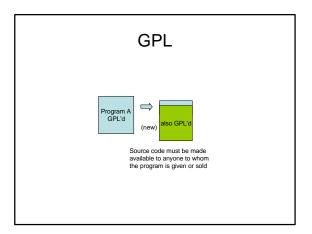
GPL's "viral" licensing

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Viral or Antibiotic?

- Sysco Cistems writes embedded networking software. A programmer finds that someone else has written the function she needs, so she incorporates that code into her program. Sysco sells the product without including source code or any reference to third-party code.
- · What liability if the code is copyrighted?
- What liability if the code is copyrighted and licensed under the GPL?
- What options does Sysco have in each case?





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