

Copyright Protection for Computer Programs and Digital Media

CJ341 – Cyberlaw & Cybercrime Lecture #13

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Topics

- Copyright & Computer Programs
- Digital Imaging
- End-User License Agreements (EULAs)

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Copyright & Computer Programs

- Overview
- Historical Snapshot
- Proving Infringement
- Expressions
- Levels of Abstraction
- Whelan v. Jaslow 1986
- Lotus Development Corp v. Paperback Software Int'l 1990
- Computer Associates Intl v. Altai 1992
- Lotus Development Corp. v. Borland Int'l 1995
- International Protection of Computer Programs



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Copyright & Computer Programs: Overview

- Extent of copyright protection for computer programs complicated and controversial
 - ❑ Computer programs:
 - ✓ Many “have all the earmarks of a creative literary-style document.” (Burgunder)
 - ✓ Integral part of an operational machine
- Programmers want widest protections
 - ❑ Code covered, conceptual aspects, file structures, organization, user interface
- Companies want limitations
 - ❑ Only literal code
 - ❑ Want to avoid market monopoly

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Historical Snapshot (1)

- Mid-1960s: uncertainty about copyright protection of computer programs
- 1976: Major revision of Copyright Act
 - ❑ Congress recognized it couldn't address issues posed by computers to copyright policy
 - ❑ Created *National Commission on New Technological Uses of Copyrighted Works* (CONTU)
- ❑ Charged with making recommendations about changes to encompass new technology



<http://digital-law-online.info/CONTU/contu1.html>

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Historical Snapshot (2)

- 1978: CONTU* released report
 - ❑ Recommended copyright protection for computer programs
 - ❑ Protection should only extend to expression of computer programs
 - ❑ Report ambiguous in defining what aspects constitute expression
- 1980: Update of Copyright Act
 - ❑ Computer programs protected
 - ❑ Ambiguities remained
 - ❑ Courts left with determining protection parameters

*CONTU = National Commission on New Technological Uses of Copyrighted Works

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CJ341 Class Notes

Proving Infringement

- Requires showing:
 - ❑ Substantial *similarity* of the works and of the protectable* expression
- Guiding Copyright Principles
 - ❑ Should provide *incentives* to develop and distribute works
 - ❑ *Exclusivity*
 - ❑ Should provide sufficient *protection*

* As spelled in US Code; sometimes spelled *protectible* elsewhere.

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Expressions



- Copyright disputes boil down to basic issue: distinguishing protectable *expression* from unprotectable *ideas*
- *Cannot protect content that is indispensable to convey an idea* (Burgunder p. 314)
 - ❑ Otherwise 1st to discuss idea would lock down all further use of the idea
- Example of court case involving expression in computer world: *Apple v. Microsoft and HP* (1989):
 - ❑ Core issue: scope of protectable expression (graphical user interface or *GUI*)

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Levels of Abstraction

- Multiple expressions test
 - ❑ Underlying principles of copyright guide
 - ❑ Alternative expressions
- Distinction between *ideas* and *expressions*
 - ❑ Court decisions somewhat *ad hoc*, but attempt to reflect guiding copyright principles
 - ❑ Line may seem elusive



Wassily Kandinsky (Russian, 1866-1944) *Abstraction*, 1922, Lithograph. Picture from Wesleyan Univ. Davidson Art Center Web site <http://tinyurl.com/t44trfm>

See extended discussion in *Burgunder* pp 309-317

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Whelan v. Jaslow 1986 (1)

First significant decision to address copyright protection for computer programs

- Jaslow Lab hired Strohl Systems Group Inc to create a bookkeeping program **Dentalab[®] for QuickBooks[®]**
- Ms Whelan (Strohl employee) developed **Dentalab** program in EDL
- Whelan left employ of Strohl on friendly terms
- Strohl assigned entire interest in Dentalab to Whelan
- Whelan & Jaslow agreed Jaslow would market Dentalab for 35% commission
- Jaslow developed **Dentcom** program in BASIC
- Jaslow cancelled agreement w/ Whelan and independently marketed *both* programs
- Whelan charged Jaslow with *copyright infringement*
- Jaslow claimed *ownership* of Dentalab & *denied* copying code for Dentcom

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Whelan v. Jaslow 1986 (2)

- Court ruled Whelan owned the copyright
- Found unlawful reproduction based on access and similarities
 - ❑ Jaslow had access to original code
 - ❑ Dentcom was *virtually identical* to Dentalab
 - ✓ File structures
 - ✓ Subroutine functions
- Jaslow appealed to Appeals Court but decision in favor of Whelan was affirmed
 - ❑ Courts decided copyright issues by analogy to literary works: expression v. idea
 - ❑ *Detailed structure of the program* was part of the *expression*, not the *idea* of that program
 - ❑ Therefore subject to copyright restrictions

<http://cases.justia.com/us-court-of-appeals/F2/797/1/222/104748/>

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Lotus Development Corp v. Paperback Software Int'l 1990

- Two competing application programs (spreadsheets and other functions): **Lotus 1-2-3** and **VP-Planner**
- Lotus sued Paperback Software, alleging unlawful copying of the 1-2-3 *user interface*
- District Court
 - ❑ Computer programs are not entitled to an unlimited scope of copyright protection
 - ❑ BUT more similarities than differences
- Paperback claimed that need for compatibility and industry standardization trumps expansive copyright protection
 - ❑ Court was not persuaded
 - ❑ Found infringement and *ruled for plaintiff* (Lotus)



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Computer Associates Intl v. Altai 1992

1. CA created job-scheduling program and developed an operating system (OS) language
2. Altai hired a programmer who had worked on the CA project: developed component-compatibility program for Altai
3. Altai began marketing its *own scheduling program*
4. CA learned that Altai may have *appropriated* parts of its OS-compatibility program and sued Altai for IP infringement
5. Altai then *REWROTE* the software
6. District Court found *Altai infringed* in its *first* version of its new program (created with help of former CA programmer), but *not in the re-write*
7. CA appealed
8. Appeals Court affirmed decision in favor of defendant (Altai)
9. Result: case *reduces* the degree of copyright protection for computer programs

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Lotus Development Corp. v. Borland Int'l 1995

- *Lotus 1-2-3* a pioneering PC spreadsheet program (like Microsoft *Excel* which came later)
 - ❑ Contained hundreds of commands, menus and submenus
- Borland spent three years developing its *Quattro* program
 - ❑ Determined that compatibility with 1-2-3 was important
 - ❑ *Did not copy any of Lotus's code*
- District Court
 - ❑ Determined infringement by Borland of copyrightable expression (interface and key reader)
 - ❑ Borland appealed, claiming that the Lotus menu command hierarchy is not copyrightable under Section 102(b)
- Appeals Court
 - ❑ Reversed district court decision
 - ❑ Found command hierarchy uncopyrightable and *no infringement*
 - ❑ Importance of standardization and compatibility noted



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International Protection of Computer Programs

- Developed countries in agreement
 - ❑ Want copyright laws to cover exact code
- Controversy
 - ❑ Disagreement in US concerning extent to which copyright should protect computer programs
 - ❑ Duplicating software significant revenue source for some countries (e.g., China)
 - ✓ Reluctant to pass or enforce copyright protection laws
 - ✓ 90% software piracy rates in some areas (e.g., Latin America, Asia)

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International Protection (2)

1991: EU Directive

- Harmonized copyright policies concerning computer programs among EU nations
- Copyright protection extends to *expression* of a program (but not to underlying principles or ideas)
- Owner or licensee can
 - ❑ Make back-up copy
 - ❑ Use program for intended purpose
 - ❑ Correct errors
 - ❑ May reverse analyze (aka *reverse engineer*) if necessary to achieve interoperability



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International Protection (3)

1994: TRIPS (Agreement on Trade-Related Aspects of Intellectual Property Rights)

- WTO member obligation to protect computer programs
- Specifies copyright protects expressions, but not ideas, procedures or methods of operations
- Authors have right to prohibit *rentals* of their work (common problem in 1980s)
- Developed countries had until 2006 for compliance
- Less-developed countries have until 2016 for some aspects of the treaty



http://www.wto.org/english/tratop_e/trips_e/trips_e.htm

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Digital Imaging

- Digital Imaging Overview
- Digital Imaging Issues
- Legal Issues
- Moral Rights
- Ethical Issues
- Propaganda
- Personal Issues
- Hoffman v. Capital Cities



http://www.theufos.com/images/Extraterrestrial_Being.jpg
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CJ341 Class Notes

Digital Imaging Overview

- Creation
- Alteration (e.g., editing, re-editing)
- Processing
- Compression
- Storage
- Printing
- Display



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Digital Imaging Issues

- Legal
 - ❑ Copyright
 - ❑ Fair Use
 - ❑ Evidentiary
 - ❑ Criminal
- Moral Rights
 - ❑ Proper Attribution
 - ❑ Protect integrity of the work
- Ethical
- Personal



Which Came First - The Digital Camera or the Digital Camera Image?
Original Digital Art by Noel Carboni
See <http://ncarboni.home.att.net/DigiLinks.html>
Permission granted by author for inclusion here.

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Legal Issues

- Copyright
 - ❑ Originality
 - ✓ Digital sampling: using
 - Photographer: composer
- Other Intellectual Property issues
 - ❑ E.g., Trademark reproduction, alteration
- Evidentiary (to be discussed in upcoming lectures)
 - ❑ Chain of Custody
 - ❑ Authentication: pictures *can* lie
- Criminal
 - ❑ Exploitation of Children – virtual child pornography (as previously discussed)



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Moral Rights (1)

- Rights of creators of copyrighted works
 - ❑ First recognized in France and Germany
 - ❑ Included in Berne Convention for the Protection of Literary and Artistic Works in 1886, (revised 1928 & 1986)
- US signed convention in 1988
 - ❑ Still does not completely recognize moral rights as part of copyright law
 - ❑ Treats moral rights under defamation or unfair competition



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Moral Rights (2)

- Include
 - ❑ Attribution
 - ❑ Anonymous or pseudonymous publication
 - ❑ Integrity
 - ✓ No distortion or mutilation
 - ✓ Must not detract from artist's relationship with work
 - ✓ Even after it leaves the artist's possession or ownership
- Distinct from economic rights
 - ❑ Apply even if artist has assigned rights to work
 - ❑ US Visual Artists Rights Act of 1990 (VARA) recognizes moral rights, but only applies to works of visual art.

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Moral Rights (3)

- US adoption of Berne Convention
 - ❑ Moral rights addressed
- 1991 Amendment Copyright Act
 - ❑ Explicitly protects moral rights of author
 - ❑ "...a still photographic image produced for exhibition purposes only, existing in a single copy that is signed by the author, or in a limited edition of 200 copies or fewer that are signed and consecutively numbered."



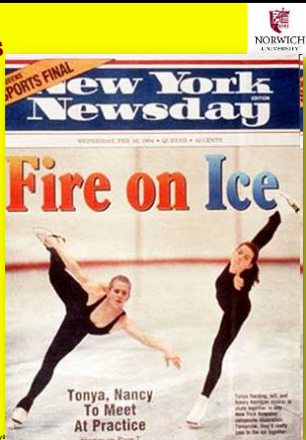
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CJ341 Class Notes

Ethical Issues

- Image manipulation:
1994: *New York Newsday* cover photograph depicting Tonya Harding & Nancy Kerrigan skating next to each other when they *hadn't* done so
DIGITAL FAKERY



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Propaganda

- *Swift Boat Veterans for Truth* circulated picture supposedly of John Kerry at a rally with Jane Fonda in 1970s
- Part of vicious smear campaign against Kerry
- Photo was *fake*: it was a composite

Fonda Speaks To Vietnam Veterans At Anti-War Rally



Actress Anti-War Activist Jane Fonda Speaks to a crowd of Vietnam Veterans as Activist and former Vietnam Vet John Kerry (LEFT) listens and prepares to speak next concerning the war in Vietnam (JP Photo)



<http://hnn.us/roundup/entries/3592.html>

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Personal Issues

- Privacy Rights
- Publicity Rights
- Morphed pictures
 - ❑ Morphing software
 - ❑ Examples: Politician faces in experiments by social scientists
 - ❑ But can morph with unpopular figures for subliminal effects



<http://www.washingtonpost.com/wp-dyn/content/article/2006/02/27/AR2006022701253.html>

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Hoffman v. Capital Cities (1)

- 1982: Dustin Hoffman cross-dresses in film *Tootsie*
- 1997: *Los Angeles Magazine* publishes picture of Dustin Hoffman's head merged onto body of female model
 - ❑ Model wearing designer dress and shoes
 - ❑ Photo caption: "[DH] isn't a drag in a butter-colored silk gown by Richard Tyler and Ralph Lauren Heels"
- Hoffman's lawyers argued it was a covert ad: named designers who advertised elsewhere in magazine & implied endorsement by DH



<http://www.unc.edu/~uncing/hoffman.htm>

<http://www.fake-detective.com/faqs/legal-1.htm#Dustin>

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Hoffman v. Capital Cities (2)

- Federal Trial Court (1999)
 - ❑ Ruled that image manipulation was violation of "right of publicity" granted to stars and other public figures
 - ❑ Exploited and robbed celebrities of dignity, professionalism and talent
 - ❑ Awarded DH \$3M in compensatory and punitive damages
- Appeals Court (2001)
 - ❑ *Reversed decision*
 - ❑ Held 1st Amendment rights trump publicity rights
 - ✓ Public figure
 - ✓ Magazine using likeness for social commentary
 - ✓ Magazine disclosed use of "digital magic"

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More Digital Faking

- See The Hoax Photo Database
http://www.museumofhoaxes.com/hoax/photo_database/
- Countless examples of digitally-modified photos



Iranian press photo of 4 missiles launched July 9, 2008 Original photo showing only 3 missiles successfully launched

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CJ341 Class Notes

End-User License Agreements (EULAs)

- Fundamental Principles of Contract Law
- Uniform Commercial Code (UCC)
- Statute of Frauds under Common Law
- Uniform Computer Information Transactions Act (UCITA)
- Digital Signatures



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Fundamental Principles of Contract Law

- Elements of a Contract*
- Invalidating Agreements
- Remedies for Breach of Contract



*Legally enforceable agreement

<http://www.law.cornell.edu/wex/index.php/Contracts>

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Elements of a Contract

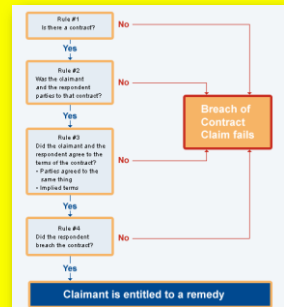
- Offer & acceptance
 - ❑ Communicated to both (or more) parties
 - ❑ Serious intent to establish binding agreement
- Capacity
 - ❑ Right or authorization to engage in agreement
 - ❑ Mental status, age may affect capacity
- Legality
 - ❑ Undertakings for illegal acts are unenforceable under law
 - ❑ Attorneys must be licensed in jurisdiction
- Consideration
 - ❑ Some legally recognized value exchanged

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Invalidating Agreements

- Contract may be voided due to
 - Undue influence – e.g., close relationship
 - Duress – threats, intimidation
 - Fraud – misrepresentation
 - ❑ In execution: signature under false pretenses
 - ❑ In inducement: lies
 - Mutual mistake of fact
 - ❑ Good-faith agreement
 - ❑ Both parties lacking essential information



<http://www.justice.govt.nz/whi/images/boc-flow1.gif>

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Remedies for Breach of Contract

- Common-law
 - ❑ Return to equivalent status for victim
 - ✓ Compensatory damages
 - ✓ Consequential damages
 - ✓ Incidental damages
 - ❑ Punitive damages upon intentional tort
- Equitable remedies
 - ❑ Specific performance (e.g., unique asset)
 - ❑ Injunction barring specific harm
 - ❑ Reformation – modifying contract (rare)



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Uniform Commercial Code



- UCC framework (1952)
 - ❑ National Conference of Commissioners on Uniform State Laws (NCCUSL)
 - ❑ American Law Institute (ALI)
- Article 2: Law of sales
 - ❑ Applies to sale of goods (not services)
 - ❑ Merchant/non-merchant distinction
 - ❑ Lack of essential terms
 - ❑ Good faith & fair dealing
 - ❑ Warranties

The American Law Institute

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CJ341 Class Notes

Merchant/Non-merchant Distinction

- Under common law, acceptance had to be in terms identical to original offer
- Article 2 of UCC allows acceptance to include additional terms **UNLESS** the new terms
 - ❑ Agree only to a subset of offer terms
 - ❑ **Materially*** change the offer
 - ❑ Are objected to by offeror in *reasonable** time

*red-flag words beloved by lawyers



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Lack of Essential Terms

- Common law precluded contract enforcement in absence of
 - ❑ Definition of contracting parties
 - ❑ Price
 - ❑ Quantity
 - ❑ Delivery dates. . .
- UCC Article 2 loosens requirements
 - ❑ Court may judge that parties *intended* to enter into contract
 - ❑ May fill in details (except quantity)

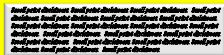


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Good Faith & Fair Dealing

- UCC Article 2 requires *good faith*
 - ❑ Honesty in fact and
 - ❑ Observance of reasonable commercial standards of fair-dealing
- Also *avoidance of unconscionability*
 - ❑ Court can refuse to enforce terms that strike the court as shockingly unfair
 - ❑ E.g., small-print disclaimers, denial of rights of consumers



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Warranties

- **Express** warranties enforced under UCC Article 2
 - ❑ Affirmations of fact or promises by sellers
 - ❑ Description of goods
 - ❑ Samples, models (no *bait and switch*)
- Implied warranties
 - ❑ *Merchantability* – fitness for intended use
 - ❑ Fitness for *particular purpose* – response to specific needs
- Exclusion of warranty
 - ❑ Generally ignore disclaimers that are *unreasonable*



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Warranties (cont'd)

- Attempted exclusion of warranties of merchantability or fitness for specific purpose
 - ❑ Must be written and conspicuous
- Courts have usually sided with *consumer*
 - ❑ Less protective of commercial buyers
- Bears directly on *shrink-wrap* and *click-wrap* agreements
- Brown v. SAP America case
 - ❑ Breach of contract
 - ❑ Court ruled that plaintiff could not claim fraud solely to invalidate limitation of liability

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Requirements of a Writing: Statute of Frauds

- Common law
- UCC
 - Signature requirement
 - Electronic contracts and the UCC
 - Computer software as goods

Statute of Frauds and Perjuries (1677)

Written contract required for –

- ❖ Promise to answer for debt
- ❖ Terms greater than 1 year
- ❖ Marriage terms
- ❖ Sale of real property
- ❖ Promise to pay estate debts
- ❖ Sale of goods costing > \$500

UCC Art. 2 §2-201:

Written contract required except –

- ❖ Merchants – written confirmation
- ❖ Specially-manufactured goods
- ❖ Evidence in court admitting contract
- ❖ Goods already paid for
- ❖ Goods received and accepted

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Requirements of a Writing (cont'd)

- Signature requirement
- Electronic contracts and the UCC
- Computer software as goods

Signature serves for

- ❖ Evidence
- ❖ Ceremony
- ❖ Approval
- ❖ Efficiency and logistics

❖ UCC covers *goods*

- ❖ Includes *leases* of goods
- ❖ Hardware definitely covered
- ❖ Software license = lease?
 - ❖ Communications Group v. Warner Court ruled that license was a lease under terms of UCC

Therefore warranty enforceable

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Uniform Computer Information Transactions Act

- Historical background of UCITA
 - ❑ American Law Institute & Natl Conference Commissioners on Uniform State Laws
 - ❑ Attempt to clarify electronic contracts
- Causing uproar
 - ❑ Conflict between vendors and customers
 - ❑ Consumer-protection groups up in arms
 - ❑ Passed only in MD & VA so far (2006.10)
 - ❑ Creeping through state legislatures (9 states had passed components as of 2006.10)

Join others to defeat UCITA
affect

<http://www.ucita.com/>

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General provisions of UCITA

➤ Scope

- ❑ Computer information transaction =
 - ✓ Agreement to
 - ✓ Create, modify, transfer, license *computer information** or rights
 - ✓ Includes support contract
- ❑ * = information in electronic form from computers

- Exclusions
- Opting out of the Act: by
- Formation of contract
- Offer and acceptance

Exclusions

- ❖ Financial services
- ❖ Audio / visual programming
- ❖ Movies, recordings
- ❖ Compulsory license
- ❖ Contract of employment for employees
- ❖ UCC Articles 3-8

Contracts for ≥\$5,000 enforceable
Authenticated record; or
License of ≤ 1 year; or
Performance / information accomplished / accepted; or
Admission in court

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Warranties under the UCITA

Similar to terms of UCC Article 2

- Express warranties
- Implied warranties
- Disclaimers – may not be enforceable unless
 - ❑ Conspicuous
 - ❑ Unambiguous
- Breach of contract
 - ❑ Notice of breach
 - ❑ Response to request for information about defect
- Remedies

Remedies include

- ❖ Cancellation
- ❖ Contractual remedies
- ❖ Liquidated damages
- ❖ Compensatory damages

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Now go and study

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