

- Excluded: facts, data
  - Requirements: original work, fixed in tangible form
  - Term: author's life + 70 years
  - Cost: simple, no registration
  - Problems:
    - Laws subject to change under pressure from industry. E.g.: Term length, cost, definition of "fair use" (reverse engineering), "first sale" doctrine, etc.
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Overreaching patents effectively lead to monopolies. Gradual expansion of what is patentable 17 Aug 2006 CSE403, Summer'06, Lecture 24b Valentin Razmov

Patent officers are paid by number of issued patents.

Requirements: novel, useful, non-obvious; must file

Cost: relatively high, in both time and money

Term: 20 years from filing

Full disclosure is not enforced.

Problems:

patent application (generally) before public disclosure

## Trade Secrets

- Protect: "... any formula, pattern, design, device, or compilation of information that ... gives [a business] an advantage over competitors who do not know or use it." <u>Protected against</u>: misappropriation
- <u>Excluded</u>: general knowledge, skill, or experience
- <u>Requirements</u>: info not generally known or available, derives economic value from secrecy, must spend reasonable effort to maintain secrecy
- <u>Term</u>: no predefined limit
- <u>Cost</u>: no registration or examination
- Problems: <sup>n</sup> Once lost, the secret can't be regained. <sup>17</sup> Aug 2006 CSE403, Summer'06, Lecture 24b

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## Trademarks

Protect: "any word, name, symbol, or device, or any combination thereof" used to distinguish certain goods from others

 <u>Protected against</u>: others using the mark, likelihood of confusion and dilution

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- <u>Excluded</u>: use in other industries / geographic areas
- <u>Requirements</u>: use the mark in commerce or register with intent to use in future, must maintain quality control over goods
- <u>Term</u>: 10 year renewable (no upper limit)
- n <u>Cost</u>: ?

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Protections, exclusions, requirements, terms, and costs must all be *explicitly* defined as part of the contract.

- Examples:
  - License agreements
    - For software, standard agreements are GPL, BSD, etc.
    - For media, Creative Commons is emerging as an alternative to the default 'All Rights Reserved'.
  - Non-disclosure agreements
  - Employee contracts
    - Including non-competition agreements, pay compensation, etc.
  - n Ownership allocations
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# Example: IP Issues with the Use of Third-Party Software

### Important questions to explore early:

- Do you have the right to use the third-party software?
- <sup>n</sup> Is it important to protect some IP you are adding?
- Do the IP rights of the third-party software allow you to do this?

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## Example: Seemingly Easy Questions...

## What do you think?

- Who owns the idea that your team has been developing?
- Is posting an email message from someone else a violation of copyright?



**Advice:** Know and understand the basics but consult with a lawyer for the details.

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Lessons from the History of Software Development (Part II)	<ul> <li>Outline</li> <li>Is Software Different?</li> <li>Trends from the History of Software Development</li> <li>Sophistication of skills (of developers and users)</li> <li>Propagation of good development practices</li> </ul> Next time: <ul> <li>Size of projects and products</li> <li>Criticality of getting it right</li> </ul>
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Is Software Different? (from Other Engineering Disciplines) Arguments against: Software isn't "soft". Contrary to popular perception, change cannot be "easily accommodated" Yet requirements do change. In reality, even though change is possible in principle, accommodating change often forces a rewriting of major parts of the software.	Is Software Different? (from Other Engineering Disciplines) More questions to consider: Is software less reliable? Does it break differently? Is the environment of use of software different? Is the culture of software development different? and more

- n and more...
- <sup>n</sup> Software developers still need to plan, execute, test, and sell their products. Same lifecycle.
- <sup>n</sup> The discipline is still in its infancy.

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# One-Minute Feedback

- What one or two ideas discussed today captured your attention and thinking the most?
- List any ideas / concepts that you would like to know more about. Be specific.

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