



UC Berkeley EECS
Lecturer
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CS10 The Beauty and Joy of Computing

Lecture #21 Social Implications III

2014-11-17



AMAZON IS HIRING DRONE PILOTS!



[http://money.cnn.com/2014/11/14/technology/
amazon-drone-pilot-hire/index.html](http://money.cnn.com/2014/11/14/technology/amazon-drone-pilot-hire/index.html)



Peer Instruction



What is the biggest impact of digitization?

- a) People need to learn about binary numbers in school
- b) Computer can now process data
- c) Information can be copied without loss
- d) There is no impact, it's a technicality





Biggest Impact of Digitization

- Digital Information can be copied without loss and at an instant!
-
-



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Copying is easy

MyNumber=42

MyCopy=MyNumber

- **Lossless, instant copying leads to a wealth of societal problems:**
 - Privacy issues (previous lectures)
 - Copyright/Copyleft
 - Copyright Enforcement: DRM





Digital Millennium Copyright Act



Russel Rains, Lawyer, Prof. St. Edwards University,
Austin, TX

[http://www.youtube.com/watch?
v=bFLSe1qQUP8](http://www.youtube.com/watch?v=bFLSe1qQUP8)



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Copyright: A Primer



[http://www.youtube.com/watch?
v=Uiq42O6rhW4](http://www.youtube.com/watch?v=Uiq42O6rhW4)



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Terms to Remember

- Intellectual Property
- Copyright
- Patents
- Public Domain
- Fair Use
- Expiration of Copyright
- Originality of the Work
- Derivative Work





Counterweight: Copyleft



[http://www.youtube.com/watch?
v=u2k07BbPkDk](http://www.youtube.com/watch?v=u2k07BbPkDk)



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Some Open Source Licenses

- **GNU General Public License (v2, v3)**
- **Apache License**
- **MIT License**
- **BSD License (Berkeley!)**
- **Public Domain**
- **Licenses differ in: Attribution requirements, commercial use restrictions, derivative work restrictions, licenses for derivative work.**
- **Problems: Binary-code re-uses, API use!**





Counterweight: Creative Commons



get creative. it's easy when you skip the intermediaries.



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Layers of Creative Commons Licenses

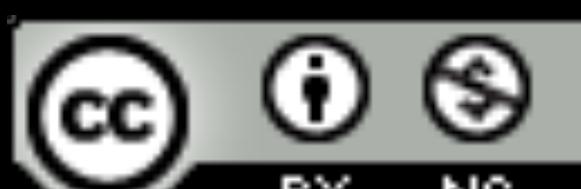


- **Legal layer: Sustain lawsuits**
- **Human readable: Understandable for 'everybody'**
- **Machine readable: Understandable for search engines**





Types of Creative Commons Licenses





CC vs Open Source License

Creative Commons Licenses are not recommended for program code. Instead use open source licenses.

CC does not account for:

- patents
- license compatibility
- binary vs source code case distinction





Good to Know!

All BJC content is Creative Commons! (except:
exams, some solutions)





Social Implications: A final Video



[http://www.youtube.com/watch?
v=Zi8cik98YmE](http://www.youtube.com/watch?v=Zi8cik98YmE)



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