CSCI 215 – Social and Ethical Issues in Computing
Homework 4: Intellectual Property, Piracy
Due: 11:59pm – 17 June, 2016 (Friday)

Choose THREE of the following to summary (one paragraph) / (one paragraph) analysis as specified in the homework rubric. There should be a total of six paragraphs. (http://www.cs.montana.edu/~mdale/courses/CSCI215/homework/HomeworkOutline.pdf):

You can access academic papers from home by logging into your account before searching google scholar: https://scholar.google.com.proxybz.lib.montana.edu:3443/

Articles
- http://news.mit.edu/2015/tor-vulnerability-0729 MIT article about ToR’s bugs and how to fix them
- https://publicpolicy.googleblog.com/2015/02/a-small-rule-change-that-could-give-us.html Google post about Congress issuing a single warrant against ToR or VPN users
- https://www.unc.edu/courses/2010spring/law/357c/001/NetNeutrality/Timeline.html Timeline of Net Neutrality (up to 2010), that explains how the FCC got to Net Neutrality issue in 2014
- https://opensource.org/osd Open Source Definition
- https://www.whitehouse.gov/sites/default/files/wh_digital_divide_issue_brief.pdf This is a good report on the digital divide in 2015. It is a little bit longer, so you may use this as two of your article/video options.
- http://dl.acm.org.proxybz.lib.montana.edu/citation.cfm?id=349002 Global software piracy: you can’t get blood out of a turnip. (Older) paper reviewing a little economics that go alongside piracy.

Videos
- http://www.ted.com/talks/linus_torvalds_the_mind_behind_linux Linus Torvalds transformed technology twice — first with the Linux kernel, which helps power the Internet, and again with Git, the source code management system used by developers worldwide. In a rare interview with TED Curator Chris Anderson, Torvalds discusses with remarkable openness the personality traits that prompted his unique philosophy of work, engineering and life. "I am not a visionary, I’m an engineer," Torvalds says. "I'm perfectly happy with all the people who are walking around and just staring at the clouds ... but I'm looking at the ground, and I want to fix the pothole that's right in front of me before I fall in."
- http://www.ted.com/talks/rick_falkvinge_i_am_a_pirate The Pirate Party fights for transparency, anonymity and sensible copyright laws. At TEDxObserver, Rick Falkvinge explains how he became the leader of Europe’s tech-driven political party, which so far has won 17 seats across national parliaments in Europe.
- http://www.ted.com/talks/jay_bradner_open_source_cancer_research How does cancer know it's cancer? At Jay Bradner’s lab, they found a molecule that might hold the answer,
JQ1. But instead of patenting it and reaping the profits (as many other labs have done) — they published their findings and mailed samples to 40 other labs to work on. An inspiring look at the open-source future of medical research.

- [http://www.ted.com/talks/clay_shirky_how_the_internet_will_one_day_transform_government](http://www.ted.com/talks/clay_shirky_how_the_internet_will_one_day_transform_government) The open-source world has learned to deal with a flood of new, oftentimes divergent, ideas using hosting services like GitHub — so why can’t governments? In this rousing talk Clay Shirky shows how democracies can take a lesson from the Internet, to be not just transparent but also to draw on the knowledge of all their citizens.

- [http://www.ted.com/talks/damon_horowitz](http://www.ted.com/talks/damon_horowitz) Damon Horowitz reviews the enormous new powers that technology gives us: to know more — and more about each other — than ever before. Drawing the audience into a philosophical discussion, Horowitz invites us to pay new attention to the basic philosophy — the ethical principles — behind the burst of invention remaking our world. Where’s the moral operating system that allows us to make sense of it?

- [http://www.ted.com/talks/tania_simoncelli_should_you_be_able_to_patent_a_human_gene](http://www.ted.com/talks/tania_simoncelli_should_you_be_able_to_patent_a_human_gene) A decade ago, US law said human genes were patentable — which meant patent holders had the right to stop anyone from sequencing, testing or even looking at a patented gene. Troubled by the way this law both harmed patients and created a barrier to biomedical innovation, Tania Simoncelli and her colleagues at the ACLU challenged it. In this riveting talk, hear the story of how they took a case everybody told them they would lose all the way to the Supreme Court.

- [http://www.ted.com/talks/jon_gosier_the_problem_with_trickle_down_techonomics](http://www.ted.com/talks/jon_gosier_the_problem_with_trickle_down_techonomics) Hooray for technology! It makes everything better for everyone!! Right? Well, no. When a new technology, like ebooks or health trackers, is only available to some people, it has unintended consequences for all of us. Jon Gosier, a TED Fellow and tech investor, calls out the idea of "trickle-down techonomics," and shares powerful examples of how new tech can make things actually worse if it’s not equally distributed. As he says, "the real innovation is in finding ways to include everyone."

- [http://www.ted.com/talks/drew_curtis_how_i_beat_a_patent_troll](http://www.ted.com/talks/drew_curtis_how_i_beat_a_patent_troll) Drew Curtis, the founder of fark.com, tells the story of how he fought a lawsuit from a company that had a patent, "...for the creation and distribution of news releases via email." Along the way he shares some nutty statistics about the growing legal problem of frivolous patents.

- [https://www.ted.com/talks/andrew_blum_what_is_the_internet_really](https://www.ted.com/talks/andrew_blum_what_is_the_internet_really) When a squirrel chewed through a cable and knocked him offline, journalist Andrew Blum started wondering what the Internet was really made of. So he set out to go see it — the underwater cables, secret switches and other physical bits that make up the net.