





Copyright infringement

- Direct infringement
 - You uploaded, downloaded, copied, sang, ...
- Contributory (kind of indirect) infringement
 - Knowledge and participation (supply device)
- Vicarious (kind of indirect) infringement
 - > Ability to control, financial benefit
- Proof, precedent, evidence
 - > What have courts say, what can you show

Compsci 82, Fall 2011

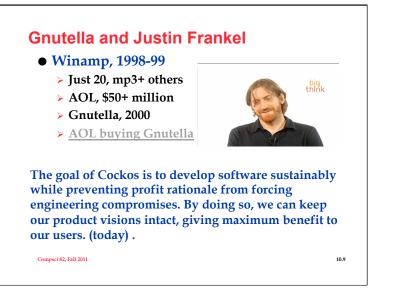
10.7

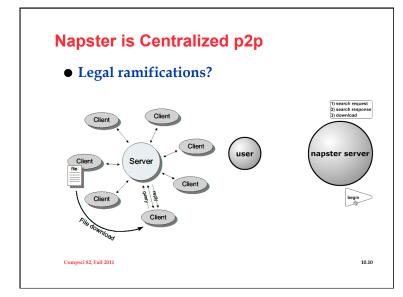


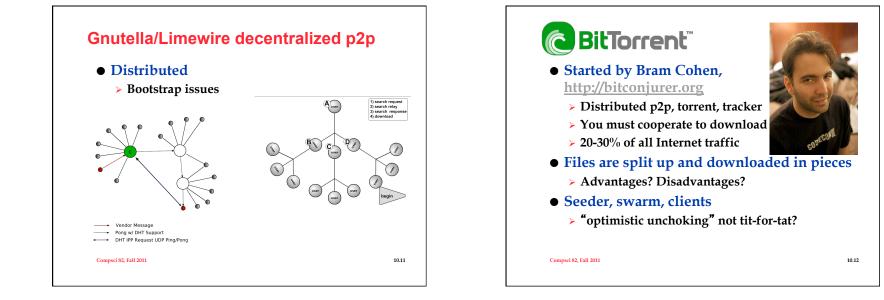
- Shawn Fanning
 - > Napster, 1998-99
 - Centralized server, distributed "peers"
 - ▶ Under 20, mp3, ...
 - Still doing startups
- Napster started music peer-to-peer



Compsci 82, Fall 2011







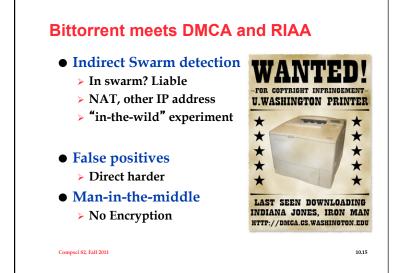
Brian Fox

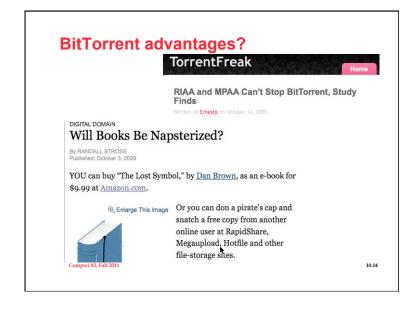
GNU Bash Shell (developer)
Buddycast (co-developer)
"each person has a sweet spot – a place where they are incredibly productive and at their happiest while doing so – okorians spend their lives living there – the okori sweet spot is the realization of the concept, the delivery of the impossible, from the germ of the idea to the instantiation of it"



10.13

http://www.theokorigroup.com/sweet_spot Compsci 82, Fall 2011





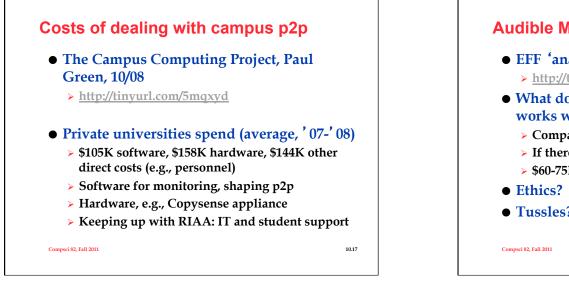
Kazaa and Skype, Disruptive?

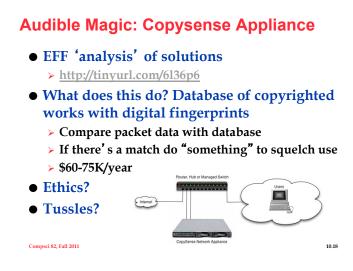
"Skype literally touches millions of lives and this is something to be proud of...I would like to think that we have contributed to making the world a little bit flatter."



www.crunchbase.com

When Niklas is not creating innovative, disruptive businesses, he is a passionate sailor and enjoys offshore racing with his wife as well as skiing. (Niklas Zennstrom)







- From \$1,500 to \$58,000 (Packeteer, there are others)
 - Look at where packets go, specific port
 - http: 80, limewire: 6346, Edonkey: 4662, ...
 - Look at what type of information packet carries
 Typically don't need to do "deep" inspection
- Throughput, latency, throttling
 - > Change network behavior



Deep Packet Inspection

- Comcast (2007) DPI to shape/deter p2p traffic
 - Look at packets and then deploy subterfuge
 - Forge RST (reset) packet, similar technique to what's done with Great Firewall of China
- Machine A "forges" a reset packet from machine B and sends to C. C then cuts off communication to B
 - > Really? Is it that simple?
 - > Violates end-to-end principle, havoc wreaking

Compsci 82, Fall 2011