Open Source The Church of Emacs

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Overview

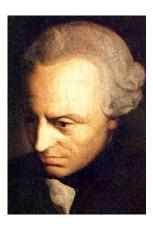
Overview

- Richard Stallman
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Analysis

Stallman's Argument: Basis

- A deontological standpoint
- Stallman as an ethical essentialist
 - proprietary software
 - restricted data formats
 - internet services
 - surveillance
 - "always bring up [free software] as an ethical issue" (Stallman, 2011, para. 63)



Stallmans Argument: Logos

- Deductive reasoning
 - tobacco and proprietary software comparison (Stallman, 2011, para. 55)
- Contradictory premises
 - dismissing economics of free digital society (para. 34)
 - ▶ later addressing economics of digital media (para. 109)

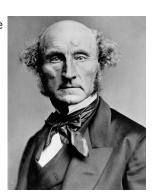
Stallmans Argument: Pathos

- Use of strong characterizations
 - "Computers are Stalins dream" (2011, para. 3)
 - ► All DRM should be illegal (para. 30)
- Strong appeals to tradition
 - values derived from a non-digital society
 - Amazon Kindle (para. 98)
- Calls Amazon Kindle (para. 98)
 - an immediate end to digital surveillance
 - you cant wait until there is another dictator (para. 13)

Practical Advantages of Open Source

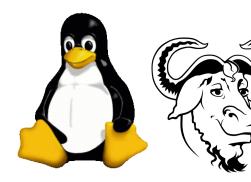
Software for Freedom vs. Freedom for Software

- Needs fulfilled by free software
 - a need for software
 - a need for ethical software and practices
- Stallman's emphasis on a "free digital society"
- Consequentialist stance on free software
 - open source vs. free software
 - a less radical approach
 - weighing the utility of open source
 - need-driven software (Bisson, 2007, p. 17)



GNU + Linux, GNU/Linux

- The GNU operating system
 - "written for your freedom" (Stallman, 2011, para. 48)
- The need for a kernel
 - ▶ 1990: GNU Hurd
 - ▶ 1991: Linux
- Fusion of Linux and GNU
 - ► GNU + Linux, or just Linux?
 - ► Torvalds vs. Stallman



Linux: open source success principles

- Using / creating the best tools for the job
- Not started with open source in mind (Torvalds, 3:30)
- Open source contributions
 - GPL and copyleft
 - Collaborative efforts and development
 - Formation of a communities around open-source code
- Flexibility
 - Availability of source code promotes reuse
 - power saving on Linux cellphone benefit Linux supercomputers (Zemlin, 2013, 11:34)

Another Success Story - Apache HTTP Server

- Most popular web server since 1995
- Open source project
- Inherited the NCSA Common Gateway Interface.
- Repurposed software components
 - enabling efficient software development (Bison, 2007, p. 17)



Preventing Obsolescence

- Vendor lock-in
 - warned against by Stallman (2011, para. 54)
- Proprietary software creates vendor dependency
 - maintenance
 - updates
 - support
- Case Study: Electronic voting machines (Colannino, 2012, p. 916)
 - migration to electronic voting machines
 - software escrow
 - code was licensed for testing, not deployment.

Quality Assurance

- ► Linus's Law
 - ► 6,782 lines of code added/subtracted from Linux daily (Zemlin, 2013, 12:03)
- Software peer-review
- Core developers and user developers
- Mozilla bug reports (Wang, Shih, & Carrol, 2015, p. 352)
 - value differences
 - skill differences
 - reciprocal skill transfer
 - disorganization preventable

