


# Open Source is not free Software



# What is “open source” software?

---

- source = software in source code form
- open = freedom to:
  - View the source code
  - Run the software for any purpose
  - Modify the software in any way
  - Distribute the software and any modifications
- Software development model
- Share and collaborate
- Licensing Model

# What is “Free software”?

---

- Free software
- Word Access

# Misperception

---

- *Free means there is no monetary cost*
- *Open source is free development*
- *Open source means poor quality*
- *Open source has no support*
- *Open source is bad for business*
- *Open source does not generate business revenue*

# Other Labels for “Open Source”

---

- Free software
- Copyleft
- Community software
- Public software

# Who Makes Open Source Software?

---

- Hackers (not crackers)
- Hacker notables
  - Richard Stallman (Free Software Foundation)
  - Eric Raymond (*The Cathedral and the Bazaar, Homesteading the Noosphere*)
  - Linus Torvalds (Linux)
  - Bruce Perens (Open Source Definition)
  - Richard Stallman in 1983 start campaigned
  - 1984 GUN GPL was lunched

# How is it Developed?

---

- Scratching an itch
- Collaborative development
- Peer review
- Centralized decision-making
- “*Given enough eyeballs, all bugs are shallow*”  
Eric Raymond
- Forking

# Who Uses Open Source Software?

---

- At first: hackers
- Now: lots of people
  - Internet backbone: Apache, Sendmail, BIND
  - Linux
  - I.B.M., Intel, Apple, H.P., Sun
  - Commercial businesses
  - Federal and state governments
  - E.g., China, Mexico, Indonesia, Japan, Germany



# Open source software as a business

---

- *“Think ‘free speech,’ not ‘free beer’”*

Richard Stallman

- Branded distributions
- Sell hardware, give away software
- Sell services and support
- Dual versions
- Dual licensing
- Value added software
- Sell sponsorships

# Licensing: the Force behind open source

---

- “Free” and “open” is not:
  - Public domain
  - Copyright “first sale”
  - Shareware or freeware
- Licensing makes it work
  - Control over use
  - Risk shifting
  - “To stay free, software must be copyrighted and licensed.” Debian GNU/Linux Group

# Open source licensing models

---

- GNU General Public License
- BSD-style license
- Other models:
  - Mozilla
  - I.B.M., Apple, Intel, RealNetworks, etc.
  - Artistic license
  - GNU Lesser GPL
- Open Source Initiative ([opensource.org](http://opensource.org))

# BSD-style license

---

- Key terms:
  - License grant: unlimited use, modification, distribution
  - No warranties; disclaimer of consequential damages
  - No endorsement
  - Attribution



Questions?