

# A Cost-Sharing System for Open, <sup>h</sup> Sustainable Developer Collaboration

Clark C. Evans (cce@clarkevans.com) Friday, July 20, 2018 2018 OSEHRA Open Source Summit

BuyLibre Cooperative

BuyLibre is a market for *changes* to **user-owned** software.



Cage Free

As users pay for improvements to their software, they will control its evolution.

#### Fair Trade

As developers produce changes to user-owned software, they may earn market compensation.

# **Copyright: Exclusive Derivatives & Distribution**

"To promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries." 17 U.S. Code §106

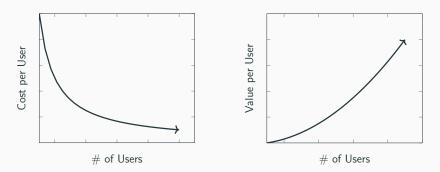
"The owner of copyright under this title has the exclusive rights to do and to authorize any of the following: (1) to reproduce the copyrighted work in copies; (2) to **prepare derivative works** based upon the copyrighted work;

(3) to **distribute copies** of the copyrighted work to the public by sale or other transfer of ownership, or by rental, lease, or lending; ..."

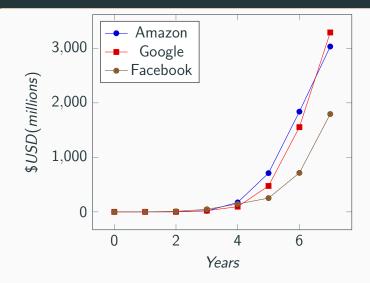
#### Software Economics & Network Effects

As the number of users increases...

cost per unit approaches zero extrinsic network effect value goes up and up



### **Unicorns! Software Platform Revenue Growth**



Source: The Hockey Stick Principles, Bobby Martin (2015)

#### Software Should Not Have Owners

"The Free Software Foundation is dedicated to eliminating restrictions on copying, redistribution, understanding and modification of software. The word "free" in our name does not refer to price; it refers to freedom. First, the freedom to copy a program and redistribute it to your neighbors, so that they can use it as well as you. Second, the freedom to change a program, so that you can control it instead of it controlling you; for this, the source code must be made available to vou." - Richard M. Stallman, February 1986

Stallman later added freedom to distribute your changes and use the software for any purpose.

#### Free Software: What is the Revenue Model Again?

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Common suggestions for free software revenue models include distribution, support, indemnification, grants, training, hosting, consulting, swag, and donations.

# **Open Source: Pragmatic Rebranding (1998)**

"Practical for non-differentiating software" - Bruce Perens

- Neutralize competition (Google funds Firefox)
- Lower recruitment costs (Facebook's React)
- Enable sales of proprietary features (Nginx)
- Reduce expense of cost centers (Apache Web Server)

Open Source is a strategic, pragmatic professional courtesy among developers.

Open Source licensing provides *developers* a diverse ecosystem of excellent, free software.

- Developers can **use** these works in any way.
- Developers can **study** the source code.
- Developers can **modify** these works as they wish.
- Developers can **compose** new works from others.

Open source encourages vigorous competition for change.<sup>1</sup>

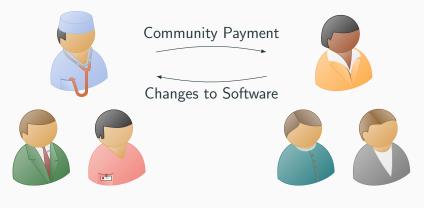
 With exception of critical infrastructure and security. See the Ford Foundation's report entitled, "Roads and Bridges: The Unseen Labor Behind Our Digital Infrastructure". With a few exceptions, the Open Source movement has failed to provide software freedom to users.

- Users are often locked in to a single vendor.
- Users lack control over their software's evolution.

User freedom is urgent.

- With prevalence of software-as-a-service, users have even *less* control than 1986.
- With increasing automation, users have even more dependence on the software systems they use.

### Towards a Free Market where Cash Signals Value



User Community

Software Developers

Users need competition for the *change* in the software they have adopted and become dependent upon.

| Licensing Model | Challenge                          |
|-----------------|------------------------------------|
| Proprietary     | Vendor controls software evolution |
| Open Source     | Cash doesn't signal user value     |

Copyright law provides the exclusive right to **prepare derivative works** and **distribute copies**.

|                | Vendor Controls<br>Product Direction | Competition for<br>Software Change |
|----------------|--------------------------------------|------------------------------------|
| Paid           | Proprietary<br>(Commercial)          |                                    |
| Free of Charge | Proprietary<br>(Freeware)            | Open Source                        |

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|                | Vendor Controls<br>Product Direction | Competition for<br>Software Change |
|----------------|--------------------------------------|------------------------------------|
| Paid           | Proprietary<br>(Commercial)          | BuyLibre<br>Cost Sharing           |
| Free of Charge | Proprietary<br>(Freeware)            | Open Source                        |



Competition for the *change* in the software a user has adopted and integrated.

- 1. Open market sets prices
- 2. Choice of upgrades & product evolution
- 3. Stability via redundant vendors
- 4. Vendors accountable to user needs

# **Collective Ownership needed Cost Sharing**

| Own Your<br>Software | Licensing Model | Controlled By           | _ |
|----------------------|-----------------|-------------------------|---|
|                      | Proprietary     | Vendor                  |   |
|                      | Open Source     | "Software Has No Owner" |   |
| L'                   | BuyLibre        | Consumer Cooperative    |   |
|                      | ·               |                         |   |

# A Consumer Cooperative for Cost-Sharing



Online Store for User-Owned Software

- 1. Operates a marketplace
- 2. Voluntary and open membership
- 3. Democratic member control
- 4. Member economic participation
- 5. Doesn't participate in marketplace it administers

Profits are rebates, distributed to members proportional to their purchases (via 1099-DIV).

### **User Freedom and Developer Compensation**

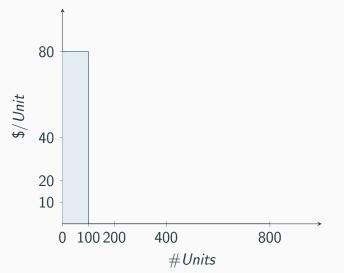


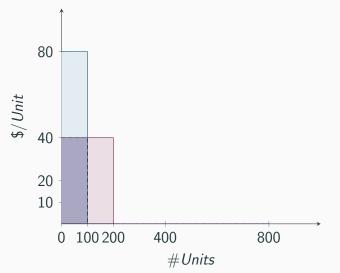
| Cage Free                      | Fair Trade                    |
|--------------------------------|-------------------------------|
| Users may have their software  | Developers may improve        |
| changed to meet their needs    | works made by others,         |
| by anyone they wish.           | regardless of who wrote it.   |
| Users' costs are shared across | Developers can recover market |
| those who adopt the software   | compensation reflecting the   |
| with them.                     | value of their contributions. |

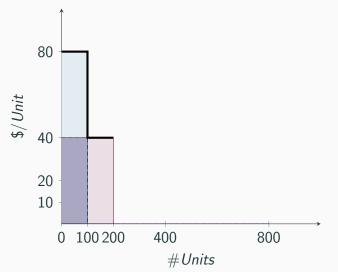
Users purchase *changes* to the software they collectively own. Developers incrementally sell works to the *community* as a whole.

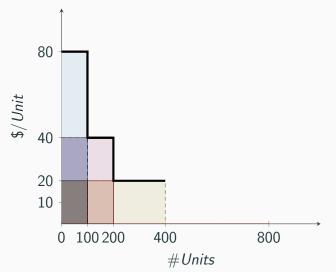
## Software Consignment Cost Sharing

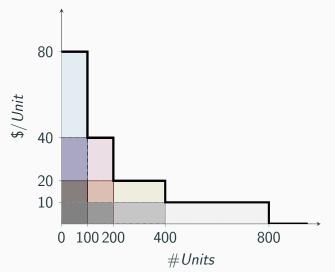
- 1. Developer assigns joint copyright of their software to BuyLibre in exchange for a revenue sharing contract that names a *per-unit price* and a *total community cost*.
- 2. Users license the work from BuyLibre, at the per-unit price plus a transaction surcharge.
- 3. For each unit sale, BuyLibre pays the developer at the agreed upon per-unit price until the total community cost has been reached; the developer is fully compensated.
- 4. BuyLibre then continually lowers the price, rewarding early adopters from additional sales.
- 5. Once the average price paid by users reached 12.5% of the initial price or 7 years have past, it becomes free software.



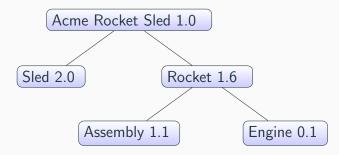




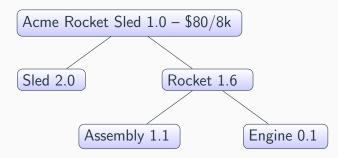




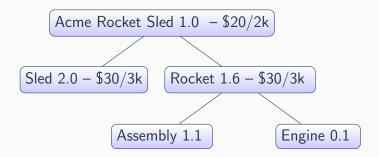
Software is a composition in time and space.



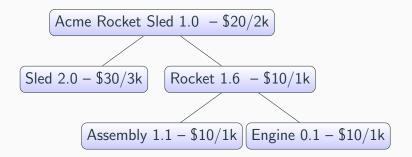
Software pricing is a composition in time and space.



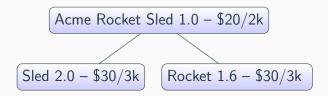
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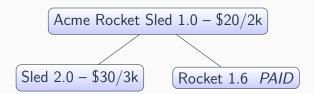


Users don't pay for previously licensed works.



Rocket Sled is \$80/8k .

Users don't pay for previously licensed works.



Rocket Sled is discounted to 50/8k if a user has already paid for Rocket 1.6.

#### **Competition for Upgrades Is Possible**

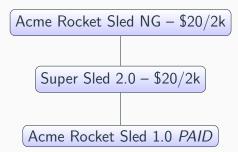
Acme Rocket Sled 1.0 – PAID

### **Competition for Upgrades Is Possible**

#### Acme Rocket Sled 2.0 – 100/10k

#### Acme Rocket Sled 1.0 PAID

### **Competition for Upgrades Is Possible**



### Community Vision for Free-Market Software

BuyLibre is a market for *changes* to user-owned software.



#### Cage Free

As users pay for improvements to their software, they will control its evolution.

#### Fair Trade

As developers produce changes to user-owned software, they earn market compensation.

https://buylibre.org - Will you join us?

#### **Common Pool Resources**



#### Common Pool Resources

- Lush and dense ecosystems
- Cooperative Governence > Public or Private Ownership

Just as in open source software, trusted trade names keep forks from being a problem for users.

BuyLibre would only have limited license to use a product's trademark, for the sale of the work.

Competing works, even if they shared substantial code, would have to build their own trust.

A *unit* would be some form of usage normalization that reflects different sorts of buyers and economics.

- Each unit could be a per-seat or user.
- A unit could be based upon net earnings.
- A unit could have an "alternative minimum".
- A unit could have good-faith exceptions.

Decisions like this are why a cooperative with democratic control by the user community is absolutely essential.