

How to Understand



Free & Open Source Software

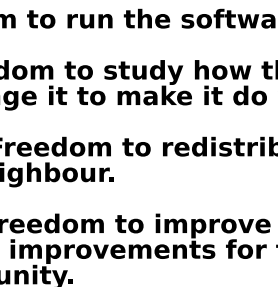


Rev 25 2009-07-21

A visual guide by Martin Owens

Why Does it Exist

The ideas of Free and Open Source software are driven by the social and political ideals of Free Software, defined by the four kinds of freedom, for the users of the software:

- 
1. **Control** - Freedom to run the software, for any purpose.
 2. **Education** - Freedom to study how the program works, and change it to make it do what you wish.
 3. **Consideration** - Freedom to redistribute copies so you can help your neighbour.
 4. **Collaboration** - Freedom to improve the program, and release your improvements for the betterment of the whole community.

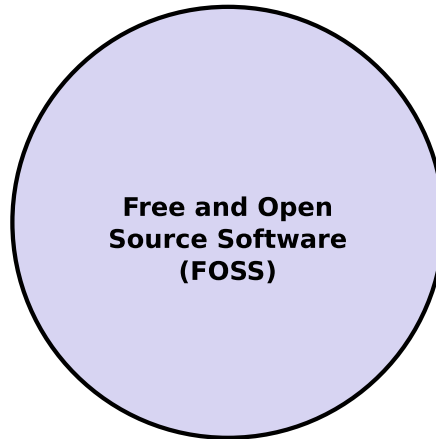
Think Free as in speech, not free as in money.

The Free Software Definition, Free Software Foundation
<http://www.fsf.org/>

How it Works

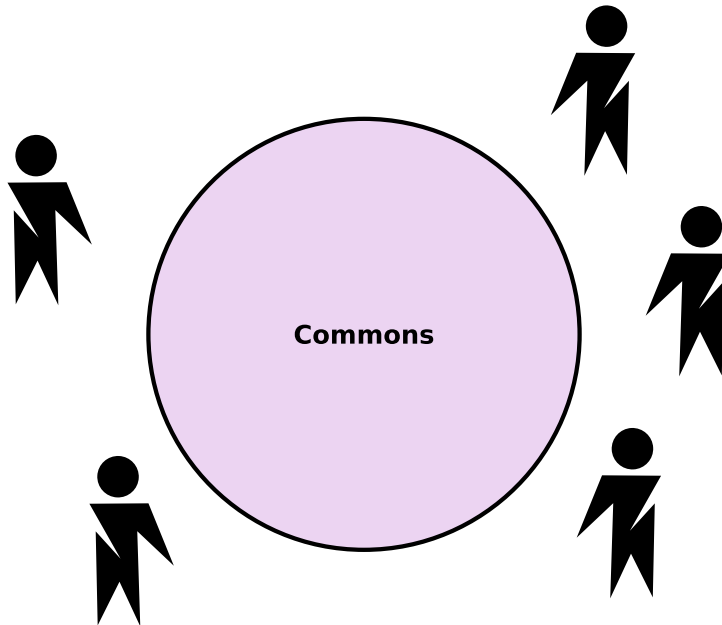
The ideals of Free Software are the right reasons, but reasons alone aren't enough to make good software that respects user's freedoms.

We use a most effective economic commons system called Open Source to organise the work and together we get FOSS:



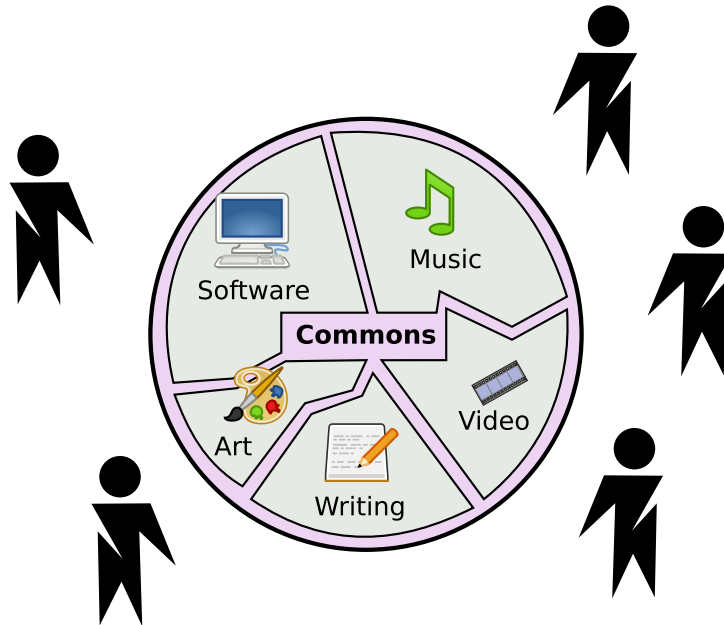
The Commons

**Resources that are accessible to everyone,
regardless of country or ability to pay.**



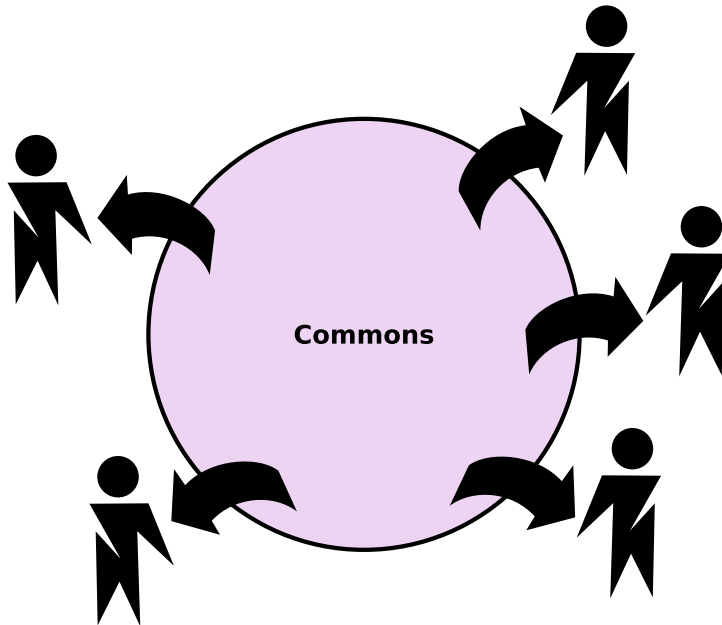
The Commons

**These resources can be anything.
The Creative Commons is for all types of creative works.**



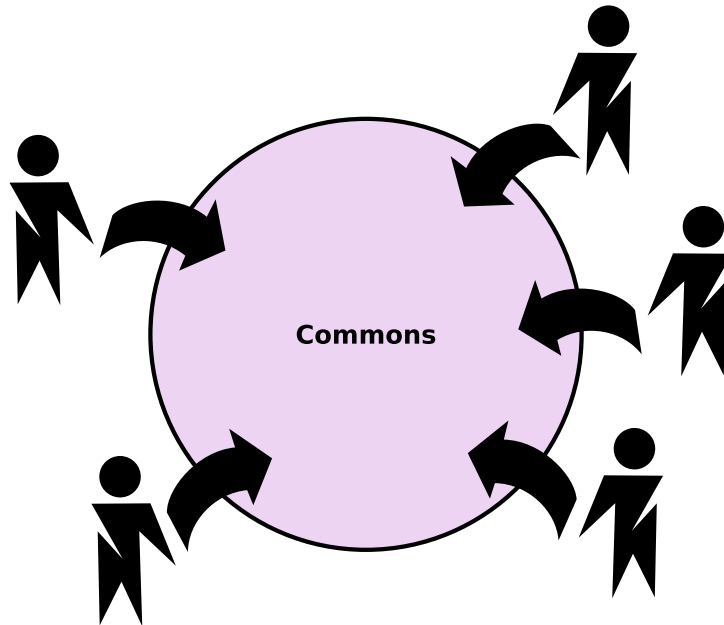
The Commons

Everyone can make copies of anything
in the Creative Commons.



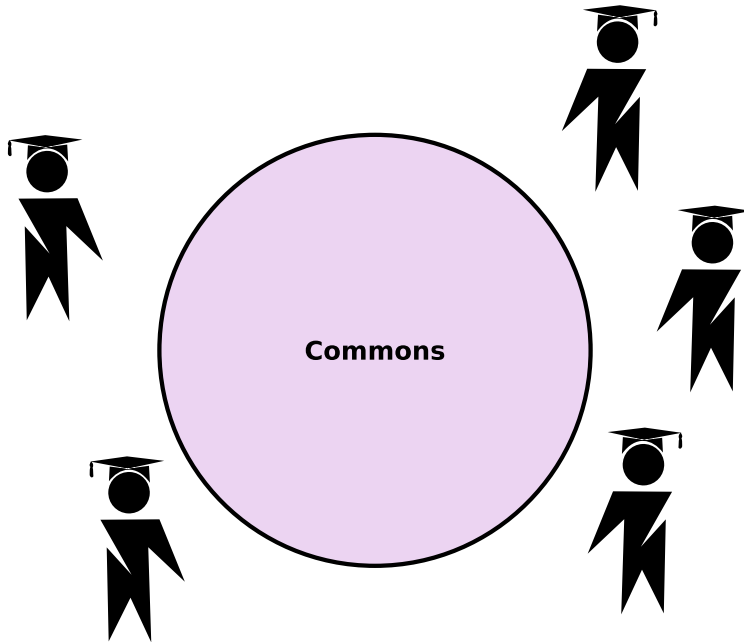
The Commons

**Everyone can add anything
to the Creative Commons.**



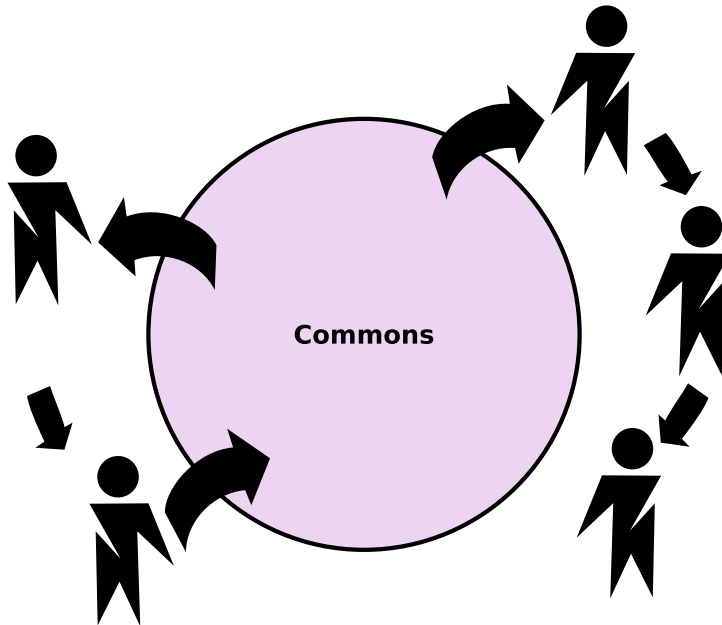
The Commons

**Everyone can learn from
the Creative Commons.**



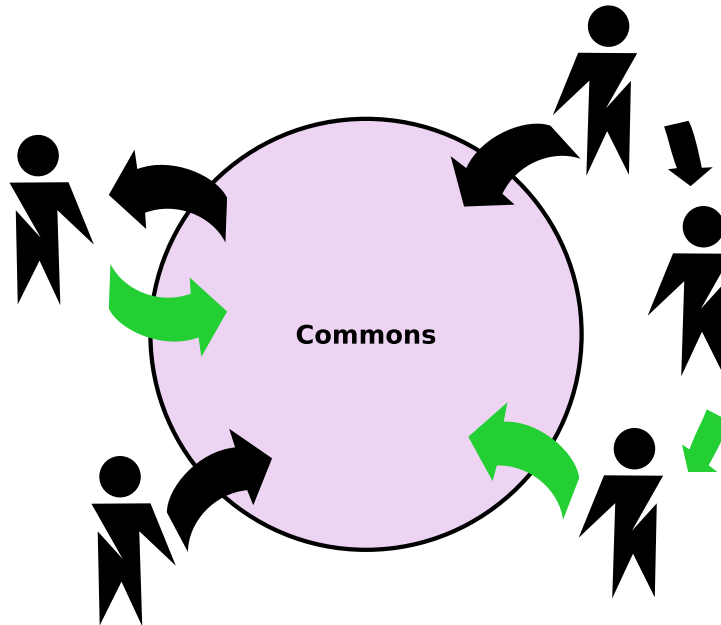
The Commons

**Anyone can share the Creative Content
with anybody else.**



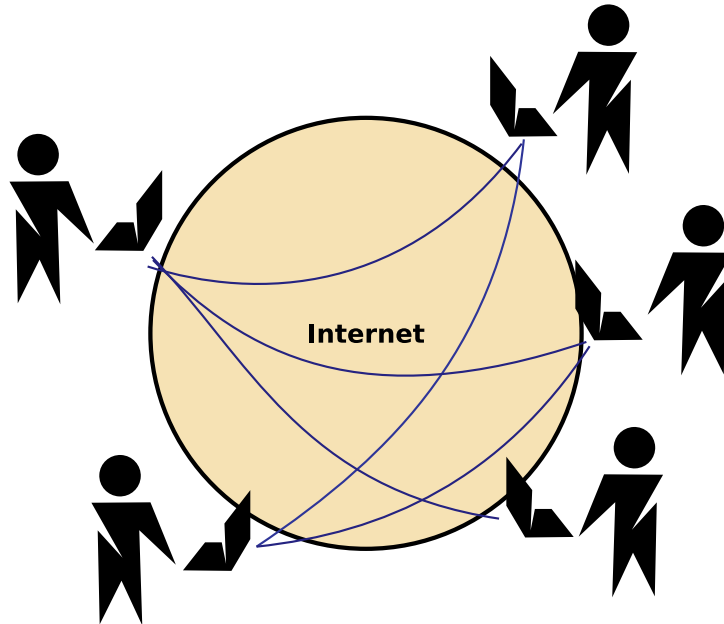
The Commons

Because the source is available, anyone can build on other works to create new "derivative" works.



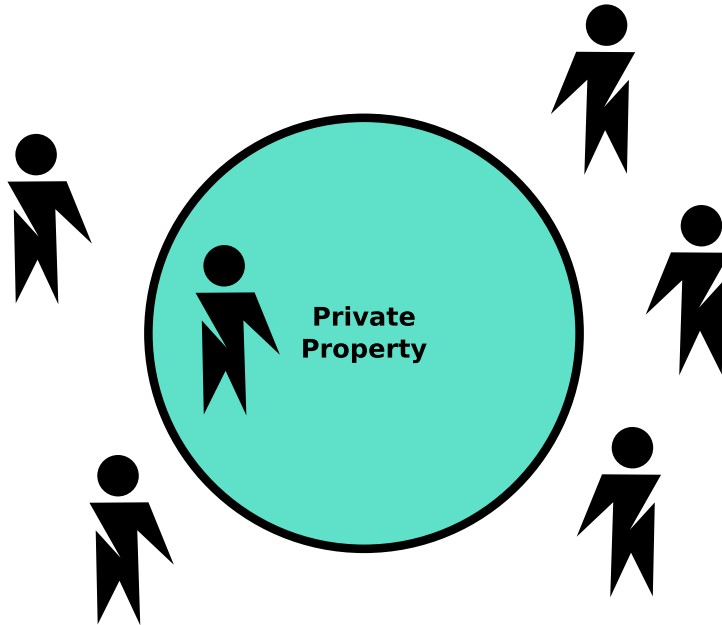
The Internet

**The Internet allows this free exchange
of ideas and creative works across the whole world.**



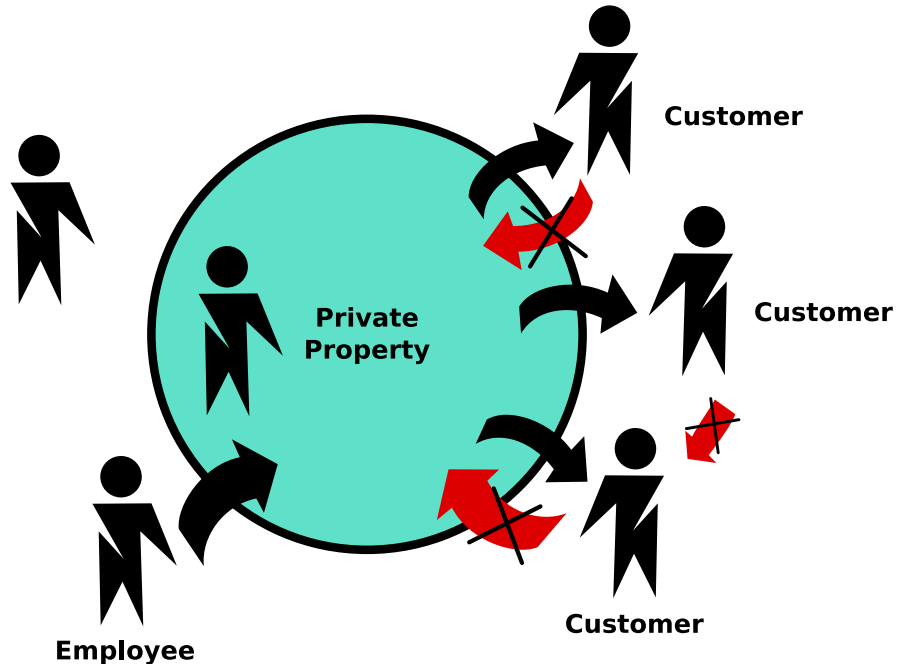
Closed Source

**Closed source is the same as Non-Free.
It is the creation of content as a private property freely
accessible only to the owner (company or person).**



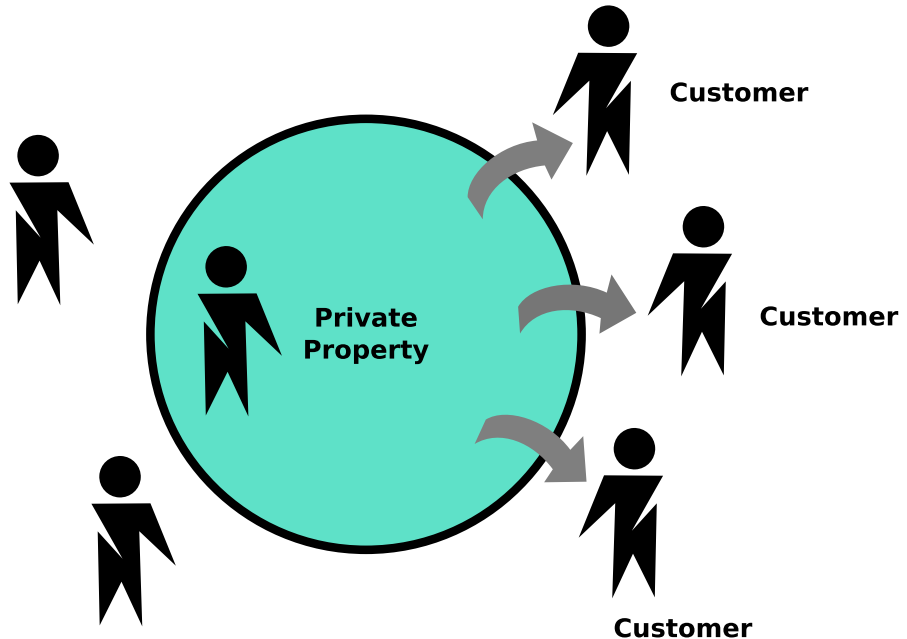
Closed Source

The Private Property model does not allow normal users to share, build upon or learn from the work. Each user is divided.



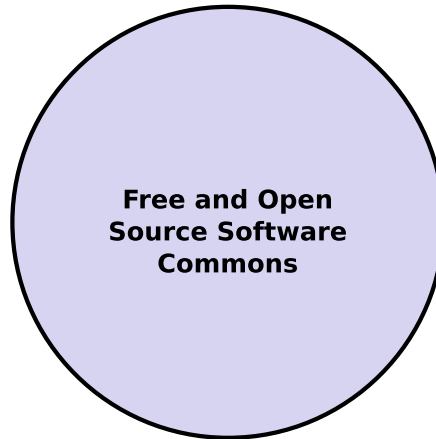
Closed Source

The user has only one right, the right to use. The only option is to find or create a completely different alternative.



FOSS

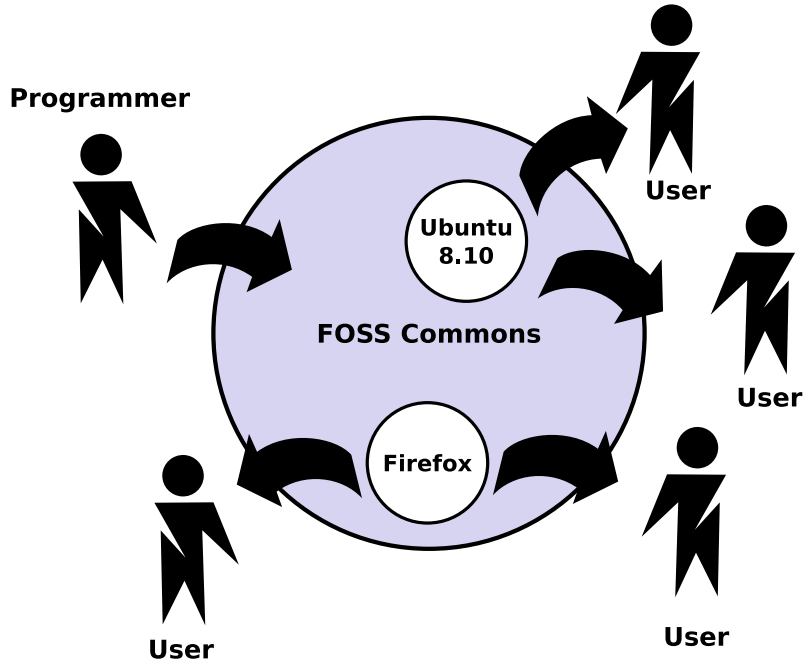
That is why FOSS is a Commons system*, not a Private Property system. This has some implications....



*** also sometimes known as 'copy-left'**

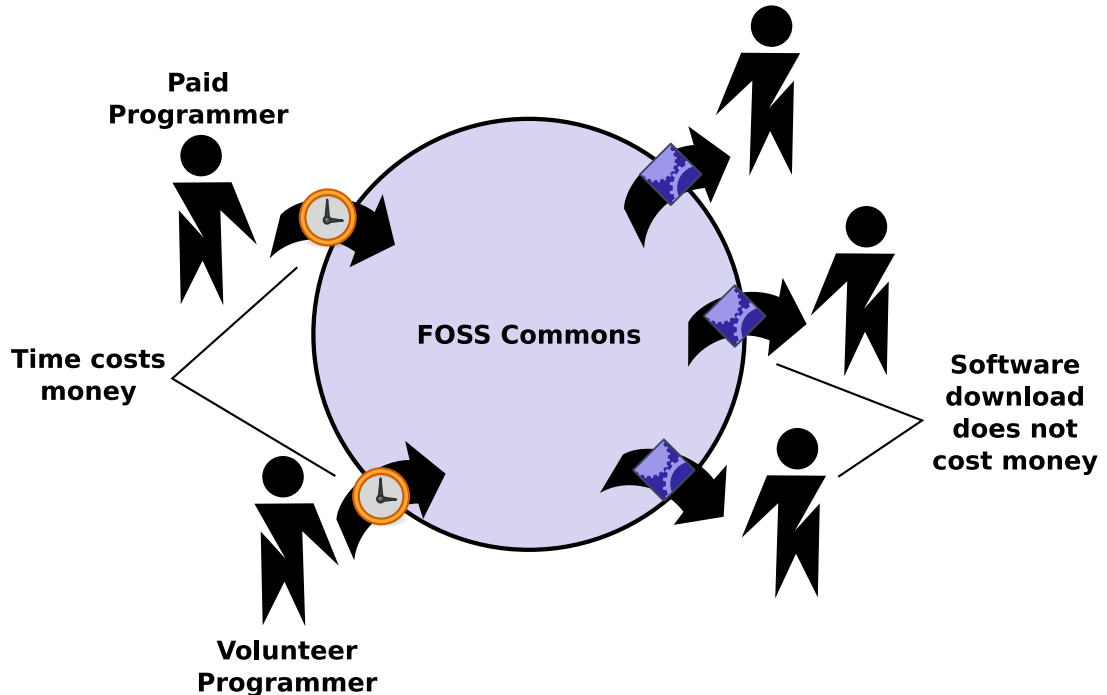
Once Created

Once software has been created and placed into the Commons
It can be used by anyone, for any reason, at any time.
The number of copies is never limited.



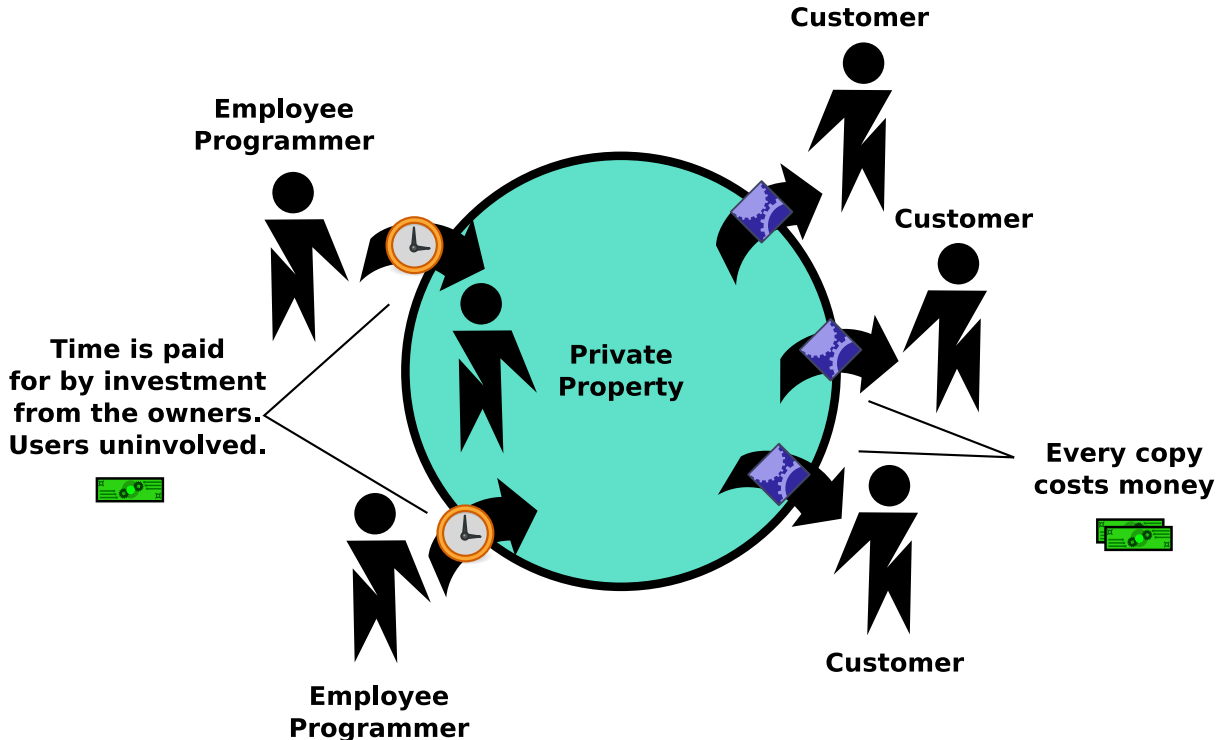
Creation Costs

But software creation, new features and bug fixes do cost resources (money, time, etc).



Creation Costs

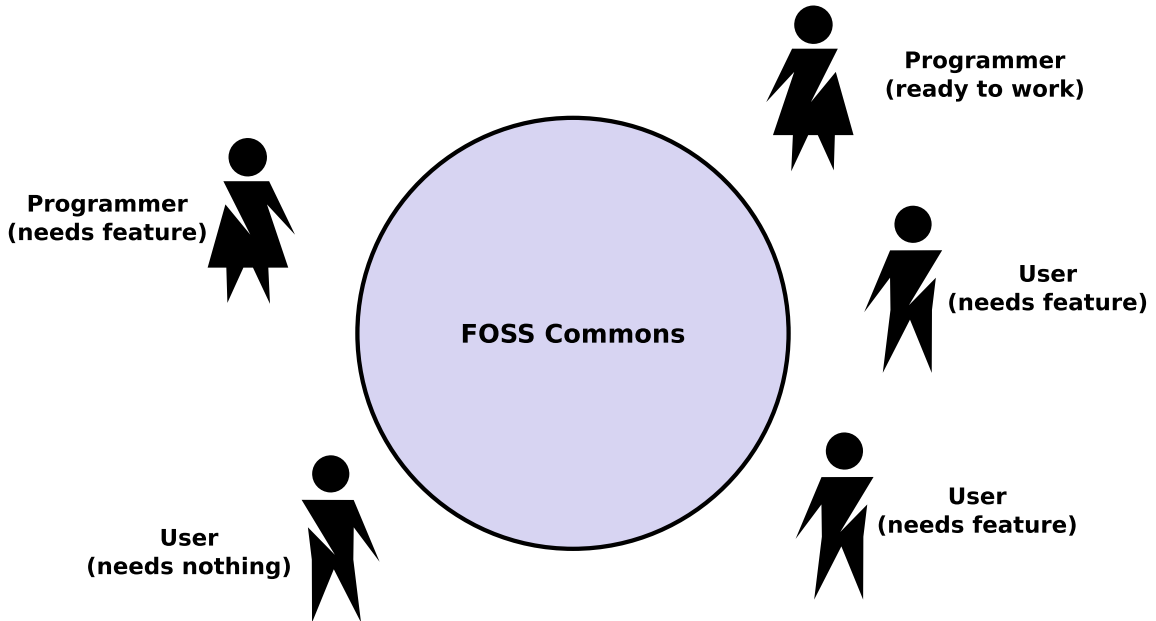
Compared to the costs of closed source.



Paying the Costs

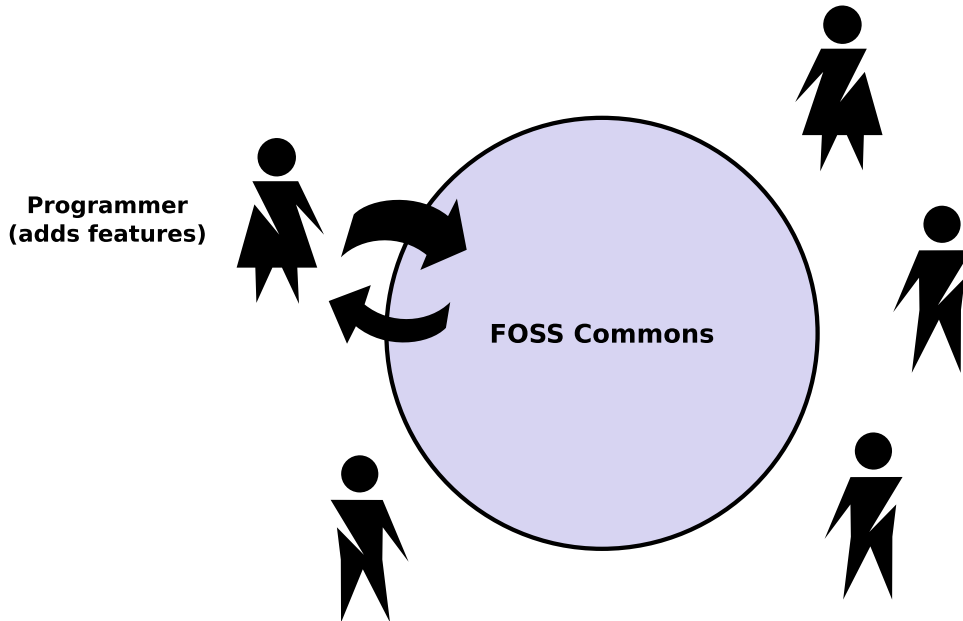
Supporting development costs requires resources.

Example:



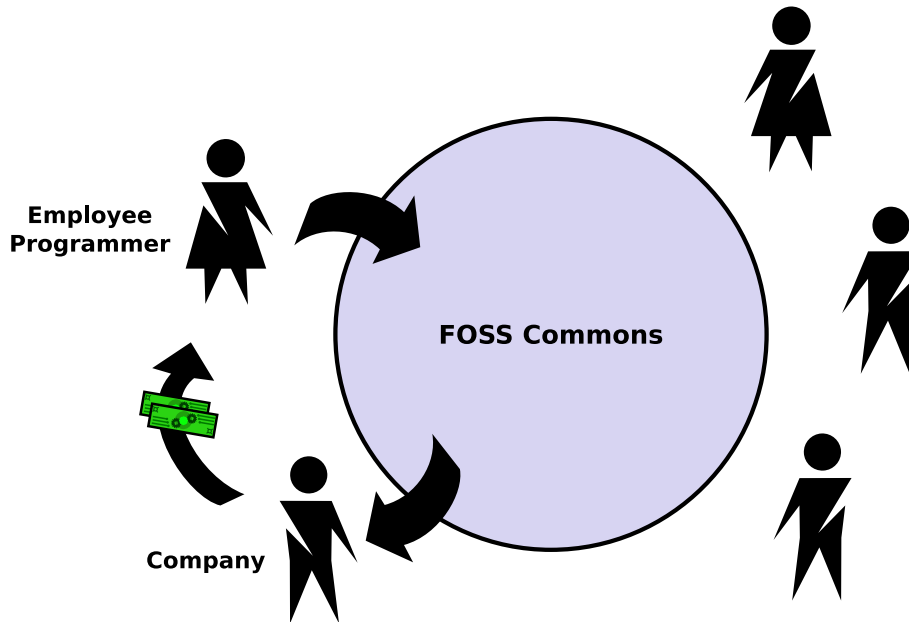
Enlightened Self Interest

A skilled programmer with access to the source code can serve her own needs, giving back to the community in the process.



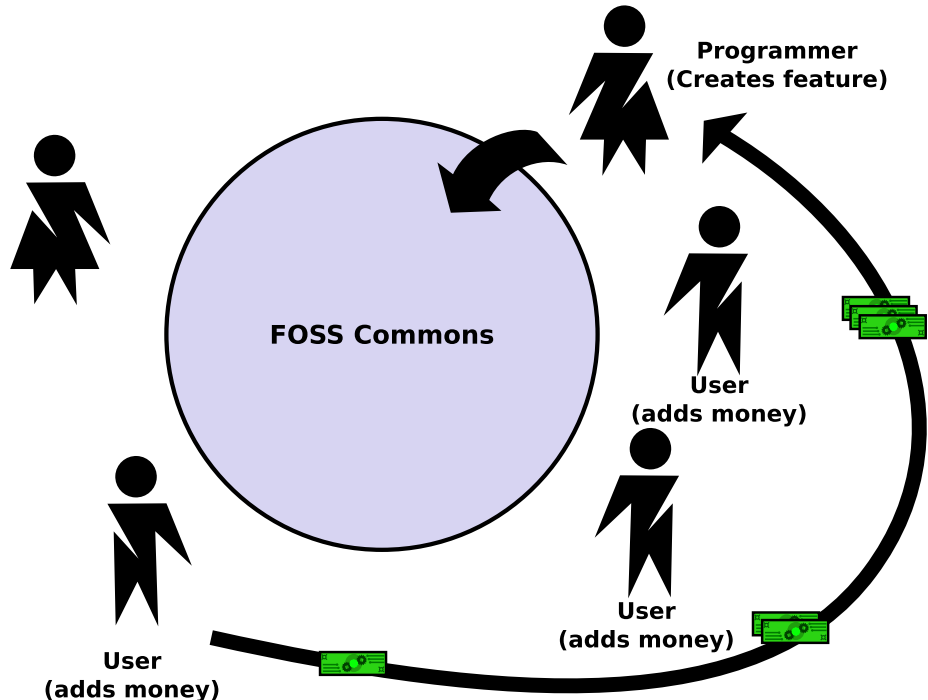
Employed

An organisation can use an employee to serve their software development needs in the commons.



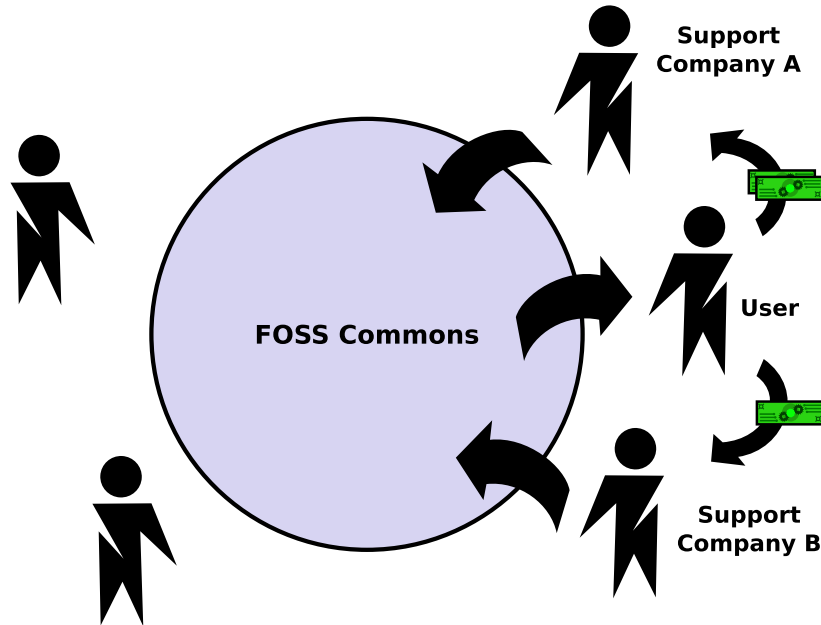
Aggregated Funding

If the programmer can aggregate money from multiple users, she can get paid for creating software they need.



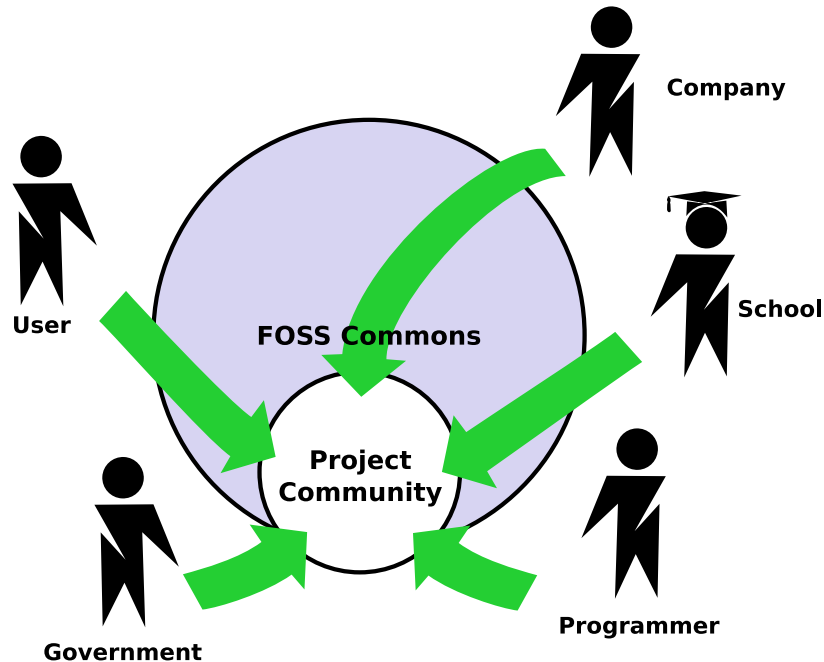
Support

Because users get to choose who supports and develops their software, they have the choice of any service supplier.



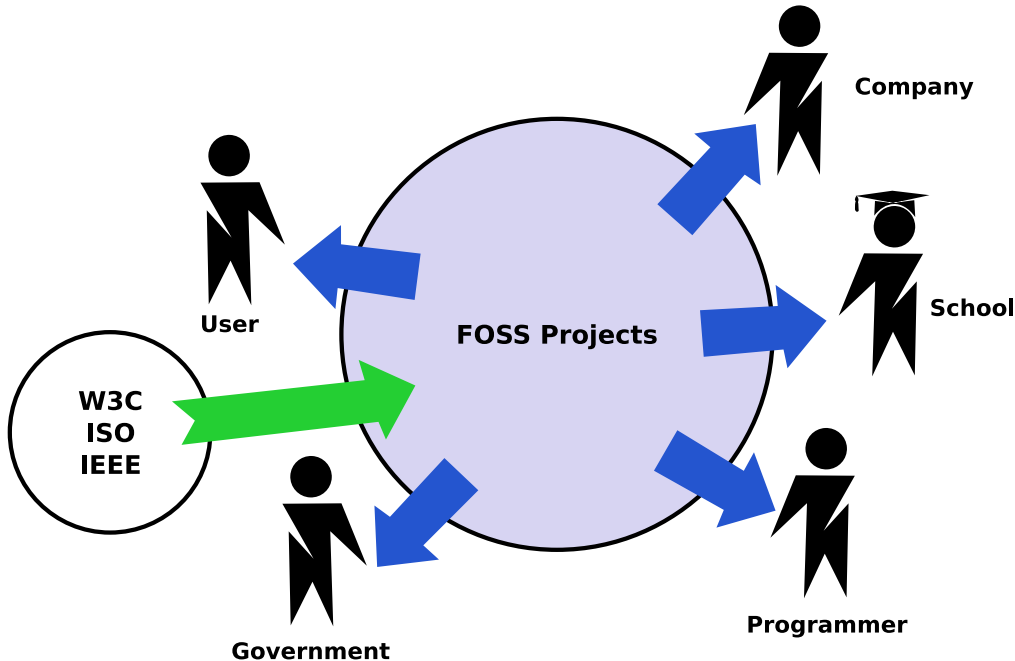
Community

Programmers, organisations and users are all able to work with each other in a community to further the development. With each contributing member, the pace of development increases.



Standards

The number and variety of people developing FOSS makes it very attractive to use international standards. Facilitating sharing of files, even when using two different programs.



The End

FOSS development has many advantages, hopefully this guide has helped you understand how it works.



Free Software Foundation
<http://www.fsf.org/>



Creative Commons
<http://creativecommons.org/>



Open Source
<http://www.opensource.org/>



Electronic Frontier Foundation
<http://www.eff.org/>

Thank you for reading.