



# Wimba and Open Source

## How we collaborate with the community

Peter Grayson

Wimba

Wimba Connect, 2008



## Outline

- 1 Acronym Fun
- 2 Wimba and the Community
- 3 Examples



# GNU?



# GNU?



Figure: A GNU



# GNU?



Figure: A GNU

## GNU's Not UNIX



## GNU?



Figure: A GNU

### GNU's Not UNIX

- Recursive acronym; very geeky



## GNU?



Figure: A GNU

### GNU's Not UNIX

- Recursive acronym; very geeky
- The GNU project aims to create a free UNIX-like operating system



## GNU?



Figure: A GNU

### GNU's Not UNIX

- Recursive acronym; very geeky
- The GNU project aims to create a free UNIX-like operating system
- GNU/Linux for the pedantic



# BSD?



# BSD?



Figure: BSD Demon



# BSD?



Figure: BSD Demon

## Berkeley Software Distribution



## BSD?



Figure: BSD Demon

### Berkeley Software Distribution

- A permissive software licence



## BSD?



Figure: BSD Demon

### Berkeley Software Distribution

- A permissive software licence
- A UNIX operating system



## BSD?



Figure: BSD Demon

### Berkeley Software Distribution

- A permissive software licence
- A UNIX operating system
- West-coast heart of open source



# RMS?



## RMS?

$$f_{rms} = \sqrt{\frac{1}{T_2 - T_1} \cdot \int_{T_1}^{T_2} [f(t)]^2 dt}$$

Figure: rms



# RMS?



Figure: RMS



# RMS?



Figure: RMS

Richard M. Stallman



# RMS?



Figure: RMS

## Richard M. Stallman

- GNU project



# RMS?



Figure: RMS

## Richard M. Stallman

- GNU project
- Free software movement



## RMS?



Figure: RMS

### Richard M. Stallman

- GNU project
- Free software movement
- *Free software as a human right*



# GPL?



# GPL?



Figure: GPL Logo



# GPL?

(GNU) General Public License



Figure: GPL Logo



## GPL?

### (GNU) General Public License

- Most widely used open source license



Figure: GPL Logo



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- Most widely used open source license
- Permits study, modification, and redistribution



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- Original “copyleft” license



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- Permits study, modification, and redistribution
- Original “copyleft” license
- Derivative works must use same license
- *Viral or guarantee of freedom?*



# FSF?



# FSF?



Figure: FSF Logo



# FSF?



Figure: FSF Logo

## Free Software Foundation



# FSF?



Figure: FSF Logo

## Free Software Foundation

- Founded by RMS



## FSF?



Figure: FSF Logo

### Free Software Foundation

- Founded by RMS
- Promotes free software



## FSF?



Figure: FSF Logo

### Free Software Foundation

- Founded by RMS
- Promotes free software
- GNU project and GPL license



# OSI?



# OSI?



Figure: OSI Logo



# OSI?



Figure: OSI Logo

## Open Source Initiative



# OSI?



Figure: OSI Logo

## Open Source Initiative

- Parallel mission to FSF



## OSI?



Figure: OSI Logo

### Open Source Initiative

- Parallel mission to FSF
- Stresses pragmatic benefits of open source software



# OSI?



Figure: OSI Logo

## Open Source Initiative

- Parallel mission to FSF
- Stresses pragmatic benefits of open source software
- Open Source Definition



## OSI?



Figure: OSI Logo

### Open Source Initiative

- Parallel mission to FSF
- Stresses pragmatic benefits of open source software
- Open Source Definition
- Approved licenses



# ESR?



# ESR?

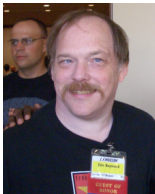


Figure: ESR



# ESR?

Eric S. Raymond

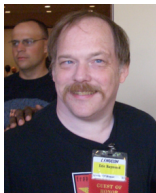


Figure: ESR



## ESR?

### Eric S. Raymond

- Founder of OSI

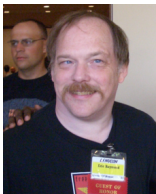


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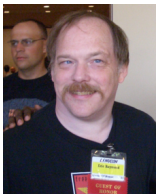


Figure: ESR

- Founder of OSI
- "The Cathedral and the Bazaar"



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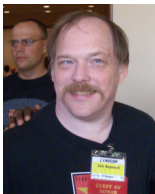


Figure: ESR

- Founder of OSI
- "The Cathedral and the Bazaar"

**Cathedral** software developed in private,  
select participants



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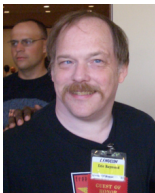


Figure: ESR

- Founder of OSI
- "The Cathedral and the Bazaar"

**Cathedral** software developed in private, select participants

**Bazaar** publicly developed, lots of participants



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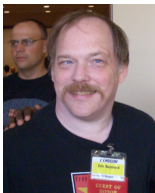


Figure: ESR

- Founder of OSI
- "The Cathedral and the Bazaar"

**Cathedral** software developed in private, select participants

**Bazaar** publicly developed, lots of participants

- Greatly influenced software development



BP?



BP?



Figure: BP?



BP?



Figure: BP



BP?



Figure: BP

Bruce Perens



BP?



Figure: BP

Bruce Perens

- Co-founder of OSI



## BP?



Figure: BP

### Bruce Perens

- Co-founder of OSI
- Former Debian leader



## BP?



Figure: BP

### Bruce Perens

- Co-founder of OSI
- Former Debian leader
- Advocates open source as commercially viable



# F/OSS?



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Figure: F/OSS?



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## F/OSS?



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## Free and Open Source Software



## F/OSS?



Figure: F/OSS?



Figure: F/OSS?

### Free and Open Source Software

- Generic term



## F/OSS?



Figure: F/OSS?



Figure: F/OSS?

### Free and Open Source Software

- Generic term
- a.k.a. Free *Libre* and Open Source Software (FLOSS)



## F/OSS?



Figure: F/OSS?



Figure: F/OSS?

### Free and Open Source Software

- Generic term
- a.k.a. Free *Libre* and Open Source Software (FLOSS)
- Sidesteps the “free” vs. “open” holy war



Acronym Fun  
Wimba and the Community  
Examples  
Miscellaneous

Acronym Significance  
Wimba and F/OSS  
F/OSS and Education

# WIMBA?



# WIMBA?



Figure: WIMBA



# WIMBA?



Figure: WIMBA

## Wimba Isn't My Best Acronym



## WIMBA?



Figure: WIMBA

### Wimba Isn't My Best Acronym

- Why do these acronyms matter?



## WIMBA?



Figure: WIMBA

### Wimba Isn't My Best Acronym

- Why do these acronyms matter?
- What is Wimba's relationship with the F/OSS community?



## WIMBA?



Figure: WIMBA

### Wimba Isn't My Best Acronym

- Why do these acronyms matter?
- What is Wimba's relationship with the F/OSS community?
- How does Wimba and F/OSS relate to education?



## Why do these acronyms matter?



## Why do these acronyms matter?

They define the landscape!



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### They define the landscape!

- Wimba uses GPL, LGPL, BSD, and other open source licenses



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### They define the landscape!

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- ESR identified the development model



## Why do these acronyms matter?

### They define the landscape!

- Wimba uses GPL, LGPL, BSD, and other open source licenses
- ESR identified the development model
- BP identified the business model



# What is Wimba's relationship to F/OSS?



## What is Wimba's relationship to F/OSS?

### Symbiotic



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- Development teams use innumerable F/OSS tools



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- Products deployed on GNU/Linux operating systems



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- Dozens of open source software packages in our products



## What is Wimba's relationship to F/OSS?

### Symbiotic

- Development teams use innumerable F/OSS tools
- Products deployed on GNU/Linux operating systems
- Dozens of open source software packages in our products
- Contribute source code, testing, and *leadership*



# Do you F/OSS?



## Do you F/OSS?

### F/OSS Used by Everyone

- Firefox
- Mac OS X (Darwin)
- Audacity
- Bittorrent



## Do you F/OSS?

### F/OSS Used by Everyone

- Firefox
- Mac OS X (Darwin)
- Audacity
- Bittorrent

### Not so obvious F/OSS

- Windows  
(BSD networking)
- Apache
- Tomcat
- Sendmail



# F/OSS in Wimba Products



## F/OSS in Wimba Products

### F/OSS Tools in Wimba Products

- Apache
- Java
- Perl



## F/OSS in Wimba Products

### F/OSS Tools in Wimba Products

- Apache
- Java
- Perl

### And these too

- CentOS
- Tomcat
- Postgres
- ...



## F/OSS in Wimba Products

### Active Participation

- Asterisk
- PortAudio
- Psi
- TightVNC
- Speex



## F/OSS in Wimba Products

### Active Participation

- Asterisk
- PortAudio
- Psi
- TightVNC
- Speex

### Wimba Led

- iaxclient
- app\_conference
- libvidcap
- JSpeex
- Sakai integration
- Moodle integration



# How does Wimba and F/OSS relate to education?



# How does Wimba and F/OSS relate to education?

Collaboration!



## How does Wimba and F/OSS relate to education?

### Collaboration!

- We borrow, so we share



## How does Wimba and F/OSS relate to education?

### Collaboration!

- We borrow, so we share
- Participation makes software better for everyone



## How does Wimba and F/OSS relate to education?

### Collaboration!

- We borrow, so we share
- Participation makes software better for everyone
- *Just like in higher education*



## How else does F/OSS help our clients?



## How else does F/OSS help our clients?

### Pragmatic Concerns



## How else does F/OSS help our clients?

### Pragmatic Concerns

- Responsiveness
- Quality
- Avoids lock-in



## Moodle and Sakai

- Popular open source Course Management Systems (CMS)



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- Popular open source Course Management Systems (CMS)
- Wimba provides open source integration plug-ins



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- Moodle fully supported



## Moodle and Sakai

- Popular open source Course Management Systems (CMS)
- Wimba provides open source integration plug-ins
- Moodle fully supported
- Both in active development



# Wimba's Video Solution



# Wimba's Video Solution

In the beginning...



## Wimba's Video Solution

### In the beginning...

- ... we used Real Video



## Wimba's Video Solution

### In the beginning...

- ... we used Real Video
- Solved the problem
- Worked reasonably well



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- Could not use for multiway video
- Real was unresponsive



## Wimba's Video Solution

### In the beginning...

- ... we used Real Video
- Solved the problem
- Worked reasonably well

### Problems

- Could not use for multiway video
- Real was unresponsive
- Wimba could not make any changes



# Wimba's Video Solution

(the next generation)



# Wimba's Video Solution

(the next generation)

## Next Gen Video



# Wimba's Video Solution

(the next generation)

## Next Gen Video

- Considered H.264



# Wimba's Video Solution

(the next generation)

## Next Gen Video

- Considered H.264
- Hot codec



# Wimba's Video Solution

(the next generation)

## Next Gen Video

- Considered H.264
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- Difficult to license



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### Solution: Theora



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### Solution: Theora

- Open Source



## Wimba's Video Solution (the next generation)

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### Solution: Theora

- Open Source
- Not patent-encumbered



## Wimba's Video Solution (the next generation)

### Next Gen Video

- Considered H.264
- Hot codec
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### Solution: Theora

- Open Source
- Not patent-encumbered
- High quality codec



# Wimba Video and F/OSS



# Wimba Video and F/OSS

## Contributions to F/OSS



## Wimba Video and F/OSS

### Contributions to F/OSS

- Video support in Asterisk and app\_conference



## Wimba Video and F/OSS

### Contributions to F/OSS

- Video support in Asterisk and app\_conference
- Video support in iaxclient



## Wimba Video and F/OSS

### Contributions to F/OSS

- Video support in Asterisk and app\_conference
- Video support in iaxclient
- New cross-platform video capture library: libvidcap



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- LyX
- Beamer



# Questions?