Open Source Software and Education

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What can Open Source software bring to education?

and vice-versa!

Closed Source Software

Nice, isn't it?

image by shawnzlea at Flickr

You can play with it.

Don't open it.

Don't try to find out how it works.

Open Source Software

Feel free to experiment! You can do whatever with it.

Some assembly required...

image by ckirkman at Flickr

The Four Freedoms

Freedom to run the software

Freedom to study and adapt it

Freedom to redistribute it

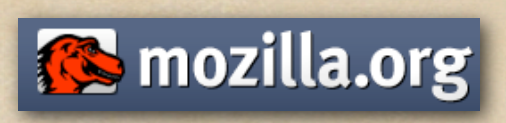
Freedom to improve it

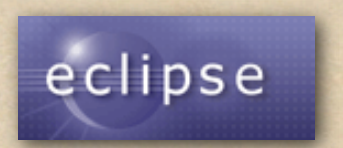
source: gnu.org

Open Communities

It's not the code that counts

It's the community

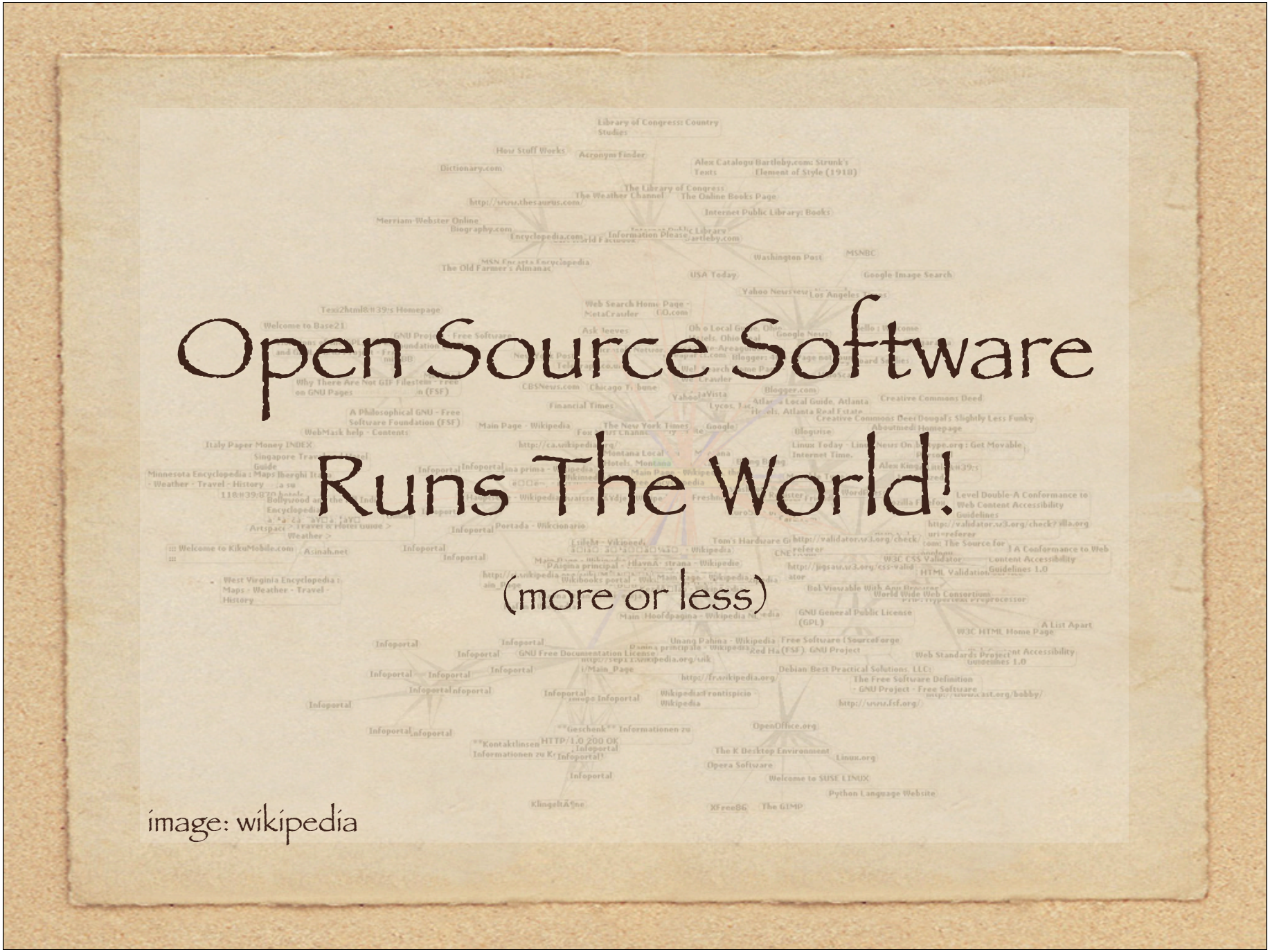




Do You Use

Open Source

Software?


Open Source Software
Runs The World!
(more or less)
image: wikipedia

Students and Open Source Software?

Copying Open Source Software is LEGAL

Using
Open Source Software
is FUN
(often)

Knowing
Open Source Software
is ESSENTIAL

Creating
Open Source Software
is a
GREAT WAY TO LEARN

Students contributing to Open Source Software?

Contributing by...

Creating examples and tutorials

Writing documentation

Participating on mailing lists

Testing and reporting bugs

Writing code

Designing software

Creating new projects

Learning by Doing

The Community

image by jusben at morguefile.com

Remote Collaboration

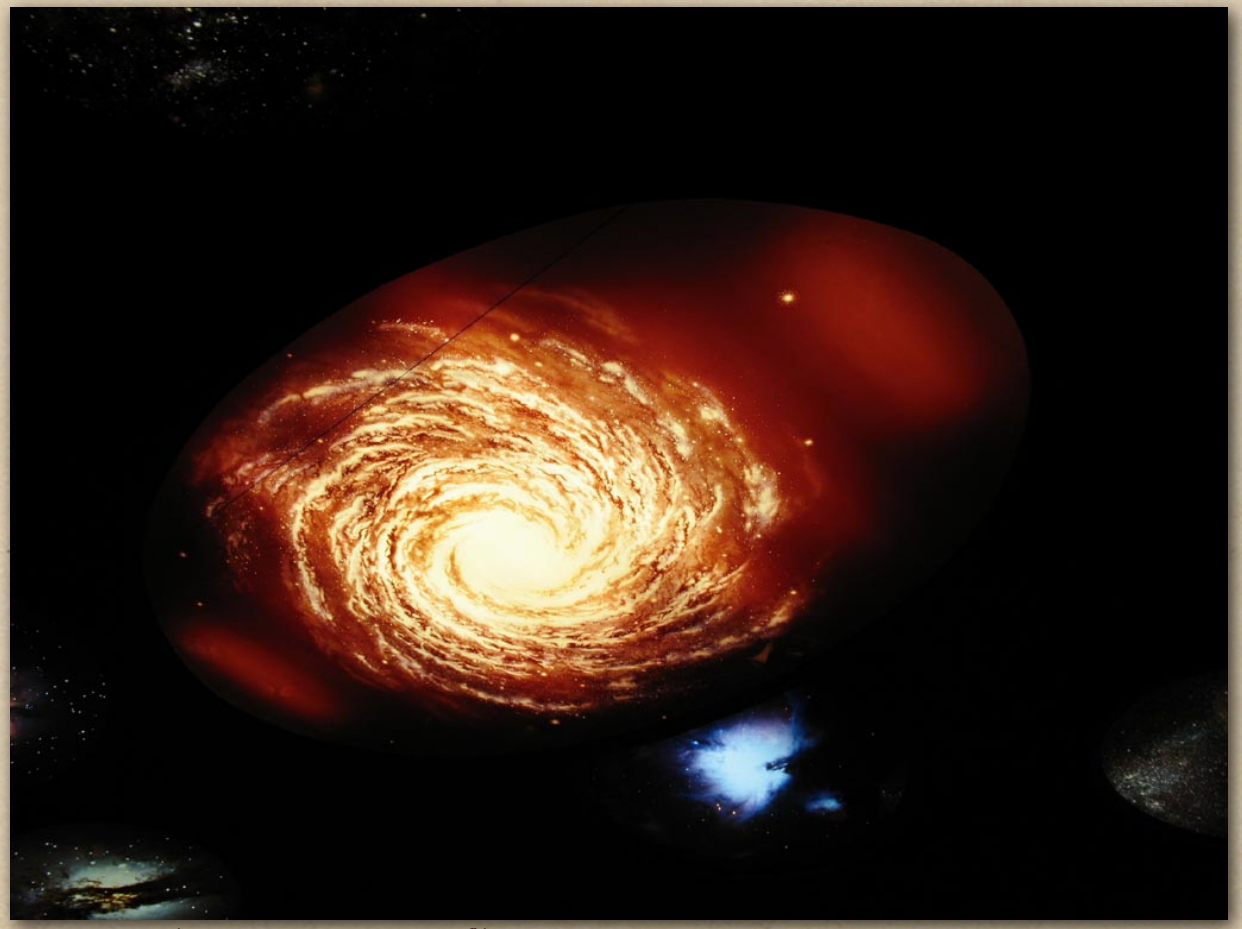


image by carmemlucia at morguefile.com

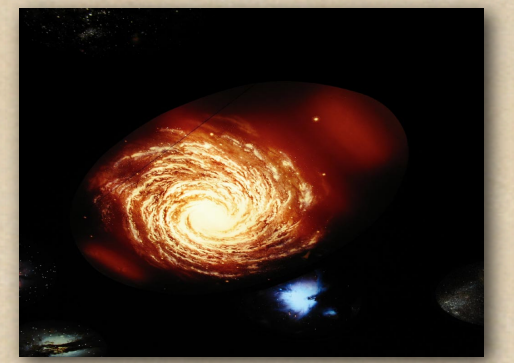
Efficient Communication
(in written form)

image by earl53 at morguefile.com

High-level teams

image by jusben at morguefile.com

Learning by Doing



For teachers as well...

Examples

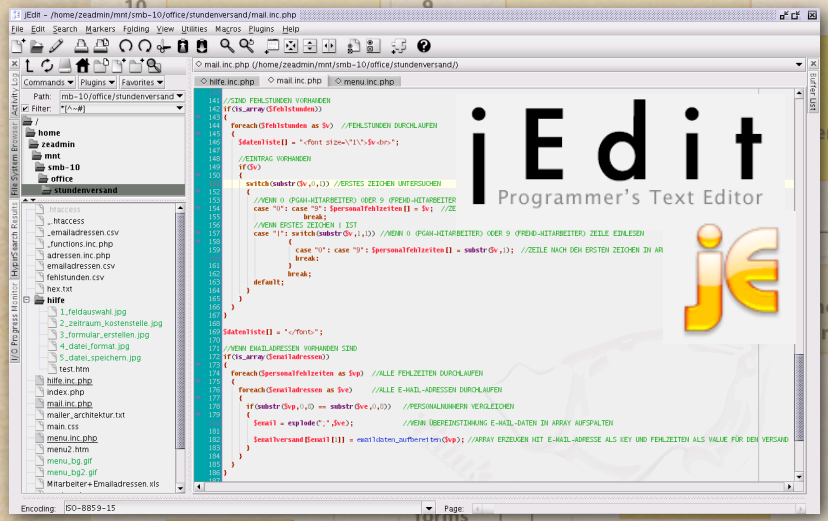
Google Summer of Code

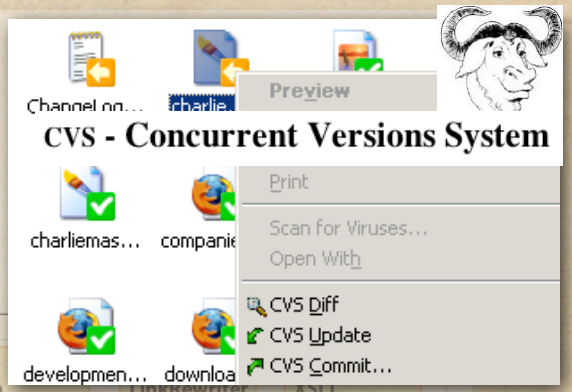
Participating Mentoring Organizations

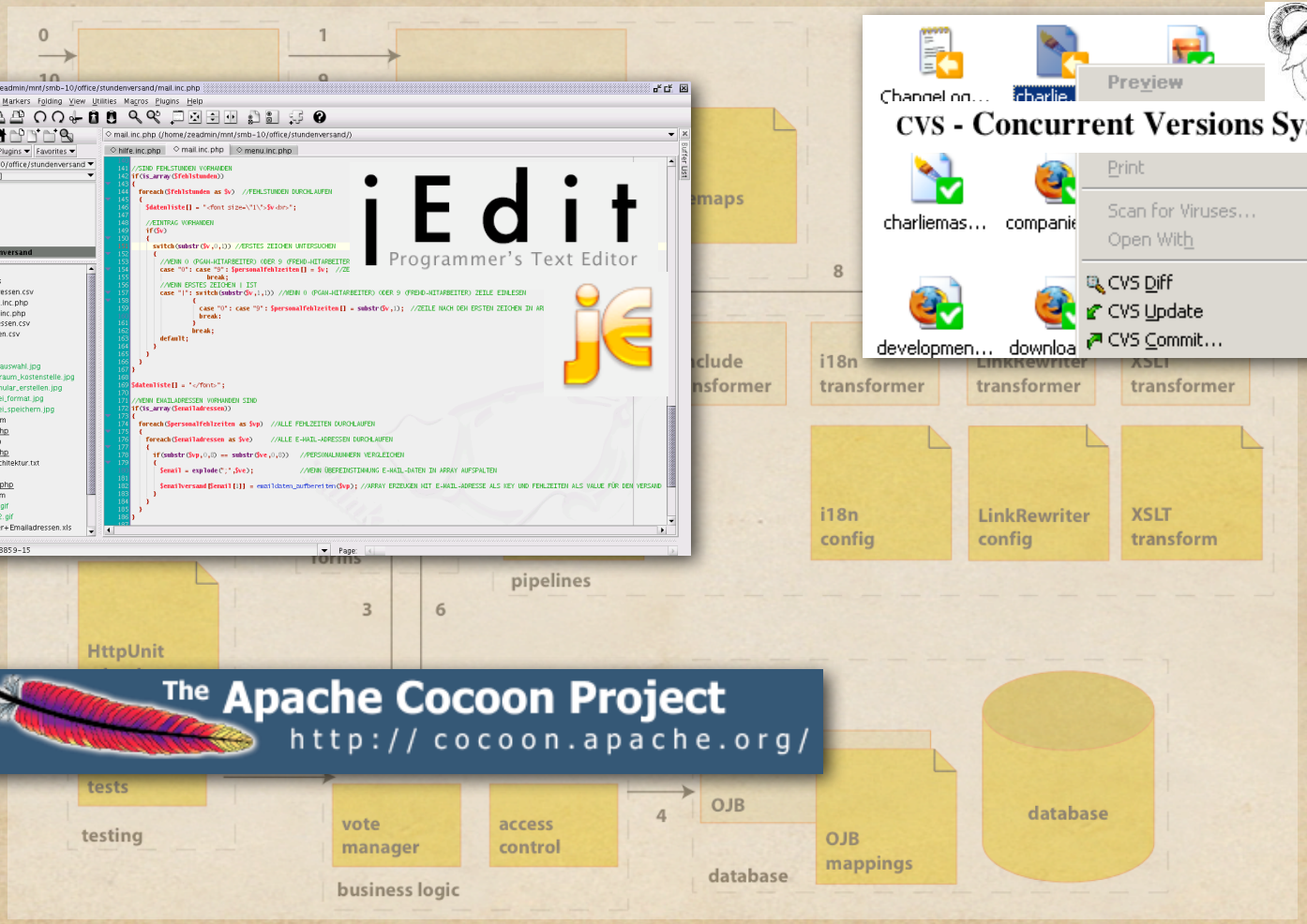
AbiSource (ideas)
Adium (ideas)
Apache Software Foundation (ideas)
Ardour (ideas)
ArgoUML (ideas)
BBC Research (ideas)
Beagle (ideas)
Blender (ideas)
Boost (ideas)
Bricolage (ideas)
ClamAV (ideas)
Cockos Incorporated (ideas)
Codehaus (ideas)
Common Unix Printing System (ideas)
Creative Commons (ideas)
Crystal Space (ideas)
CUWiN Wireless Project (ideas)
Daisy CMS (ideas)
Debian (ideas)
Detached Solutions (ideas)
Django (Lawrence Journal-World) (ideas)
Dojo (ideas)
Drupal (ideas)
Eclipse (ideas)
Etherboot Project (ideas)
Monotone (ideas)
Moodle (ideas)
MythTV (ideas)
NetBSD (ideas)
Nmap Security Scanner (ideas)
OGRE (ideas)
OhioLINK (ideas)
One Laptop Per Child (ideas)
Open Security Foundation (OSVDB) (ideas)
Open Source Applications Foundation (ideas)
Open Source Cluster Application Resources (OSCAR) (ideas)
Open Source Development Labs (OSDL) (ideas)
OpenOffice.org (ideas)
OpenSolaris (ideas)
openSUSE (ideas)
Oregon State University Open Source Lab
PHP (ideas)
PlanetMath (ideas)
Plone Foundation (ideas)
Portland State University (ideas)
PostgreSQL Project (ideas)
Project Looking Glass (ideas)
Python Software Foundation (ideas)
ReactOS (ideas)
Refractions Research (ideas)

http://code.google.com/soc/

XML course at comem.ch



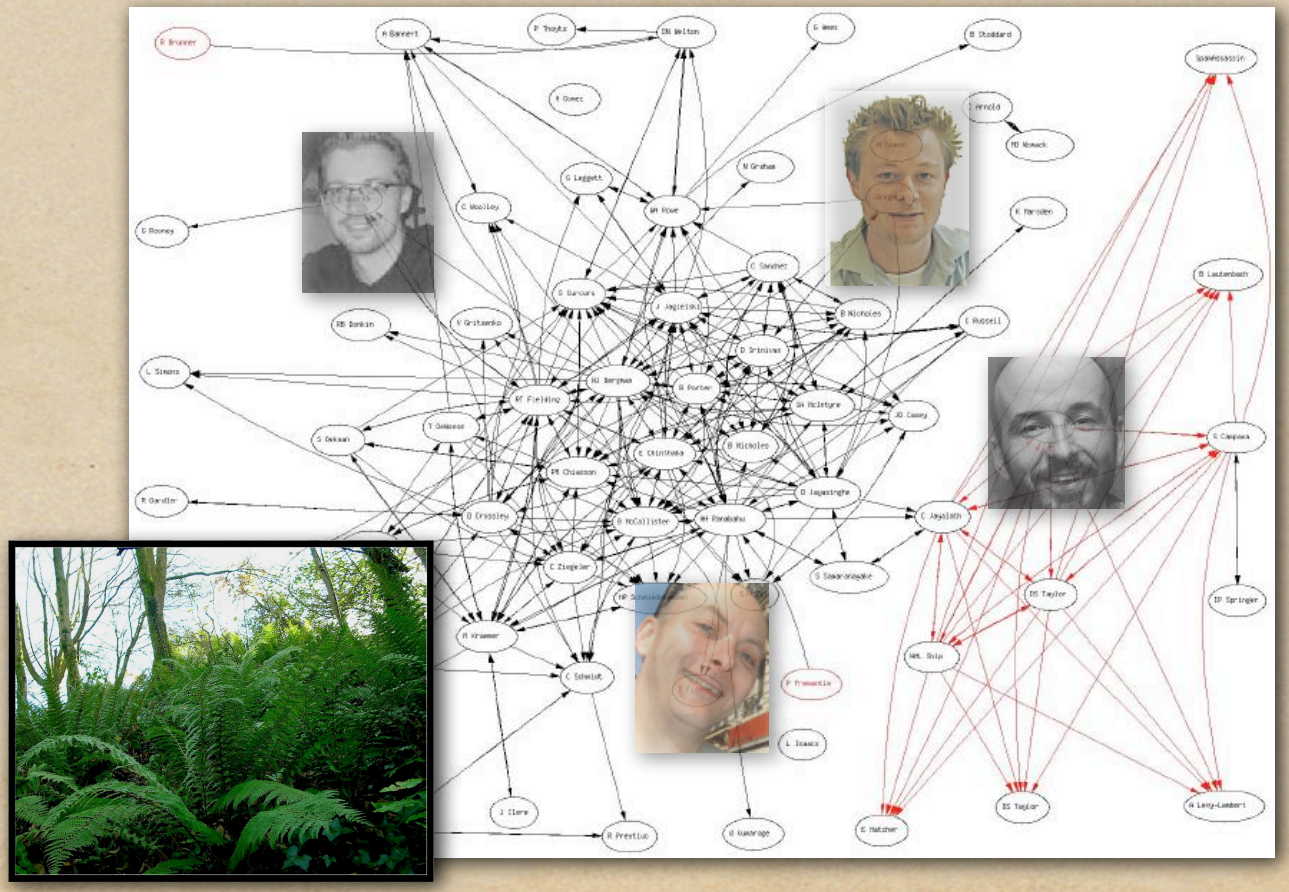




How to get started?

Select a (useful) project

Get to know the people



Contribute...anything

Creating examples and tutorials

Writing documentation

Participating on mailing lists

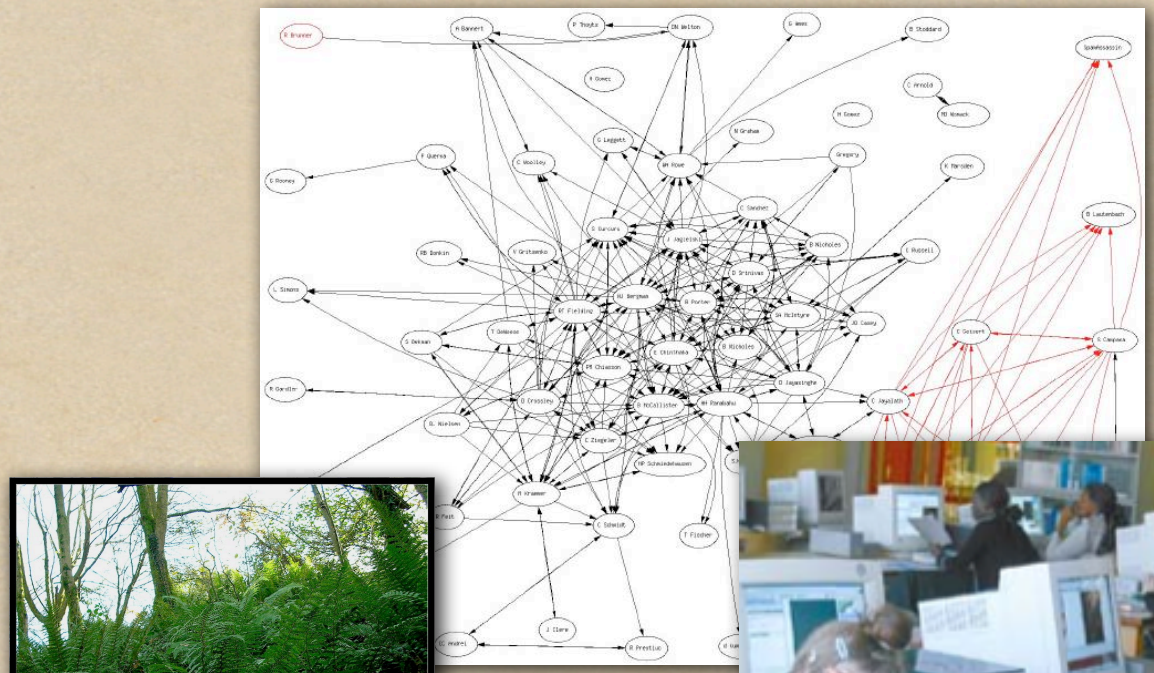
Testing and reporting bugs

Writing code

Designing software

Creating new projects

Motivate Students!



Conclusion..

Open Source is Good

for teachers...

for students...

for schools...

..If they are actively involved in it!

Einstein image by Apostelman at morguefile.com