



2011 03 05

Presentation during the 1st INTERNATIONAL CONFERENCE ON GOVERNANCE FOR  
SUSTAINABLE DEVELOPMENT OF CARIBBEAN SMALL ISLAND DEVELOPING STATES

Curaçao, © 2005-2011 Soares & Co NV

## FREE AND OPEN SOURCE SOFTWARE IN EDUCATION

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- What is Free Software?
- How Can Software be Free?
- UNESCO Portal
- How can we use Free Software in Education?
- OLPC
- Open Source University

# Freedom 0

The freedom to  
run the program,  
for any purpose...

# Freedom 0

MICROSOFT FRONTPAGE (website building program)

Date: 5-16-07

Subject: Microsoft FrontPage EULA bans free speech

URL: [www.eulahallofshame.com](http://www.eulahallofshame.com)

Quote: ***You may not use the software in connection with any site that disparages Microsoft, MSN, MSNBC, Expedia, or their products or services, infringe any intellectual property or other rights of these parties, violate any state federal or international law, or promote racism, hatred or pornography.***



# Freedom 1

The freedom to improve the program, and release your improvements to the public, so that the whole community benefits.

# Freedom 2

The freedom to study how the program works, and adapt it to your needs...

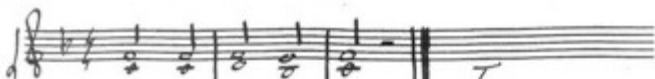
# Arranging Quar

Art  
Marshall

To arrange is to adapt or re-write an existing composition or theme for a musical medium other than the original one; this may be instrumental, vocal, or a combination of both. Although arranging is essentially something other than composing, arrangers will sometimes add musical ideas of their own to the original music.

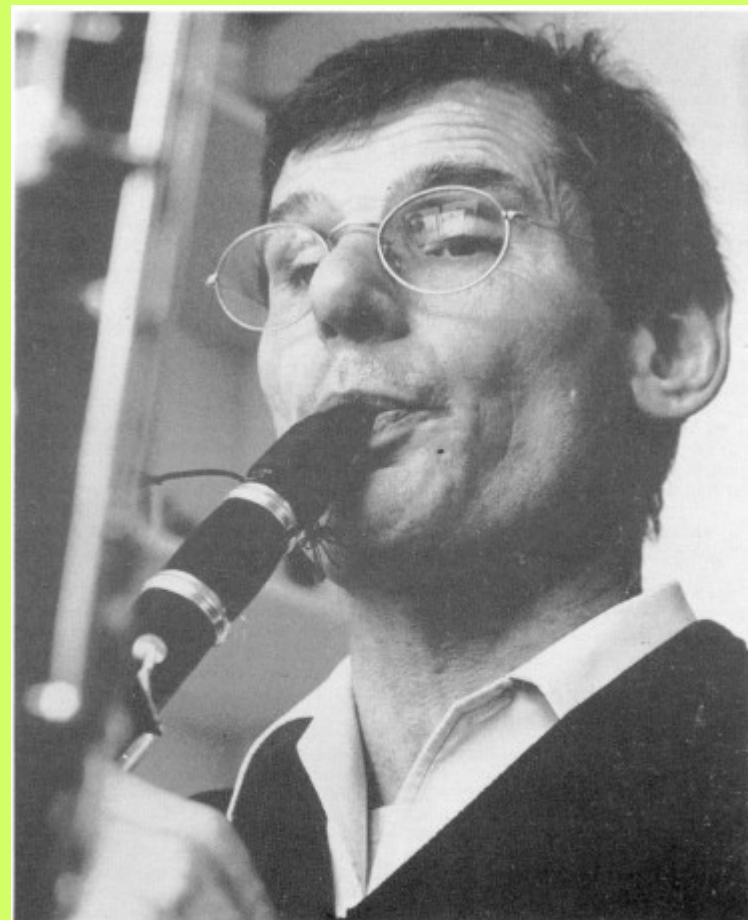
I came to arranging because I

## Example 1 Turnarounds 1&2



wanted to find out how music was put together. When a child, I first listened to the bass part and wrote that down in my own way; after that I tried to add the melody and other parts that I could distinguish. I went to a boarding school with thorough choir practice and had learned how to do solfeggio (Gregorian chant). I found out how the chords were built by playing the bass part and the notes above on the piano. Later I found out how extremely difficult it is to write down parts without mistakes! In my time (1954) there was hardly any information available on arranging and the price of the existing books was far beyond my budget anyway.

## Freedom 2



Art Marshall

Photo: Bert Verhoeff

## CONVERSATION WITH ART MARSHALL

Jo Rees-Davies

Squares

CO

# Freedom 3

The freedom to  
redistribute copies so  
you can help your  
neighbor...



Microsoft

**Windows**

Piratebay Edition

7

# Freedom 3



# How Can Software be Free? Free as in... Beer?



squares  
&  
CO

**Free  
Nelson  
Mandela!**



A black and white photograph showing a group of young men, likely students, dressed in suits and ties. They are holding a large, light-colored banner that spans across the front of the group. The banner has the words "FREE" and "SPEECH" printed in large, bold, serif capital letters, with "FREE" on the top line and "SPEECH" on the bottom line. The background shows other people and a building, suggesting an outdoor event or protest. The overall tone is serious and organized.

FREE  
SPEECH

A vertical green banner on the right side of the image. It features the word "squares" in a blue, sans-serif font, oriented vertically. Below it is a stylized orange and white "X" logo. At the bottom, the letters "co" are visible in a blue, sans-serif font, also oriented vertically.

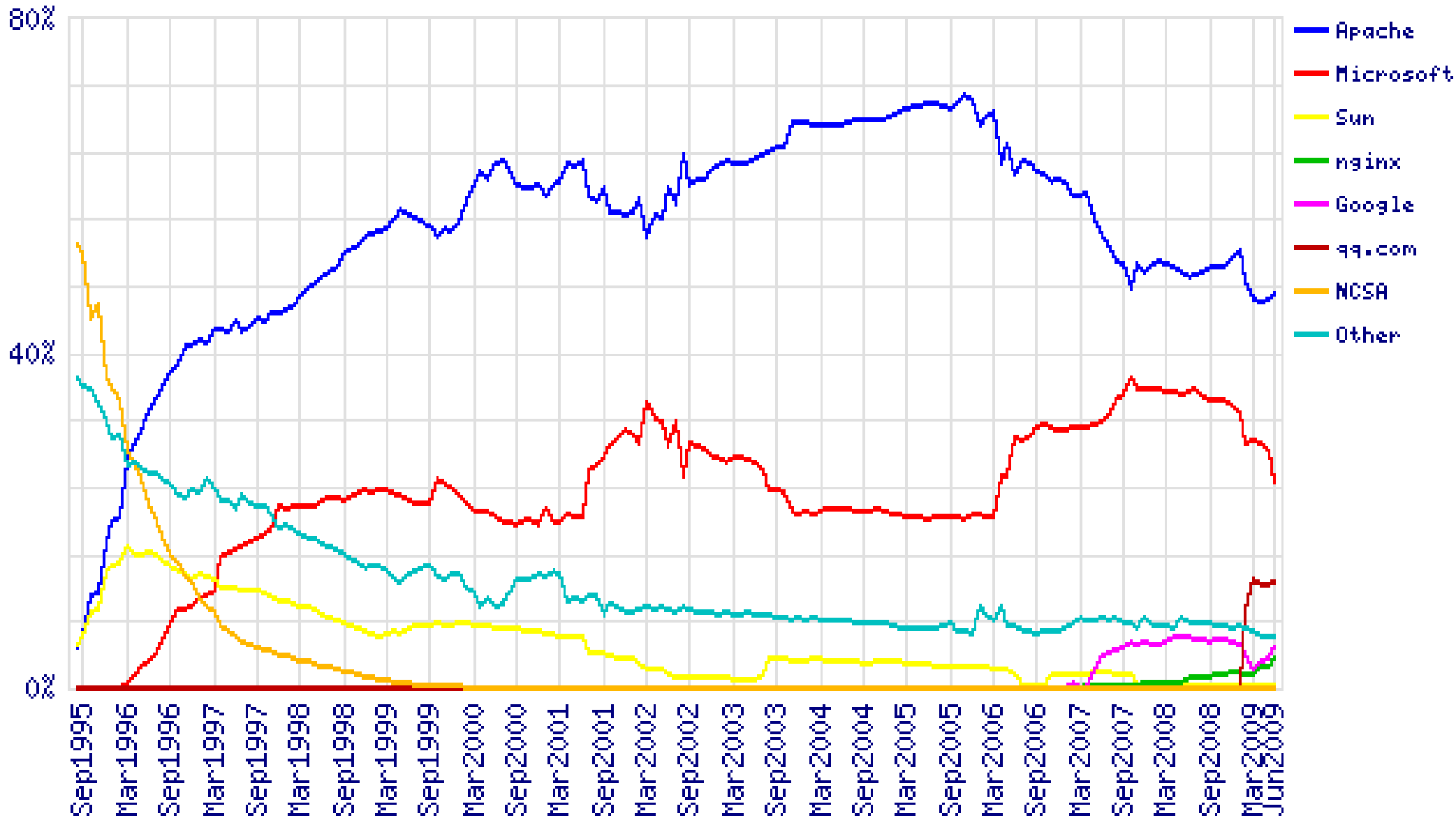
squares  
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# How Can Software be Free?

- Software costs money, right?
- It wasn't always like that!
- Wikipedia: In the 1950s, 1960s, and 1970s, it was normal for computer users to have the freedoms that are provided by free software.
- Software was commonly shared by individuals who used computers and by hardware manufacturers who were glad that people were making software that made their hardware useful.

# We use open source daily

- the World Wide Web (more than 60% of all websites run on open source web servers)



Forge.mil: A collaborative environment to accelerate the development and deployment of dependable software and services within the Department of Defense.



## About This Program

Forge.mil is a family of services provided to support the DoD's technology development community. The system currently enables the collaborative development and use of open source and DoD community source software. These initial software development capabilities are growing to support the full system life-cycle and enable continuous collaboration among all stakeholders including developers, testers, certifiers, operators, and users.

[Join Community](#)

DOD CAC or ECA Certificate  
Required

### News

- ▶ [Software.forge.mil will be unavailable Thursday, 16 July 2009 starting at 2100](#)

### FAQs

- ▶ [What is the Forge.mil Program?](#)

### Additional Resources

- ▶ [ECA Registration](#)

# UNESCO and Free Software

UNESCO.ORG | Education | Natural Sciences | Social & Human Sciences | Culture | Communication & Information

United Nations Educational, Scientific and Cultural Organization

Communication and Information

Tools Technology Free/Libre Software Open Source Sharing

WebWorld Communication/Information Portals

Resources > Portals/Directories > Free & Open Source Software Portal

- [Homepage](#)
- [Portals/Directories](#)
- [Free & Open Source Software](#)
  - [Link to us](#)

## Free & Open Source Software Portal

An gateway to resources related to Free Software and Open Source Technology movement

**The UNESCO Free Software Portal gives access to documents and websites which are references for the Free Software/Open Source Technology movement. It is also a gateway to resources related to Free Software.**

With the Free Software Portal, UNESCO provides a single interactive access point to pertinent information for users who wish to acquire an understanding of the Free Software movement, to learn why it is important and to apply the concept. Visitors to the UNESCO Free Software Portal can browse through pre-established categories or search for specific words. They can add a new link or modify an already existing link.

[>> Go to the Free & Open Source Software Portal](#)

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Free & Open Source Software

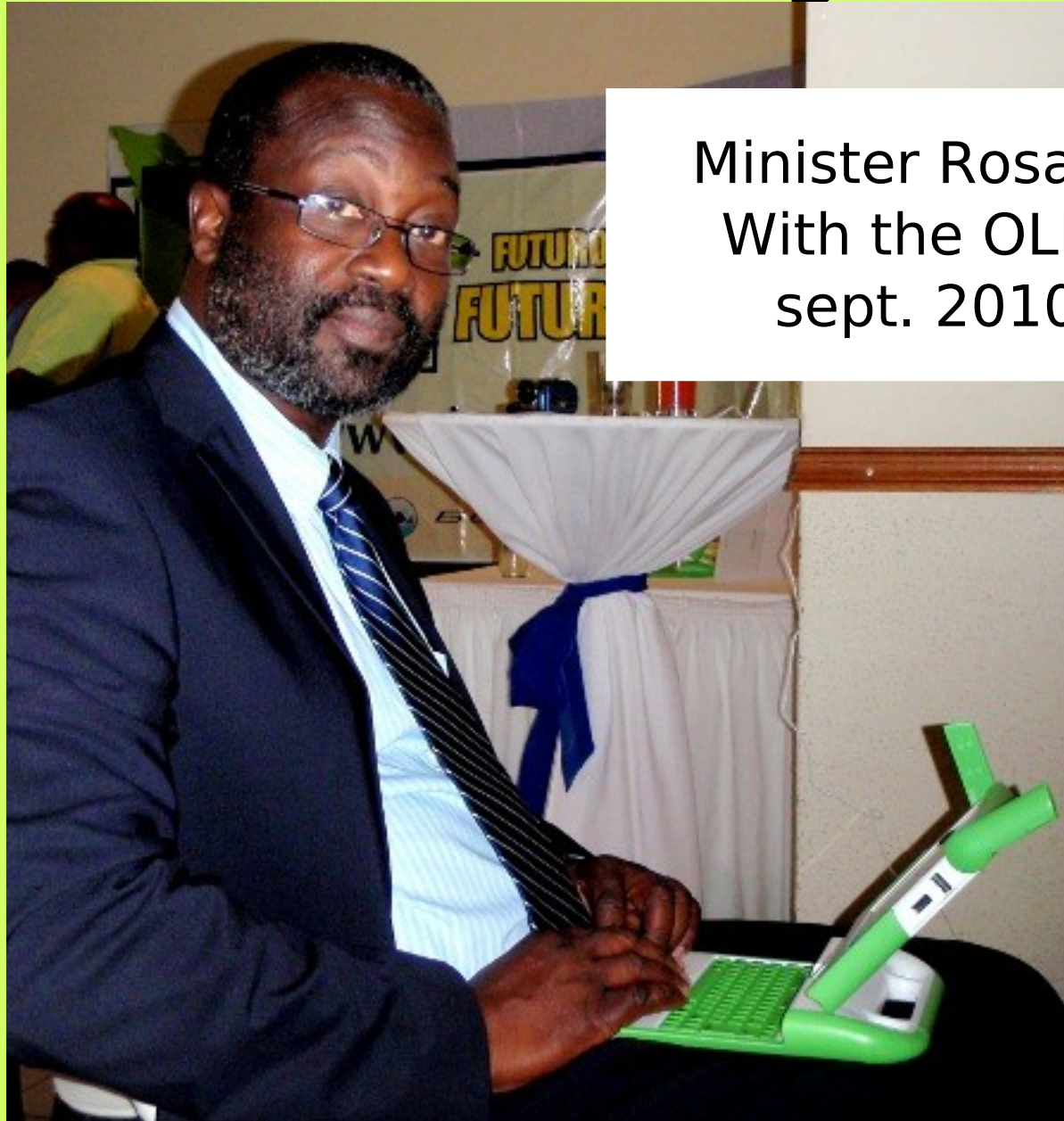
# How can we use Free Software in Education?

- E-learning (Moodle vs. Blackboard)
- Statistics (SPSS vs PSPP)
- Math (Sage vs. Matlab)
- Multimedia (Audacity), 3D Modeling (Blender)
- Scientific Software (...)
- Infrastructure (Firewalls, web/db servers, routers)

# OLPC and Sugar

- Project started in 2010 on Curacao, St. Maarten & Bonaire. Similar project in Jamaica.
- OLPC is the hardware, Sugar the software.
- Sugar can run on any Operating System
- Sugar enables sharing, discovering, multimedia
- It's a tool that can be used in any educational field.

# OLPC and Sugar



Minister Rosalia,  
With the OLPC  
sept. 2010

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# OLPC and Sugar




Teacher Training St Maarten, sept. 2010

# Open Source University?



## System & Network Engineering



Trace: » SNE/OS3 Homepage


### Master Education SNE

SNE is the  University of Amsterdam master education in System and Network Engineering.

We focus on **Open Standards**, **Open Software** and **Open Security**, hence the name **OS3**.

### Information

General information and testimonials are available at the

-  [Introductory page](#)

More in depth facts can be found on our

- [Master SNE page](#)

# Open Source University?



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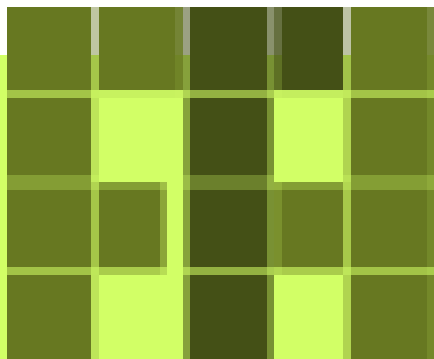
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# Building a Shared Free Technology Master Curriculum

Submitted by wouter on Wed, 26/01/2011 - 08:29.

As you may know the Free Knowledge Institute seeks to advance the sharing of knowledge and take away technical, social and legal impediments. One of our core activities lies in education and over the last years we have established a [network of universities and specialised groups](#) working together in offering master level courses online through the Free Technology Academy. Together we want to go further and develop a shared [master curriculum on Free Technologies](#) (FT). We understand FT to include Free Software (OSS / Libre Software), Open Standards, Free Hardware.

# Open Source University?



FREE  
TECHNOLOGY  
ACADEMY



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# A plan for Open Source Education.

Free and Open Source Software is becoming more and more important in the global society. Hundreds of thousands of programmers from all over the world work together on various projects, aided by the flexibility and speed of the Internet, which overcomes geographical distance.



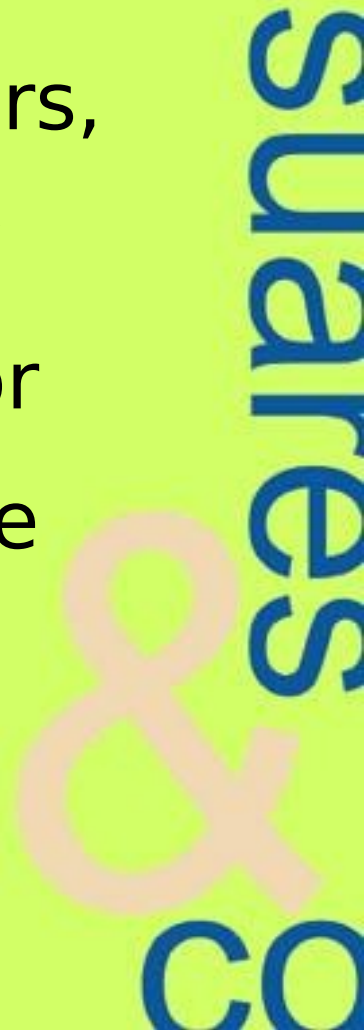
# A plan for Open Source Education.

In the Free Software world, programming skills are build up by both the beginner and the experienced software developer alike. Many pieces of valuable software are the result of uncounted hours of labor of average and above average men and women.



# A plan for Open Source Education.

Sometimes these people work for the honour of being recognized by their peers, and sometimes they are getting paid by companies like IBM, Google, Facebook or Microsoft. Building software gives people empowerment, and the feeling of contributing to something useful.



# A plan for Open Source Education.

We need to stimulate the skills and the self-esteem of young students on our islands, breaking their isolation through collaborative projects. By introducing students to the Open Source community, we are building their skills in programming and software engineering, as well as teamspirit, the ability to solve complex problems, and possibilities for launching a career in the software world.

suarees

CO

# A plan for Open Source Education.

To be part of the Open Source community, one needs to develop various tools and techniques, both in technical and communication skills. Most projects work with an intensive communication by e-mail, chat and newsgroups. Decisions are made by preset rules or in an organic way.

Open Source

CO

# A plan for Open Source Education.

Speaking your mind, collaborating with others and helping others solve problems are all essential elements of the Free Software business model.



# A plan for Open Source Education.

Technical skills include programming in various languages (like C, PHP, Ruby or Java) and running web, mail and database servers. Managerial skills include managing a wild bunch of different individuals towards a common goal, quality control, translations and release cycles.

# A plan for Open Source Education.

All of these skills can be learned from books and theory - but our students may experience real-world issues while contributing to real-world projects, and getting their names listed in the source code.



# A plan for Open Source Education.

This approach may well result in a Caribbean Knowledge Zone that gives those students living on our islands tools to survive - brilliantly - in a global economy. It opens up possibilities for those that are talented and ambitious without having to move to other regions.

# A plan for Open Source Education.

It may attract larger companies to invest in our local economies and at the same time reward their employees with sun, sand and 'the Caribbean factor'.

I ask you to take this approach with you, back home, and share your ideas with all of us.

Thank You.





# Open Source and Open Standards on Curacao

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