



OLPC

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“It's an education project - not a laptop project”





The Focus of the Project

One Laptop per Child is a project about the transformation of education.

Walter Bender

(OLPC President of Software and Content)





The Basic Components of the Project

- A rich software and content environment around the “Sugar” interface
- A medium of delivery, or a hardware platform – the XO-1





The Hardware

- One of the most power efficient devices in its class
- One of the cheapest devices in its class
- Designed for children
 - Rugged
 - Absence of hazardous material like mercury, etc
 - Easy to repair
 - Innovative “dual mode” screen, readable in sunlight
 - Mesh network enabled





The Software

- Traditional computer interfaces are oriented towards office workers, with concepts like desktops, files, folders, etc
- A child (or even adults) in many regions in the world may not have any idea what a typical western “desk top” might resemble
- OLPC uses a new UI concept altogether, based on the concept of neighborhoods, collaboration and activities





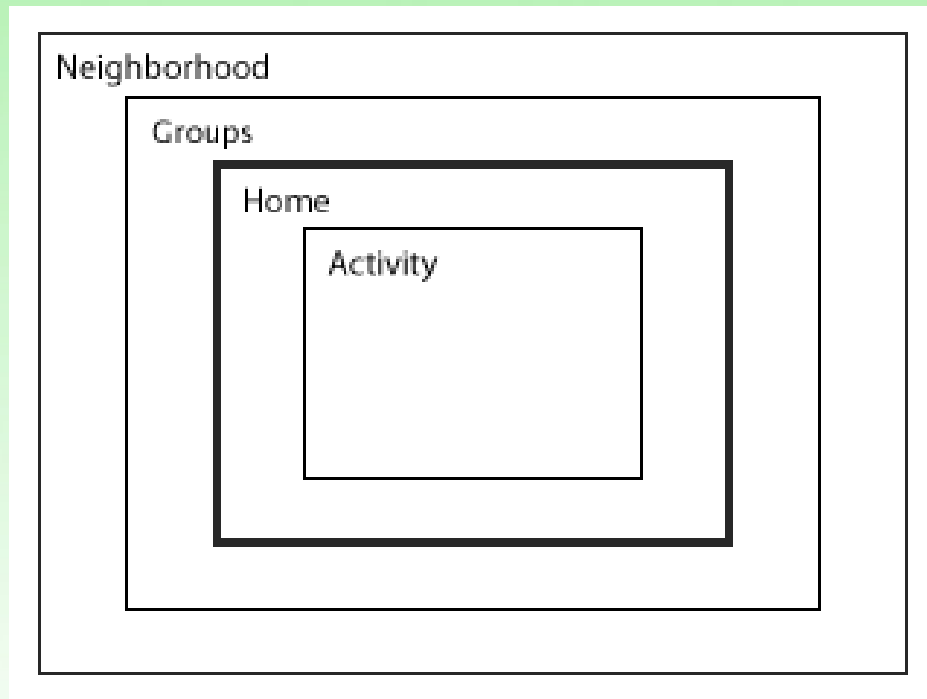
The Core of the Software

- The core of the software framework in the OLPC stack is Sugar
- Sugar is based on components from the GMAE (GNOME Mobile and Embedded) Initiative
- Basic building material include GTK+, Cairo, Pango, Glib and Dbus
- Sugar provides the core library and services around which activities are developed





Sugar – The Zoom Metaphor



- A zoom is used to relate four discrete views, each of which caters to a particular set of goals: Home, Groups, Neighborhood, and Activity.
- Zoom directly relates to the mesh network capability of the laptop



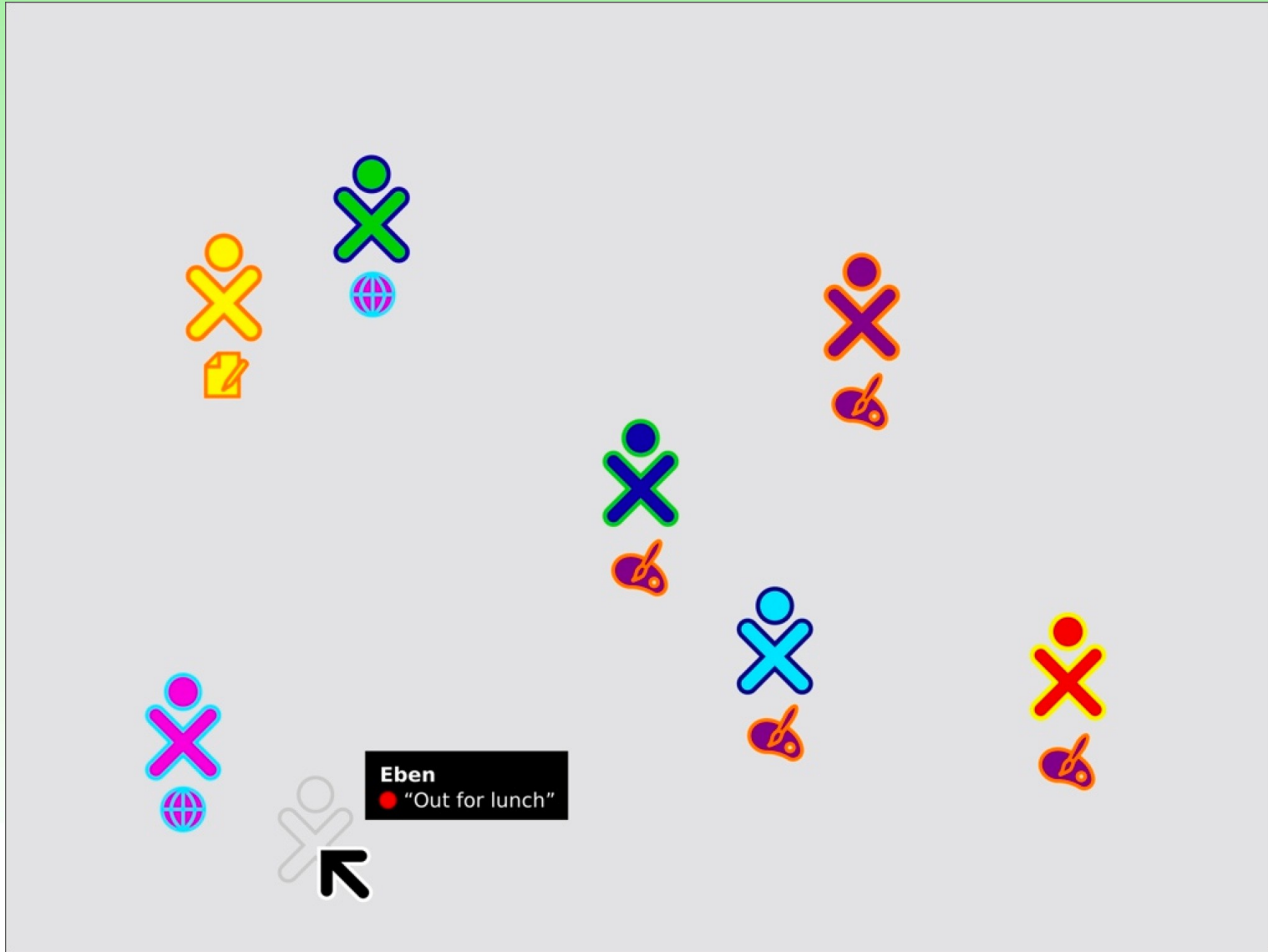


Sugar – The Home View



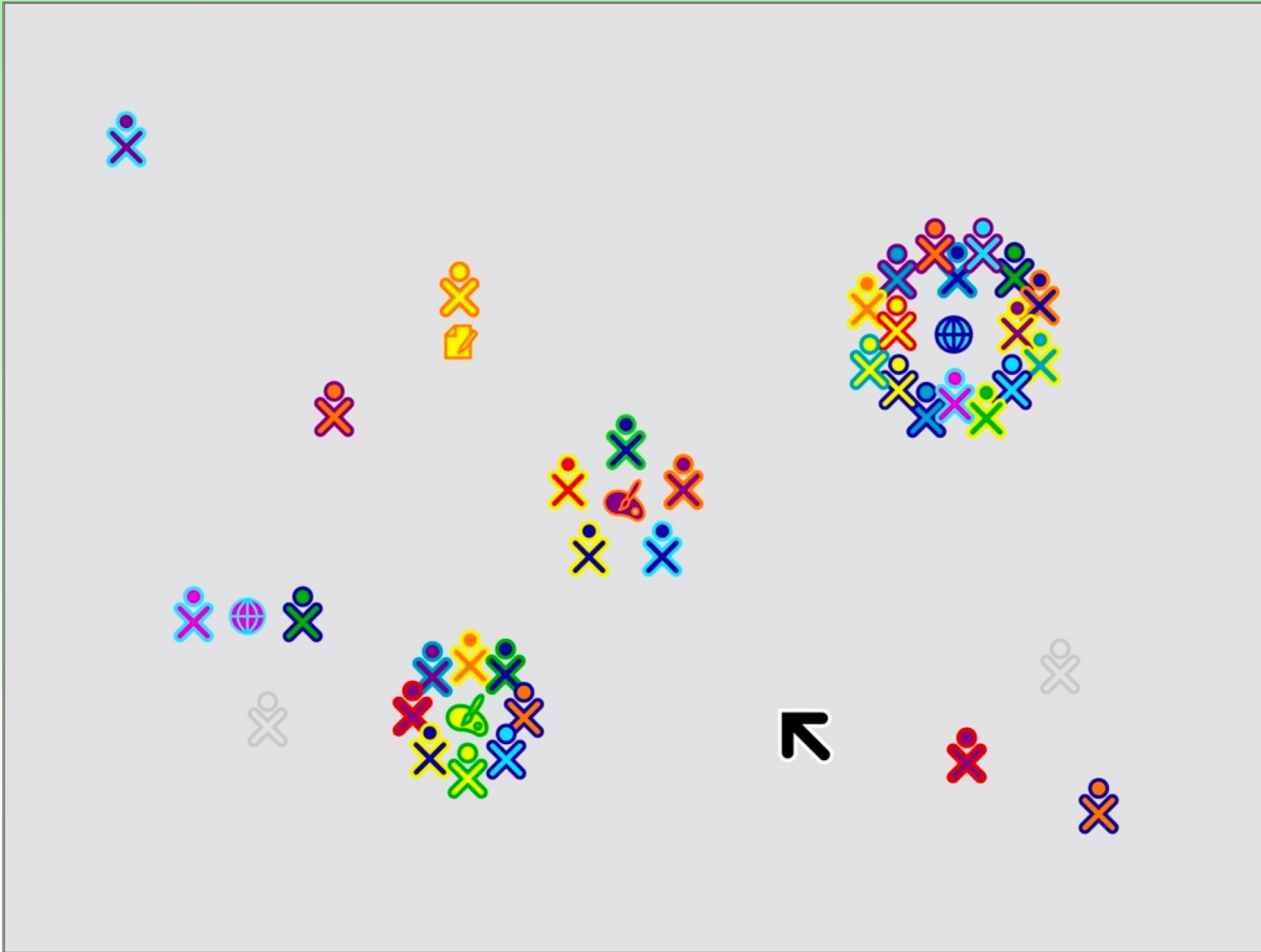


Sugar – The Groups View



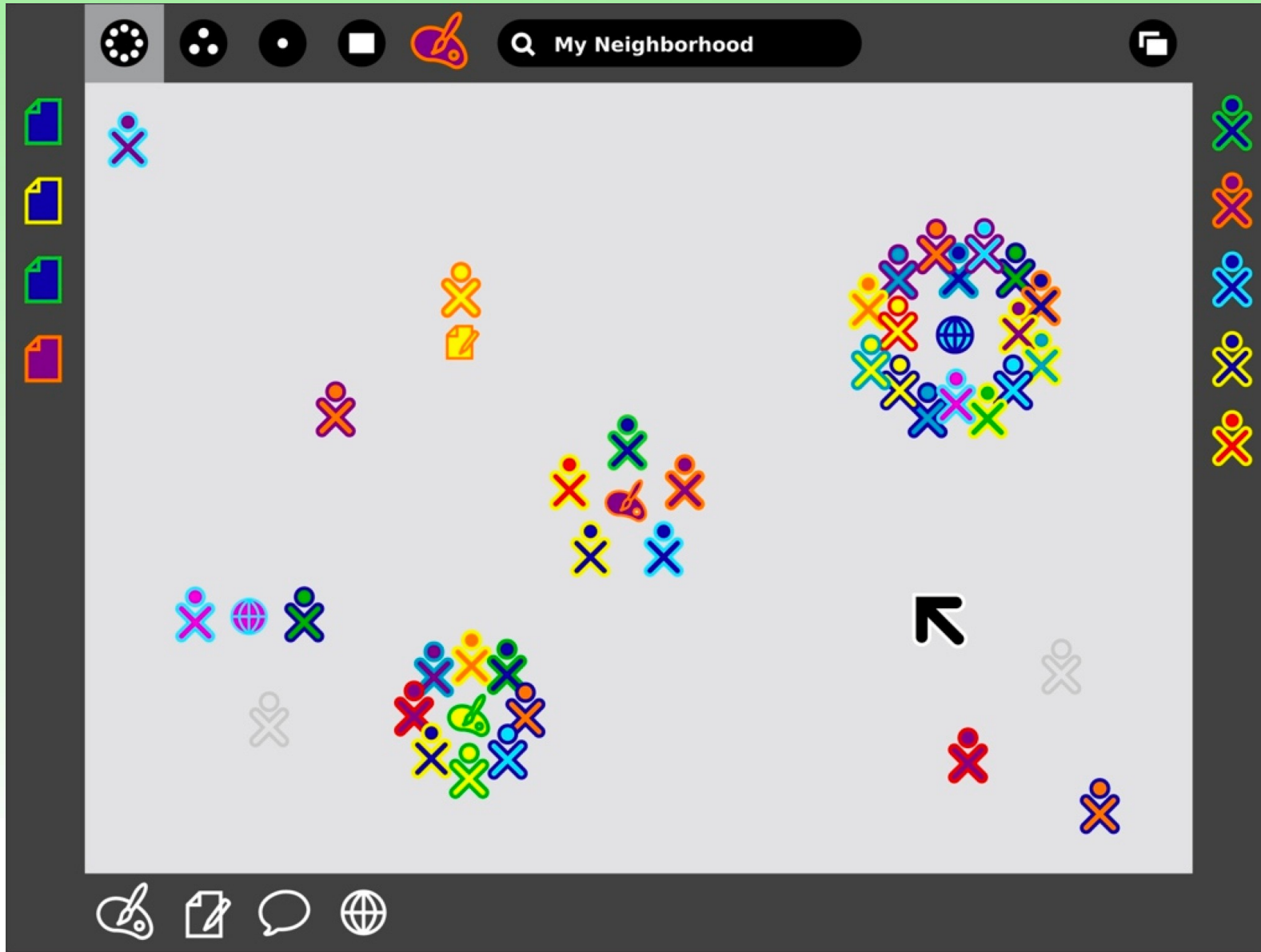


Sugar – The Neighborhood View



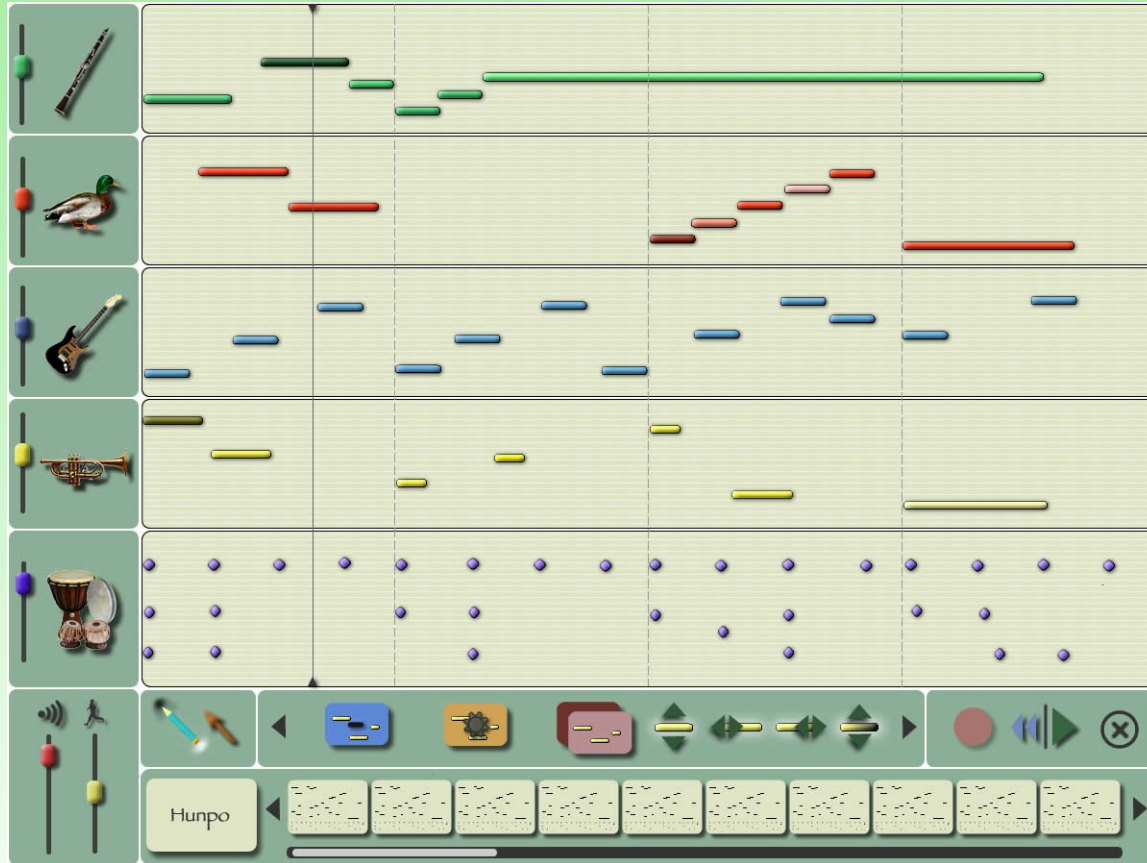


Sugar – The Frame





Sugar – Activities




There are no software applications in the traditional sense on the laptop. The laptop focuses children around "activities."





Sugar – Journal

☆ Music in Ban Samhka



Description:
The children in Ban Samhka use TamTam to play music together with th

Tags:
music, tamtam, Thailand

Search: Anything Anytime

☆ Acoustic Tape Measure Activity	1 day and 15 hours	○
☆ OLPC Library	1 day and 16 hours	○
☆ OLPC Library	1 day and 16 hours	○
☆ Measure Activity	1 day and 16 hours	○
☆ Record Activity	1 day and 16 hours	○
☆ CartoonBuilder	1 day and 16 hours	○
☆ Connect Activity	1 day and 16 hours	○
☆ Photo by walter	1 day and 16 hours	○
☆ Write Activity	1 day and 16 hours	○
☆ TamTamJam Activity	1 day and 16 hours	○
☆ TamTamEdit Activity	1 day and 16 hours	○





Current Status

- Non-pilot deployments in Peru, Uruguay, Mongolia, and Maharashtra, India
- First software release completed, second to be released in March
- An active community of developers, translators and evangelists growing up around the project





Getting Involved in the Community

- As an activity developer
 - Porting already existing educational applications
 - Developing an activity from scratch
- As a translator
- As a volunteer for the documentation projects





Activity Development

- You do not need to have the hardware to get started
- The stack runs on any GNU/Linux system (and even on Mac OS X, and with some effort, on Microsoft Windows)
- Tutorials at
 - http://wiki.laptop.org/go/Sugar_Activity_Tutorial
 - http://wiki.laptop.org/go/Game_development_HOWTO
 - http://www.olpcaustria.org/mediawiki/upload/8/81/Handbook_20080116.pdf





Translations

- Translations are done via Pootle – a web based translation system which is designed to allow anyone to contribute translations as easily as possible
- A guide to using Pootle is available online at <http://opensource.sfsu.edu/node/452>





Other ways to contribute

- Domain specific knowledge (health, electronics, etc)
- Helping with the wiki (<http://wiki.laptop.org>)
- Supporting and mentoring new volunteers
- General evangelizing





Questions ?





Thank You :-)

Slides available online at
http://sayamindu.randomink.org/slides/freed_olpc.pdf

