Hope & Hacking: The XO Story by Charles Merriam

http://charlesmerriam.com/talk

Notes

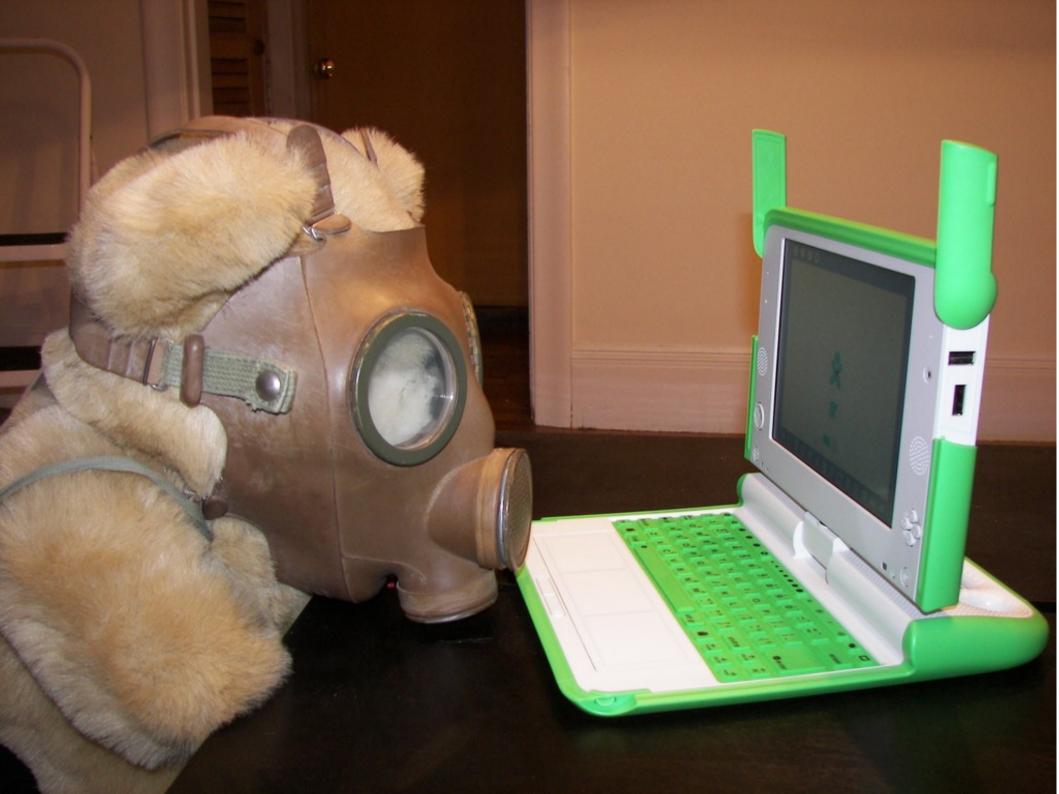
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- Copy of this talk: http://charlesmerriam.com/talk
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 Email me.





More Stuff

- Best Deployment Story
 - http://wiki.laptop.org/go/OLPC_Peru/Arahuay
 - See what happens when you give laptops to children in the isolated agricultural town of Arahuay, Peru.
- Best Video Overview
 - http://www.ted.com/index.php/talks/view/id/41
 - Nicholas Negroponte talks at the TED talks in February, 2006.





getting comfortable

- Play with it. Make a spiro-graph in TurtleArt, run the EToys tutorials, browse, read a PDF.
- Set up a mesh. Chat. Measure things. Edit the same document. Edit the same video. Jam.
- Read "Getting Started", "Cheat Keys", and "Keyboard Short-cuts"
- Flash the firmware. Upgrade the OS. Get a developer's key. Hang out on #olpc.

- Best Starting Point for Using the OLPC
 - http://www.laptop.org/en/laptop/start/
- Best L33T Factbytes
 - http://wiki.laptop.org/go/Cheat_codes
 - http://wiki.laptop.org/go/Keyboard_Shortcuts
 - http://wiki.laptop.org/go/Upgrading_the_firmware
 - http://wiki.laptop.org/go/Olpc-update
- Best Chat Room to Lurk
 - irc://freenode/olpc

developing Python code

- Develop directly on the XO.
- May build emulators, images, and virtual machines. Was very important when few XOs.
- Get a USB keyboard and mouse. Sharing your X display is slow. Update your editor.
- Fair amount of cut-and-paste. All source is online.

- Best Overview of Developing Applications
 - http://wiki.laptop.org/go/Hacking_Sugar
- Best Source Code
 - http://dev.laptop.org/git
- X
 - http://wiki.laptop.org/go/Remote_display

developing an "Activity"

- Requires standard parts and file names: a logo (.svg), info file (text), a few others, and then your code.
- Your application inherits from activity, and implements the _init__() routine.
- Usually write with PyGtk, Pango, GStreamer,
 PyGame, D-Bus, Telepathy and the rest.

- Best XO Buzzword Definitions
 - http://wiki.laptop.org/go/Developers/Stack
- Best Walkthrough Recipe
 - http://wiki.laptop.org/go/Sugar_Activity_Tutorial
- Best Walkthrough Mesh Recipe
 - http://wiki.laptop.org/go/Tubes_Tutorial

from sugar.activity import activity import logging

import sys, os import gtk

class HelloWorldActivity(activity.Activity):
def hello(self, widget, data=None):
 logging.info('Hello World')

```
def init (self, handle):
 print "running activity init", handle
 activity. Activity. init (self, handle)
 print "activity running"
 # Toolbox contains Toolbar, e.g., 'Collaborate' and 'Close' buttons.
 toolbox = activity.ActivityToolbox(self)
 self.set toolbox(toolbox)
 toolbox.show()
 self.button = gtk.Button("Hello World")
 self.button.connect("clicked", self.hello, None)
 self.set canvas(self.button)
 self.button.show()
```

Thank you

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