Robot Shark Laser!

What Hackerspaces do
What is a Hackerspace?

- Physical Forum
- Collaborative Projects
- Community: Friends, Hackers, Countrygeeks!
- DIY exchange skills, info
- See: CCC, Makezine, DIY, dorkbot, HackLab
## Panel Introduction

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<td>Nick Farr</td>
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A Note About the Panel

- We did not get any volunteers from the Middle East, Asia, Africa or South America.
- We tried for as much other diversity as possible.
Baseline

about us
Beth
Freeside
Atlanta, Ga.
• Freeside is a non-profit hackerspace in Atlanta, not to be confused with Freeside.it

• Started by a couple friends from Columbus, Ga. & dc404, including folks from various other local groups & via hackerspaces.org:
  • 404.se2600
  • ALE (Atlanta Linux Enthusiasts)
  • Atlanta Perl Mongers & AtlantaArduino
  • Dorkbot ATL & Botlanta & NAISG
• We started 6 months ago, 3 friends, at a bar, meeting once a week. Now we have an insane venue, 50 members and are already working on space-related projects.

• So far, we stole the CV&B’s from MindSpring, (Thanks Charles!) have a Hackerspace Manifesto (Thanks Eater!), and a couple safety rules like: “be safe”
• Visit our site to see how and what we are doing.

• www.freesideatlanta.org

• wiki.freesideatlanta.org

• blog.freesideatlanta.org
“... But it is said, if you confront the Black Lodge with imperfect courage, it will utterly annihilate your soul.”

–Dep. Hawk, Twin Peaks

The Black Lodge
About us..

• Founded October 2008 in Kirkland, WA

• 8 primary members: noid, Luna, Vidiot, Cyben, Londo, Dark Tangent, Don Ankney, “Dr.” Brian Walls

• [www.black-lodge.org](http://www.black-lodge.org)

• Interests: hardware hacking, metal working, coding, photography, socializing, art, hacking, beer brewing, meteorology, HAM radio
Why’d we do it?

• We wanted a shared, collaborative space
• Hardly any of us have garages
• We all have more tools than we know what to do with
• We wanted a nice place for social events
• We wanted to do our part to help the community
How we operate

• 7 of us pay the bills out of pocket
• 24 hour access to the Lodge to those that pay rent
• When the Lodge is open, it is open to all
• Can be opened by request
• Monthly board meetings
HackLab.TO

- Toronto, Ontario, Canada
- Founded in July 2008
- ~25 members
- ~800 sqft space in Kensington Market, downtown woot woot!
- #hacklabto on irc.freenode.net
- http://hacklab.to blag
HacDC

• HacDC is a Non-Profit
• The founders knew each other from DefCon, the rest of the founding members found each other primarily through DorkbotDC and MakeDC
• It took us about three months from our first meetings to leasing a space.
• We are funded primarily by member dues, additionally by donations
• Our guiding rule: Don't act in a way that requires us to make a new rule (i.e. be excellent to each other.)
Who are we?
So your a Hacker"Space"...
Where's your "Space"?
... is KEY
Let’s Talk About Projects
Noid
The Black Lodge
Seattle, WA
Current Activities
Future Projects

• Propane Foundry
• Horology
• Virtualization Lab
• Steampunk Workshop
• Wine and Cider Making
• Metalworking, Large and Small
• Internet Weather Station
• 501(3)(c) formation
Leigh Honeywell
Hacklab.TO
Toronto, Canada
Python Newbie Night

- Drop-in class every Thursday
- Using an awesome free/free textbook: thinkpython.com
How the class works

- Work through text or whatever strikes the class's fancy
- Older students work with newer students
- Code on a projector or monitor
- Take turns at the keyboard
- ...
- Profit!
Lessons Learned

• P4SD is awesome
• For a weekly drop-in like this, have two champions, not one. You'll burn out otherwise.
• Helping people learn to code is way too much fun!
Freifunk in the USA
Leveraging Community Organizations to Build Neighborhood Wireless Networks
If you remember nothing else..

- Build wireless networks where you live
- Sustainability should be built into the process
- Partner with nearby organizations
- Engage your users through training & collaborative learning
- Applied knowledge = $$$$ = paying the bills
- Put the wheels on before you reinvent them
Phase I: Building a stable

• Physical Base: Rebuild the Layer 1 IT infrastructure through comprehensive re-wiring

• Funding Base: Funding through lowering costs
  – Replace multiple low-bandwidth links with fat pipe
  – Replace multiple POTS lines with VOIP
  – Replace need for a security guard

• People Base: Making friends through providing services, training, tech support, savings.
Phase II: Community through technology

• Now that the church is online, we're building a community network around community wireless

• Single external wireless network for the community around the church

• Provide training and support through community events targeted towards users within the network range

• Provide computers, routers and other physical resources for extension & experimentation
Phase III: Extend the Network

• “If you build it, they will come.”

• Encourage independent experimentation and experimentation for extending the main network

• Find new points of presence for extending the main network

• Encourage mesh networking attaching to the main network
Steve Clement
Syn\textsubscript{2}cat
Luxembourg
12-minute-round-up on what we do
project MASH-UP

REMIX * REUSE * RESAMPLE
Awareness raising
(the social task)
round 1: we are hackers, not terrorists

Last login: Mar 12 07:03:29 on console
Welcome to os4!
> telnet --a --b ABSOLUT 192.168.100.1:8080
> enter login: ######
> enter passw: ######
> invalid passw ERROR (retrytype)
> retype passw #######
> OK you are SUCCESSFULLY logged in
> cd /usr/.ABSOLUT/SECRETS
> ls -l -a BACKDOORVIRUSES
-rwxr-xr-x-- TROJANHORSE#BF1 - 306 Mar 7 20:55
-r-xr-xr-x-- TROJANHORSE#CA0 - 1026 Mar 11 00:13
-rwxr-xr-x-- TROJANHORSE#CB9 - 716 Mar 5 14:15
-rwxrwxr-x-- TROJANHORSE#CFF - 4865 Feb 9 22:06
-r-xr-xr-x-- TROJANHORSE#D2C - 48 Jan 28 17:24
-r-xr-xr-x-- TROJANHORSE#D8A - 512 Mar 2 02:22
-r-xr-xr-x-- TROJANHORSE#DA6 - 512 Mar 7 04:46
-r-xr-xr-x-- TROJANHORSE#DD7 - 642 Feb 13 01:58
-r-xr-xr-x-- TROJANHORSE#DF2 - 1784 Dec 31 11:33
-rwxr-xr-x-- TROJANHORSE#EA3 - 1256 Mar 4 14:56
-rwxr-xr-x-- TROJANHORSE#EB4 - 2873 Mar 5 08:17
-r-xr-xr-x-- TROJANHORSE#ED8 - 255 Feb 17 10:45
-r-xr-xr-x-- TROJANHORSE#FA3 - 207 Feb 17 10:57
> sudo -s P TROJANHORSE#D2C
System is about to reboot
Killing all processes ...... CRACKER ?
ABSOLUT HACKER.
round 1: **RFID is for cows, not for people**
Art and Beauty
round 2: L.A.S.E.R tag Linux Port

GRAFFITI RESEARCH LAB - L.A.S.E.R TAG 2.0
written by: Theodore Watson, Zachary Listerman, using xspurious-frameworks

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1) It is not used for advertising, marketing or promotion.
2) You may not change for this software or the source of running this software
3) This notice remains intact for both this version and any derivatives.

Settings:
Mouse sets camera and projection quad pts.
Space bar toggles proportion quad visibility.
Arrow keys control other settings.

Drawing settings:
Brush mode
Brush width
Brush length/style
Brush color
Line resolution
Proj Brightness

Drop settings:
Tracking settings
Clear zone settings
Network settings
Music player settings
Camera settings (free change -> restart)

Colors tracked:

Current brush:

Brush color:

Random Note:
0 - Screenshots are stored in /tmp/screenshots
1 - Advanced quad is slower but more accurate
2 - Design your own png brushes and put them in data/brushes
3 - Try and make your camera as dark as possible to make tracking of the laser easier

Font: 55.7664881
round 2: Throwies
Summer Camp 2009
The Future
round 3: radio killed the internet star!

I killed the Radio star!
round 3: U23 no kids, no hackers!

π NOT PIE
RAISING YOUR CHILD TO BE A GEEK
The Official Handbook of Instructions
UnBook by Scott E. Franson
Thanks @all

syn2cat.lu
blog.graffitiresearchlab.lu
twitter.com/steveclement
GRL-Luxembourg goes MNHA
To Sum it Up:

• You can join or build a hackerspace in your town.

• You can support hackerspaces at home and abroad.

• Hackerspaces are as different as the people that create them.

• Building and maintaining a hackerspace is a project in and of itself.
Resources

http://hackerspaces.org
http://www.arduino.cc/playground/
http://dorkbot.org
http://wiki.hacklab.org.uk
http://makezine.com
http://reprap.org
http://www.fablab.af/
Public Service Announcement

• Makers Local 256 is hosting a maker meetup in Huntsville, Alabama. September 18th - 20th. Come learn how to start your own hackerspace, and/or swap stories and strategies with other hacker/maker space founders and members.

• Keep your eyes on hackerspaces.org and/or check with LadyMerlin for updates.
Discussion

Q & A

Mayhem, etc.