Reaching people with open source creative technology

Dave Griffiths/FoAM Kernow
Reaching: Empowering people with open source creative technology

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Perceptions of technology
no exact OS matches for host

map run completed -- 1 IP address (1 host up) scanned

`sshnuke 10.2.2.2 -rootpw="Z10N0101"

connecting to 10.2.2.2:ssh ... successful.

attempting to exploit SSHv1 CRC32 ... successful.

setting root password to "Z10N0101".

stem open: Access Level <9>

`ssh 10.2.2.2 -1 root

at 10.2.2.2's password: ----
\[ \frac{\pi}{2} = \frac{1}{1 + \log_{10}(R_P - P_R + 100) + 1} \]
Myths:
Code is scary!
Programming is a dark art!
Black boxes...
Realm of pure maths...
Only for experts.
Digital Divide
Those with/without access to technology
Producers/consumers of technology
Increasingly political...
PRISM Program Cost: ~ $20M per year

Dates When PRISM Collection Began For Each Provider:

- Microsoft: 9/11/07
- Yahoo: 3/12/08
- Google: 6/3/09
- Facebook: 12/7/09
- PalTalk: 9/24/10
- YouTube: 2/6/11
- Skype: 3/31/11
- AOL: 3/1/12
- Apple: (added Oct 2012)
"Nasty source code or software that's flying through the Internet, that's developed, and it's very sophisticated, by the Chinese and the Russians and the Iranians and other groups and non-nation-state actors that are going to steal your personal information."
Algorithmic Literacy – inform the debate
Livecoding: Focus on process of programming
Creative, exciting uses
New venues/contexts
“Livecoding shows that programming is a human activity”
- Amy Alexander
Fluxus demo
A 'Piet' program that prints “hello world”
By Ben Fry. Seeing the operation of code in Atari 2600 games.
Programming as “life skill”
Coding - the new Latin

The campaign to boost the teaching of computer skills - particularly coding - in schools is gathering force.

Today the likes of Google, Microsoft and other leading technology names will lend their support to the case made to the government earlier this year in a report called Next Gen. It argued that the UK could be a global hub for the video games and special effects industries - but only if its education system got its act together.

The statistics on the numbers going to university to study computing make sobering reading. In 2003 around 16,500 students applied to UCAS for places on computer science courses.

By 2007 that had fallen to just 10,600, and although it's recovered a little to 13,600 last year, that’s at a time in major growth in overall applications, so the percentage of students looking to study the subject has fallen from 5% to 3%. What’s more, computing science’s reputation as a geeky male subject has been reinforced, with the percentage of male applicants
Open source (Free software)

A focus on communities rather than products

Meshes well with arts practice
Open source allows new relationships with technology
MetaReciclagem
Women in Computing Workshop at Goldsmiths University
Craft ↔ Tech

Start with = 0

Rule 1 = Replace 0 with 0:0:

Rule 2 = Replace : with :0:

1) 0
2) 0:0:
3) 0:0::0:0:0::0:
4) 0:0::0:0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:0::0:
Dr Ellen Harlizius-Klück:
Centre for Textile Research der Universität Kopenhagen
October marks the one year anniversary of a physical space for your favorite hackerspace! Come help us celebrate in our new home and see what we’ve been up to! LEDs, Cyborgs, 5 Minutes of Fame, Cold Boot Attacks, DIY Musical Performances, OpenEEG, Dark Optics Lab, Brain Machines, Python, oh my!
OSSI-1 Satellite finally launched on 19th April 2013 09:00 UTC Time in Baikonur, Kazakhstan.
“The swamp that was”: Electrified festival, Ghent 2012
‘The Marja trio’ – Hailuoto, Finland 2013
http://www.haiart.net/
‘Opera FiXi’ – Porto, on the rio Douro, Portugal 2013