[**WHAT IS THE INTERNET ?**
surely not what you think]

Hacker space? Is that not some kind of pirate bay?

By Yori Fournier

(4/4)

About the conference series

- Four talks of 30 minutes each
  - 24th of September → **What is the Internet?**

  - 8th of October → **How to use the Internet?**

  - 22nd of October → **What is the impact of the Internet on the virtual world?**

  - 5th of November → **What is the impact of the Internet on the physical world?**

- 30 minutes discussion

- Beer !

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What is a Hacker?

What is a Hacker?

- Short Story:

  - With Internet programmers could exchange pieces of programs.

  - A program is made of functions (a program is very modular)

  - A function is like a lego brick.

  - Using a function for another purpose than what it was designed for is a Hack!

  - In the late 70's there were no tools to use the internet and just a few to use computers.

  - Hence, most of the Internet users were hackers. You had to hack to do what you wanted.

What is a Hacker?

- Hacking:

  - It is older than the Internet.

  - Internet made it global. Hacking is a key brick of the Internet culture. To use the internet you had to be a hacker.

- Hacker is not:

  - an evil person, not a pirate, not necessarily a programmer.

  - what the mass media are calling a hacker (cracker).

- Hacker is:

  - a person who is using a digital/physical object for another purpose than it was designed for.

Hacker Space

Hacker Space

- Like any cultural movement hackers needed a place to meet.
  - A place for hacking!
  - A social place, where people are driving projects.
    A place of learning, discussing, sharing!
- Hacker spaces are the continuity of the Internet in the physical world.
  - What happened on the Internet (hacking, social connection, chating, jockes, sharing, teaching, learning…) happen in hacker spaces.
- http://hackerspaces.org/wiki/

Hacker Space

- Hackers spaces in the world (~1000)

http://hackerspaces.org/wiki/
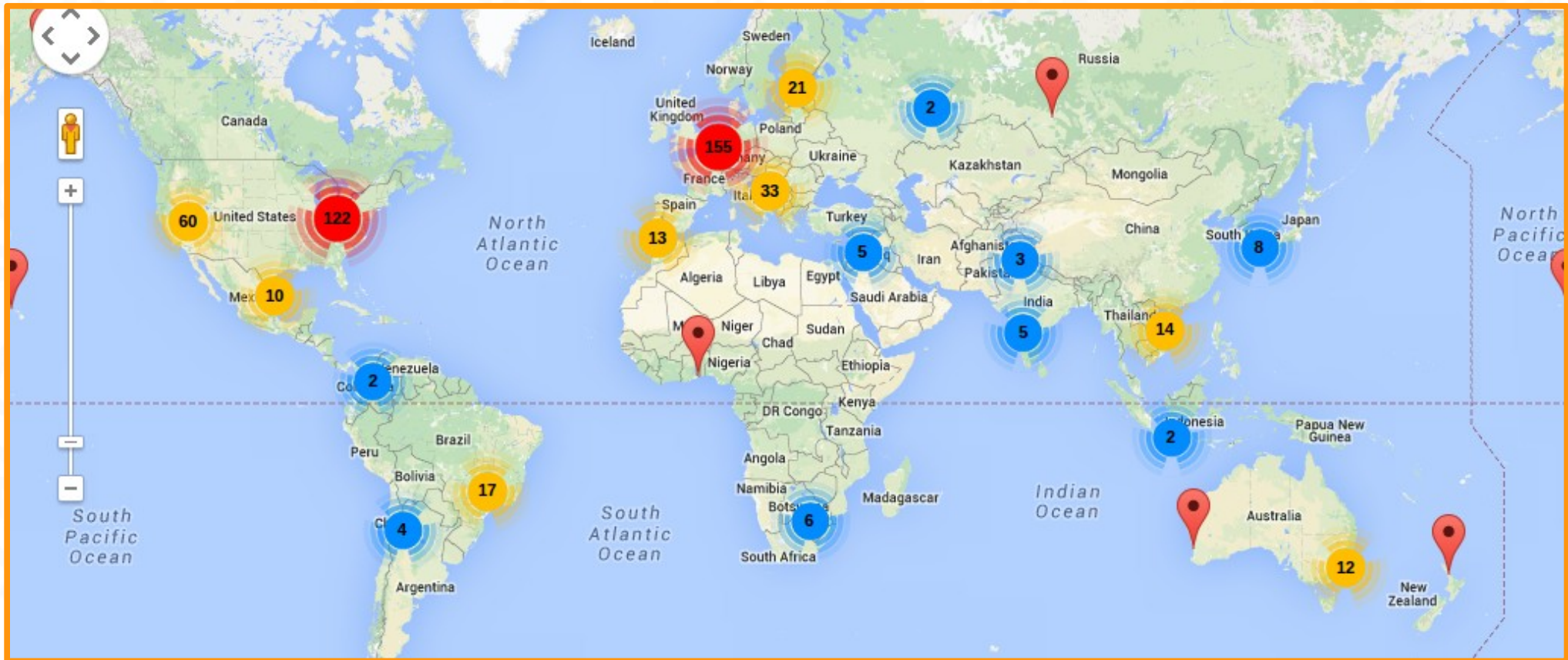
From Hacking …
… to DIY

- **Why hacking ?**
  - For knowledge (ex. of the network guy)
  - For solving a problem for which there are no available tools.

- A **lack of tool** is what another community is often facing:
  - The **Do It Yourself** community (DIY)

- Hacking is also a key brick of the **DIY culture**.

From Hacking …
… to DIY

- Both movements profited from the Internet, because they had similar cultural practices:

  - Sharing in the internet sense

  - Teaching what you know

  - Learning by doing (LBD)

  - The one who knows-how decides. The know-how power.

- The Internet brought the platform for these communities and a place to mix.

  - Hackers and Makers (DIY) are very close to each other.

  - Hackers: for knowledge, Makers: for building.

From Hacker Spaces...
... to FabLabs

- A Maker is hacking by default but he wants to build.
  - Some time he doesn't want to hack (dirty).
  - But he still doesn't have the tools …
- Fabrication Laboratories (FabLabs) are places where
  - the tools are.
  - you can learn how-to (use te tools, drive your project...)
  - you can share your knowledge
  - You can hack! (no dirty hack)
- FabLab in Potsdam: Freiland (http://machbar-potsdam.de/)

From DIY to Open hardware

- The Problem with DIY:

  - you rarely have access to the plan/source of an object. Hence people got same problematic than with softwares.

- You needed open hardwares.

  - Example: the MakerBot 3D printer.
  - They face more complex licenses problematics.
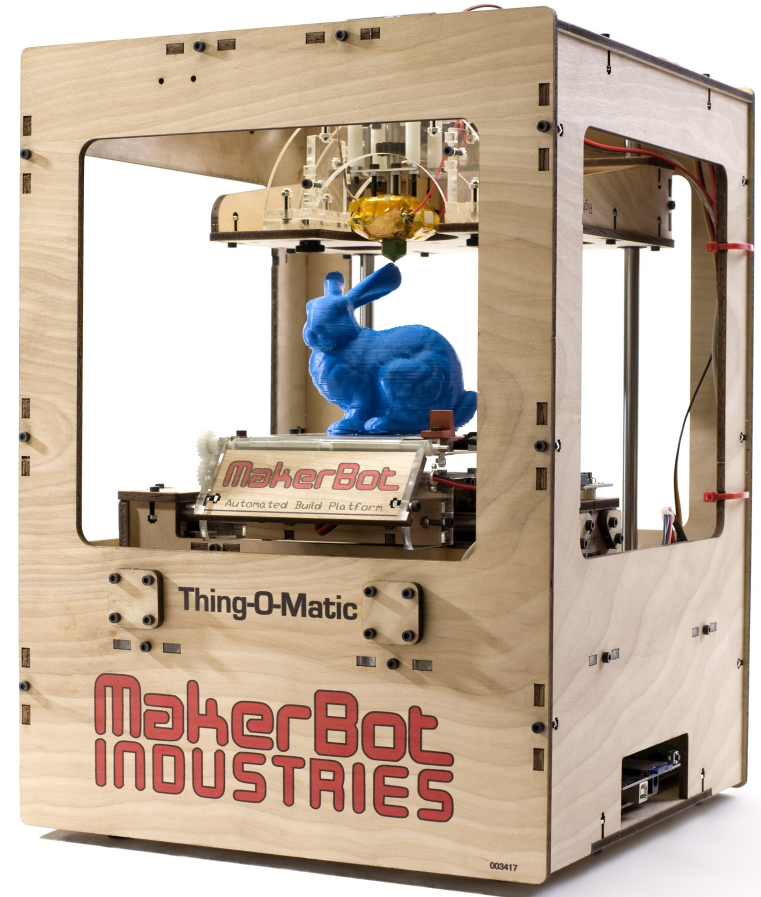
By MakerBot Industries (CC-BY)

Examples of famous communities.

 (1981)

- 1984 Chaos Communication Congress
- 3600 members
- own journal
- Website: ccc.de

Examples of famous communities.

- C-base

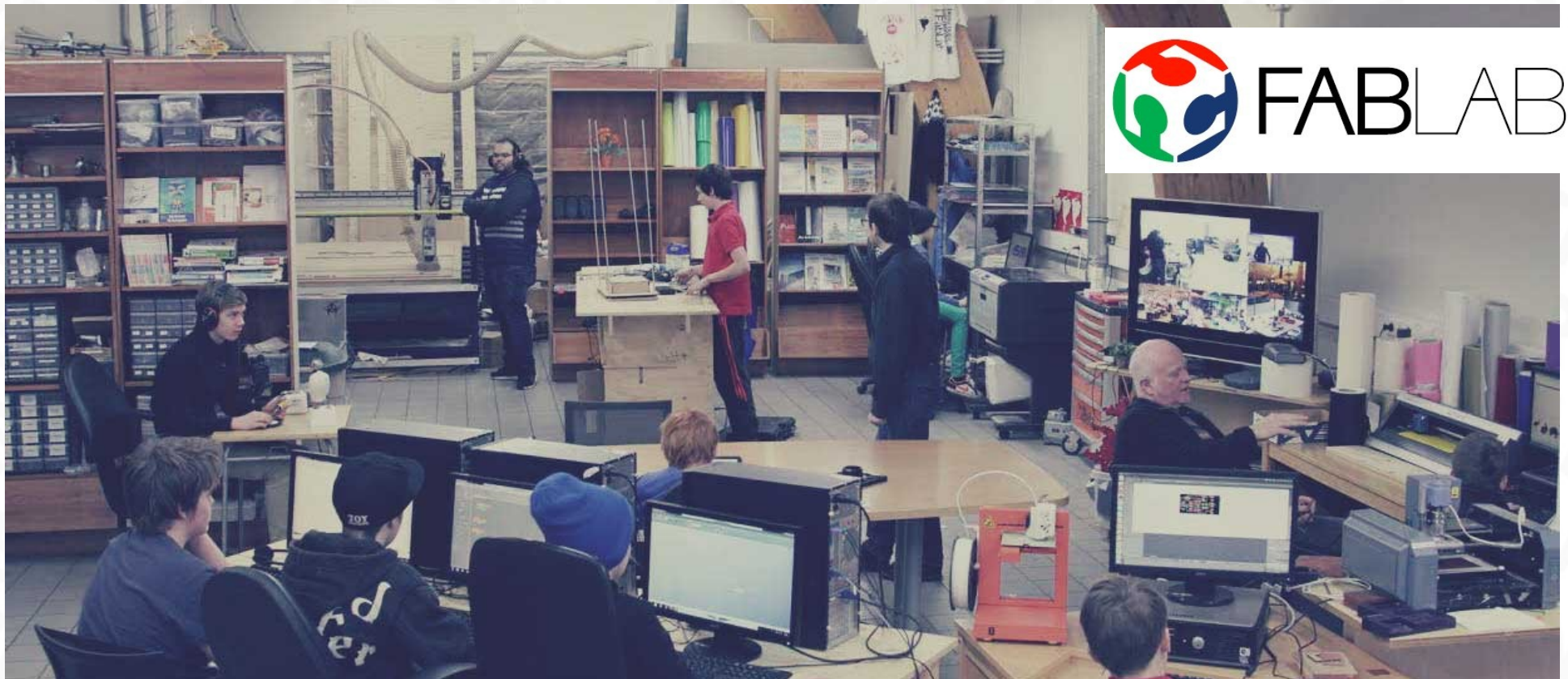 – Hacker space in Berlin (Jannowitzbrücke)

  – Part of the hackers space network

  – Website: c-base.de

Examples of famous communities.

- FabLab Vestmannaeyjar (Iceland)

Internet is real

- Hacker spaces and Fablabs are not the exclusive physical continuation of the Internet.

  - The Open Data Movement: free access to scientific publications.

  - Net Neutrality Movement and Hacktivists.

  - CopyLeft Movement

  - The Self-Hosting Movement and The DIY-ISP movement.

  - many more …

- They are all very real ! As well as their actions.
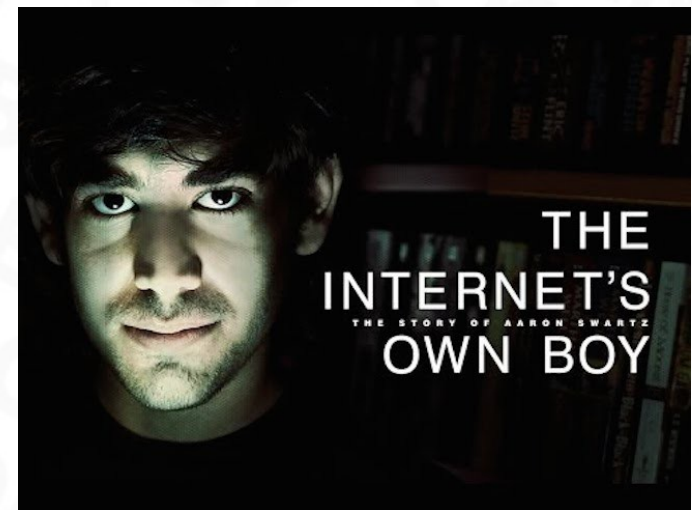
  - Sometime too real...

Internet is real

- Dramatic stories
  - The Pirate Bay: check the movie: TPB AFK
  - WikiLeaks: just read the news.
  - Aaron Swartz: The Internet's own boy.

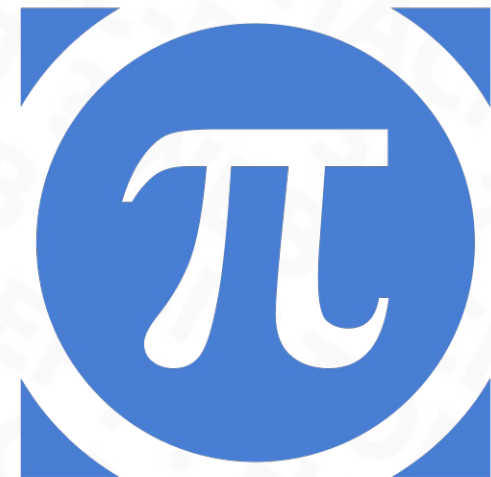- I'll make a movie session about this topic this winter.

Internet is real

- Happy stories
  - Stop Online Privacy Act (SOPA): Aaron
  - HADOPI: Quadrature du Net
  - many more…

LA QUADRATURE DU NET

Conclusion of the serie

- **What is the internet?**
  - A decentralized network meant to avoid control
- **How to use the Internet?**
  - Avoid centralized network → toward selfhosting.
- **The impact of the Internet on the digital world**
  - Sharing like internet: Copy left, free software...
- **The impact of the Internet on the real world**
  - New place for creativity, new way of communication, very real.

Internet is an idea. Share it!