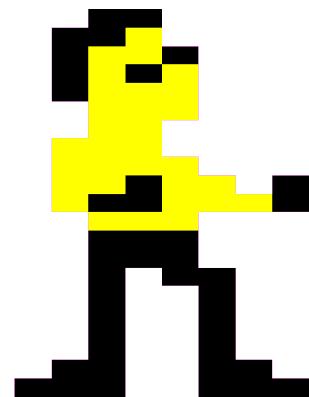




SMAS Swiss Mechatronic Art Society
SSAM Société Suisse d'Art Méchatronique
SGMK Schweizerische Gesellschaft für Mechatronische Kunst
www.mechatronicart.ch



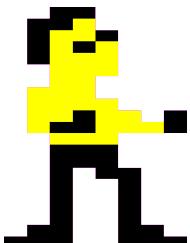
Hackerspaces zwischen Digital- und Biotechnologie

Dr. Marc R. Dusseiller aka dusjagr

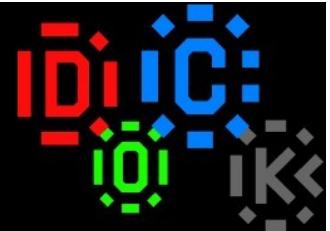
www.dusseiller.ch/labs



h a c k t e r i a



DOCK18
RAUM FÜR MEDIENKULTUREN



playground
workshop

diko cultura 文化培養皿

Acknowledgements

Markus Haselbach, Urs Gaudenz, Iris Rennert

Tobias Hoffmann, Urban Schwegler... und alle anderen Mechatroniker

Dock18, Mario Purkathofer, ANORG

Yashas Shetty, CEMA, Bangalore

Andy Gracie, Gijon

Mac Cowell, DIYbio Boston

HONF, House of Natural Fiber, Yogyakarta

Mischa Schaub, Hyperwerk, Plexwerk

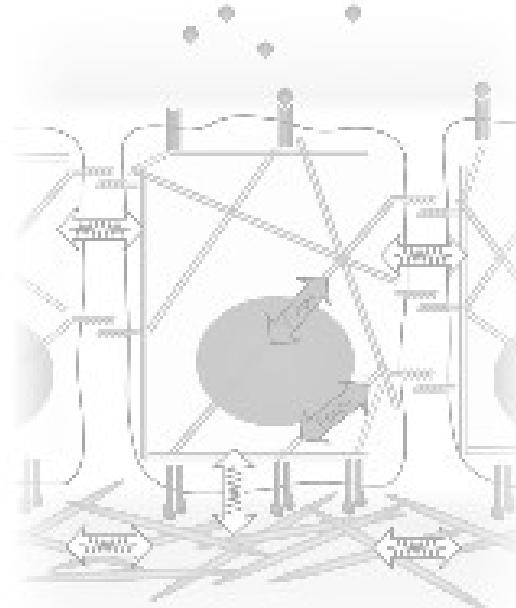
Förderungen durch: Migros Kulturprozent, BAK, Stadt Zürich

Fields of Activity

dusjagr labs – transdisciplinary Scholar and Artist

<http://www.dusseiller.ch/labs/>

- SGMK | OpenMechArtLab, diy* festival
 - <http://www.mechatronicart.ch/>
- Hackteria | Open Source Biological Art
 - <http://hackteria.org>
- PlayAround 2010 - Taipei | DIWO Culture
 - <http://2010.playaround.cc>
- Dock18 | Raum für Medienkultur
 - <http://www.dock18.ch>
- FHNW, HLS | wetPONG - Hybrid Games, Micro- and Nanotechnology and Life Sciences
 - <http://wetpong.net>
- ZHdK | SlowGames
- ETH Zürich | Traditional Materials



ETH Zürich 2006

PhD Thesis at LSST, Department of Materials, ETH Zürich, 2006 - scholar.google.com/scholar?q=dusseiller

dusjagr labs, c/o Marc Dusseiller, Schöneggstr. 34, CH-8004 Zürich - +41 78 645 82 59 - marc@dusseiller.ch



Micro- and Nanoengineering the 3-Dimensional Environment of Cells in Culture



Marc R. Dusseiller

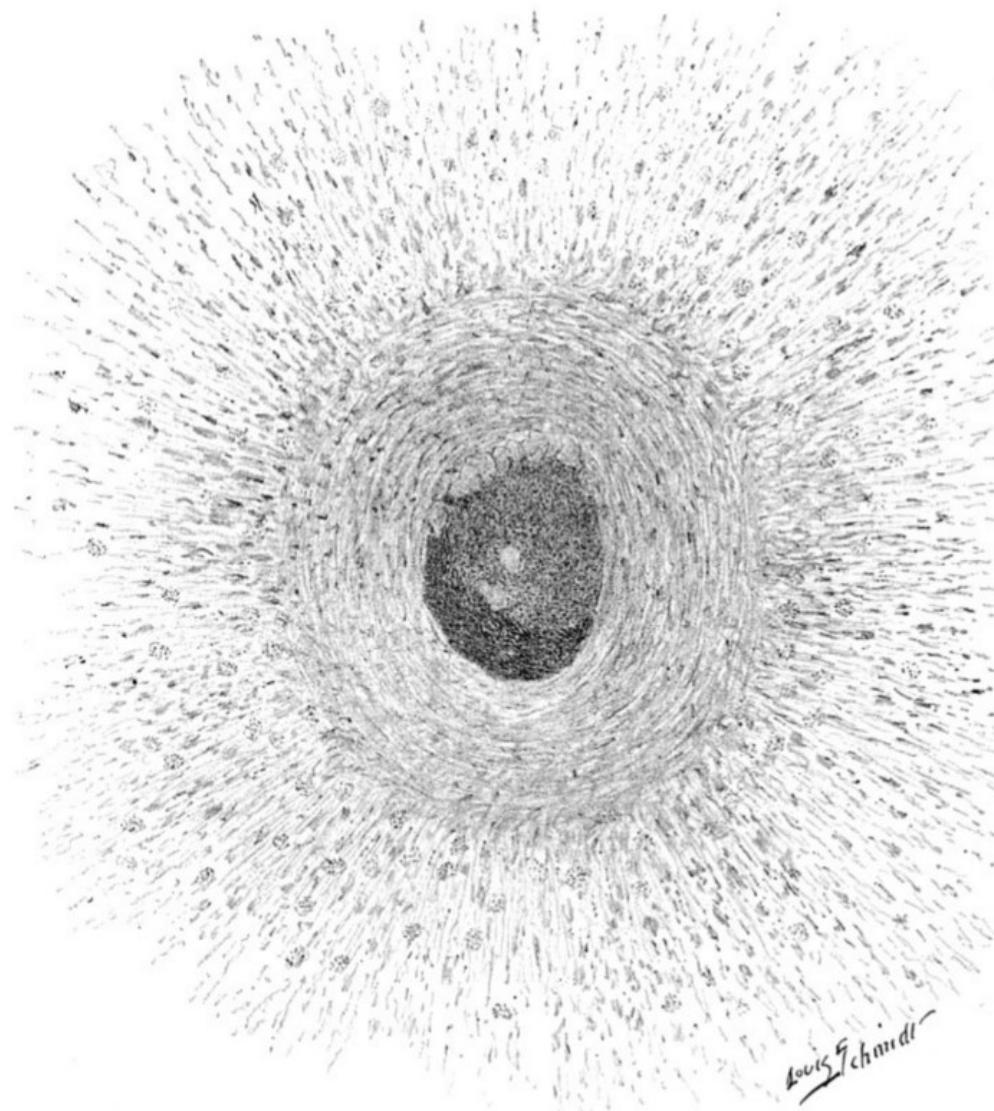
Marc R. Dusseiller
Diss. ETH No. 16433

Diss. ETH No. 16433

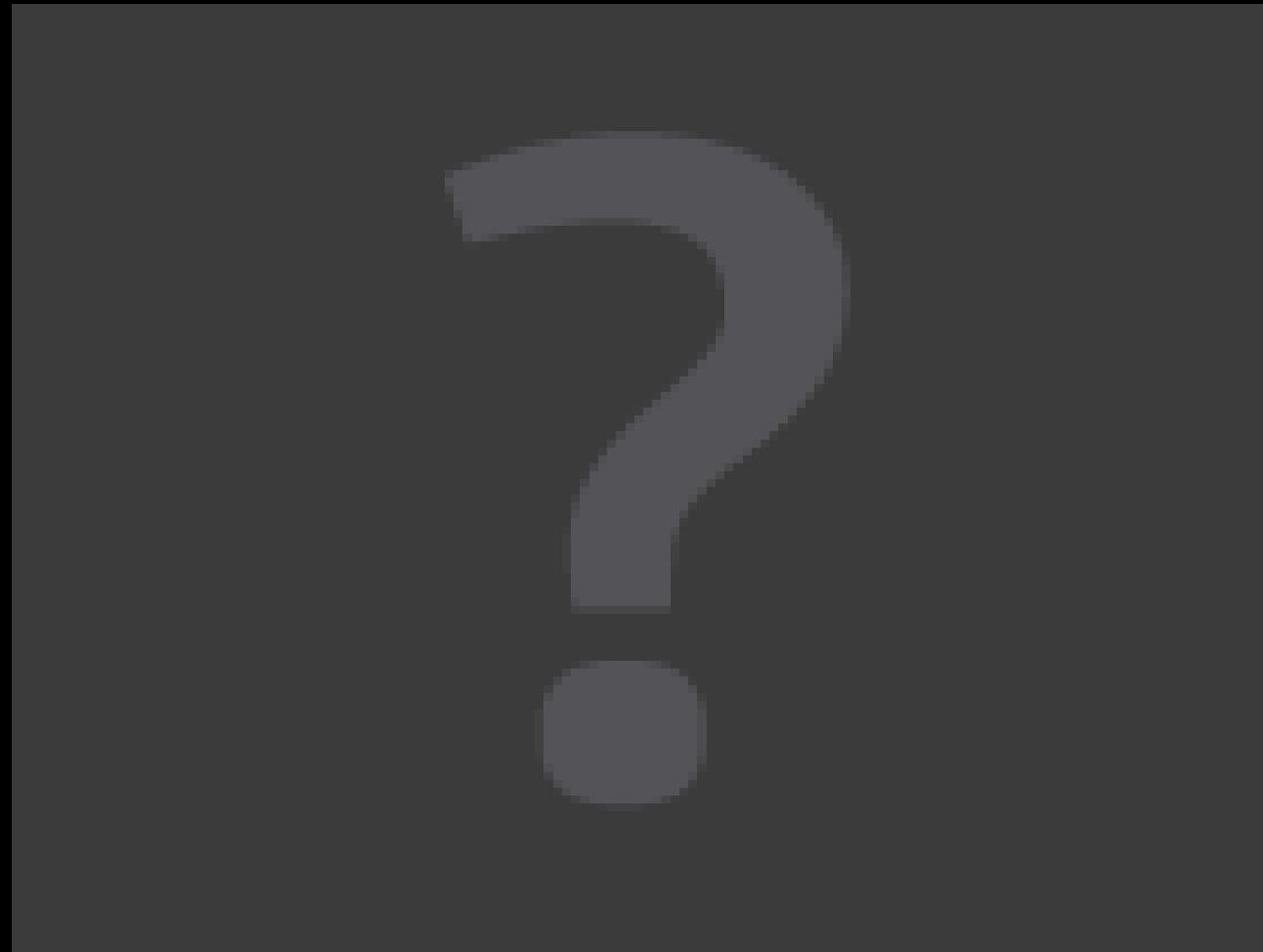
ON THE PERMANENT LIFE OF TISSUES OUTSIDE
OF THE ORGANISM.*

BY ALEXIS CARREL, M.D.

(*From the Laboratories of The Rockefeller Institute for Medical Research,
New York.*)



Design of Cellular Patterns 2D





Hackerspaces zwischen Digital- und Biotechnologie

Hack

Originally:

„A quick job that produces what is needed, but not well.“

1950s:

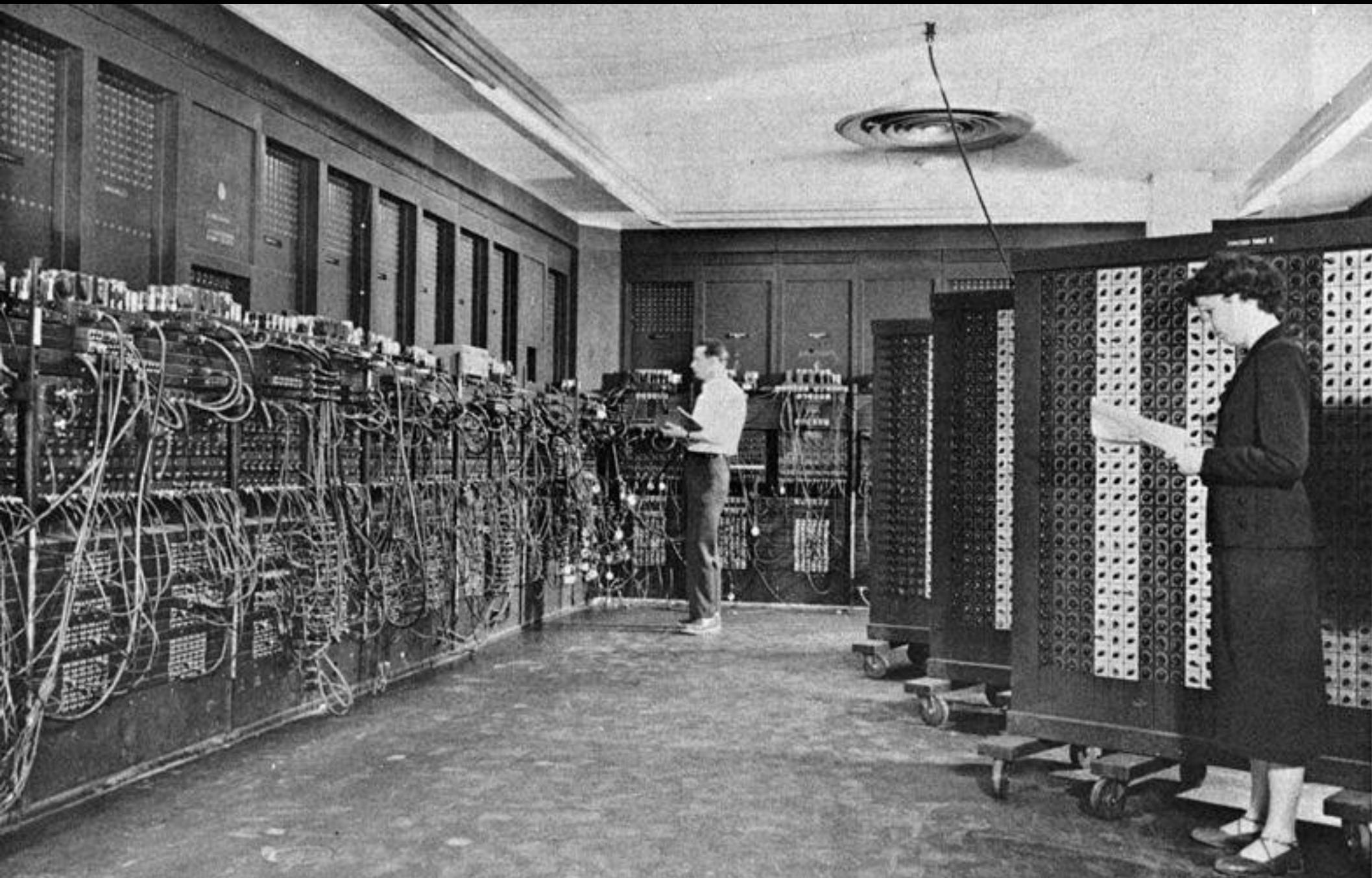
Amateur radio enthusiasts defined the term hacking as creatively tinkering to improve performance.

Hacker's jargon:

"A clever solution to a problem."

„An appropriate application of ingenuity.“

Hacker



Hacker

Software

- Passwörter, Programmieren, Netzwerk, Information, Sicherheit

Hardware

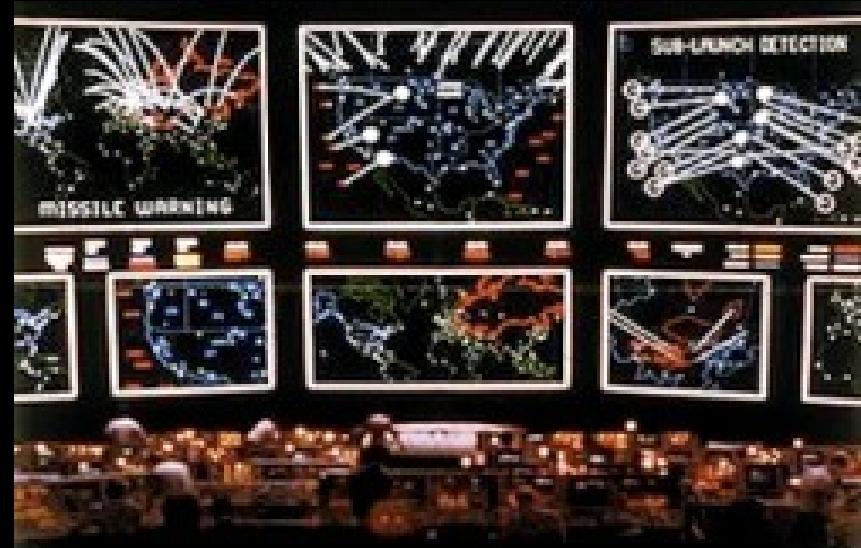
- DIY, Radio, Satelliten, 3D-Printer, Manufaktur

Wetware

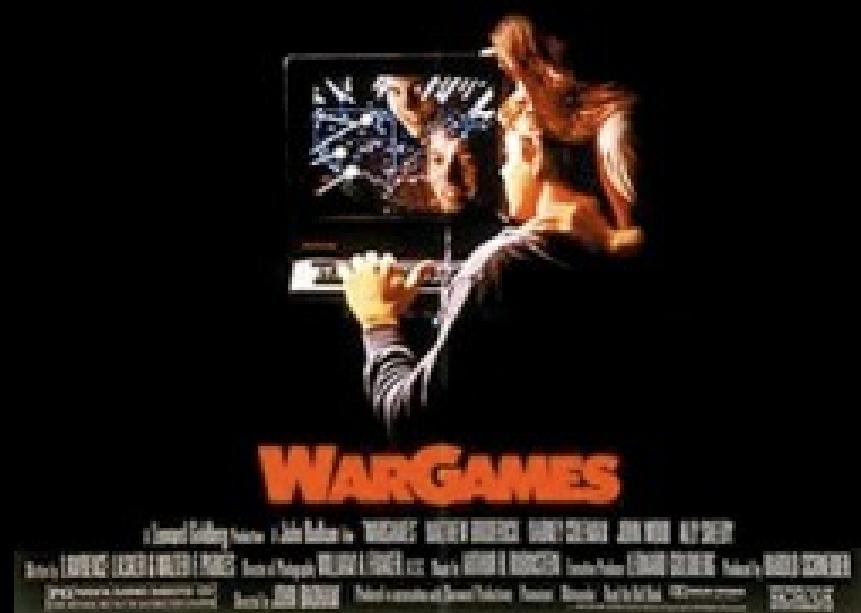
- DNA Sequencing und Modifikation, Synthetische Lebensformen, Genetischer Code/Daten, Sicherheit

Social Engineering

- Kontext Verschiebung, Politischer Aktivismus, Medienkunst, Öffentlichkeitsarbeit



Is it a game, or is it real?



Hacker

"Hacker ist jemand, der versucht, einen Weg zu finden, wie man mit einer Kaffeemaschine Toast zubereiten kann"

Wau Holland, ccc

„Hacker ist jemand, der Freude hat Beschränkungen zu umgehen.“

Robert Bickford

Hackerspaces

http://hackerspaces.org/wiki/List_of_Hacker_Spaces

hackerspaces.org

List of Hacker Spaces - Hackerspace...

Log in / create account

hackerspaces

Page Discussion View source History

Hackerspaces

Communication

List of hackerspaces

> add a hackerspace

List of events

> add an event

List of projects

> add a project

Recent changes

Go Search

What links here

Related changes

Special pages

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Permanent link

List of Hacker Spaces

This is a comprehensive, user-maintained, list of Hackerspaces throughout the world. We have also a [list of planned Hacker Spaces](#).

Map Satellite Hybrid

cccb / c-base - Berlin

The screenshot shows a presentation slide with the following content:

- Navigation bar at the top: "Introduction" (with 6 dots), "Design Patterns" (with 20 dots), and "Conclusion".
- Main title: "Building a Hacker Space" with a small cursor icon to its left.
- Text: "Jens Ohlig <jens@ccc.de> Lars Weiler <pylon@ccc.de>"
- Date: "24th Chaos Communication Congress"
- Date: "December 27, 2007"
- Image: A photograph of a hacker space interior with multiple computer workstations and equipment.
- Bottom footer: "J. Ohlig, L. Weiler" and "A Hacker Space Design Pattern Catalogue".
- Bottom footer: Creative Commons license icons (CC BY SA).
- Bottom footer: Beamer navigation icons.



NYC resistors – New York

NYC Resistor » Electronics, Hacking, Cl... [+ New tab](#)

http://www.nycresistor.com/ nyc resistor

NYC RESISTOR :: STORE :: CLASSES :: WIKI :: PARTICIPATE :: LASER :: CONTACT :: ABOUT



NYC RESISTOR

WE LEARN, SHARE, AND MAKE THINGS

3D Modeling by Numbers: Learn to use OpenSCAD

By: kellbot June 17th, 2010

4 retweet



WHAT IS NYC RESISTOR

NYC Resistor is a hacker collective with a shared space located in downtown Brooklyn. We meet regularly to share knowledge, hack on projects together, and build community.

[Learn more](#)

LOCATION & DIRECTIONS

87 3rd Avenue,
4th Floor
Brooklyn, NY 11217

DIYbio – Boston

Safari browser window showing the DIYbio - Boston website.

Address bar: http://diybio.org/local/boston/

Toolbar icons: Back, Forward, Stop, Home, Refresh, Stop, RSS, Favorites, Help, Search, Print, Close.

Open tabs: Gmail - some thoughts for prese..., DIYbio » Boston DIYbio, +

Content area:

- DIYBIO logo:** A black and white logo featuring the word "DIYBIO" in a bold, sans-serif font inside a stylized brain-like shape with DNA helixes at the bottom.
- Navigation menu:** Blog, About, Chat, Local Groups, Mailing List & Event Calendar, Press, Projects, Survey, Forums.
- Boston DIYbio section:**
 - Boston DIYbio:** This is Boston DIYbio. We meet up every 2-4 weeks in the Somerville/Cambridge/Boston area. Join our low-traffic [mailing list](#) to hear about upcoming events.
- Event section:** **diybio-boston April 2010 meetup: Microbial Fuel Cell Edition** (Wednesday, April 21st, 2010).
 -
- About us sidebar:** DIYbio is an organization that aims to help make biology a worthwhile pursuit for citizen scientists, amateur biologists, and DIY biological engineers who value openness and safety. This will require mechanisms for amateurs to increase their knowledge and skills, access to a community of experts, the development of a code of ethics, responsible oversight, and leadership on issues that are unique to doing biology outside of traditional professional settings.
- Recent comments sidebar:** [redacted]

Medialab Prado – Madrid

MP http://medialab-prado.es/ medialab prado

MP Medialab-Prado Madrid +

MEDIALAB PRADO

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search



Interactivos?'10: Neighborhood Science · Workshop

Medialab-Prado holds the international workshop-seminar **Interactivos?'10: Neighborhood Science** from June 7 through 23, 2010, where ten selected projects will be collaboratively developed. These ten proposals put into action collaboration and local urban knowledge networks using free software and hardware technologies as well as "Do It Yourself" (DIY) and "Do It With Others" (DIWO) methods.

Tutors: **Platoniq**, **Douglas Repetto**, and the work team formed by **Andrés Burbano**, **Alejandro Araque**, **Alejandro Duque** and **Alejandro Tamayo**. Assistants: **Massimo Avvisati**, **Pablo Ripollés** and **Yago Torroja**.

Lines of work

- [Interactivos?](#)
- [Visualizar](#)
- [Inclusiva-net](#)
- [Commons Lab](#)
- [AVLAB](#)

Activities

- [Thursdays at Medialab-Prado](#)
- [Workshops](#)
- [AVLAB Meetings](#)
- [Seminars](#)
- [Work Groups](#)

Calendar

« June 2010 »

House of Natural Fiber – Yogyakarta



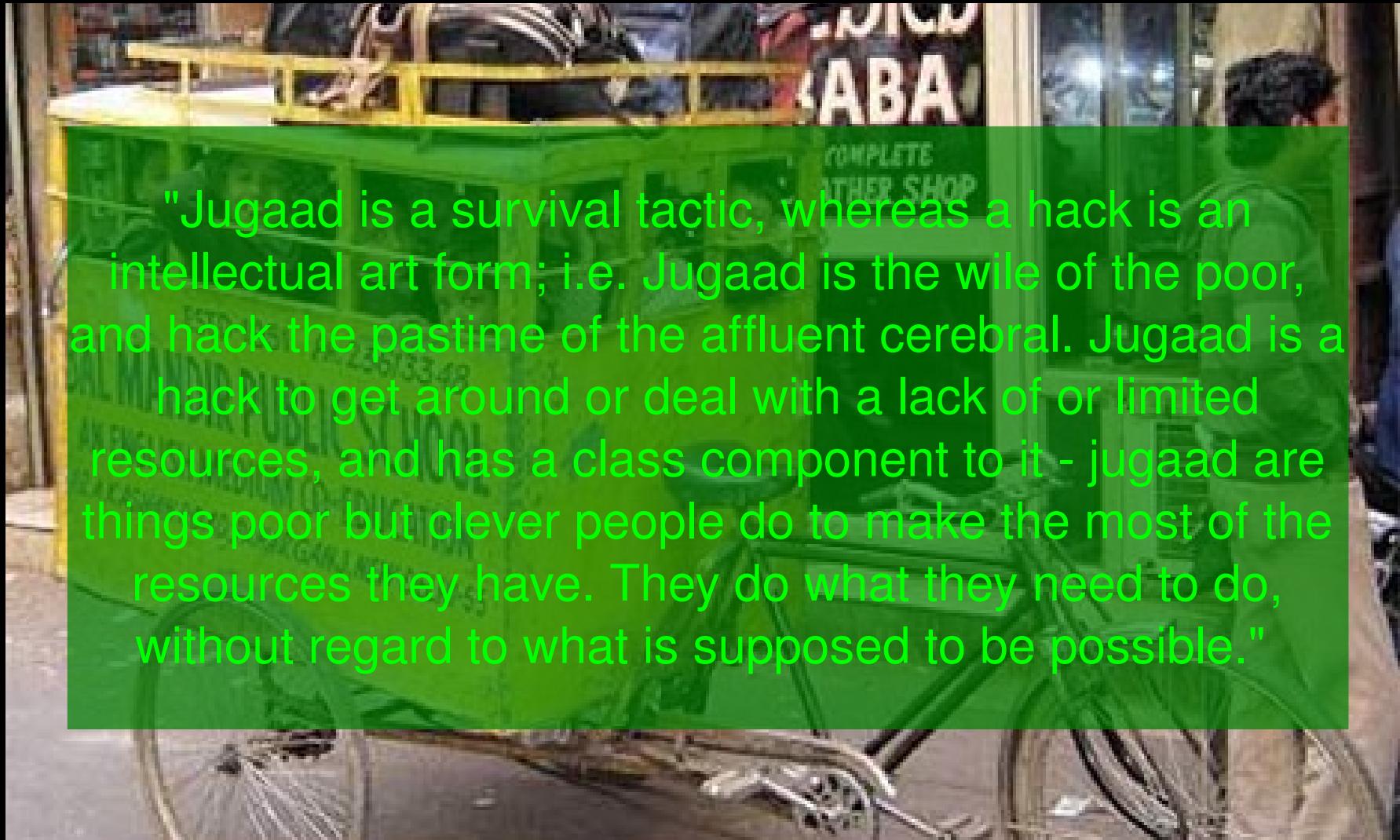
Hackteria @ HONF – Yogyakarta



Jugaad



Hack vs. Jugaad



"Jugaad is a survival tactic, whereas a hack is an intellectual art form; i.e. Jugaad is the wile of the poor, and hack the pastime of the affluent cerebral. Jugaad is a hack to get around or deal with a lack of or limited resources, and has a class component to it - jugaad are things poor but clever people do to make the most of the resources they have. They do what they need to do, without regard to what is supposed to be possible."

From Jugaad to Systematic Innovation

CEMA – Bangalore

Srishti School for Art, Design and Technology



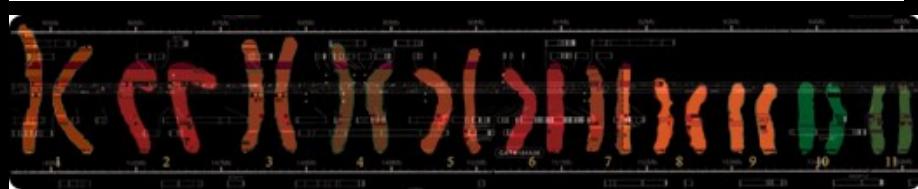
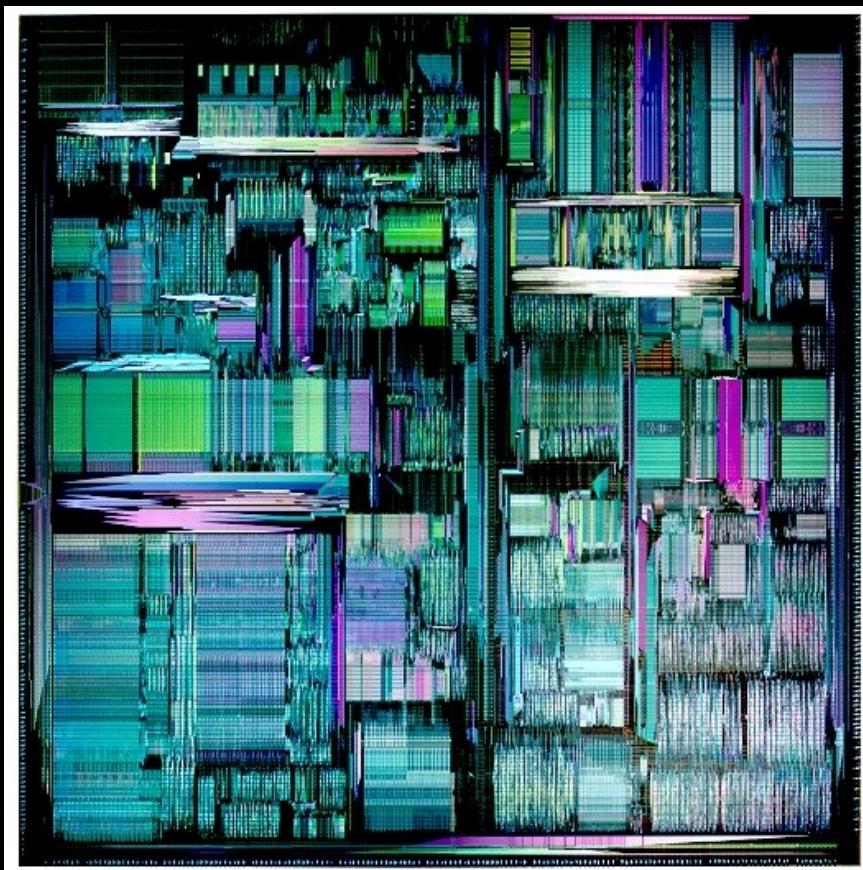
International Genetically Engineered Art Competition

Hackteria & CEMA @ IGEM



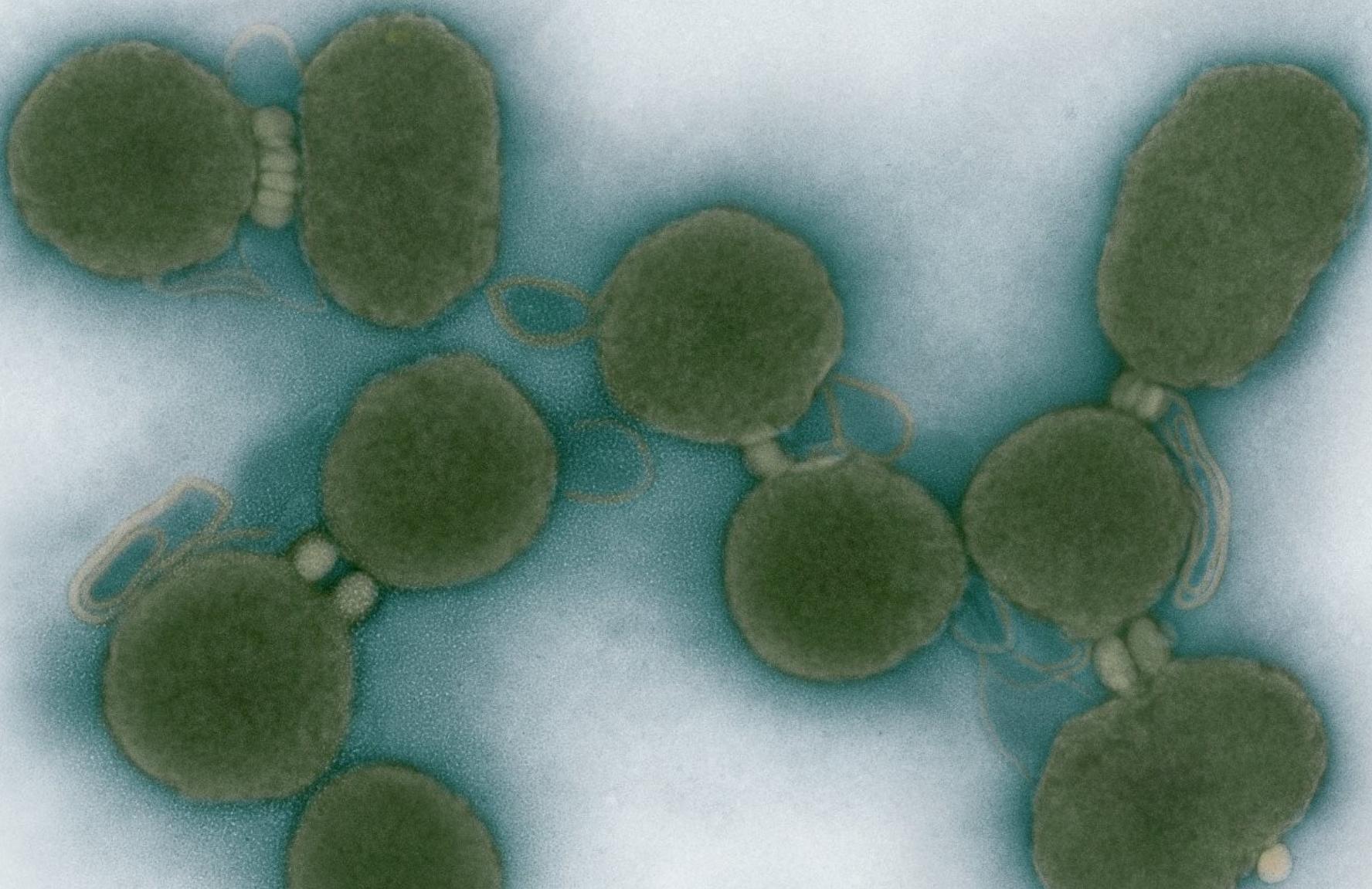
International Genetically Engineered Machines Competition

From Computers to Genes



Synthetic Biology

Mycoplasma mycoides JCVI-syn1.0



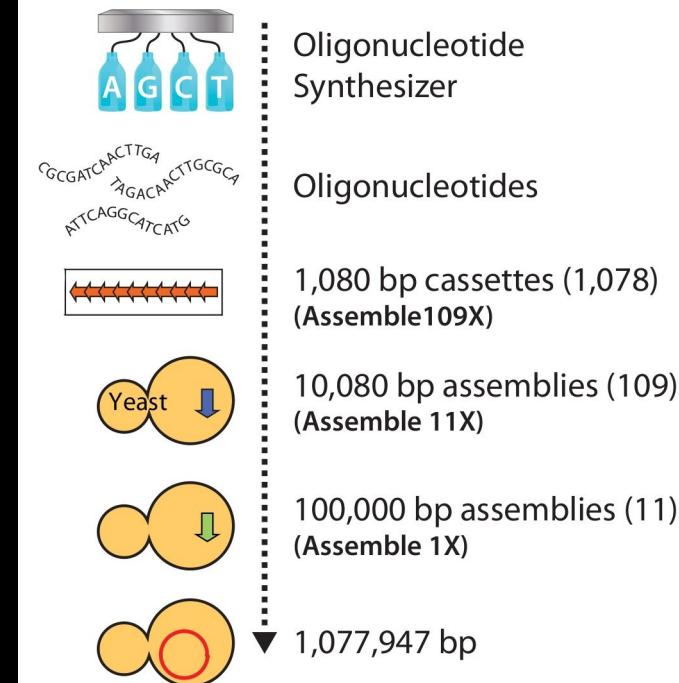
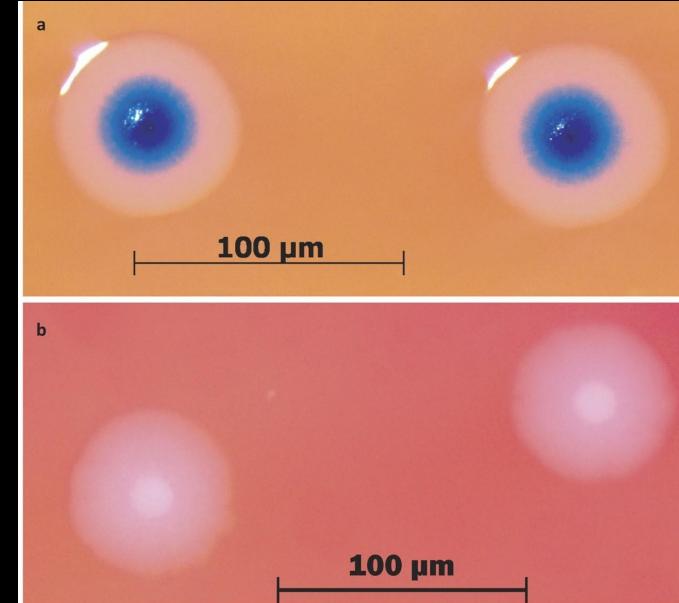
Synthetic Biology

What is Synthetic Biology

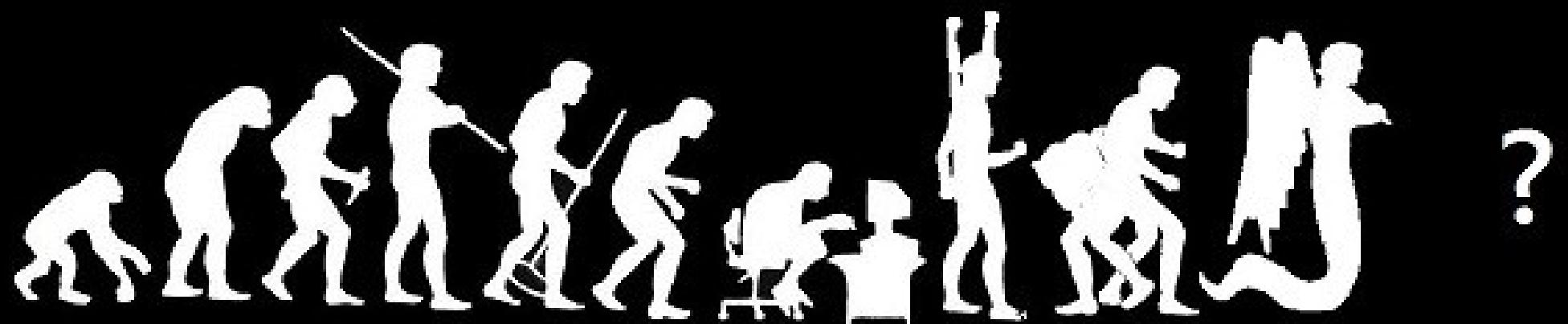
- the design and construction of new biological parts, devices, and systems
- the re-design of existing, natural biological systems for useful purposes

What is a Synthetic Cell?

- Self-replicating organism defined by synthetic chromosomes
- Process:
 - Design
 - Synthesis
 - Assembly
 - Transplantation
- Terminology
 - Hardware, Software, Bootable Systems



What's next?



Yashas Shetty, CEMA – Bangalore

Why should artists/designers/outsiders get involved with Synth-Bio(in particular) and Sci-Tech(in General)

"There is the obvious reasons that all outsiders bring in unique perspectives to any form of thinking-the artist/hacker has the courage to ask "stupid questions" which may not turn out to be stupid at all. the other is that the hacker/artist/designer may also come from spaces in which the technology is as important as the different contexts that it exists in -cultural/social/political which because a scientist(at least the way in which most of them are trained) may not be aware of or not be interested in."

Hackerspaces Schweizer Prägung?

Screenshot of a web browser showing a map of Europe with red pins marking hacker space locations. The map includes major cities like Paris, Berlin, Vienna, and Rome, and major roads like E15, E21, E23, E35, E43, E45, E50, E54, E60, E62, and E512. A callout box highlights "MechArtLab" in Stuttgart, Germany.

http://hackerspaces.org/wiki/List_of_Hacker_Spaces

List of Hacker Spaces - Hackerspace...

List of events
> add an event

List of projects
> add a project

Recent changes

Go Search

What links here

Related changes

Special pages

Printable version

Permanent link

Browse properties

MechArtLab

Map Satellite Hybrid

POWERED BY Google Roanne

Map data ©2010 Tele Atlas - Terms of Use

If we're missing your space or you want and/or are about to create a new one, please [add yourself](#) to the list.

hackerspace **Country** **State** **City** **Website**

[BAH](#) [Argentina](#) [Buenos Aires](#) [Capital Federal](#)

Workshops for Artists, Kids and Geeks



SMAS Swiss Mechatronic Art Society

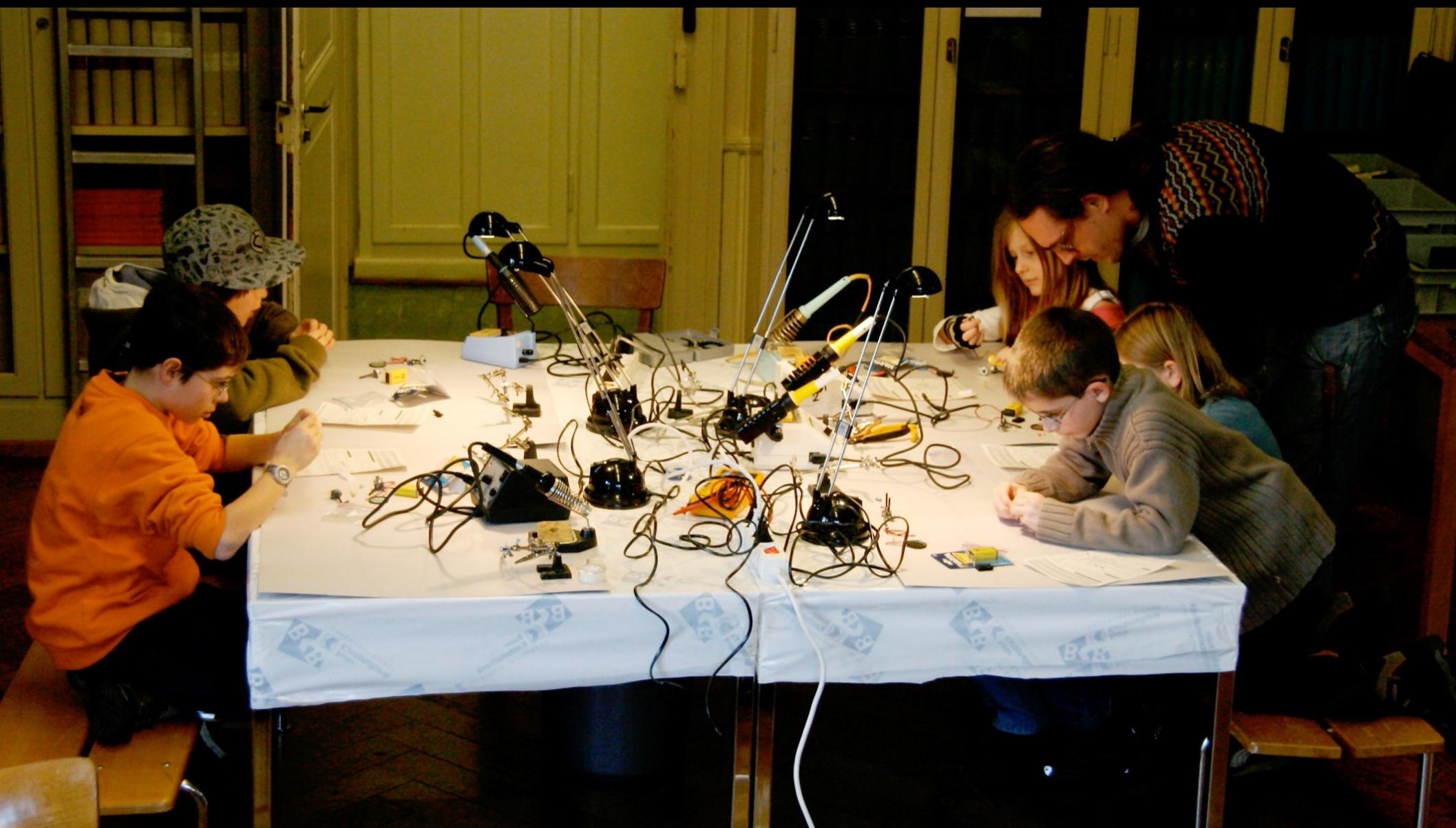
SSAM Société Suisse d'Art Méchatronique

SGMK Schweizerische Gesellschaft für Mechatronische Kunst

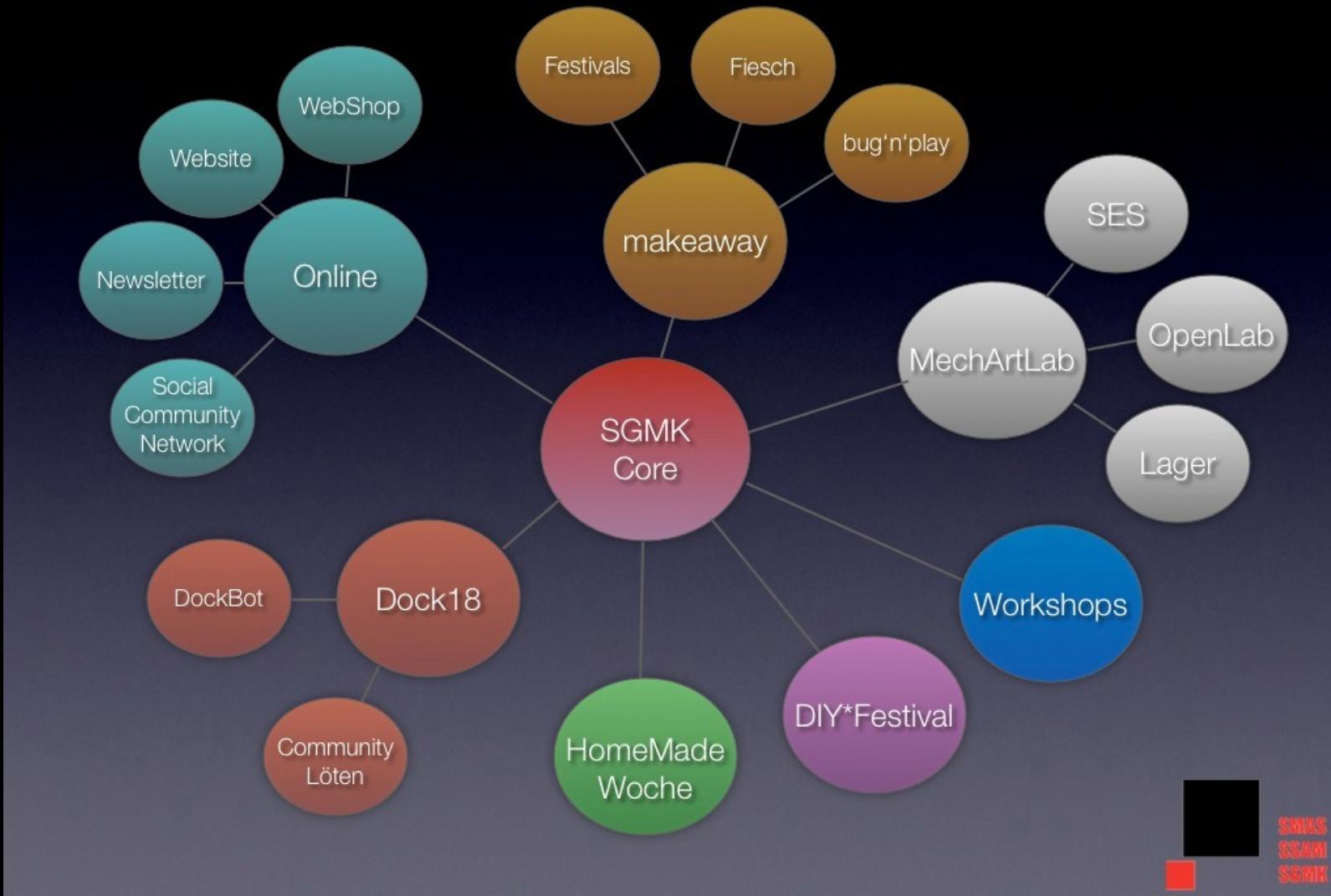
www.mechatronicart.ch







SGMK Activities



<http://sgmk-ssam.ch/activities/index.html>

MechArtLab



HomeMade Forschungswoche

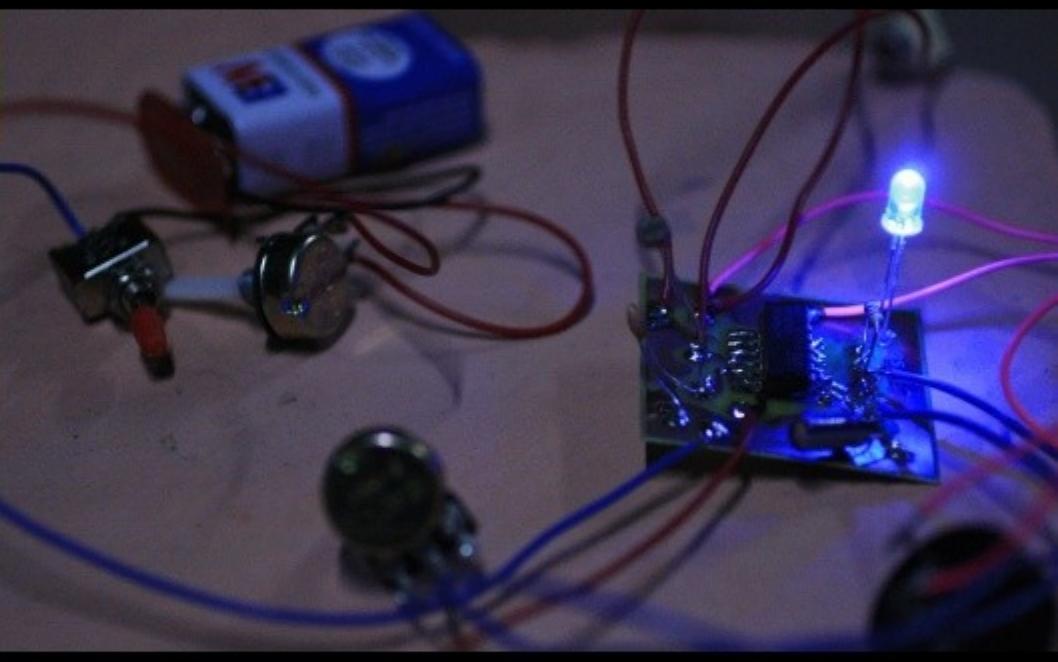


CD4093BE
RCA H 936

SGMK 08

diy makeaway

Krachmacher bauen mit der Schweizerischen Gesellschaft für Mechatronische Kunst

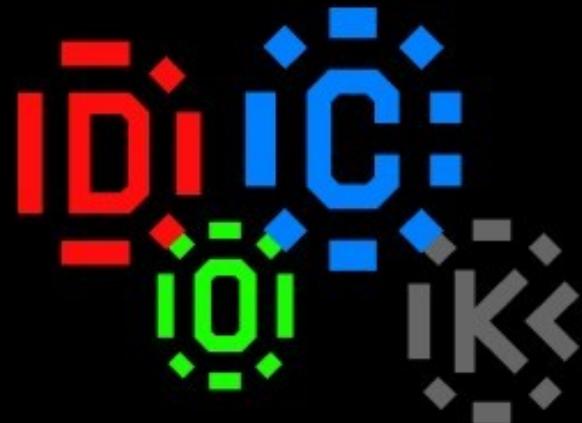


diy डीआईमेके

Krachmacher bauen mit der Schweizerischen Gesellschaft für Mechatronische Kunst

DOCK18

RAUM FÜR MEDIENKULTUREN



Raum für Medienkulturen
der Welt.

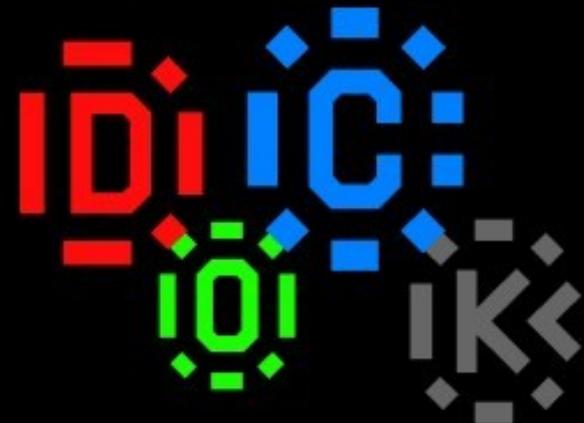
Please leave a message
here:

<http://www.dock18.ch>



DOCK18

RAUM FÜR MEDIENKULTUREN



Dock18 Show

- Netzkunst, Medienperformances, Netlabel, Vorträge

Dock18 Akademie

- Elektronik, Freie Software Audio/Video, 8bit Yoga, Freie Software Generell

offDock

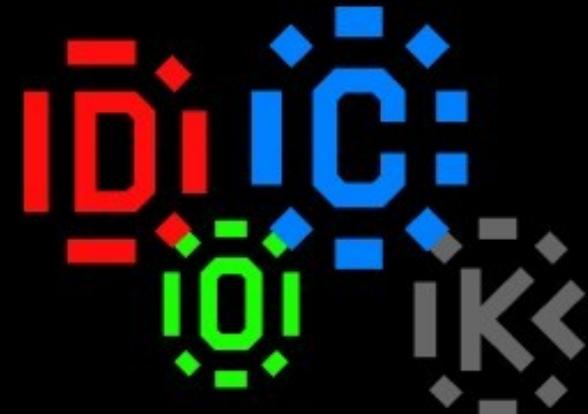
- Remote Performances, Remote Lectures, Remote Konzerte

In Zusammenarbeit mit Partnern

- Poolloop Festival, Netlabel, Copy!
- Dockbot
- Hackteria lab

DOCK18

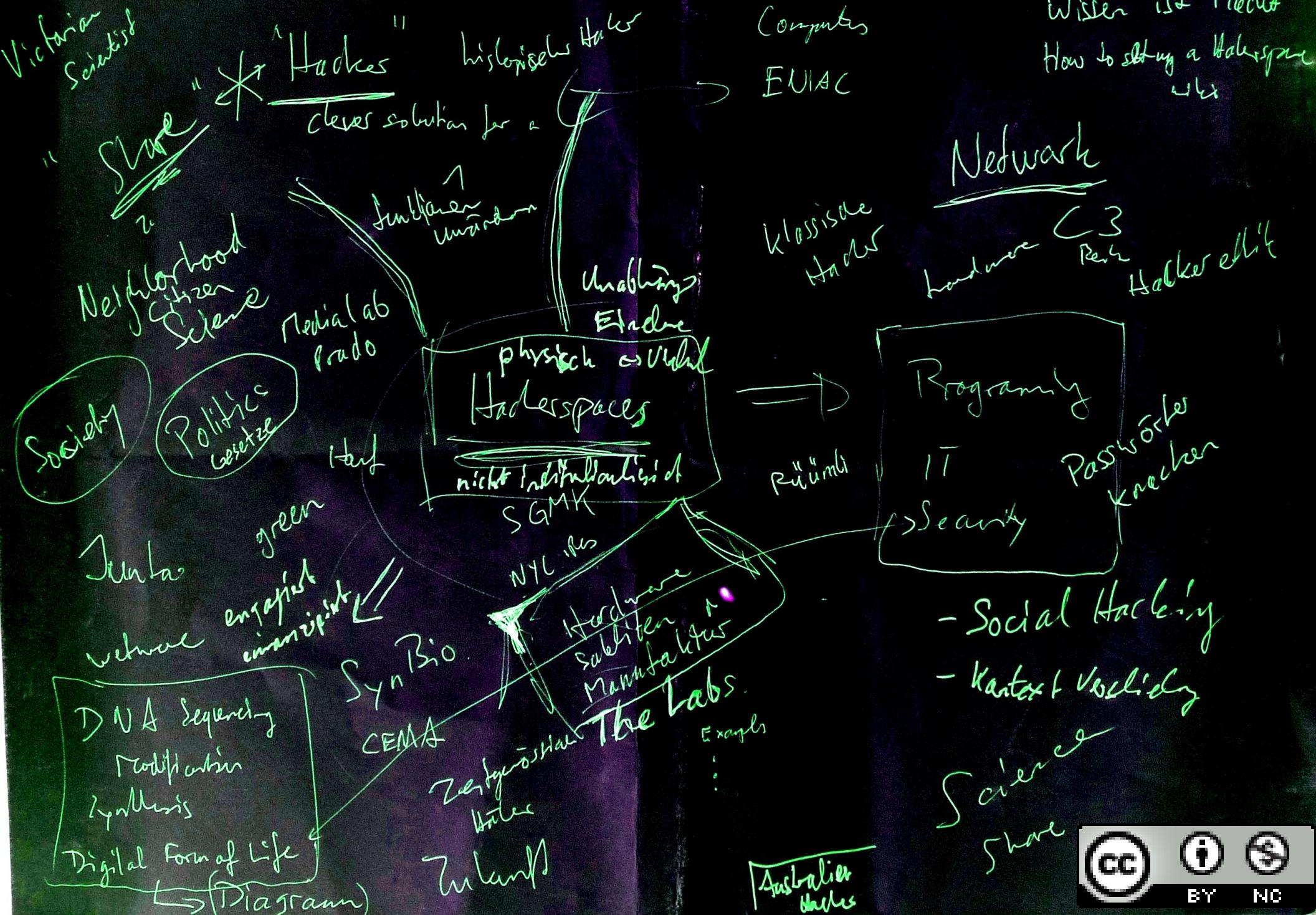
RAUM FÜR MEDIENKULTUREN



h a c k t e r i a



Zusammenfassung



How to set up a Hackerspace?

