





Caring for the Planet while Creating Feminist Internet

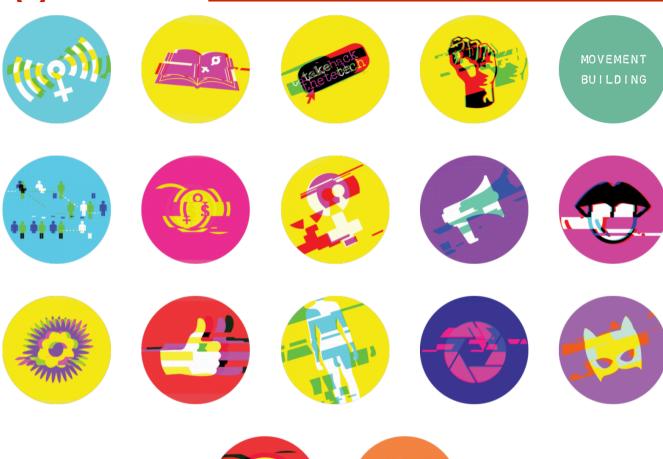


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Imagine a FeministInternet.org







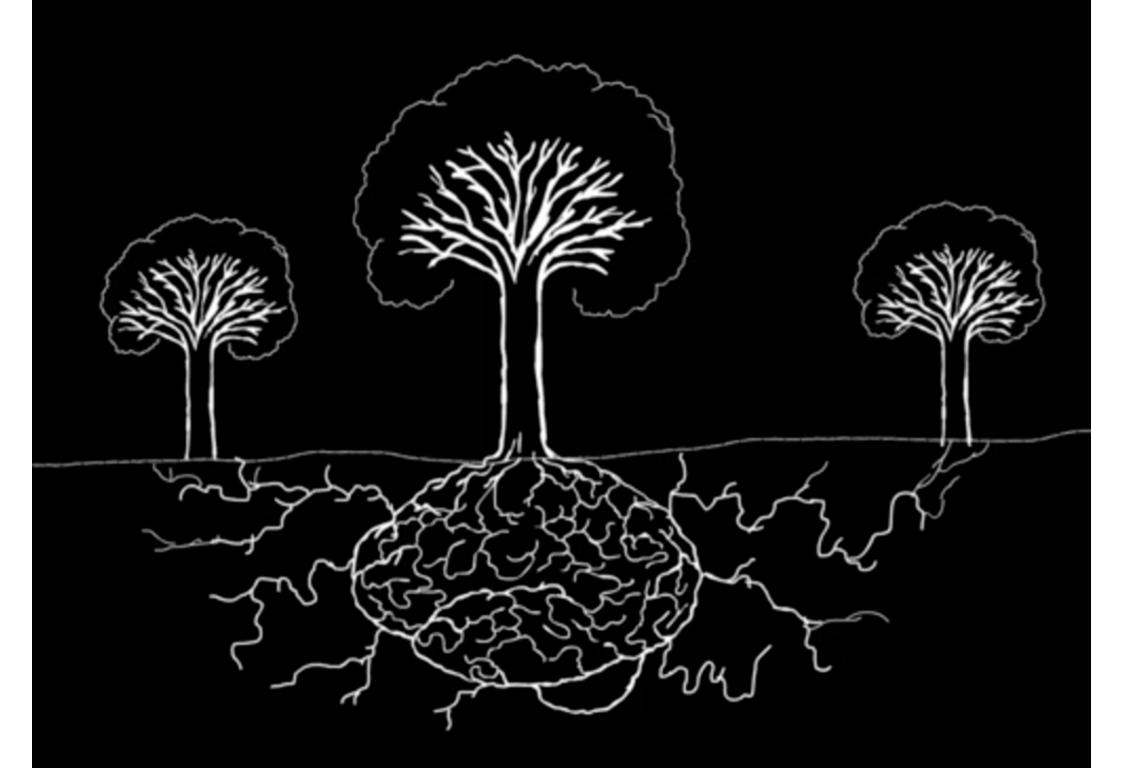
Imagine a Feminist Society

- a society predominantly concerned with maintaining its existence (and not endlessly expanding)
- a society with a modest standard of living,
- conservative of natural resources,
- with a low constant fertility rate and
- a political life based upon consent;
- a society that has made a successful adaptation to its environment
- and has learned to live without destroying itself or the people (or squirrels) next door.
- Ursula Le Guin, "A Non-Euclidean View of California as a Cold Place to Be" (1989)

Imagine If Trees Gave Off Wifi Signals, We Would Be Planting So Many Trees And We'd Probably Save The Planet Too.



Too Bad They
Only Produce The
Oxygen We
Breathe.

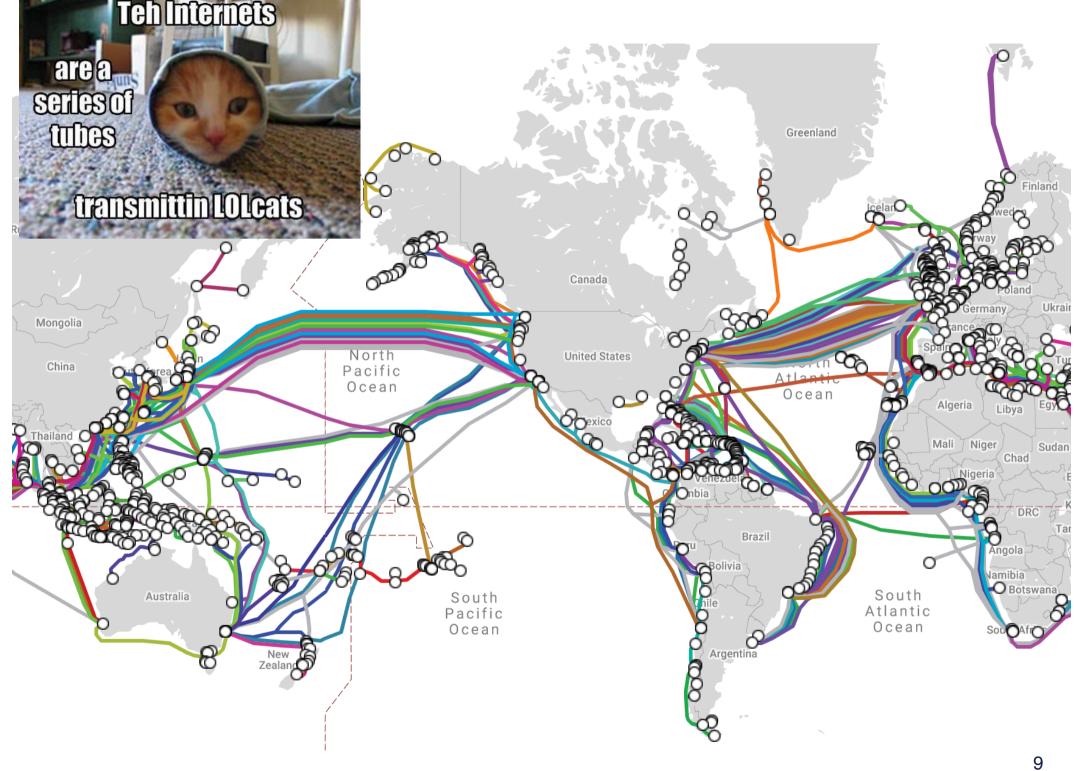


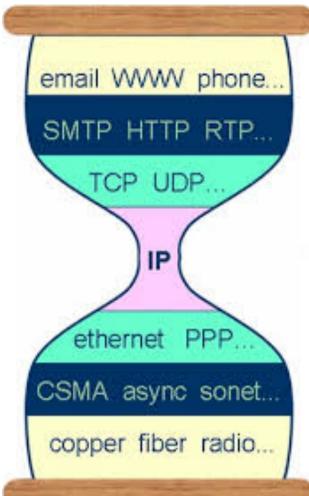


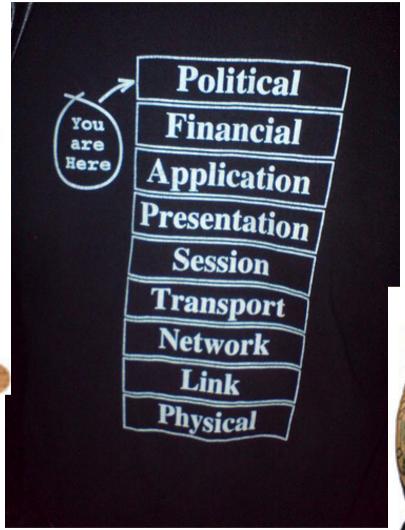


Internet Plumbing

https://wiki.techinc.nl/User:Becha/InternetPlumbing









Ethernet IP TCP data

Where do IP addresses come from?



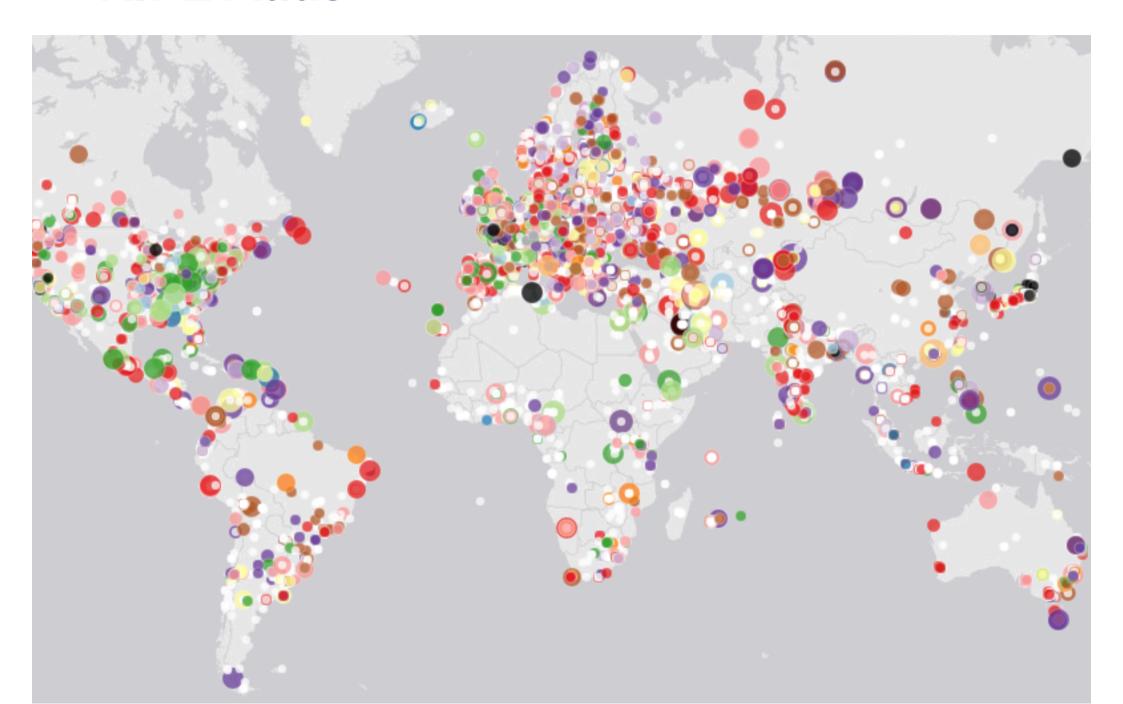
RIPE Community: Working Groups

- Anyone can join the discussion & do the work
 - on "mailing lists" &web-forum
 - at the RIPE meetings In Real Life
 - through "remote participation"

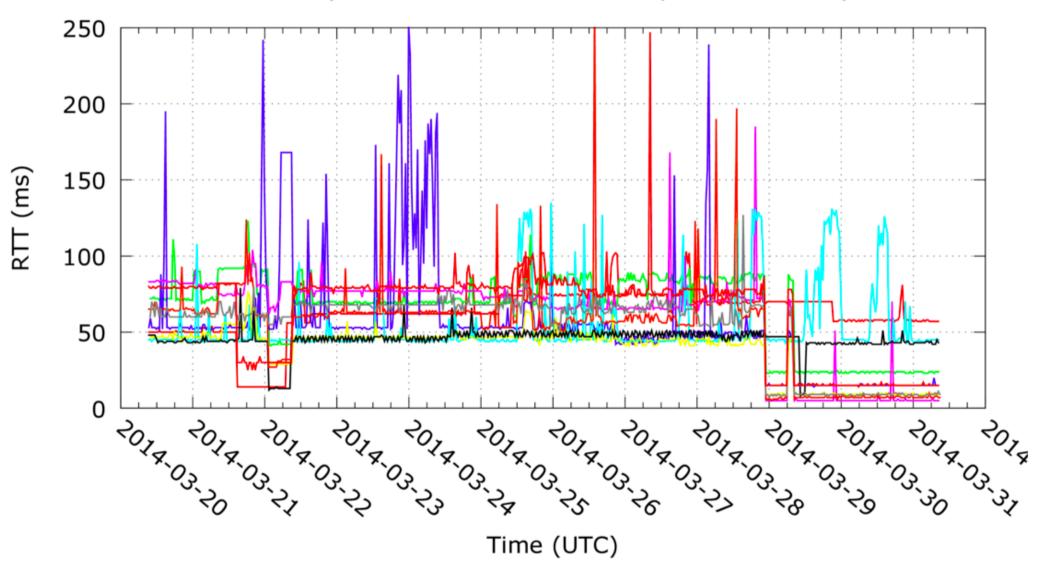
- Read and / or subscribe
 - https://www.ripe.net/participate/ ripe/wg

Address Policy Working Group
Anti-Abuse Working Group
Connect Working Group
Cooperation Working Group
Database Working Group
DNS Working Group
Internet of Things Working Group
IPv6 Working Group
MAT Working Group
Open Source Working Group
RIPE NCC Services Working Group
Routing Working Group

RIPE Atlas



Latency to 8.8.8.8 from RIPE Atlas probes in Turkey





Ethics, <u>Human Rights Considerations</u> & <u>atlas.ripe.net</u>

- Right to security (safety)
- Right to political participation

- Right to non-discrimination
- Right to freedom of expression

Right to education

IETF: RFC8280

- Personal data not revealed
- No passive measurements
- No HTTP measurements

- "Gratis" devices & SW probes
- Consenting volunteers
- Existence of "non-public" measurements
- Data, API, source code, tools: free and open

RIRS (REGIONAL INTERNET REGISTRIES) LACNIC CLATIN AMERICA + CARIBBEAN) ARIN (NORTH AMERICA) APNIC (ASIA-PACIFIC, AUSTRALIA)

ASSIGNMENT OF NAMES & NUMBERS)

AFRINIC (AFRICA) RIPE LEUROPE, CENTRAL ASIA, MIDDLE GAST)

CNATIONAL TELECOMMUNICATIONS

INFORMATION ADMINISTRATION)

TP ADDRESS BLOCK ALLOCATION PROTOCOL PARAMETERS

ISOC (THE INTERNET SOCETY)

IETF CINTERNET ENGINEERING TACK SORCE

(INTERNET ASSIGNED NUMBERS AUTHORITY)

DNS ROOT ZONE

OPERATORS. VERISION (2) ISI (USC) NETNOD COGENTOOMNS

ROOT SERVER

RIPE U OF MARYLAND I CANN

WIDE PROJECT

NASA AMES INTERNET SYSTEMS CONSCIENTUM US DOD NIC ARMY RESEARCH LAB

VERISIGN FORMERLY NETWORK SOLUTIONS)

Ingrid Burrington

vho-controls-the-internet-ted-cruzs-fahlasy-vs-the-re-1793861

IETF / IAB; IPPR and Data Commons

- Internet Engineering Task Force
- Internet Architecture Board
- RFC8890: "The Internet is For End Users"
- "The Internet is for Empowerment of End Users"

- Institute for Public Policy Research: "Creating Digital Commons"
- "Governing Internet Infrastructure as Commons"

Data Feminism

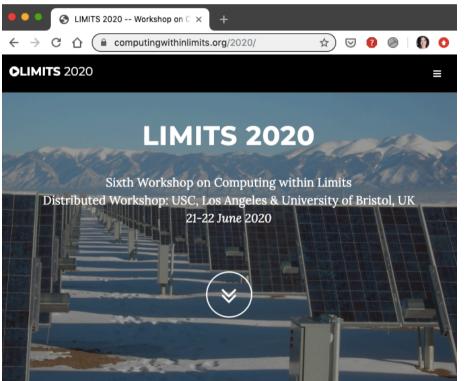
Table 2.1: From data ethics to data justice				
Concepts That Secure Power	Concepts That Challenge Power			
Because they locate the source of the problem in individuals or technical systems	Because they acknowledge structural power differentials and work toward dismantling			
Ethics	Justice			
Bias	Oppression			
Fairness	Equity			
Accountability	Co-liberation			
Transparency	Reflexivity			
Understanding algorithms	Understanding history, culture, and context			

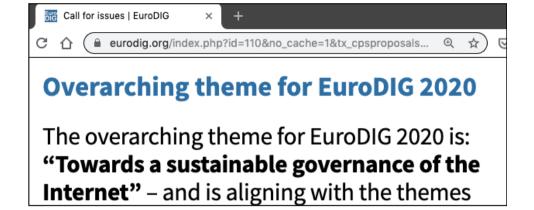
https://data-feminism.mitpress.mit.edu/

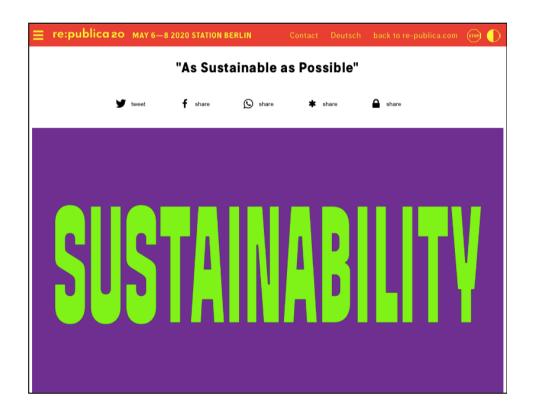
2017: (ACM) SIGPLAN & Climate

- "Engaging with Climate Change: Possible Steps for (ACM) SIGPLAN"
 - Association for Computing Machinery
 - Special Interest Group on Programming Languages
- "a clear responsibility to understand and explore ways of reducing the costs of its conference-focused approach to promoting exchange of ideas"
- https://www.sigplan.org/Resources/Climate/







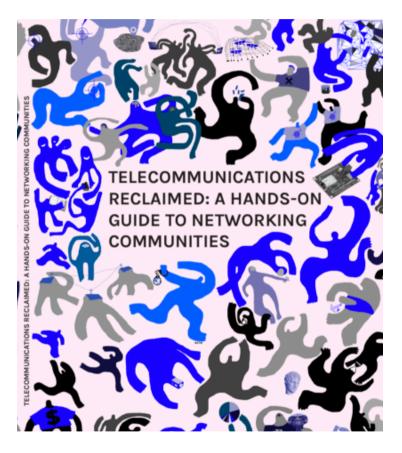


IGF 2020 Sustainable Internet Governance & IRPC



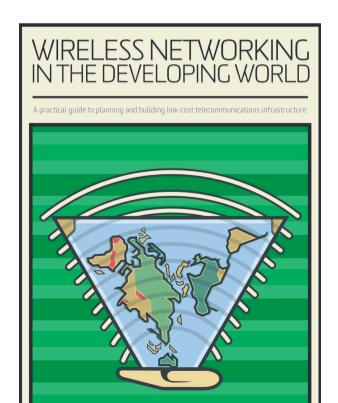
Article 4 c++ "Usage of the Internet for the protection of the environment MUST BE balanced with protecting the environment *from* the **growth of the Internet**".

Alternative Networks/Mesh/Commons



- (GAIA) Global Access to the Internet for All
- RFC7962: alt.net
- https://wiki.techinc.nl/MeshNet

- Free books:
 - <- <u>Book</u>
 - <u>Book</u> ->



Hacking (and) Internet Governance (and) Feminism

https://labs.ripe.net/hackathons



AUTOMATE ALL THE THINGS



RIPE Atlas Probes at hackerspaces



The Internet as socio-technical system...

i... is technically designed and mediated by a relatively homogeneous group (technical, highly educated, male, Caucasian, from economically developed countries), where design decisions likely embody the ethic (and biases) of these groups."

"Philosophy Meets Internet Engineering: Ethics in Networked Systems Research" http://dx.doi.org/10.2139/ssrn.2666934

2. How to get more women in tech?

- 1. Be explicit and inviting
- 2. Role Models
- 3. Talk about this issue
- 4. Create spaces for women
- 5. More women in tech → more women in tech!

"When you're accustomed to privilege, equality feels like oppression"

Female Conference Speaker					
В		N	G	0	
Women just aren't interested in this field	There aren't enough qualified female speakers	We need big- name speakers, and few of those are women	It's a male- dominated field	There aren't a lot of women in C-level positions	
Both women we called were booked that weekend	Both women we booked bailed at the last minute	All the women were probably busy	Female speakers are always burnt out from speaking so much	Trying to get more female speakers is sexist	
The organizers just wanted to get the best speakers they could find	You can't kick out a male speaker just to fit a woman in there	FREE	You can't shoehorn in a woman where she doesn't fit	Women never volunteer to present	
You have to be bold; people aren't just going to invite you to present	Women are shy	Women only ever want to talk about woman-stuff	Women need to act more like men	No one has complained about this before	
Attendees want to hear from people like themselves	Well, there aren't that many female attendees, either	We're only responding to demand	Fine, YOU tell me who they should have invited	Who? I've never heard of her.	



Hacker Ethic Questions

- Access to computers should be unlimited and total. Who gets to use what I make? Who am I leaving out? How does what I make facilitate or hinder access?
- All information should be free. What data am I using? Whose labor produced it and what biases and assumptions are built into it? Why choose this particular phenomenon for digitization/transcription? What do the data leave out?
- Mistrust authority promote decentralization. What systems of authority am I enacting through what I make? What systems of support do I rely on? How does what I make support other people?
- Hackers should be judged by their hacking, not bogus criteria such as degrees, age, race or position. What kind of community am I assuming? What community do I invite through what I make? How are my own personal values reflected in what I make?

Allison Parrish: "Programming is Forgetting: Toward a New Hacker Ethic" (2016)

http://linnytu.com/hacker

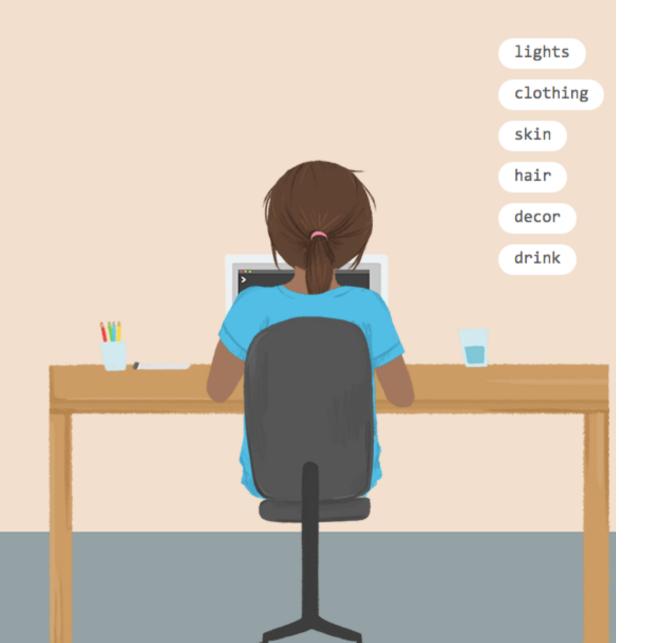
C ☆ ① linnytu.com/hacker

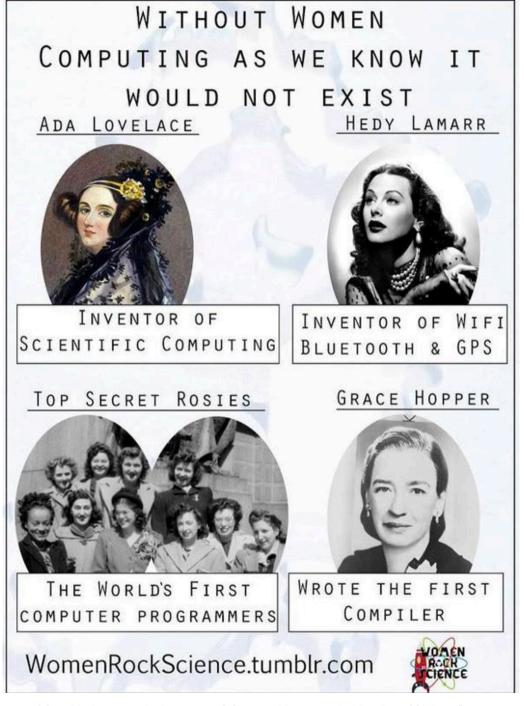
this is what a hacker looks like.

or is it?

the image of the white, male hacker in a hoodie is harmful and exclusive to people who don't fit that mold.

what if you could change that image?



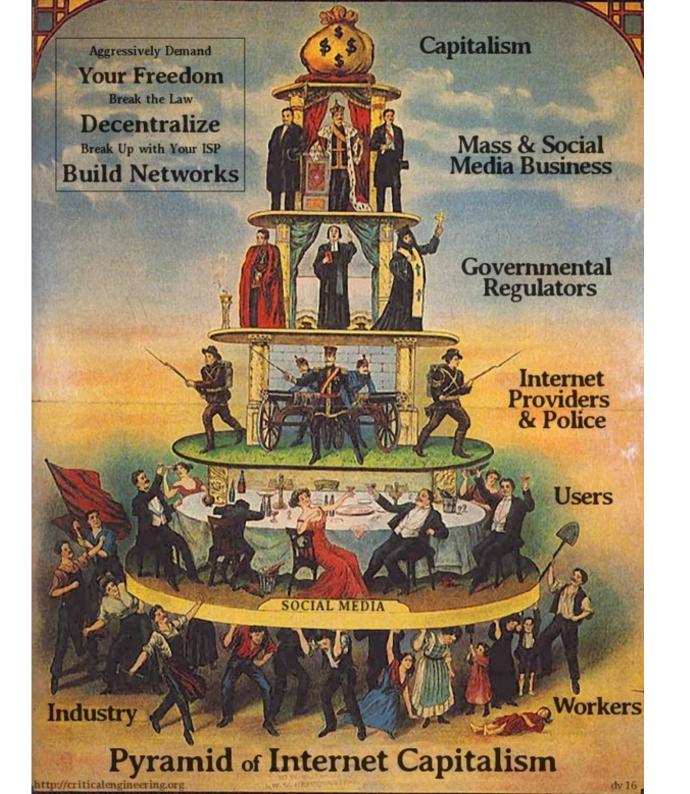


https://wiki.techinc.nl/Ladies Night#Role models

Hacking Feminism!

Response to sexual violence and community *** accountability Networking (protocols, packet distribution) == De-learn norms Internet Governance Break stuff Amygdala hacks Command line skills Securing linux Poster making & spreading Cryptography -----Shoplifting Caming the system Learn new tricks TransHackFeminist! Convergence Open events for ally education Anticop https://wiki.laglab.org/Hacking Feminism ••••

Beyond Techno-Optimism







A NATURAL PAIRING A data center in Ashburn, Va., seen past a Dominion Virginia Power substation serving it. Worldwide, such centers use the rough equivalent of the output of 30 nuclear power plants.

Brendan Smialowski for The New York Times





COURS IS NO OR E



Technical is Political

 "Technological ideas and technological things are not politically neutral: routinely, they have strong, built-in tendencies." [r]

- "The machines, structures, and systems of modern material culture are (should be) judged for their:
 - contributions of efficiency and productivity,
 - positive and negative environmental side effects,
 - the ways in which they can embody specific forms of power and authority." [art]

Programming is Political

- Language is political
- Artefacts are political [art]
- Transcription / translation is political [p]
- Crypto is political [r]
- Code Is Politics [how]

"The Personal is Political" [feminism]



With Great Power

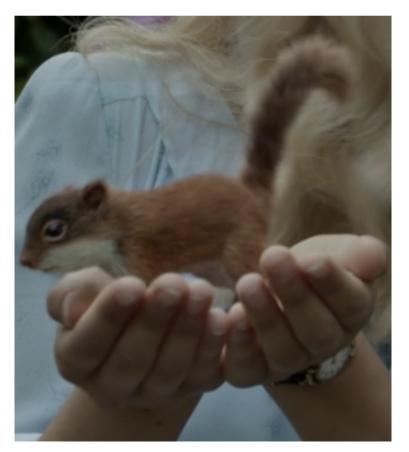
Comes

Great Responsibility

With great power...

At a time when science plays such a powerful role in the life of society, when the destiny of the whole of mankind may hinge on the results of scientific research, it is incumbent on all scientists to be fully conscious of that role, and conduct themselves accordingly. I appeal to my fellow scientists to remember their responsibility to humanity.²¹⁰

- ... great responsibility
- to humanity...
- to the planet...
- and to squirrels!



Squirrels Winning the Cyber-War ;-)

TOTAL SUCCESSFUL CYBER WAR OPS AS OF 2017.01.08 - 1748

Agent	Success
Squirrel	879
Bird	434
Snake	83
Raccoon	72
Rat	36
Marten	22
China	0
Russia	0*
USA	1



https://wiki.techinc.nl/index.php/Hackers_tribes#Squirrels_against_technology

Jellyfish Attack Nuclear Power-Station

Reality: https://www.theguardian.com/world/2013/oct/01/jellyfish-clog-swedish-nuclear-reactor-shutdown

 Fiction: http://en.wikipedia.org/wiki/ The_Swarm_(novel)

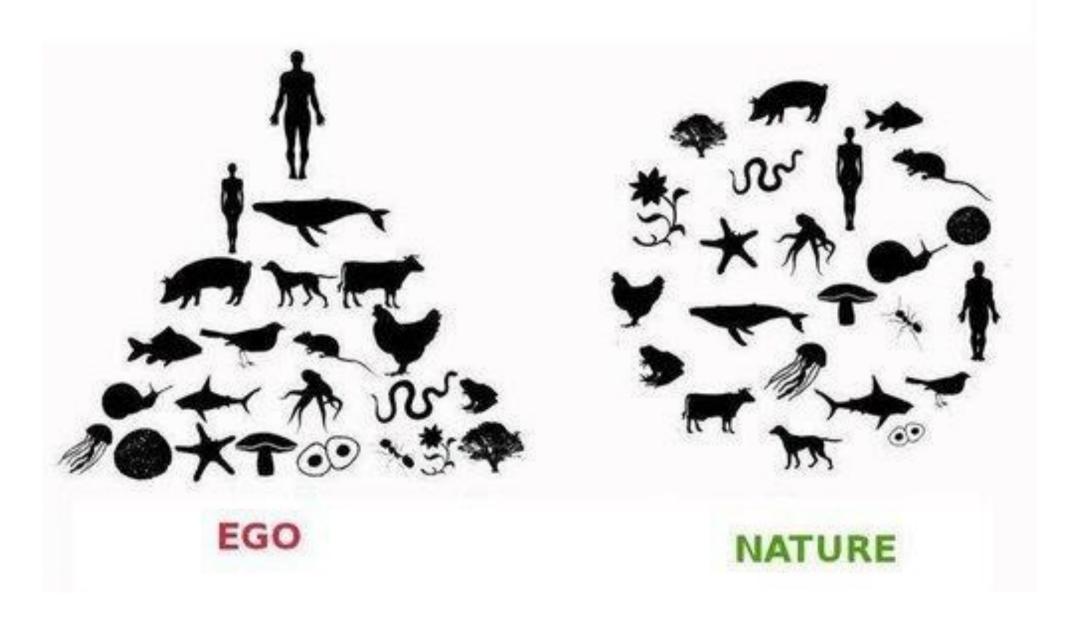
OCTOPI WALL STREET



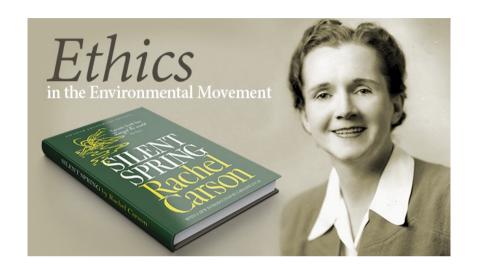
Invertebrates are 97% of animal diversity!

Brought to you by Oregon Institute of Marine Biology, University of Oregon

Right place and the right role in the symphony of life



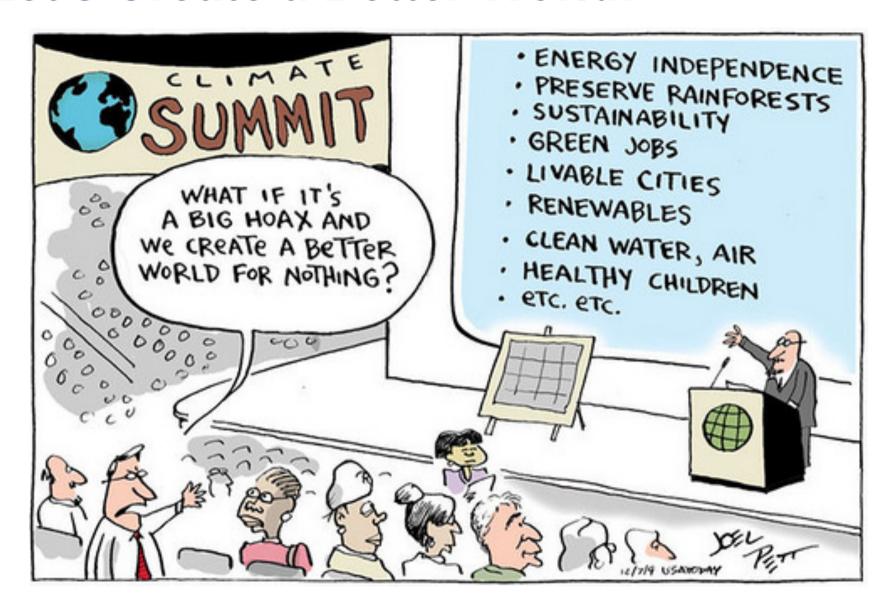
Mature cultures have found balance with Nature







Let's Create a Better World!





Further Reading

Vesna's Writings

- https://labs.ripe.net/Members/becha
- https://lists.puscii.nl/wws/arc/uncivilization/2019-09/msg00000.html
- https://18.re-publica.com/en/session/governing-internet-infrastructurecommons
- https://fosdem.org/2017/interviews/vesna-manojlovic/
- https://becha.home.xs4all.nl/hackerspaces-patriarchy-equality.html
- https://wiki.techinc.nl/index.php/File:Nature-speaking-onfuture_of_the_internet-RIPE69.pdf
- http://guymcpherson.com/2013/12/hackers-ethic-for-the-world-after-collapse/
- http://becha.home.xs4all.nl/hackers-philosophers-utopian-network-dec-2012becha.pdf

Cyber Safety Links

- https://wiki.techinc.nl/
 Hackers tribes#Digital Safety
- https://wiki.techinc.nl/
 Ladies Night#Improving privacy and security

- Feminist Principles: e-learning
 - https://en.ftx.apc.org/books/feminist-principles-of-the-internet

Referenced in These Slides

- [r] Phillip Rogaway: <u>"The Moral Character of Cryptographic Work"</u> (2015)
- [ensr] <u>"Philosophy meets Internet Engineering:</u> Ethics in Networked Systems Research"
- [art] <u>Langdon Winner: "Do Artefacts Have</u> <u>Politics?"</u> (1980)
- [p] Allison Parrish: "Programming is Forgetting: Toward a New Hacker Ethic" (2016)
- [u] Ursula K. Le Guin: <u>"A Non-Euclidean View of California as a Cold Place to Be"</u> (1989)

More references

- [w] http://networkedsystemsethics.net/
- Philosophy of Hacking, by Groente
- <u>Digital Tailspin: Ten Rules for the Internet After Snowden</u>
- Tor, Technocracy, Democracy
- [how] Software Freedom your Way
- "To Our Friends", by The Invisible Committee https://mitpress.mit.edu/books/our-friends
- "I Hate the Internet" http://weheardyoulikebooks.com/releases/i-hate-the-internet/
- Geoff Huston: "The Internet's Gilded Age" http://www.potaroo.net/ispcol/2017-03/gilding.html
- The Fifth Sacred Thing is a 1993 post-apocalyptic novel by Starhawk.: https://en.wikipedia.org/ wiki/The_Fifth_Sacred_Thing
- "IT industry is a dictatorship" Heather Marsh': https://georgiebc.wordpress.com/2014/10/03/worldwar-iii-stateless-ponzi-schemes-of-power/
- "The Retro Future: Looking to the Past to Reinvent the Future" by John Michael Greer <u>https://www.newsociety.com/Books/R/The-Retro-Future</u>

projects for photographers: document...

- tech-conferences / cyber-security events
- ... hackerspaces
- ... remote-working
- IoT devices / networking equipment / alternative networks / data-centers
- OTHER women-in-technology groups, events, projects... such as: https://wiki.techinc.nl/
 Ladies_Night#Events & https://wiki.techinc.nl/
 Female_experts

Take part in RIPE/NCC Communities

- Join RIPE meetings
 - RACI programme
 - RIPE Fellowship https://www.ripe.net/participate/ripe/ ripe-fellowship
 - Diversity Task Force https://www.ripe.net/participate/ ripe/tf/ripe-diversity-task-force
- Join other events organised by RIPE NCC
 - Regional meetings / Training courses & on-line education / Hackathons
- Write for RIPE Labs: https://labs.ripe.net