

cyberscape: an open source zine
an open source zine
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Cyberscape is a zine and digital art project. The pages of the zine include art, information and online journeys to educate and delight the common citizen as much as an open source developer. There's a lot of good fun, heart, and a little something to learn along the way.

This zine isn't sponsored by any corporation, institution or entity. It's made by a community of developers who care about the spirit of open source. We want people to know how they can get involved, share their perspectives and raise their voices to create a more inclusive internet for everyone.

Every **bold text in a box** in this zine takes you to a link with more information on the topic. For the digital experience of this zine, use the QR code on this page.



Scan me

WELCOME TO CYBERSCAPE!



Image at Top: Creative visualisation comparing the vulnerability response between Log4Shell and a less popular open source library from the Impact of Media on Cybersecurity: Using Art to Visualize Software Supply Chain Security Trends and Increase Awareness of Popular Library Vulnerabilities.

What is Open Source Software, you ask?

It's software that anyone can use, modify, and share because the source code is freely available to the public.

Open source software started to provide a collaborative and transparent approach to software development. It is important today because it allows for greater collaboration.

Great open source is always about transparency, sometimes about security, and acts as a legal and philosophical framework to make technology accessible to all people.

When we say all people, we mean it. You don't have to be a hoodie wearing hacker to change the way the internet works. You don't have to have a job as a software engineer to care about coding. You need the resources, knowledge and context to know how you can make a difference.

These pages are here to help you get started.

let perMy life in open source is an accident of passion. 15 years ago, I took an interim/ short term role for 3 months with Canonical, which was the cool kid on the block in open source software, and the commercial sponsor of the ubuntu operating system. Not only did I stay 5 years - which with the intensity of the work was like dog years - but I also fell passionately in love with the values, and ethos of open source software. Something that as a commercial lawyer with 15 years experience across companies, whose day job was leading and managing legal teams and all legal issues faced by a business, was entirely unexpected.

function
Not only did I love the opportunity to work as a lawyer trying to work out cutting edge and new issues which open source by its very nature created, but also I worked with a group of people who for the first time in my life made me feel like I belong. The community has always been diverse even if that is not immediately visible or apparent. I belong in that neurodiversity community as it turns out - which I certainly didn't know then. But what really made me feel like I belonged was the fact that I was surrounded by very bright people whose intellect challenged me but who were the most generous people I had ever met. Generous of their time, their knowledge and deep expertise. Generous to me and to the entire world, building something collaboratively to collectively create the most bleeding edge innovation there is. Frankly... how could a girl resist.

And the world has not been able to resist. Open source as a methodology is now the dominant force in coding and we have seen a global scale of adoption that I could not have imagined, when explaining opensource to reluctant legal and finance teams 15 years ago. Today engineers bring code into their companies from GitHub, Gitlab and the like without any negotiation or legal interaction. It permeates them. But that scale and pace of adoption has meant some of the necessary discipline to do open source well has been missed. We live in a world where a great deal of education on curation by end users taking code into commercial and regulated environments is needed. We need to teach the good technical hygiene and governance to business users and for those in regulated sectors to exercise discernment in their usage.

We also need to reward those brilliant developers I fell so in love with. To ensure that they are nourished and supported in their pursuit of innovation. We all have a moral obligation to give back for that which we so freely take.

I can't code, but I don't need to. The "community" the multiverse of communities working on code projects needs an array of skill sets. My legal skills were useful, but my ability to make connections and bring people together, to see opportunities to help others understand this open source world and act as a translator and a communicator between open source and policy and law makers, that is a valuable skill which is recognised by the devs and engineers, so I have a place in the community.

It means that I constantly work to keep up, to understand the new technologies and dev practices around me, to understand how these might fit into the world of laws and policies, where we can support by educating and building skills and bringing together the community around me. I have never done anything more rewarding than the role I have played in open source.

```

let percents; // percentages not vuln

let r = 20; // set red value
let g = 5; // set green value
let b = 30; // set blue value
let y = 10; // start at the top

function draw() {
    // clear the screen
    // set background color
    // print percentage
    // draw progress bar
    // set stroke width
    // draw text
    // set text color
    // print text
    if (percent < 100) {
        let text = `Progress: ${percent}%`;
        fill(r, g, b);
        textFont('monospace');
        textSize(20);
        text(text, 10, 100);
    }
}

function setup() {
    createCanvas(1000, 100);
    background('white');
    percents = 0;
    draw();
}

for (let i = 0; i < 100; i++) {
    let percent = i / 100 * 100;
    percents += percent;
    draw();
}

// draw progress bar
// set stroke width
// draw text
// set text color
// print text

```

One useful way to think about open source languages is to use Dungeons and Dragons. It's important to consider the language syntax (things like the lovely, hard-typed Haskell or the memory-safe Rust make them interesting contenders when choosing a language to solve a hard problem).

Learning to code in any language will help you to think in the syntactical logic of that language, but there's a lot more to choosing a language than that. Open source doesn't work in a vacuum, and there are communities of developers for every language. Considering developer community reputations when analysing their usefulness is essential. Python isn't always the most efficient, but it's almost always the best community to ask for help.

When choosing a language, consider not just the language itself, but the kinds of communities that you'll get into from learning it. By doing so, you can gain a better understanding of which language might be the best fit for your project and your personality.

Dungeons and Dragons alignment chats generated by ChatGPT

Semantic Properties Alignment Chart

		Community Reputation Alignment Chart		
		Lawful	Neutral	Chaotic
Alignment	Good	Haskell	Rust	Python
	Neutral	Java	Ruby	JavaScript
Evil	C++	Assembly	PHP	C++
		Perl	Assembly	

		Semantic Properties Alignment Chart			
		Lawful	Neutral	Chaotic	Evil
Alignment	Good	Rust	Haskell	Python	C++
	Neutral	Java	Ruby	JavaScript	Perl
Evil		Assembly			

Want to get started with Open Source
Languages?

If you're looking to get started with open source, Major League Hacking events are open to anyone, regardless of their level of experience, and they offer a platform for participants to showcase their projects to the wider community. They provide a supportive community that can help you get started with open source and connect you with like-minded individuals. WeMakeDevs is another resource that offers courses and workshops focused on open source development. By getting involved with these communities, you can learn new skills, make valuable connections, and contribute to the development of open source software. The Linux Foundation provides several free courses and certifications for advanced training, and is always looking to build more. Show up to the Linux Foundation Education SIG office hours and talk to them what you want to want them to teach next. They'll probably listen.

Want something different? Try checking out resources like womenofopensource.org This community is offered to both cis and trans women and non-binary and gender-nonconforming people who are comfortable in a space that centers women.



"THE CHASM THAT IS OPEN SOURCE IS AS DEEP AS IT IS WIDE. THERE ARE SO MANY ROLES AND WAYS TO BE A PART AND CONTRIBUTE. TO GET STARTED, AS ODD AS THIS SOUNDS, I WOULD FIRST SAY STRIP AWAY BEING TECHNICAL, STRIP AWAY BEING LOGICAL OR DISCIPLINED OR RIGID. THEN, KNOW BEYOND RHYME OR REASON THAT THERE IS SOMETHING BIGGER THAN YOU. KNOW THAT THE PATH TO THAT SOMETHING CAN ONLY BE ACHIEVED THROUGH PARTNERSHIP AND COLLABORATION, INCLUSIVITY, IMAGINATION, AND UTTER DISRUPTIVE CHAOS! AFTER THAT, TRUST IN COMMUNITY, READ EVERYTHING ABOUT THE PROJECT OR INTEREST YOU CAN GET YOUR HANDS ON, ROLL UP YOUR SLEEVES TO YOUR COMFORT, SIT BACK, AND ENJOY THE RIDE!"

JAY WHITE, MICROSOFT

Cyberscape Zine is for anyone who wants to make something beautiful out of their open source experience, and share it with the world. If you want to be part of the community curating, creating and celebrating this work, you can find us two ways:

This QR takes you to the contributor.md file for the Cyberscape Zine, where you can learn how to contribute directly.



If you just want to learn more or share any ideas, this QR a quick form to let us know when/how/if you'd like to be involved in the next zine!



FOR BETTER OR FOR WORSE, I GREW UP WITH OSX.

MY DAD WAS ABLE TO SCROUNGE UNLOVED LAPTOPS FROM THE WORK POOL FOR US KIDDOS. BUT WHEN I TURNED 18 I WAS GIVEN AN X120E WITH UBUNTU ON IT FROM MY UNCLE. USING IT WASN'T ALWAYS EASY, STUFF WOULD BREAK DURING UPDATES, OR I WOULD BREAK THINGS BY BLINDLY COPY-PASTING TERMINAL COMMANDS.

BUT OVER TIME I LEARNED. IT WAS A SLOW PROCESS, QUITE FRUSTRATING AT TIMES, BUT I CAN'T EXPRESS THE LEVEL OF SATISFACTION ONE GETS FROM REALLY OWNING A DEVICE.

IVE FOUND THE LEVEL OF CONTROL AND AUTHORITY IS REALLY IMPORTANT TO ME AS SOMEONE WHO IS NERODIVERGENT. I CAN MOULD THE MACHINE TO MY WILL, FINE TUNED TO MY NEEDS AND FREE FROM STUFF THAT WOULD DISRUPT MY WORKFLOW.

BUT THAT'S NOT THE BEST PART. THE BEST PART IS THAT NO MATTER WHAT HAPPENS TOMORROW, LIKE A METEOR SHOWER, GLOBAL FINANCIAL COLLAPSE OR CELEBRITY WARDROBE MALFUNCTION, IT'S NOT GOING ANYWHERE.

IT'S NOT BORROWED, OR BOUGHT OR STOLEN. IT'S YOURS NOW WITH FEW EXCEPTIONS. AND IN A WORLD DRIFTING INCREASINGLY FAR FROM INDIVIDUAL AUTONOMY, I'LL TAKE WHAT I CAN GET.

DAWN FOSTER, DIRECTOR OF OPEN SOURCE COMMUNITY STRATEGY, VMWARE

WORKING ON OPEN SOURCE PROJECTS HAS BEEN AN AMAZING PERSONAL EXPERIENCE AND CAREER BOOSTER FOR ME. I'VE MET AMAZING PEOPLE FROM AROUND THE WORLD WHO HAVE BECOME GOOD FRIENDS AND WHO HAVE HELPED ME LEARN NEW THINGS, AND FIND NEW JOBS WHEN I'M READY TO MOVE ON TO SOMETHING NEW.

THE BEST PART IS THAT ANYONE CAN PARTICIPATE. PROJECTS NEED DOCUMENTATION, HELP RUN EVENTS, BUILD COMMUNITY, AND MORE IN ADDITION TO CODE. YOU CAN USE OPEN SOURCE OR LEARN MORE ABOUT OPEN COMMUNITIES BY READING THE **GUIDEBOOK**. GOOD LUCK IN YOUR FUTURE OPEN SOURCE ADVENTURES!

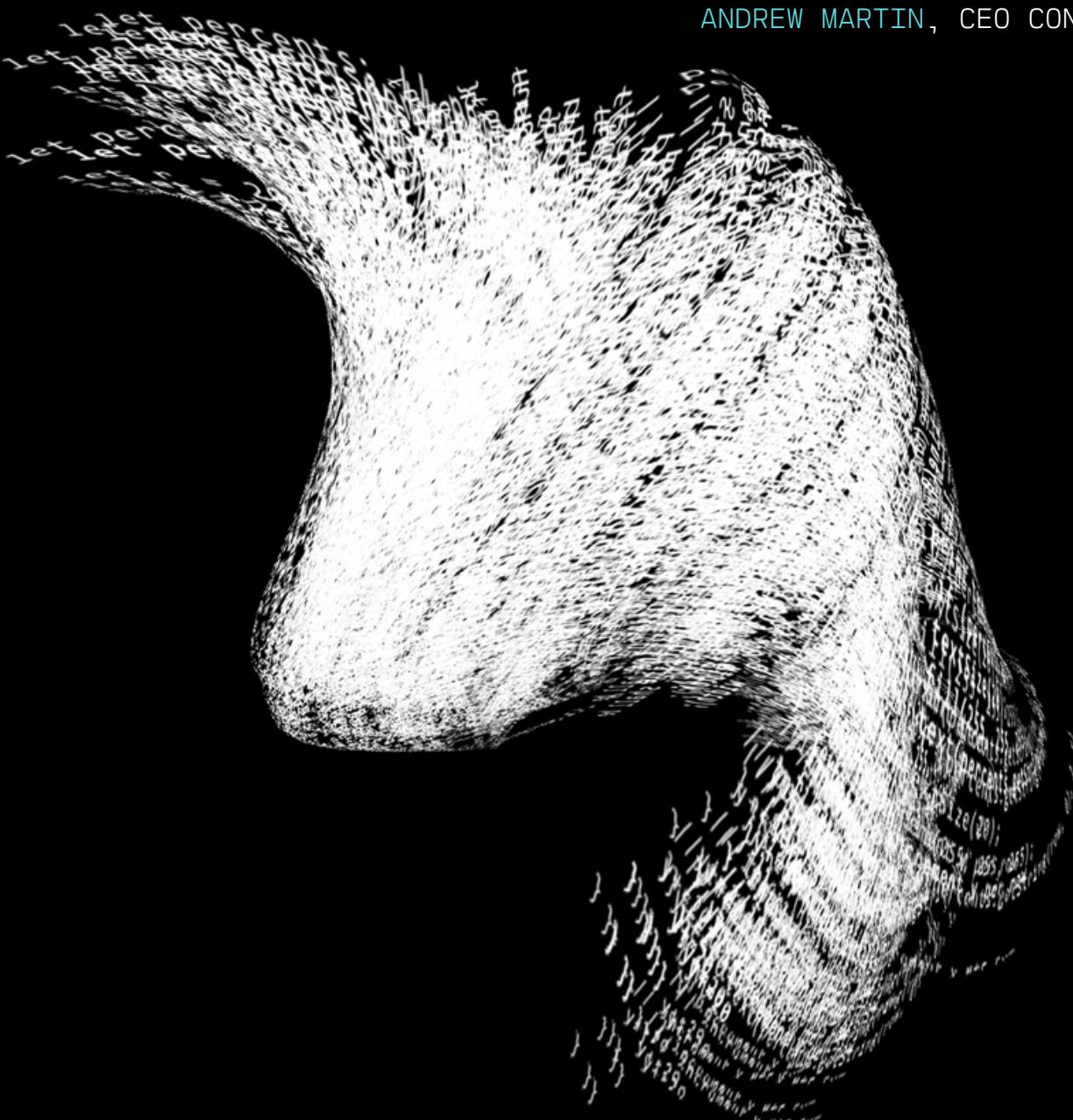
GET STARTED **THIS GUIDE TO** **OPEN SOURCE WAY**

OPEN SOURCE IS THE BEST WAY TO LEARN ABOUT HOW SOFTWARE IS BUILT. THIS OPENNESS EXTENDS FROM EACH LINE OF CODE THROUGH TO THE PUBLIC ISSUES AND ROADMAPS, AND IS DRIVEN BY THE WARMTH AND GENEROSITY OF THE HARD-WORKING COMMUNITY MEMBERS THAT MAINTAIN AND EXTEND EACH PROJECT IN PUBLIC, FOR ALL TO SEE, USE, AND GIVE BACK TO.

GET INVOLVED BY CHOOSING A PROJECT THAT INTERESTS YOU, READING ITS SOURCE AND DOCUMENTATION, AND EXPERIMENTING WITH IT. BUILD AND RUN THE PROJECT, TWEAK CODE TO UNDERSTAND HOW IT CHANGES BEHAVIOUR, AND BE CURIOUS IN EXPERIMENTATION.

TRY TO FIND A DEEPER UNDERSTANDING, AND WRITE DOWN YOUR QUESTIONS: THEY MAY HAVE BEEN ASKED BEFORE, SO YOU CAN SEARCH THE OPEN AND CLOSED ISSUES TO FIND ANSWERS BEFORE REACHING OUT TO THE MAINTAINERS ON A PUBLIC CHANNEL. BY KEEPING EVERYTHING IN THE OPEN, THE LEARNINGS OF EVERYBODY THAT CONTRIBUTES IS SHARED AND WE ALL GET BETTER, TOGETHER.

ANDREW MARTIN, CEO CONTROLPLANE



Hola. Soy Yesenia Yser. Throughout my career, I've held many hats, within internal hats. Reminds me of the "Caps for Sale" children's book. Cyber security is such an infant of a field. Each role and team I was part of allowed me to develop and implement what's never been done before within the security space. I've across multiple areas of security, such as Security Operations (blue team), Research and Software development, DevSecOps, Supply Chain Security, and now Vulnerability Research at scale. Each day is a new and exciting challenge working with such collaborative communities and subject matter experts.

Without a surprise, there are a number of benefits with working on open source for folks starting out in the field. The open source space is an inspirational, inclusive, and supportive environment that will help its volunteers flourish in the field of their dream with making a direct impact to a global community. Folks joining the field can leverage an open source project and their contributions to highlight their contributions and achievement through their digital portfolio and make themselves more competitive in the talent pool.

ALPHA OMEGA PROJECT HAS TWO MAIN APPROACHES. THE ALPHA IDENTIFIES VULNERABILITIES IN THE SOFTWARE SUPPLY CHAIN THROUGH THE USE OF SOFTWARE BILL OF MATERIALS (SBOMS). THE OMEGA APPROACH FOCUSES ON DEVELOPING BEST PRACTICES FOR SECURE SOFTWARE DEVELOPMENT AND INCORPORATING THESE PRACTICES INTO THE SOFTWARE DEVELOPMENT LIFECYCLE. YESENIA IS IN CHARGE OF THE OMEGA PART.

Resources:

- [Getting Started in Cybesecurity Series \[Cyeberjiujiteira\]](#)
- [Why You Need A Digital Portfolio \[Latinas in Cyber\]](#)
- [Digital Portfolio Strategy \[Latinas in Cyber\]](#)

In terms of legal, social, and political perspectives on open source software and licensing, Canada has a unique position as a signatory to the [United States-Mexico-Canada](#)

[Agreement \(USMCA\)](#) The USMCA includes provisions that promote the use of open source software by government agencies and encourage the adoption of open standards in technology procurement.

The Canadian Government website includes resources including [Guide for Using Open Source Software](#) that explains how to fairly and securely choose the right code, a handy list of their [Open Source Standards](#), and a general statement on [Open Source Software](#).

If you want to get into the details about Canada's approach to things like Software Supply Chain and SBOMs there is a great report called [Recommendations to Improve the Resilience of Canada's Digital Supply Chain](#).

The list to the left are updates of [all known critical cybersecurity breaches](#) in Canada before going to print.

April 25, 2023
Cyber attack on a association of municipalities in Canada
 Municipalité régionale de comté / MRC Le Domaine-du-Roy - Roberval, Québec

Das MRC du Domaine-du-Roy wird Opfer eines Computerangriffs
<https://ici.radio-canada.ca/nouvelle/197...>

April 23, 2023 ?
Cyber attack on a media and marketing company in Canada
 Yellow Pages Canada / Pages Jaunes Canada - Montreal, Québec

Yellow Pages Canada confirms cyber attack as Black Basta leaks data
<https://www.bleepingcomputer.com/news/se...>

April 16, 2023
Cyber attack on casinos in Canada
 Gateway Casinos - Ontario

Important update
<https://www.instagram.com/p/CrJ8wHVL4yr/>
Gateway Casinos to remain closed for 'coming days' after cyberattack
<https://www.thestar.com/news/gta/2023/04...>

April 13, 2023
DDoS attack on the website of a energy supply company in Canada
 Hydro-Quebec - Montreal, Québec

Pro-Russia hackers say they were behind Hydro-Quebec cyberattack
<https://montreal.ctvnews.ca/cyber-attack...>
Methods: DDoS attack

April 12, 2023
DDoS attack on the website of a port in Canada?
 Port de Montréal / Port of Montreal - Montreal, Québec

Cyberattack targets websites for port authorities in Halifax, Montreal
<https://www.cbc.ca/news/canada/nova-scot...>

April 12, 2023
DDoS attack on the website of a port in Canada
 Port de Québec / Port of Quebec - Québec, Québec

Cyberattack targets websites for port authorities in Halifax, Montreal
<https://www.cbc.ca/news/canada/nova-scot...>

April 12, 2023
DDoS attack on the website of a port in Canada
 Port of Halifax - Halifax, Nova Scotia

Cyberattack targets websites for port authorities in Halifax, Montreal
<https://www.cbc.ca/news/canada/nova-scot...>

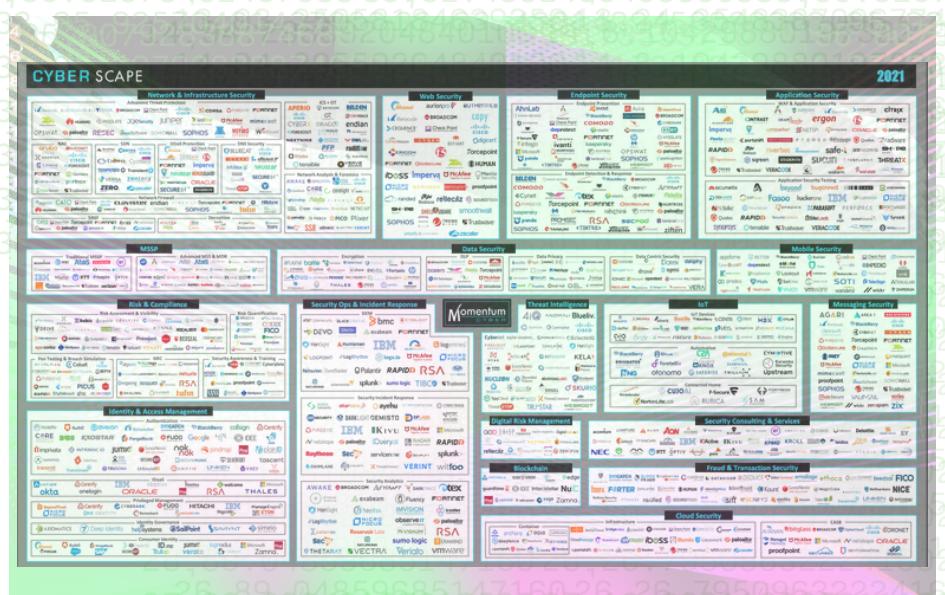
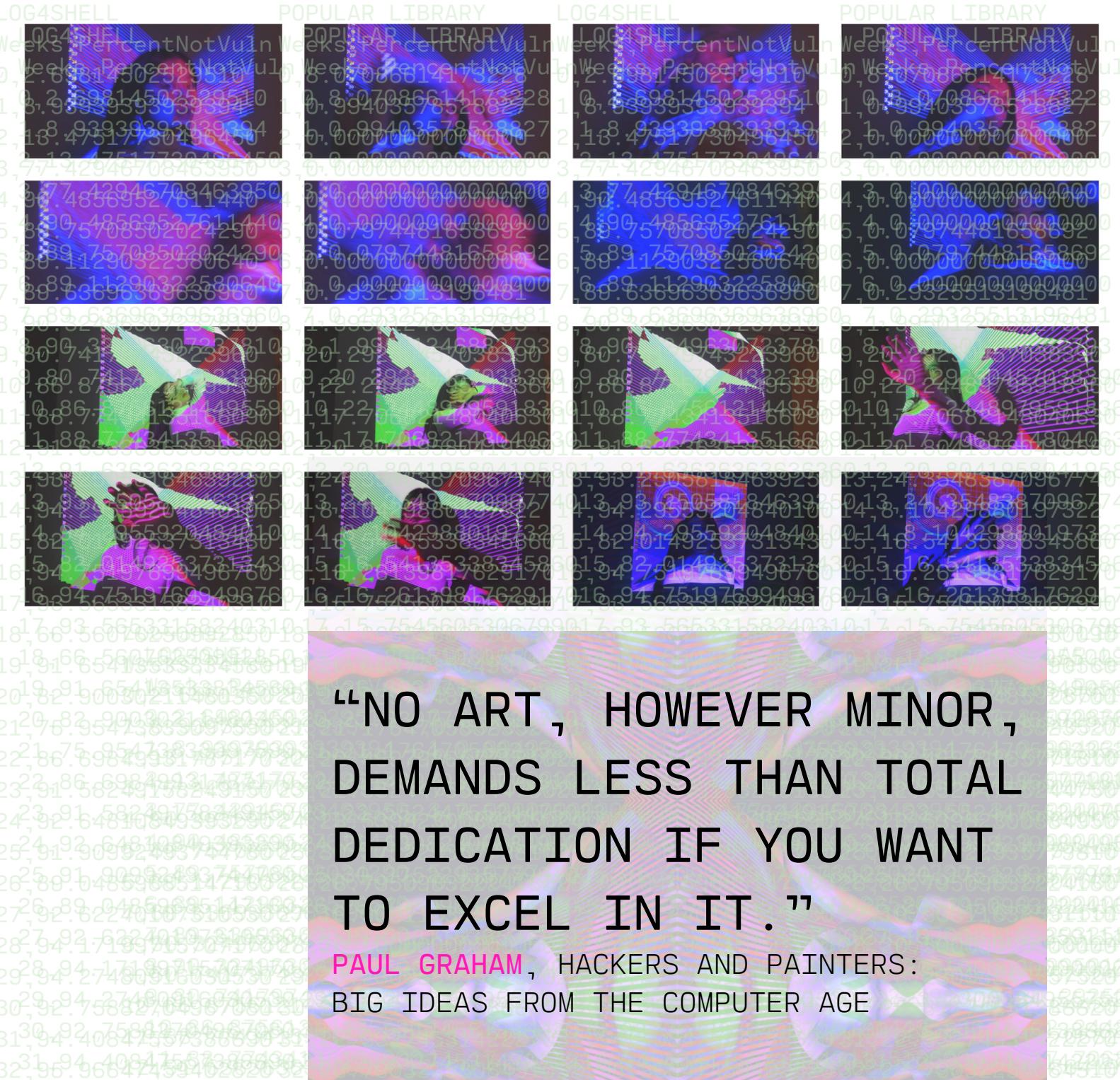
April 12, 2023
DDoS attack on the website of a city government in Canada
 Ville d'Alma - Alma, Québec

Les sites de Ville d'Alma paralysés par une cyberattaque contre le serveur
<https://www.lequotidien.com/2023/04/13/l...>

April 12, 2023
DDoS attack on the website of a bank in Canada
 Banque Laurentienne - Montreal, Québec

Des pirates prorusses visent le Port de Québec et la Banque Laurentienne
<https://www.ledevoir.com/societe/788820/...>

April 11, 2023
Cyber attack on a hospital in Canada
 Cornwall Community Hospital (CCH) - Cornwall, Ontario



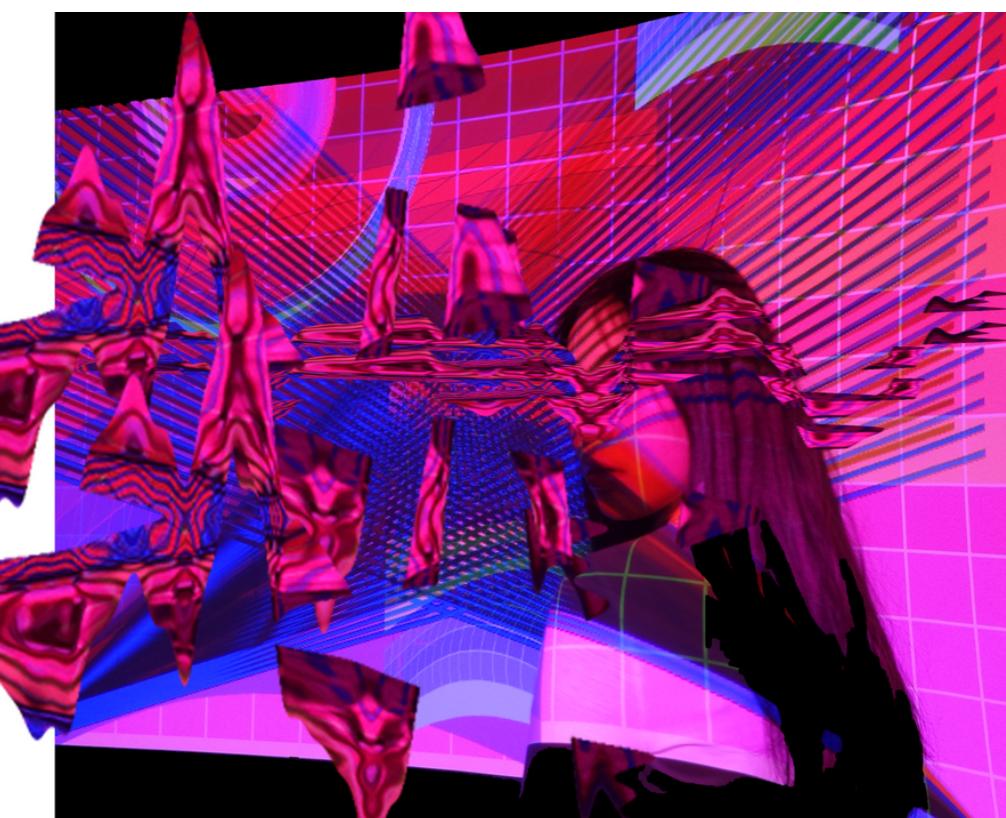
THIS ZINE'S NAME
TAKES INSPIRATION
FROM CYBERSPACE:
CYBERSECURITY MAP
FROM MOMENTUM
CYBER, SEEN LEFT.

Note from the Artist

This zine is an extension and further exploration of the original project: [CYBERSCAPE: The Landscape of Open Source Software Security](#), and sparked by Open Source Summit North America 2023 happening in Vancouver, BC. I have always been fascinated by zine culture and the collective power of community and art. Together with the OSS community, the medium of a zine was used to inform viewers about open source security, create a network of ideas, and drive action in a way that is accessible to all. This collective work urges artists, technologists, and all readers to engage in open source. Artistic practices in technology and cybersecurity are vital to create a future that is informed, inclusive, and secure.

Cyberscape originally started as a standalone creative coding and data visualization project. Trend data was scraped from popular libraries' vulnerabilities over time, tracking the connection between media popularity and response speed, which was used in a p5js visualization to generate graphics using code. The visualizations and code are the art that you see in this zine, inviting viewers to critically think about how media impacts the future of technology. The data speaks for itself: cybersecurity relies on mainstream visibility and public attention. The entire project can be viewed on my Github; scan the QR code to be taken there.

- Anova Hou, Artist



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DIGITAL EXPERIENCE OF



CYBERSCAPE: THE OPEN SOURCE ZINE

BY JONATHAN LEE

CYBERSCAPE IS A ZINE AND DIGITAL ART PROJECT. THE PAGES OF THE ZINE INCLUDE ART, INFORMATION AND ONLINE JOURNEYS TO DELIGHT THE COMMON CITIZEN AS MUCH AS AN OPEN SOURCE DEVELOPER. THERE'S A LOT OF GOOD FUN, HEART, AND A LITTLE SOMETHING TO LEARN ABOUT HOW YOU CAN CHANGE THE WORLD FOR THE BETTER, WITH OPEN SOURCE.