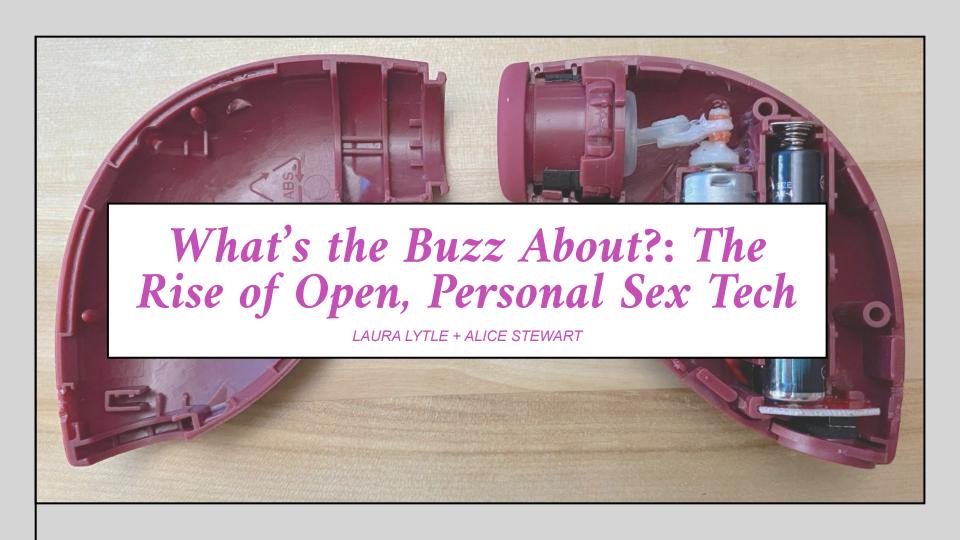
CONTENT WARNING & CoC

- + We WILL facilitate discussion and imagination around sex; we WON'T be covering sexualised imagery.
- + We want to ensure everyone feels comfortable and included in this shared environment. Before we start, this moment is an opportunity to check in yourself or your guardian before we continue and make a call about how or whether you would like to experience our presentation.
- + This talk is going to be archived, so you will be able to view it at a later time if you so wish.

- + Be Considerate
- + Be Respectful
- + Embrace Curiosity.
- + Be mindful of the needs and boundaries of others.
- + Acknowledge the difference between intent and impact.
- + Make no assumptions.
- Use all-gender inclusive language.
- + Confront harassment and reduce harm.
- + Embrace your mistakes, then, move forward.



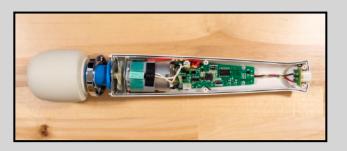
LAURA LYTLE

- The Los-Angeles based EE
- Former drone wrangler at USC & NASA's Jet Propulsion Laboratory
- Sex tech design blogger
- Enticingly hireable... ●

- + Website: Laura.dev
- Blog: InsideSexToys.com







ALICE STEWART

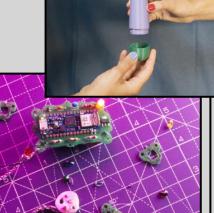
- + Amsterdam / London-based
- + Founder of Touchy-Feely Tech
- Creative technologist & lecturer (Royal College of Art, University of the Arts, School of Machines)







+ @touchyfeelytech



AGENDA

- + Hi!
- + State of the Industry
- + What Matters?
- + Spotlighting the Open Source Sex Tech Scene
- + Where Open Source can help
- + The Future...

WARM UP

- + When you think of DIY sex tech, what comes to mind?
 - + Is it messy?
 - + Is it sexy?
 - + Is it safe?
 - + Can you discuss it with a friend?
 - + Who is it for?



STATE OF THE INDUSTRY

+ What the press thinks

Hackers could access smart sex toys and burn users by 'weaponising' devices

BUZZING! Sex-mad geeks create 'robo vibrator' that learns how to give 'perfect orgasm'

MOTHERBOARD

This Animal Crossing-Enabled Buttplug Will Let You Hook Up In-Game

TECH \ CYBERSECURITY

Internet-enabled male chastity cage can be remotely locked by hackers

It's the intended use case, just not the intended user

By James Vincent | Oct 6, 2020, 11:32am EDT

STATE OF THE INDUSTRY

+ Influence of Open Source on every scale

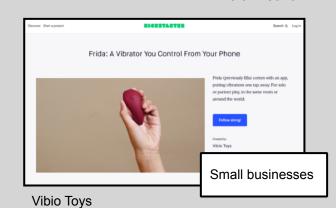


Crassroots communities

The Nogasm

Body Interaction BI2

Space Buck's Double-Oh



... and some things that have been around forever

WHAT MATTERS?

- + Having fun! Engaging with the making process opens up a healthy space for exploration.
- + Innovating freely in an industry still rife with startups and corporate churn.
- + Serving the diversity of human identities, imaginations, or bodies out there.



Touchy-Feely Tech Workshop

@ The School of Machines, Berlin

- "...designing a vibrator is not just about designing the shape and functions of the object itself, but about designing a space for exploration, for sharing knowledge, for asking questions, and for demanding a respectful and open attitude to a diversity of sexual desires and experiences"
- Marie Louise Juul Søndergaard, Staying with the Trouble through Design: Critical-feminist Design of Intimate Technology (2018)

Our Values Matter.

An open source community that just saw the reinstatement of Richard Stallman to the FSF board must put its own house in order and actively reject the use of sexuality as a weapon before attempting to interface with it as a productive tool.

experiences leave a lasting mark

+ Stakeholders hail from vulnerable demographics, and bad

- "foster technological knowledge and encourage research that is accessible, collaborative and respects user freedom"
 - Open Source Hardware Association

SPOTLIGHT

- + qDot and buttplug.io: Open Source Sex Toy Control Software
 - + Entry point to Open Source Sex Tech community.
 - + "Sex toy control standard" to encourage inclusive approaches.
 - + Emancipation of Sex Workers & Cam Models.
 - + Critical research for DIY and mass-manufactured products alike.

 Buttplug Sex Toy Control Proje∈ X + ← → C m buttplug.io BUTTPLUG.IO Buttplug is an open-source standards and software project for controlling intimate hardware, including sex toys, fucking machines, and more. Want to know if your toy/hardware is supported? Check out https://iostindex.com Just want to know how to use apps with Buttplug? Skip the pitch and check out our Tutorial! Implemented in Rust, within bindings for C#, 15, and other languages. · Support for popular hardware brands, such as Lovense, Kliroo, WeVibe, The Handy and more. Full hardware support list available on IOSTIndex. · Support coming soon for brands like The Handy and Hismith Fucking Machines Used by manufacturers like Maus-Tec for the Edge-o-Matic Orgasm Denial System · Plugins for game engines like Unity and Twine. · Can support Bluetooth, USB, HID, and Serial controlled toys. ies available for Desktop, Mobile, and Web. rmissive License (BSD 3-Clause) '("message", this.ParseMessages); :tion();

"We want to help these communities build their own tools, they're the ones with the experience to take the tools and build what they need."

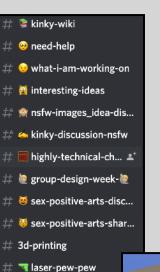
— Here's Why We Need More Open Source Software For Buttplugs (Vice)

SPOTLIGHT

- Kinky Makers Community
 - Working collaboratively on a number of DIY & Open Source Sex Tech projects.
 - + Open Source Sex Machine (OSSM)
 - + Deepthroat Trainer
 - + Active Discord and growing Wiki of ideas

"My goal from the beginning has been to provide a place where people can discuss and try new things. I know the one thing that helped me develop my talents was experimentation. I have always found local hackerspaces too restrictive, and often have a high barrier to entry."

— James from Kinky Makers



robotics

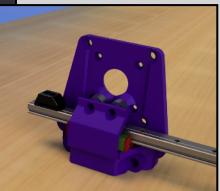
one-toys

selling-stores
hello-just-bot-things

t-emissions

reaking-news

ontroversial-topics



WHERE OPEN SOURCE CAN HELP

- + Accessibility
- + Security
- + Inside Sex Toys-- forcing closed-source wide open
- + Sex tech objects that people care about and feel connected to are sexier
- + Tech as a tool for destigmatizing and exploring sex

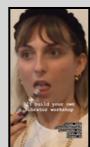


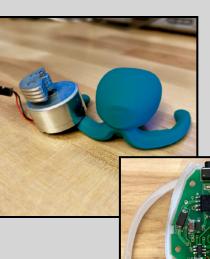


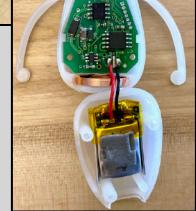












RETHINKING WHAT'S POSSIBLE

- + Framing the design process as fantasy or speculative helps to bring down barriers of what we expect from our tech.
- + Desire to be "more" for a partner, departure from genital stimulation, body augmentation and extension, tackling societal challenges.



























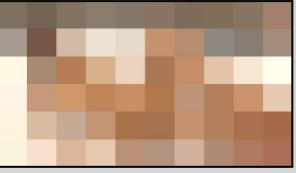


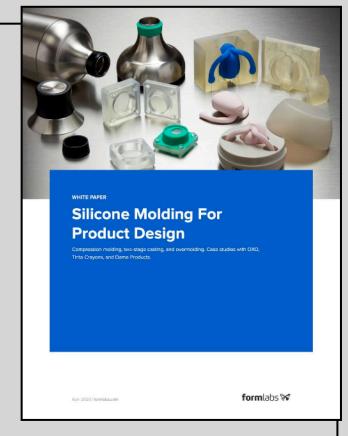




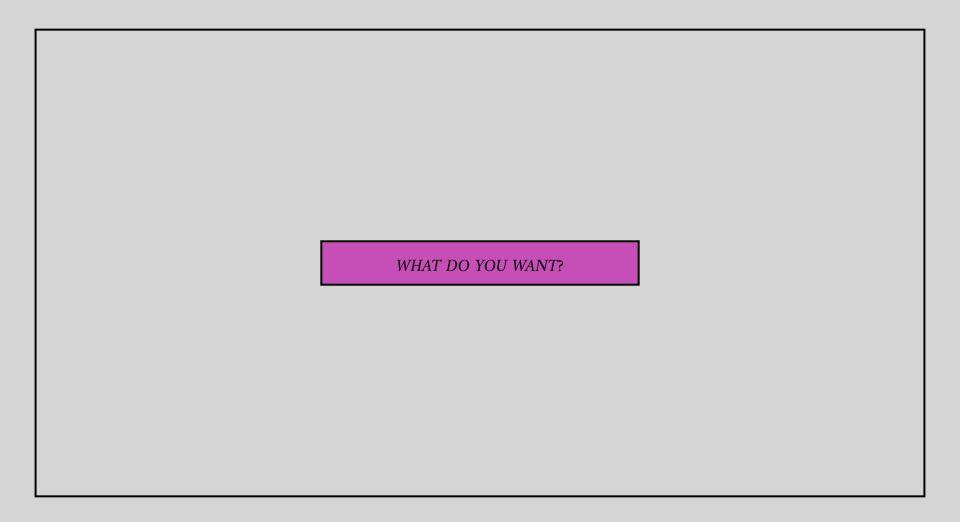
WHAT WE WANT

- Open source as table stakes for companies selling IoT hardware.
- + Acceptance of sex tech in tech & investment spaces
- + Open source community were ALL people feel safe enough to exist and make sex tech.
- + Mutual awareness between DIY and OSHW
- + Some really wild stuff we can neither imagine nor show;)





Formlabs White Paper: Dame Products



HOW YOU CAN GET INVOLVED

- + Touchy Feely Tech Hackathon!
 - + hack.touchyfeely.tech
- + Stomp some bugs for Buttplug.io!
 - + github.com/buttplugio
- + Join a Discord!
 - + Kinky Makers
 - + Touchy-Feely Tech https://discord.gg/Agt6dfjt
 - + ... and many more
- + Peruse a Subreddit!
 - + r/bdsmDIY (18+)

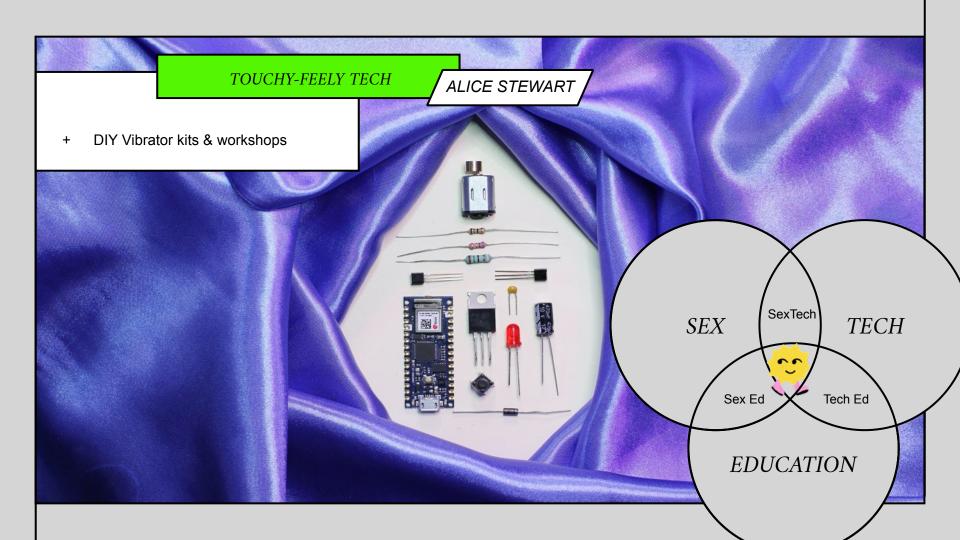






+ The following slides are random/from the old deck but keeping just in case :)



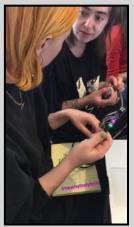


TOUCHY-FEELY TECH





TOUCHY-FEELY TECH















London, Amsterdam, Berlin, New York

TOUCHY-FEELY TECH (ONLINE)

- + Framing the design process as fantasy or speculative helps to bring down barriers of what we expect from our tech
- + Desire to be "more" for a partner, departure from genital stimulation, body augmentation and extension, tackling societal challenges































EVOLUTION OF SEX TECH

- Using Sex Tech as an example of intimate tech, however it's worth noting that Sex Tech is not the only type of intimate tech
- Design approaches evolve with reducing limitations of technology

Non-binary approaches

Hands-free and wearable body extensions

Remote controlled

















Vibration is the main type of stimulation









Handheld, phallic shapes











33,000 1880 1930

1940

1950

1970

1980

1990

2000 - present day

FACILITATING (BETTER) INTIMATE INTERACTIONS

- + Exploring what technology's role in human intimacy should or could be
- Using remoteness as an opportunity, not a hindrance



Aurélien Fache: Connecting a vibrator to the ISS API

DESIGNING "EROTIC AGENTS"

- + (Erobots are including but not limited to)... "erotic virtual or augmented entities, chatbots, robots, avatars, as well as their enabling interconnected, multi-layered, and multi-agent systems."
 - Simon Dubé & Dave Anctil, Foundations of Erobotics (2020)

Can critical design and maker practises, including customisation and collaborative design, offer a new perspective on what "makes" an erotic agent?

Human-like "designs"



Intangible / Pure UX



"One of the most powerful human capabilities relevant to designers is the intimate incorporation of an artifact into bodily practice to the point where people perceive that artifact as an extension of themselves; they act through it rather than on it"

— Scott R. Klemmer, Björn Hartmann, Leila Takayama, How Bodies Matter: Five Themes for Interaction Design (2006)

Today

Tomorrow

SPOTLIGHT

- + The Mod by Comingle.io
 - + Patents suck
 - + As with any open source product, you still need good UX





