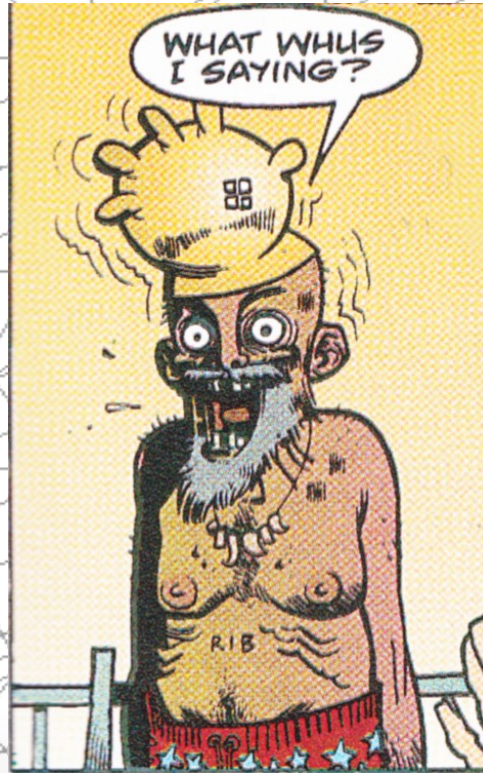


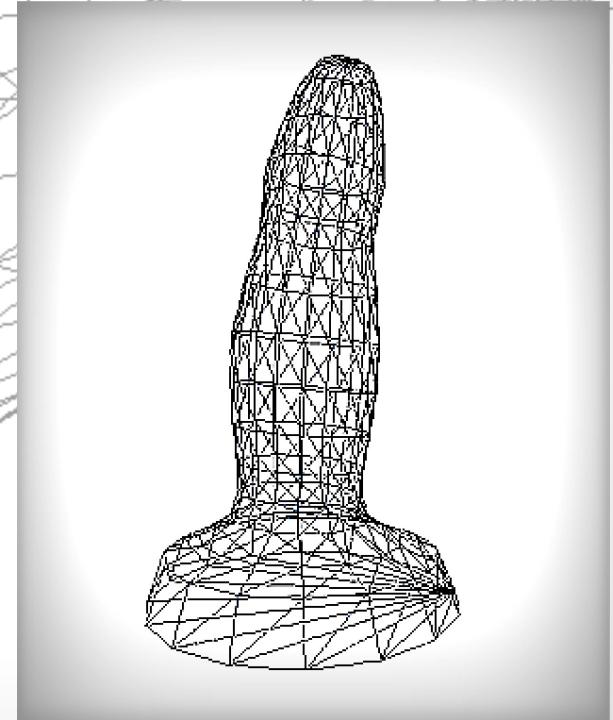
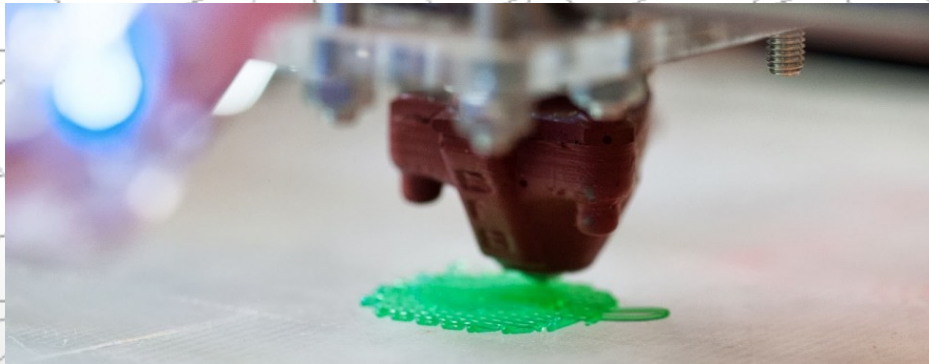
Prepare for World Dongination

or: sex, tech and some other fun stuff

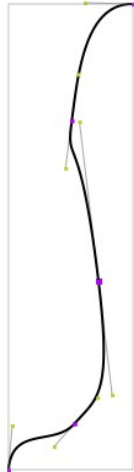


What happened before?

- ❏ Meet people in a maker space in Berlin Mitte & drink beer
- ❏ Do some fun stuff
- ❏ Fool around with 3D and WebGL
- ❏ Try to do something useful with 3D printers
- ❏ Result: Dildos and Tech



A Dildo Generator (I)



Right canvas:

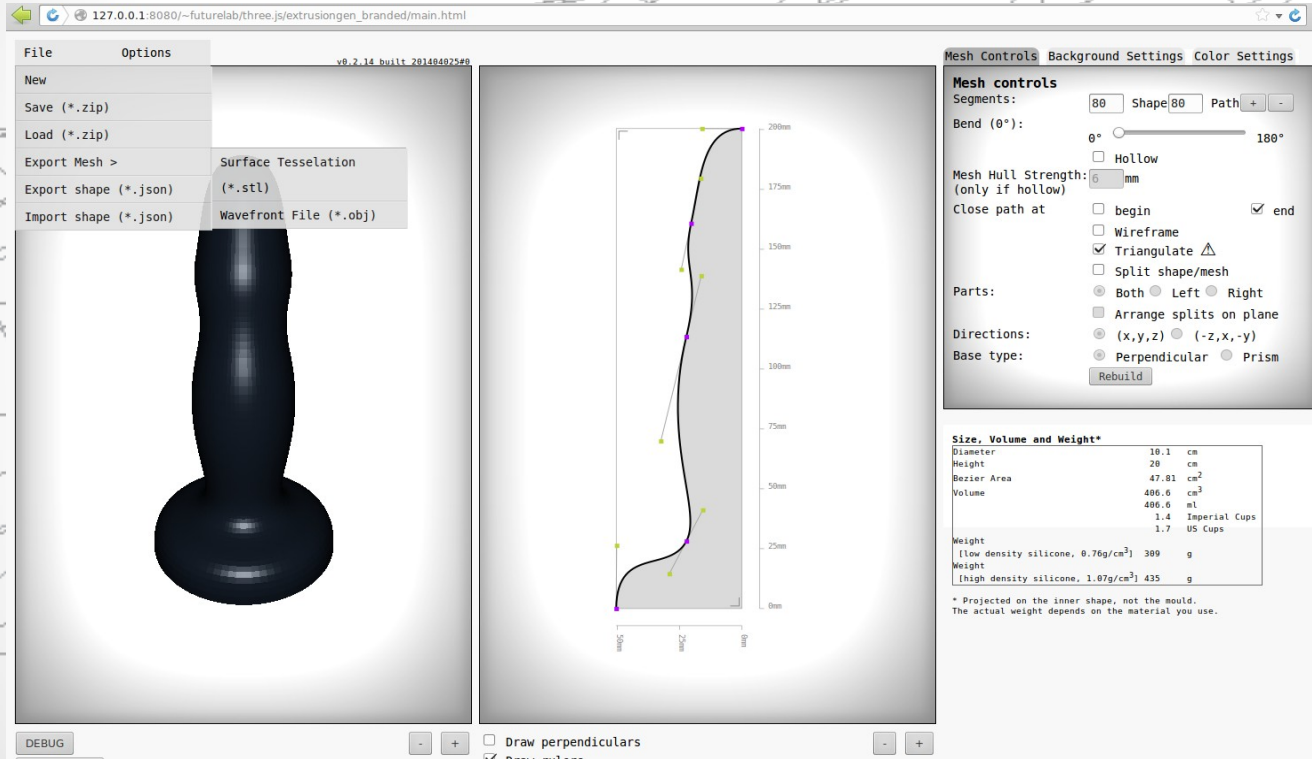
A Bezier curve editor to specify the outline (made with a 2D context and plain javascript)

Left canvas:


The preview canvas (made with 3D context and three.js)

First line of code: Aug 2013

A Dildo Generator (II)



 A HTML5/Javascript Browser app for designing Dildoes

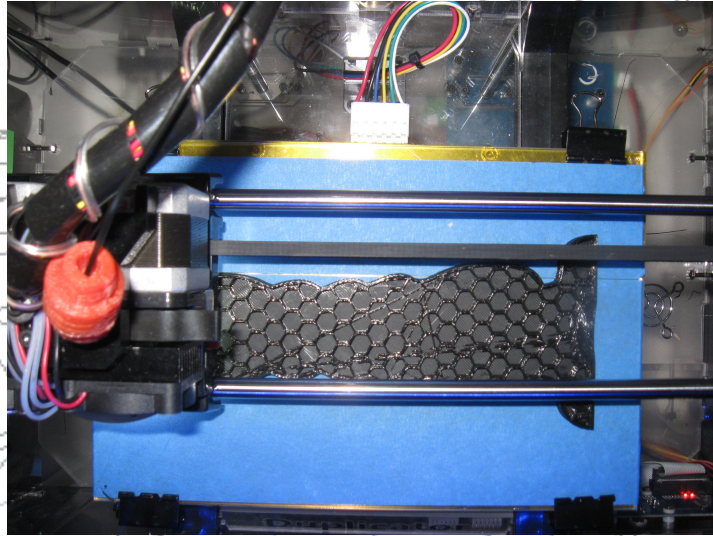
 Never forget to add STL/Obj export

First Printing Results



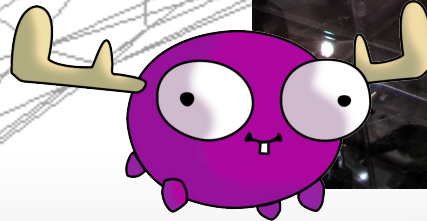
- ❏ The first printing test was a simple revolution solid with 6*10 mesh points (very pointy)

Printing the Mold



❏ Printing a custom mold with a FakerBot printer

❏ Material: PLA



Casting in the Silicone (Attempt I)

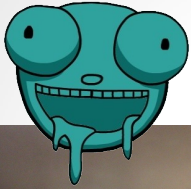


- ❏ Pouring in the Silicone is easy
- ❏ Two-Component Silicone (1:1) sets within 1-6 hours
- ❏ Polymerizes at room temperature
- ❏ Silicone is harmless to human body
- ❏ Heat resistant

Smoothen the Mold (I)

- ❏ Structure of printed filament was very detailed on the silicone's surface
- ❏ Idea: smoothen the inside of the mold's surface with molten paraffin (candle wax)
- ❏ Is harmless to human body
- ❏ Available at local store
- ❏ Melting point near 45°C (boiler plate and metal pot work)
- ❏ The first smoothened result seemed OK but still wasn't perfect (bigger lumps from the wax)
- ❏ Much better: use silicone paste to and/or silicone coating

Smoothen the Mold (II)

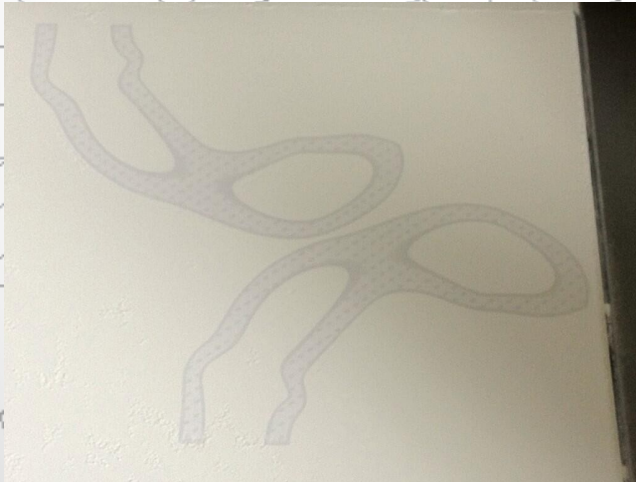


- ❏ Much better: use silicone paste to and/or silicone coating



Bartosz Bos (@intiimi)

- ❏ In Jun 2014 Bartosz Bos from Vancouver, the founder of Intiimi Technologies contacted us
- ❏ He runs a battery of high-end powder printers and just started to print
- ❏ Promising results, but expensive equipment : /



Erwin Zhang

- ❏ On Aug 2014 we suddenly got Mail from Erwing Zhang from China
- ❏ He had just started a small production in his father's factory



Unexpected orders

- ❏ On Jan 2015 we got a challenging request for a mega dildo from nearby Manchester
- ❏ For a film production
- ❏ Model tooooo big for our 3D printers ; (
- ❏ 125mm * 400mm



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domstrapon @domstrapon · Jan 28

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domstrapon @domstrapon · 17 mins

Kit Stubbs

- ❏ On X-Mas 2014: received a message from Kit Stubbs from Boston
- ❏ They* initiated and run the ToyMakerProject
- ❏ <http://www.toymakerproject.com>
- ❏ A project for sex geeks and for making DIY toys

*Kit's preferred pronoun



Kristen "Kit" Stubbs, Ph.D., is a sex-positive, queer/pansexual /genderqueer roboticist, maker, and entrepreneur who's more interested in people than in technology.

Upcoming Events

You can find me at:

[Home](#)→[Essays](#)→[HOPE X: The Sex Geek as Culture Hacker](#)

← [Startup Stories: Insert clever, catchy title here. No, really.](#)

["The Sex Geek as Culture Hacker" video available! →](#)

HOPE X: The Sex Geek as Culture Hacker

Posted on July 19, 2014 by Kit



"Being a nerd is not about what you love; it's about how you love it." Wil Wheaton's words ring true for many self-identified geeks and nerds. But what happens if what you love is "love," or even "lust"?

On July 19, 2014, I presented a talk entitled "The Sex Geek as Culture Hacker" at [HOPE X](#). Below the video, you'll find my slides, references, and lots of additional resources.

Kit Stubbs

Kit's very personal toy: a responsive, pressure sensing, glow penis: *The Hammer*

Brilliant Talk at *HOPE X* (Hackers On Planet Earth) in New York in July 2014

The “Sex-Positive Geek”

Find more at Sex Cons (Arse Elektronika, Catalyst Con, Sexual Freedom Summit)



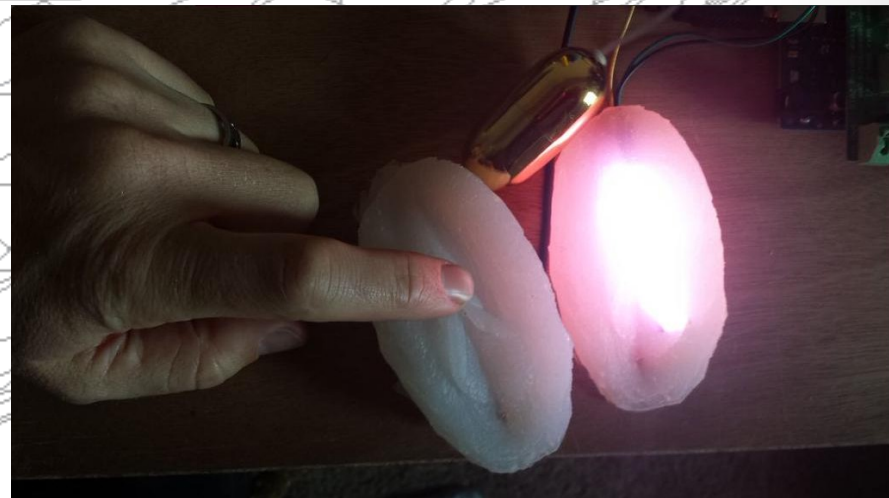


Dr. Extreme

- The Dildo operated flame thrower
- Sensor driven, glowing, vibrating, remote controlled vagina “TeleVulvionics”



Dr. X. Treme @Doctor_Xtreme · Mar 9
Dildo operated flame thrower



Dr. X. Treme @Doctor_Xtreme · Feb 1
#TeleVulvionics blinky fully operational. Rub one and the other blinks, vibe powers up

Dr. Extreme: Orgasmatronics



Orgasmatronics Inc.
@Orgasmatronics

Less Pants, More Science. We make products to increase the diversity of sexual experience for ALL people. Co-founded by @Doctor_Xtreme. Operated by @msummerd

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orgasmatronics.com

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Orgasmatronics Inc. @Orgasmatronics · Apr 23
#MasterBetaKit met GOAL #1! You made erotic engineering a reality; we're toasting you with dildos! Watch the video: [igg.me/at/master-beta...](#)
Orgasmatronics Inc. retweeted
Lux Alptraum @LuxAlptraum · 1 hr
@Orgasmatronics is but a few hundred dollars from \$10k. Get your sex nerd on and help them get there! [indiegogo.com/projects/maste...](#)

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Dr. Extreme also runs a platform for open source sex toy technologies: Circuits, Controllers, Vibrators, Shells, Cases, Files

<http://www.orgasmatronics.com/>

“for easy erotic engineering”

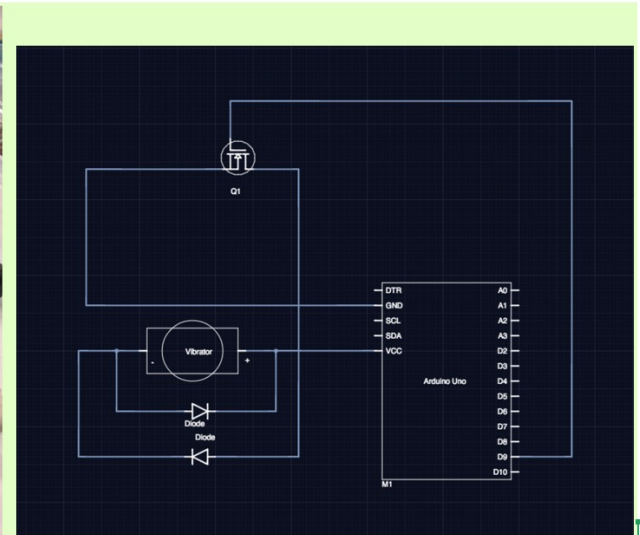
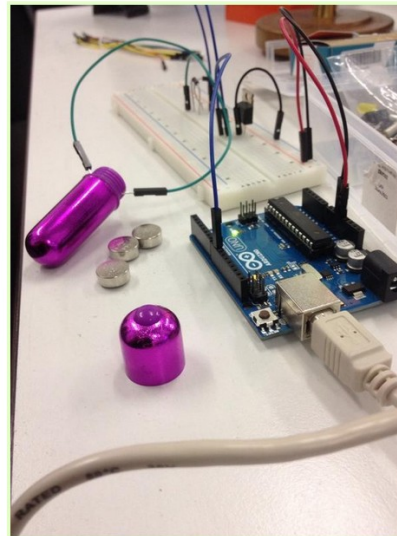
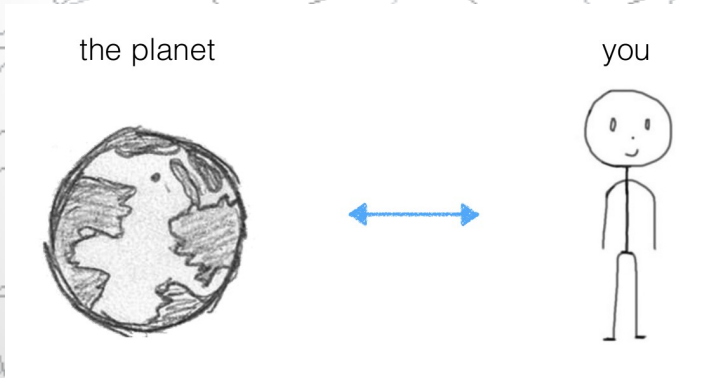
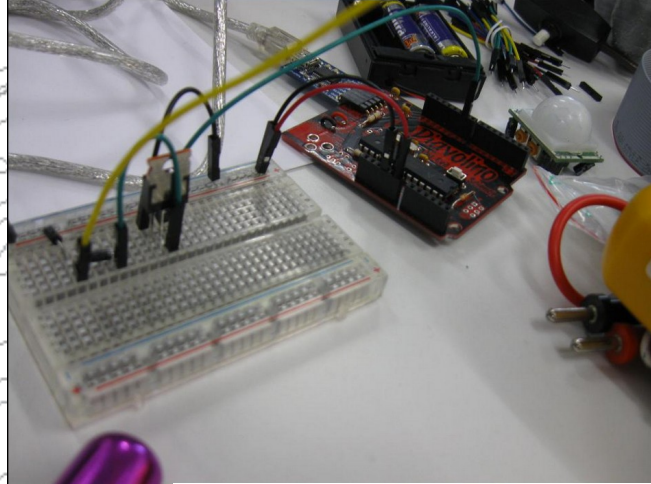
IntimacyLab

- ❏ In June 2014 we got a message from London: Cassie Robinson
- ❏ Project <http://intimacylab.io/> (bring together people in the sex tech sector)
- ❏ Regular Meetings
- ❏ cassierobinson.net
- ❏ Project is now unfortunately down :(



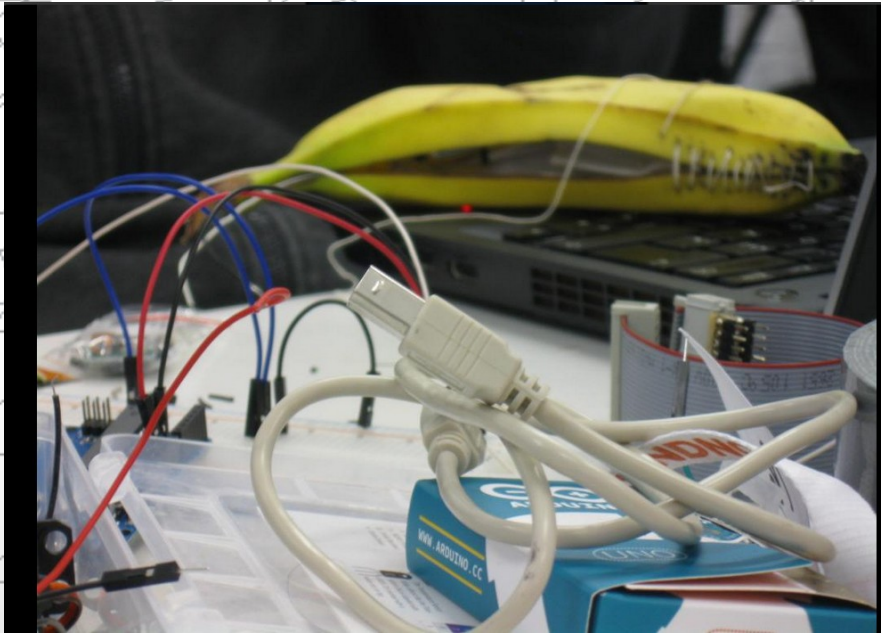
Hack your Vibrator

- Oct 2014: me and some friends attended the *Science Hack Day* in Berlin/Betahaus
- We: hardware n00bs : (
- Aim: improve hardware skills
- Idea: use a live tracker for seismic events to trigger a vibrator
- Plan: make seismic sex toys
- Or: find any other random signal source (music, twitter, jetstream, ...)



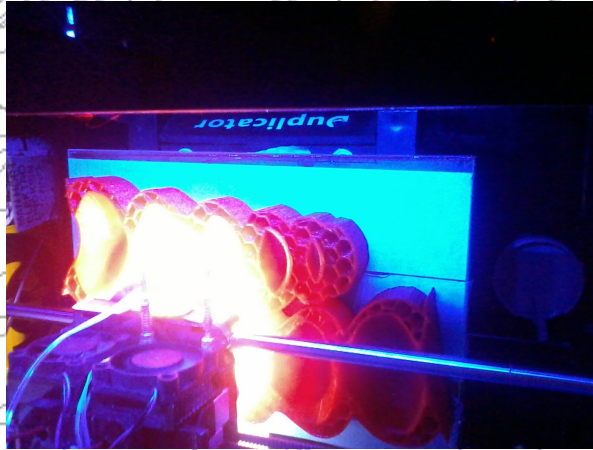
Result

- Not really a seismic sex toy
- But an earthquake banana ;)



More shapes, more silicone, more Dongs

- We printed some more shapes and tried to optimize the molding, giving work shops, adding glitter, live printing at techno parties ...



- Then I met Florian "Overflo" from Vienna at 31c3
- His idea: integrate an usblinky inside a dildo
- We were already experience with vibrators here ^^

Let it glow, let it glow, let it glow

❏ After meeting Overflo he sent me some of his blinky assembly sets

❏ Result: a fancy glow dildo ^^



<http://metalab.at>

And now for something completely different



- ❏ Questions?
- ❏ Please send bug reports to ikaros@polygon-berlin.de

Thank you for listening!

Picture by MeowYin

- ❏ <http://www.dildo-generator.com/>
- ❏ <http://www.polygon-berlin.de/dildogenerator>
- ❏ <https://github.com/IkarosKappler>
- ❏ Slides http://www.int2byte.de/public/20150508_Unicorns_in_Tech/slides.pdf
- ❏ Weekly open 3D printing meeting: Wed, 7pm, Hannoversche Str. 3, 10115 Berlin; Beer is available

