

making, hacking, teaching

Makerspaces as a Challenge for Formal Education
ECER 2018 in Bolzano, 4. - 7. September 2018 - Symposium „ICT in Context“

Dr. Jens Holze - Otto-von-Guericke-Universität Magdeburg

on offer today:

- Of hacking and making...
- Maker Spaces in practice
- A bunch of questions



of hacking and making...



hacking and hacker spaces

The Maker Movement

JOIN THE Revolution!

MANIFESTO

Mark Hatch

Radicalize!



Tools of Industrial Revolution



are at the CHEAPEST



MAKERS ARE CHANGING...

if we could bring more Folks...



Make is Fundamental.



Share

Give away small pieces of yourself.



LEARN

Tool up



Participate

SUPPORT

embrace Change



Make something For Christmas!



maker spaces in practice



FROM
D.I.Y.
CULTURE

#umwfa12

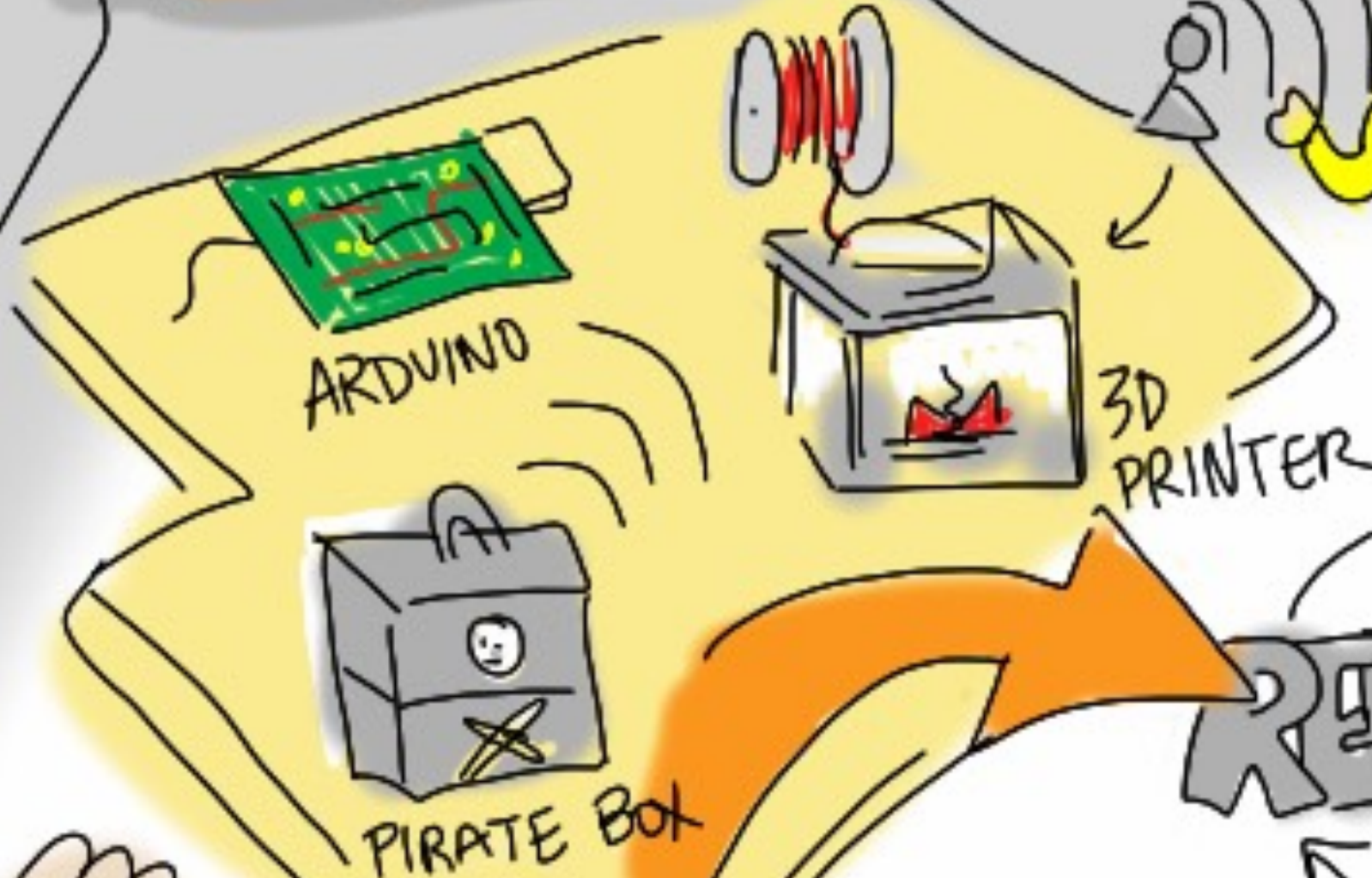
MAKIER



GEORGE MEADOWS

TIM OWENS

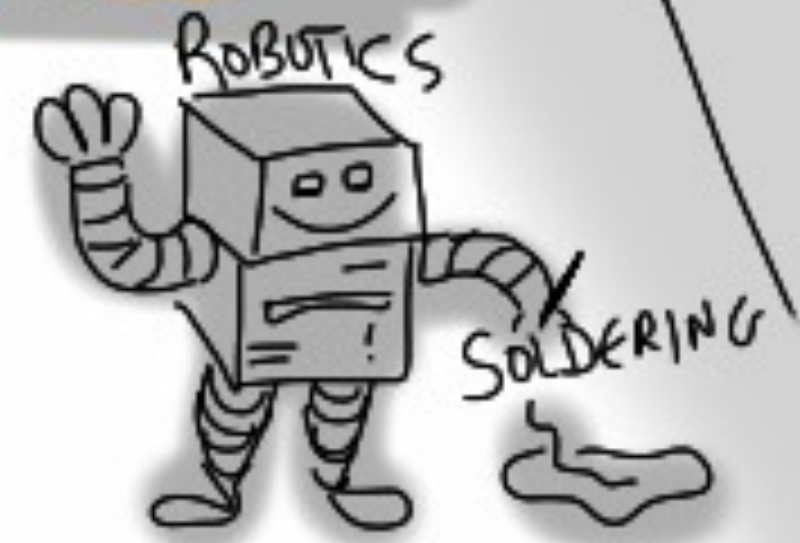
SPACE

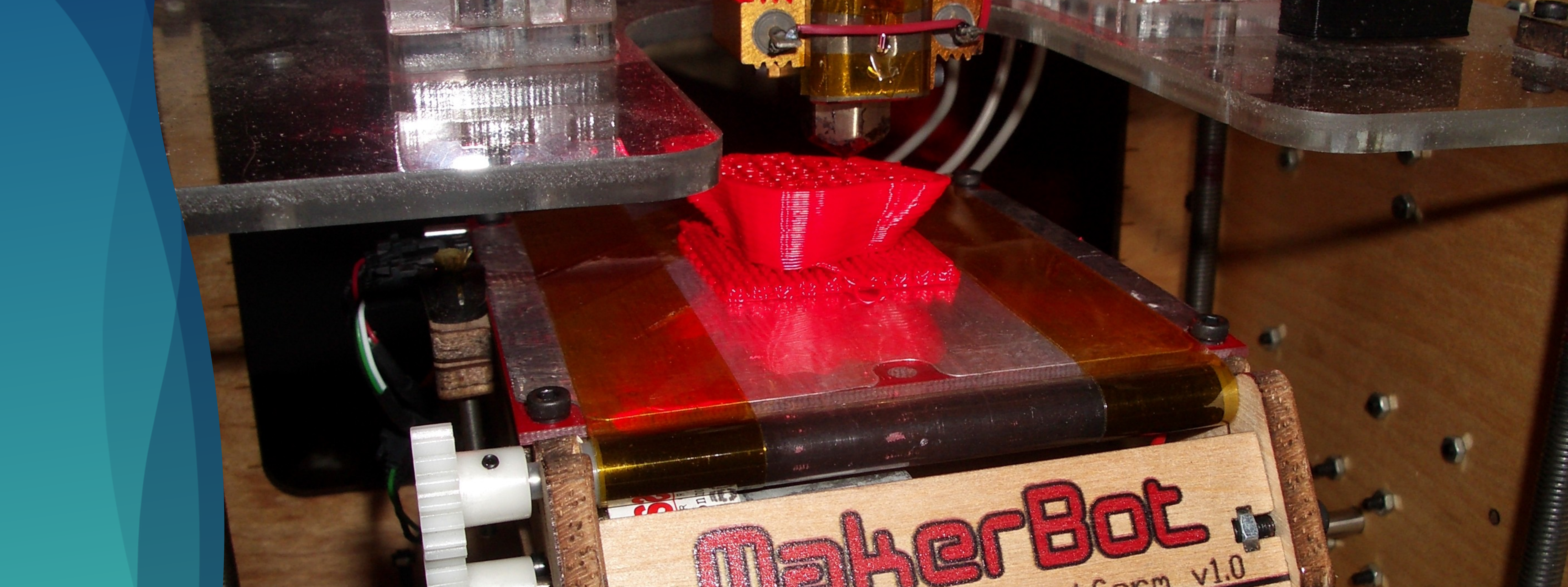


REMIX



I CAN'T
BELIEVE
WHAT I'M
SEEING!





von Maria Keays CC-BY ●●

3D printing & rapid prototyping



bristle bots

broader scope of DIY

- knitting café (Nähcafé) / self repair garages / repair cafés
- training workshops (Lernwerkstatt) at schools, libraries & unis
- produser or prosumer culture (esp. digital media)
- ...

a bunch of questions

living at the intersection of...

- amateurism & professionalism?
- non-profit & commercial?
- idealistic concept of Bildung & utilitarian educational goals?
- physical & digital space?!
- formal & informal learning?



von Tim O'Brien CC-BY ●●

more questions than answers

thank you for your attention!

- Twitter, Instagram (& across the web): [@yodahome](https://twitter.com/yodahome)
- Blog: log.jensholze.de (mostly German, sorry)
- I'm here all week!



sources

- Dougherty, D. (2012). The maker movement. *Innovations: Technology, Governance, Globalization*, 7(3), 11-14. Online unter https://www.mitpressjournals.org/doi/pdf/10.1162/INOV_a_00135
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pictures & videos

- 3D Printer von Maria Keays - https://www.flickr.com/photos/maria_keays/5526994995/
- Arduino toys, Maker Faire UK, Newcastle, UK von Cory Doctorow - <https://www.flickr.com/photos/doctorow/8685685593/>
- Books of Knowledge von Tessss - <https://www.flickr.com/photos/tesschamakkala/2956927902/in/faves-30481388@N07/>
- Europe 2011 von SparkFun Electronics - <https://www.flickr.com/photos/sparkfun/6358875495/>
- Maker + Spaces von Sharon VanderKaay - <https://www.flickr.com/photos/77662096@N06/29041102373/>
- Maker @timmmmyboy With More Pompadour von Giulia Forsythe - <https://www.flickr.com/photos/gforsythe/7210249574/in/faves-30481388@N07/>
- Market von Alex O'Neal - <https://www.flickr.com/photos/alexfiles/8177464983/>
- Questions von Tim O'Brien - <https://www.flickr.com/photos/oberazzi/318947873/>
- How to make a Bristlebot - Toothbrush Robots - <https://www.youtube.com/watch?v=yNS56qYyfLY>