Digital DIY: Rights and obligations in the middle of a paradigm shift

freeknowledgeinstitute

DiDIY
DIGITAL
DO IT YOURSELF

Digital DIY Community Day
Barcelona, 6 July 2016
by Wouter Tebbens

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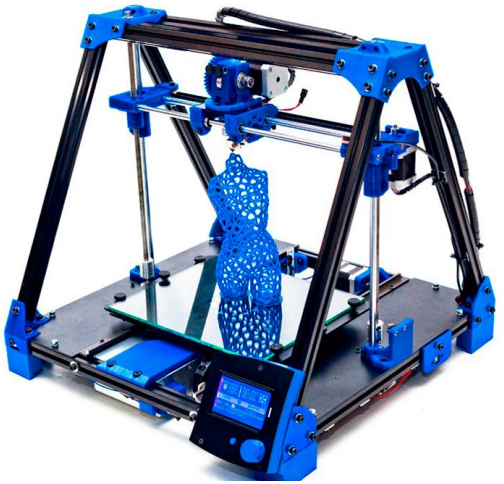
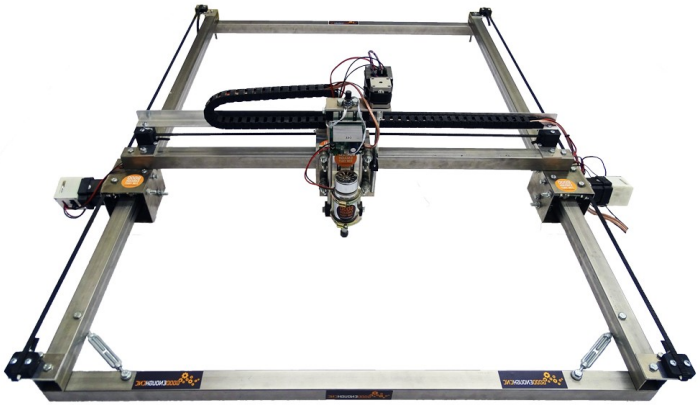
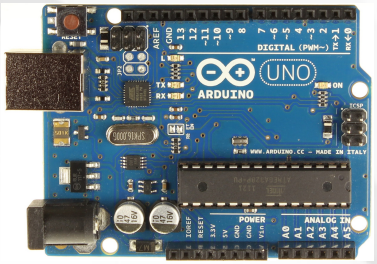
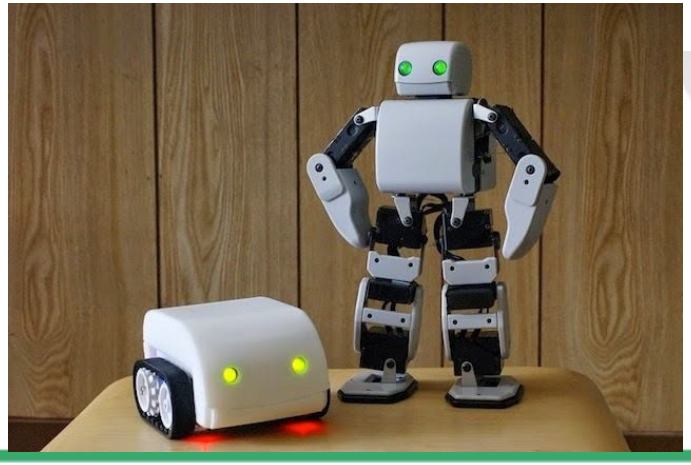
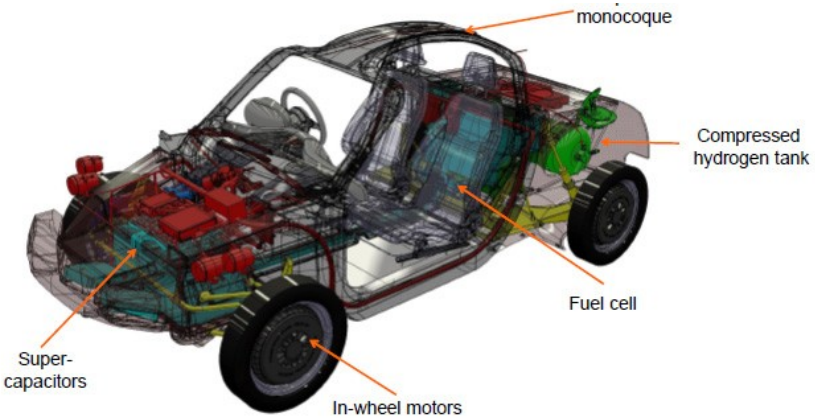
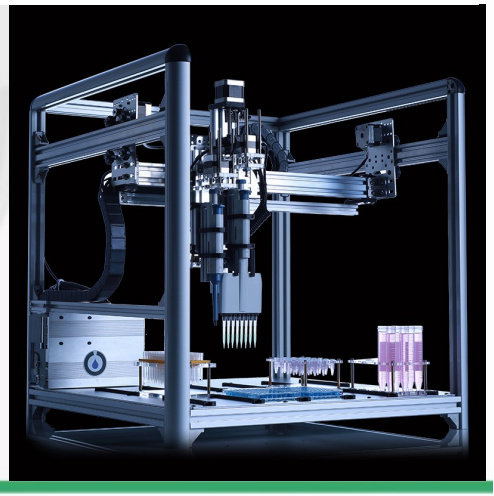




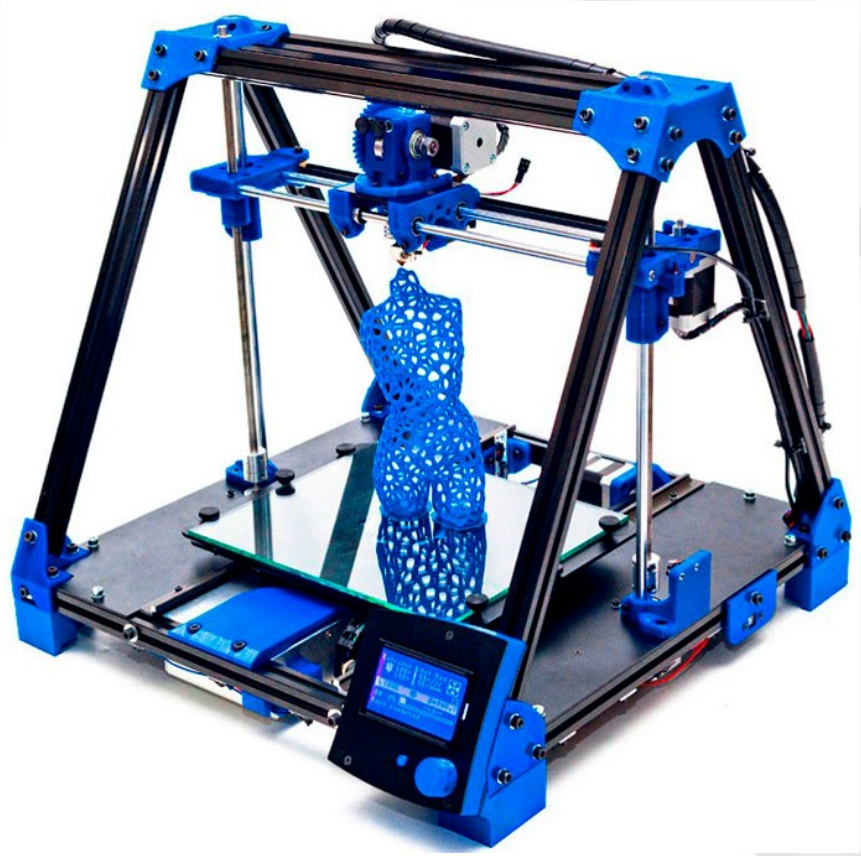

UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN

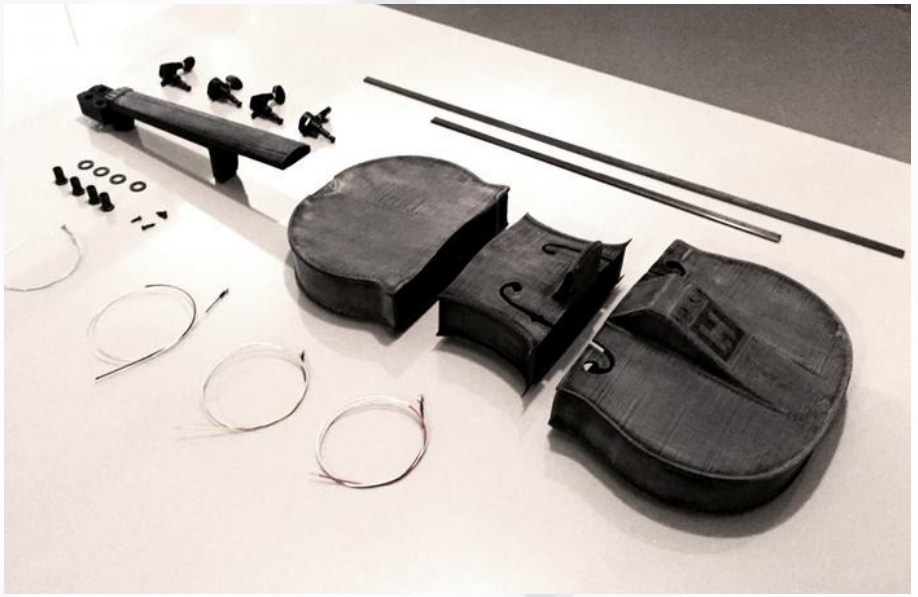



monocoque
Compressed hydrogen tank
Fuel cell
Super-capacitors
In-wheel motors



Digital Fabrication





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Online Design Sharing Platforms

Open Hardware Repository

WEVOLVER

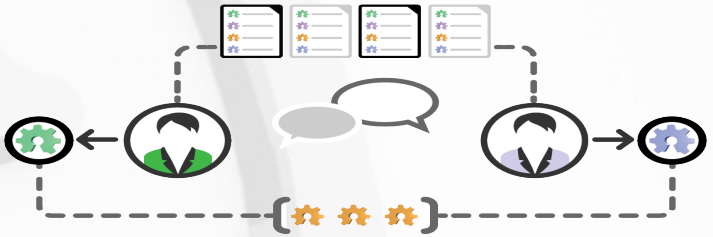
yeggi

SOLDER Pad

Bld3r
A 3D Printing Social Network

fritzing

OPENBUILDS
'Dream it - Build it - Share it'



Thingiverse

YM Youmagine

Thing Tracker Network

MS

Makey Street

GitHub

GitLab

instructables

DIY DRONES
The Leading Community for Personal UAVs

hackster.io

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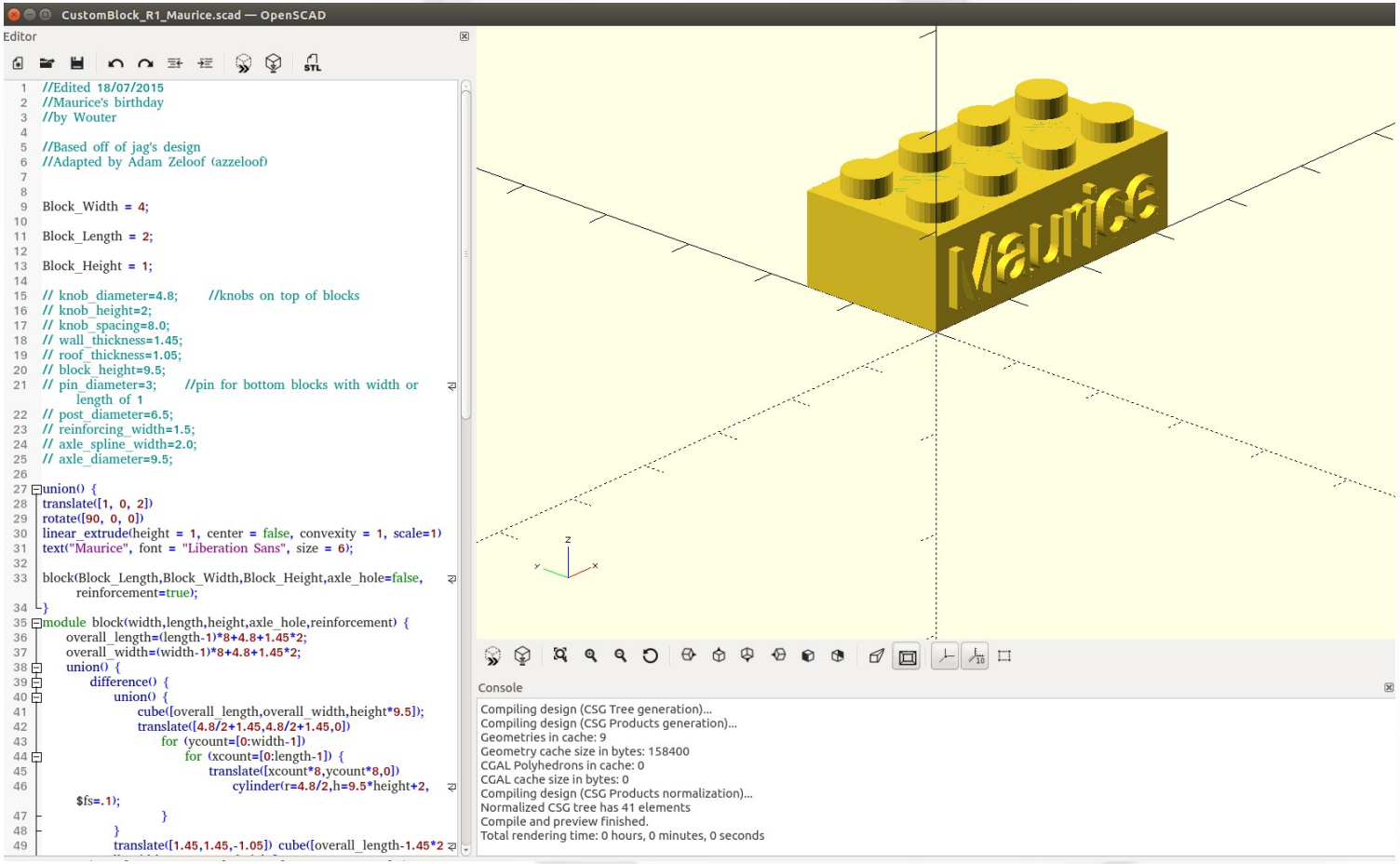
Design It Yourself



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3D Scanning

(c) BQ, CC-BY-SA

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Reverse Engineering

Photo by http://www.hitechcaddservices.com/

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What rights and infringements?

- Depends on type of use:

- DIY/DIWO
  - Non-commercial
  - Private
- Hire someone
  - Service
- Buy:
  - Product

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IPR Exemptions

- There are exemptions of private, non-commercial use in various legislations
- However the risk of litigation remains
- Given the huge social benefits of Digital DIY for repair and customisation, we propose a strenthening of these exemptions.
- Furthermore it would be recomendable to extend these exemptions also to commercial use in the case of repair and spare parts.

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Free Licensing

- «Open Source Hardware»
  - Assures the «Four Freedoms» for any purpose
  - Is mainly copyright based
  - Applies on designs, documentation, software, graphics, ...
  - But **doesn't apply** on the **Hardware** itself(!)

TAPR OHL

CERN OHL

creative commons

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Trademarks

- Open Source Hardware Certification: products may only use the exclusive trademark when certain conditions are met, e.g.
  - Arduino Certified: pay a license fee
  - OSHW Certificate: all documentation freely licensed
  - OHANDA: designs assure the four freedoms

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Liability

- Waivers
- Duty of Care
- Testing
- Certification

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Privacy

- Big Data: User control over Personal Data
- Threat of Unravelling: Full Disclosure
- Government surveillance
- Anonimity
- Encryption

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Thanks!

- Questions?
- We need your help!
- http://www.didiy.eu/
  - Cases of legal challenges
  - Legal initiatives and proposals
  - Educational materials

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