



Aalto University

DesigningOpenInnovation.05

Media, Business, Economy

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<http://www.slideshare.net/openp2pdesign>



14.03.2013



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01.

The Media ecosystem for Open Design (and Digital Fabrication and DIY)

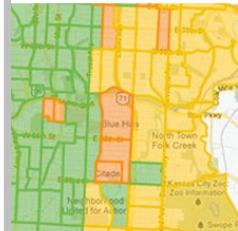


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Wired

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ULTRA-HIGH-SPEED INTERNET

Google Fiber Splits Along Kansas City's Digital Divide

11 hours ago



GETTING A FACE LIFT

How Katy Perry Inspired LinkedIn's Global Redesign

12 hours ago



VIDEO GALLERY

12 Awesomely Inspiring Paralympic Moments

18 hours ago

NEW MOVIES

Underground Brings Drama to Julian Assange's Teenage Hacker Days

10 hours ago

WIRED OPINION

AT&T's FaceTime Blocking Hurts the Deaf

15 hours ago

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All Wired

GO



WAR PLANS

U.S. Attack on Iran Would Take Hundreds of Planes, Ships, and Missiles

09.07.12



A DIFFERENT MOLD

New App Lets Users Design and 3D-Print iPhone Cases

11 hours ago



STORM WATCH

Why All Hurricanes Look the Same From Space

13 hours ago

COMPUTER SECURITY

Sleuths Trace New Zero-Day Attacks to Chinese Hackers Who Hit Google

09.07.12

THE FIRST AMENDMENT

ACLU Sues Police for Seizing Man's Phone After Recording Alleged Misconduct

15 hours ago

CYBERSECURITY

Pirate Bay Founder Arrested for Alleged Hack

14 hours ago



EXPERIENCE THE WORLD OF MARRIOTT

Marriott understands that you seamlessly flow between work and play.

A monthly American magazine and on-line periodical (since 1993) that reports on how new and developing technology affects culture, the economy, and politics.

Source: <http://www.wired.com/>

DIYDrones from Chris Anderson (Wired)

DIY DRONES
AMATEUR UAV SUPERSTORE
PROPELLED BY 

HOME VIEW CART MY ACCOUNT HELP

ALL PRODUCTS CUSTOMER SUPPORT ABOUT US BLOG SEARCH

DIY PRODUCTS

- All Products
- Arduino
- ArduPilot
- ArduPlane
- ArduCopter
- PX4 Autopilot
- Planes & Multicopters RTF, ARF
- GPS
- Sensors and IMUs
- Wireless/Telemetry
- Video/OSD
- Ground Station
- Servos
- Cables/Connectors
- R/C electronics
- Other electronics
- Apparel and other
- R.I.P.

WELCOME.

Our office will be closed on Monday, September 3rd in observance of Labor Day. No shipments will be made; we will resume regular shipping and operations on Tuesday.


SAME DAY SHIPPING IN STOCKED ITEMS!
FEDEX BEFORE 3PM PST USPS BEFORE 12PM PST

FEATURED PRODUCTS

Dean Y Cable (Female to Male connectors) Price: \$2.95 more info	Servo Y Splitter Cable 15cm (BACKORDER) Price: \$1.75 more info	Remzibi OSD 3DR Price: \$89.99 more info
--	---	--





Top Sellers

3DR ArduCopter Hexa-B Frame + Motors Kit
Price: \$349.99 [more info](#)



3DR ArduCopter Hexa-B Frame + Motors kit contains the following :

- 2 Main frame boards
- 7 Aluminum arms
- 2 Center boards
- Landing gear
- Power distribution board, power cables and signal cables for PDB-APM
- Hardware needed to assemble the components above
- 6 Motors
- 6 ESCs
- 6 Propellers

New Products

Female T plug - Male XT60 adapter Price: \$2.75 more info	DF13 7 Position Connector 17.7 cm Price: \$3.00 more info
MB1200 XL-MaxSonar-EZ0 Price: \$44.95 more info	Pre-crimped cables for DF13 connectors 5cm Price: \$2.00 more info
I2C Splitter Price: \$5.00 more info	DF13 7 Position Connector 17.7 cm Price: \$3.00 more info

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 3DRobotics

3DRobotics uBlox LEA-6 GPS will resume shipping tomorrow.
yesterday · reply · retweet · favorite

3DRobotics ArduCopter kits are back in the store with new lower prices! Will begin shipping 9/12.
8 days ago · reply · retweet · favorite

3DRobotics @bbatbileg Hi I just sent an email to our mold maker. We should know more tonight. My guess is 2 weeks :)
11 days ago · reply · retweet · favorite

3DRobotics @albertoc end of next week is what we are shooting for.
14 days ago · reply · favorite

Funded in 2007, a store and an online community with 26,000 members.

Source: <http://diydrones.com/> + <https://store.diydrones.com/>
<http://diydrones.com/profiles/blogs/tour-of-the-new-3d-robotics-factory>

DIYDrones from Chris Anderson (Wired)



How I Accidentally Kickstarted the Domestic Drone Boom

By Chris Anderson | June 22, 2012 | 6:32 am | Categories: Drones

615 123 105
Tweet Share

Open source drones, like this ArduCopter Quad from 3D Robotics, now outnumber military drones in the US. Photo: Misha Gravenvor

At last year's Paris Air Show, some of the hottest aircraft were the autonomous unmanned helicopters—a few of them small enough to carry in one hand—that would allow military buyers to put a camera in the sky anywhere, anytime. Manufactured by major defense contractors, and ranging in design from a single-bladed camcopter to four-bladed multicopters, these drones were being sold as the future of warfare at prices in the tens to hundreds of thousands of dollars.

The role of Media in promoting DIY projects ...

Source: http://www.wired.com/dangerroom/2012/06/ff_drones

“Makers” from Chris Anderson

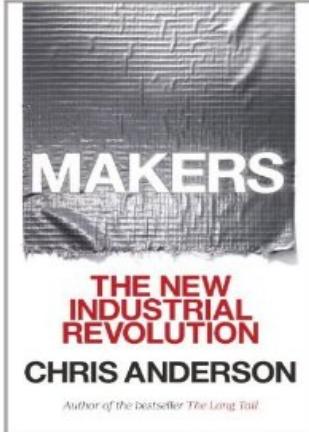
amazon

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Makers: The New Industrial Revolution [Hardcover]
Chris Anderson (Author)

Like (3)

List Price: \$26.00
Price: **\$13.98** & eligible for **FREE Super Saver Shipping** on orders over \$2
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This title will be released on October 2, 2012.
Pre-order now.
Ships from and sold by **Amazon.com**. Gift-wrap available.

Format	Amazon Price	New from	Used from
Kindle Edition	\$19.04	--	--
Hardcover	\$13.98	\$13.98	--
Audio, CD, Audiobook, Unabridged	\$23.10	\$23.10	--

See larger image
Publisher: learn how customers can search inside this book.

Book Description
Publication Date: **October 2, 2012**

Wired magazine editor and bestselling author Chris Anderson takes you to the front lines of a new industrial revolution as garage tinkerers and enthusiasts are about to be unleashed, driving a resurgence of American manufacturing. A generation “the long tail of things”.

Not only magazine, but also books...

O'Reilly Media: Make

The screenshot shows the O'Reilly Media website homepage. At the top, there's a logo featuring a tarsier and the text "O'REILLY® Spreading the knowledge of innovators.". Navigation links include Home, Shop, Radar: News & Commentary, Answers, Safari Books Online, Conferences, School of Technology, and Community. Popular Topics listed are Programming, JavaScript, iPhone, Android, Python, Head First, HTML5 & CSS, Microsoft, Java, Perl, and Linux. Social media icons for YouTube, Flickr, Facebook, Twitter, Google+, and RSS are also present.

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[Learn More](#) Deal Expires Sep 18, 2012 at 11:59pm PT

Free Online Events

The Joy of Combining Images with Photoshop
Presented by Lesa Snider
Date: Tuesday, Sep 11 at 10 PT

Upcoming Events

- Designing for jQuery Mobile
- Writing Extensible JavaScript Without Getting Too Enterprisey
- The Economic Impact of Open Source on Small Business
- An Introduction to Machine Learning

JavaScript Starter Kit

Find the Tools You Need to Get Started with JavaScript

"JavaScript is now a language every developer should know."
—Mike Loukides, Vice President of Content Strategy

JavaScript is everywhere: servers, rich web client libraries, HTML5, databases, even JavaScript-based languages. If you've avoided JavaScript, this is the year to learn it. And if you don't, you risk being left behind.

[View the Full Starter Kit](#)

Your Account

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Deals of the Day

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Ebook - \$7.99 (Save 50%)
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Microsoft SharePoint 2010 Administrator's Companion
Ebook - \$23.99 (Save 50%)
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Deal of the Week

An American media company (since 1978) that publishes books and Web sites and produces conferences on computer technology topics.

Source: <http://oreilly.com>

Make: a magazine



An American quarterly magazine published by O'Reilly Media which focuses on do it yourself (DIY) and/or DIWO (Do It With Others) projects.

Source: <http://makezine.com/magazine/> + <http://make-digital.com/make/>

Make: a blog

The screenshot shows the homepage of the Make: blog. At the top, there's a navigation bar with links for MAKE, Kits, Maker Faire, Make: Projects, and Maker Shed, along with a search bar. Below the navigation is a banner for 'MyLifeScoop.com' featuring a magazine cover for 'Make:'. To the right of the banner is a large orange 'SUBSCRIBE!' button with the text 'BUILD THIS DOG BALLLAUNCHER!'. The main content area has several articles listed:

- DIY Ten Step Sequencer**: An article by Michael Colombo from September 7, 2012, at 12:00 pm. It features a photograph of a green circuit board with various electronic components and red push-buttons.
- Mini Maker Faire Action**: An article by Sabrina Merlo from September 7, 2012, at 11:15 am. It features a photograph of a busy maker faire with many people and exhibits.
- Nominate Companies For The Makey Awards!**: A call to action for nominating companies for the Makey Awards.

On the right side of the page, there's a sidebar with a 'Get MyLifeScoop.com' button, a photograph of a laptop displaying a website, and a newsletter sign-up section. The newsletter sign-up includes fields for email and a 'GO!' button, and a message encouraging users to join the Make: newsletter for exclusive discounts and news. Below the sign-up form is a list of categories:

- Art & Design
- Desktop Manufacturing
- Computers & Mobile
- Craft
- Electronics
- Imaging
- Kids
- Makers
- Microcontrollers
- Recreation & Entertainment
- Robotics

Beside the magazine...

Source: <http://blog.makezine.com/>

Make: an online store

MAKE Magazine Kits Maker Faire Make: Projects Maker Shed

Search our store... Search

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Shopping Cart: (Your shopping cart is empty.)

\$5 SHIPPING! ON ORDERS OVER \$50   

 **Maker SHED**

ALL PRODUCTS NEW ARRIVALS GIFT GUIDES GIFT CERTIFICATES MAKE CATALOG (PDF)

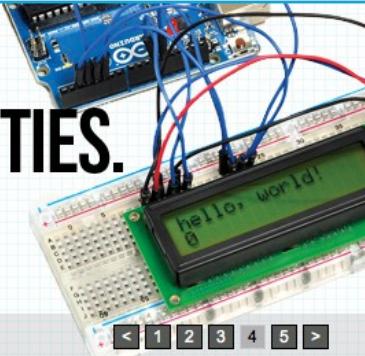
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SALE

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[Intro Electronics](#)
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[Robots & Robotics](#)
[Tools](#)
[Wearables](#)
[Product Archive](#)
[Maker Camp](#)
[Make: & Maker Faire Merchandise](#)

ONE BOX. MILLIONS OF POSSIBILITIES.
Ultimate Microcontroller Pack

[Learn More »](#)



NEW ARRIVALS

Just arrived in the warehouse! The latest selections from the staff of MAKE.

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MAKE: VOLUME 31

Come check out our newest magazine filled with awesome things to create!

[LEARN MORE](#)



WEEKLY DEAL

Use it Quick Sugru

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Beside the magazine...

Source: <http://www.makershed.com/>

Make: a series of local faires

MAKE Kits Magazine Maker Faire Make: Projects Maker Shed Search

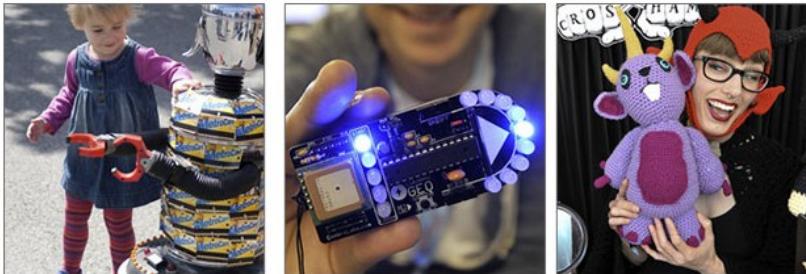
A two-day, family-friendly festival of invention, creativity and resourcefulness, and a celebration of the Maker movement.

Maker Faire®

ATTEND CHECK OUT THE HOW TO IN THE SEE ALL THE
PROGRAM PARTICIPATE MEDIA FAIRES

World Maker Faire New York

New York Hall of Science, Queens, NY
Saturday, September 29, 2012 - 10am - 7pm
Sunday, September 30, 2012 - 10am - 6pm



Over 500 Maker Exhibits!

The World's most diverse showcase of creativity and innovation in technology, craft, science, fashion, art, food and more!

3D Printer Village • Arduino Tent • BUST Craftacular Marketplace • Maker Shed Store





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20 : 19 : 20 : 21
DAYS HOURS MINUTES SECONDS



Maker Faire ADMIT ONE GET YOUR TICKETS TODAY!

Maker Faire Sponsors

Atmel®

Beside the magazine ...

Source: <http://makerfaire.com/>

Make: a series of local faires



Beside the magazine ...

Source: <http://makerfaire.com/map.csv>

Make: a TV / online series

[Blog](#)[MAKE Magazine](#)[Videos/Podcasts](#)[Make: Projects](#)[Forum/Community](#)[Maker SHED Store](#)

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Search

Introducing Make: television

Presenting a new national series from MAKE magazine, Twin Cities Public Television, and American Public Television.

Make: is the DIY series for a new generation! It celebrates "Makers" - the inventors, artists, geeks and just plain everyday folks who mix new and old technology to create new-fangled marvels. Check out the [Episode Guide](#) to watch segments and read descriptions of previous episodes.

[MAKE: television Episode 1: Bicycle Rodeo & VCR Powered Cat Feeder »](#)



For those of you who like to see the whole episodes of Make: television, here's a chance to see episode 1 in all its glory. Meet Cyclocide, an inventive band of performance artists who build outrageous bicycle contraptions straight... [Read More](#)

[MAKE: television Episode 2: Aerial Kite Photography & Burrito Blaster »](#)



Make: television Episode 2: Maker Cris Benton takes spectacular aerial photographs by rigging remote-controlled cameras to high flying kites. In the Maker Workshop John Park builds a Burrito Blaster, which can propel a burrito 50 yards, and Mister Jalopy... [Read More](#)

[MAKE: television Episode 3: Steampunk & Pole Camera »](#)



Enter the alternative universe of Jake Von Slatt, a leading Steampunk Maker, who turns modern technology into Victorian works of art. In the Maker Workshop, John Park mounts a remote control camera on a painter's pole to take stunning... [Read More](#)

[Make: television Episode 4: Fire Sculpture & DTV Antenna »](#)



Meet the Flaming Lotus Girls, a women-centric maker collaborative that creates gargantuan, fire-breathing sculptures. In the Workshop, John Park builds a digital TV antenna from wire coat hangers and a \$10 video camera stabilizer. William Gurstelle shows surprising uses... [Read More](#)

VISIT OUR OTHER SITES:

[Make: Craft:](#)[Maker Faire](#)**FREE
TRIAL
ISSUE****Make:
television****TAKE A
SHORT
SURVEY!**

Welcome to Make: television

[Episode guide and PDFs »](#)
[Broadcast listings »](#)
[Submit your video »](#)
[About Make: television »](#)
[MAKE: Day »](#)
[Make: television Outreach »](#)
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Make: television is a television show produced by Twin Cities Public Television and hosted by John Edgar Park which premiered in January 2009 on PBS stations.

Source: <http://makezine.tv/>

Make: a controller kit

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[Shopping Cart: \(Your shopping cart is empty.\)](#)

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DISCONTINUED - MakeController Kit v2.0

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[Intro Electronics](#)
[Kits](#)
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[Description](#) [More Details](#)

Please note: This product has been discontinued by the maker. We're looking into a replacement. If you'd like to be notified if we find one, please click on the "e-mail me when back in stock" link and we'll let you know if/when we find a substitute.

Our Price: \$120.00 DISCONTINUED

Availability: Currently Unavailable
Product Code: MKMT3

[+ Add To Wish List](#)
[Click Here To Be Emailed When Back-In-Stock](#)

You might also like...

[DISCONTINUED -Building The Perfect PC 2nd Edition](#)

Make teamed up with MakingThings, LLC, to produce the Make Controller Kit, an open hardware solution to create interactive applications.

Source: http://www.makershed.com/product_p/mkmt3.htm

Make: Craft

The screenshot shows the homepage of the Make: Craft website. At the top, there is a navigation bar with links for MAKE, Kits, Maker Faire, Make: Projects, Maker Shed, Craft, and a search bar. Below the navigation is an advertisement for Amazon.it featuring a product for a mini MP3 player. The main header features the "Make: Craft" logo in large red letters. Below the logo, there are links for Blog, Magazine, Projects, Reviews, and Shop. A "Hot Topics" section lists Kids, Arduino, 3D Printing, Computers & Mobile, Craft, and Raspberry Pi, with a "See All Topics" button. The main content area displays several project thumbnails: "Stitch it!" showing a fabric pendant, "Folding Chair Makeover" showing two chairs, "Blackwork Stop Motion Animation" showing a person working on a piece of embroidery, and "New York Maker Faire! Sept. 29 & 30, 2012" with a ticket purchase call-to-action. There is also a "Fab." advertisement featuring various colorful craft items like a red keyboard, a yellow bicycle, and a red armchair.

A quarterly magazine published by O'Reilly Media which focused on do it yourself (DIY) projects like knitting, sewing, jewelry, metalworking, woodworking, until 2009.

Source: <http://blog.makezine.com/craftzine/> [http://en.wikipedia.org/wiki/Craft_\(magazine\)](http://en.wikipedia.org/wiki/Craft_(magazine))

Makerbot TV

The screenshot shows the homepage of the MakerBot TV website. At the top, there's a large "MakerBot TV" logo. To its right are links for "About MakerBot TV" and "Go to makerbot.com →". Below the logo is a video player showing a video titled "MakerBot TV S02E11 - MakerBot A Robot!". The video thumbnail features three spools of filament (yellow, blue, red) and the text "makerBot TV". To the left of the video player is a "RECENT VIDEOS" section with two entries: "May 21, 2012 MakerBot TV S02E12 - Maker Faire" and "May 14, 2012 MakerBot TV S02E11 - MakerBot A Robot!". Each entry includes a thumbnail, the date, the video title, and a brief description. To the right of the video player is a "SUBSCRIBE" section with links to RSS feed, Twitter, and Facebook. Below that is a "RECENT COMMENTS" section with a comment from "Craig The Fabricator" and a response from "Awesome! I've felt for a long time that these".

MakerBot TV S02E11 - MakerBot A Robot!

The MakerBot design team is building a Robot Petting Zoo to bring to this year's Maker Faire. In this video you'll get a behind-the-scenes look at how they conceptualized, designed and created these amazing DIY robots! Visit us at [MakerBot.com](#) Thank You: Michael Curry, Adam Fontenault, Jason...

RECENT VIDEOS

May 21, 2012 **MakerBot TV S02E12 - Maker Faire**
In this special Maker Faire edition of MakerBot TV, R.Maker takes you on a tour of the faire and then we chat with a few of the many MakerBot Operators we ran into over the weekend. Thank you so much to everyone who joined in the fun! Keep it awesome! Visit us at [MakerBot.com](#) Thank You:....

May 14, 2012 **MakerBot TV S02E11 - MakerBot A Robot!**
The MakerBot design team is building a Robot Petting Zoo to bring to this year's Maker Faire. In this video you'll get a behind-the-scenes look at how they conceptualized, designed and created these amazing DIY robots! Visit us at [MakerBot.com](#) Thank You: Michael Curry, Adam Fontenault, Jason...

SUBSCRIBE

Be notified of new videos by RSS | Follow us on Twitter | Be a fan on Facebook

RECENT COMMENTS

I thought I had read something once about using acetone... Used sparingly, my understanding is that you ...
Craig The Fabricator said about MakerBot TV S02E09 - Finishing ...

Awesome! I've felt for a long time that these

An online TV show produced by Makerbot, for promoting their 3D printers.

Source: <http://makerbot.tv/>

Makerbot TV

MakerBot TV

[About MakerBot TV](#)

[Go to makerbot.com →](#)

September 7, 2011

MakerBot TV Launch Episode!



Related

Map



[MakerBot TV Season 1
Episode 11](#)



[MakerBot TV Season
Finale!](#)



[MakerBot Sends
Stephen Colbert to
Space](#)

An online TV show produced by Makerbot, for promoting their 3D printers.

Source: <http://makerbot.tv/LtHr/makerbot-tv-launch-episode/>

Thingiverse (from Makerbot)

The screenshot shows the Thingiverse homepage. At the top, there's a navigation bar with links for THINGS, TOOLS, BROWSE, and BLOG. On the right, there's a search bar and a button labeled "SEARCH". Below the navigation, a banner reads "Digital designs for real, physical objects. A Universe of Things!" and features a large blue "UPLOAD A THING" button. The main content area is titled "Universal iPhone camera mount". It includes a thumbnail image of the physical object, a profile picture of the creator, and the name "marinhosdrake". Below this, it says "Created on Aug 27, 2012" and "Gadgets > Camera". The item was also "Featured on Aug 27, 2012". The description text reads: "Universal iPhone camera mount for attaching your iPhone to anything you want to film! Designed for filming timelapse videos of 3d prints or anything you want! Adjustable arms to allow you to film from a number of angles, should attach to most printers or just about anything, here's an example using the camera mount printing thing:12105: youtube.com/watch?v=nVrfkTOeyTo". Below the description are several smaller images showing different views of the 3D printed parts and their assembly. Social sharing buttons for Twitter, Facebook, and Pinterest are at the bottom. To the left, there's a sidebar for "Downloads" listing files like "ARM 1.STL", "ARM 2.STL", "ARM SWI...STL", and "CAP.STL". The "Instructions" section provides assembly details. On the right, there's a "Latest From The Thingiverse Blog" section featuring a thumbnail for "Lost and Found: Air Hockey Edition".

A website for sharing 3D digital files that can be printed (with Makerbot printers).

Source: <http://www.thingiverse.com/thing:29258>



Aalto University

02.

Platforms Digital Fabrication, Open Design and DIY



Aalto University

A platform

= an extremely valuable and powerful ecosystem that quickly and easily scales, morphs, and incorporates new features (called planks), users, customers, vendors, and partners.

The most vibrant platforms embrace third-party collaboration. The companies behind these platforms seek to foster symbiotic and mutually beneficial relationships with users, customers, partners, vendors, developers, and the community at large. At their core, platforms today are primarily about consumer utility and communications.

Simon, P. (2011). *The Age of the Platform: How Amazon, Apple, Facebook, and Google Have Redefined Business*. Motion Publishing.

A platform

Attributes	Pre-Platform Age	Platform Age
<i>Target Market</i>	Predominantly business-oriented. Planks used in an office by employees on a single device (PC).	Both business- <i>and</i> consumer-oriented. Planks used everywhere by everyone on multiple devices.
<i>Ecosystems</i>	Stable. Primarily comprising relatively few arms-length resellers and strategic partners.	Vibrant, robust, dynamic. Comprising individual developers and small partners. Partnerships and communities quickly form, change, and dissolve.
<i>Collaboration</i>	"We'll buy you or we'll crush you." Fixed pie. Competition-based.	"We want to work with you." Grow the pie together. Cooperation-based.
<i>Technology</i>	Mostly closed source or proprietary, sometimes available via expensive licensing.	Mostly open source and less proprietary. Often takes form of a free development kit or an API.
<i>Innovation</i>	Top down. Internal or via acquisition. Usually slow.	Bottom up. External or partner-based or -assisted. Much faster.
<i>Marketing</i>	Centralized single company campaigns, rigidly coordinated and controlled.	Comarketing and partner-driven campaigns. More independent, organic, and decentralized.

Simon, P. (2011). *The Age of the Platform: How Amazon, Apple, Facebook, and Google Have Redefined Business*. Motion Publishing.

Etsy: a DIY / Crafts marketplace

The screenshot shows the main interface of the Etsy website. At the top, there's a navigation bar with links for 'Cart 0', 'Your Etsy', 'Help', 'Register', and 'Sign In'. Below the navigation is a header with the 'Etsy' logo, 'Buy', 'Sell', 'Community', and 'Blog' buttons, followed by a search bar containing the word 'Handmade' and a 'Search' button.

On the left side, there's a sidebar titled 'Categories' listing various craft categories: Accessories, Art, Bags and Purses, Bath and Beauty, Books and Zines, Candles, Ceramics and Pottery, Children, Clothing, Crochet, Dolls and Miniatures, Everything Else, Furniture, Geekery, Glass, Holidays, Housewares, Jewelry, Knitting, Music, Needlecraft, and Paper Goods.

The main content area features several promotional boxes: 'Showcase' (Fresh picks from sellers), 'Treasury' (Browse member picks), and 'Graduation Showcase' (Sellers' top picks for grads). Below these are sections for 'Handpicked Items' and 'Picked by Kookoowa'. The 'Handpicked Items' section shows four items: a hand-painted high-heeled shoe, a colorful bangle, a yellow and purple clutch bag, and a set of shopping day earrings. The 'Picked by Kookoowa' section shows four more items: a blue and green ceramic fish figurine, a chainmaille bracelet, a stained-glass sun catcher, and a red and blue fabric pouch.

The biggest marketplace for your
DIY / Crafts projects.

Source: <http://www.etsy.com/>

Etsy: a platform for DIY

Buy Sell Registry Community Blogs Mobile Help

Etsy Register Sign In Search for items and shops Search Cart

Home > Developers

Developers Home Documentation Discussion API Terms of Use

Your Developer Account Register as a developer Migrate your account

Looking for Etsy Apps? Check out our new App Gallery! It's the best way to find cool and useful tools built upon Etsy's API.

Developers Your place to code all things handmade

Welcome To the Etsy Developer Community

We believe in code as craft. Join Etsy's community of makers, artists and creators and build tools that enrich the ways you can shop, sell and connect in the world's most vibrant handmade marketplace.

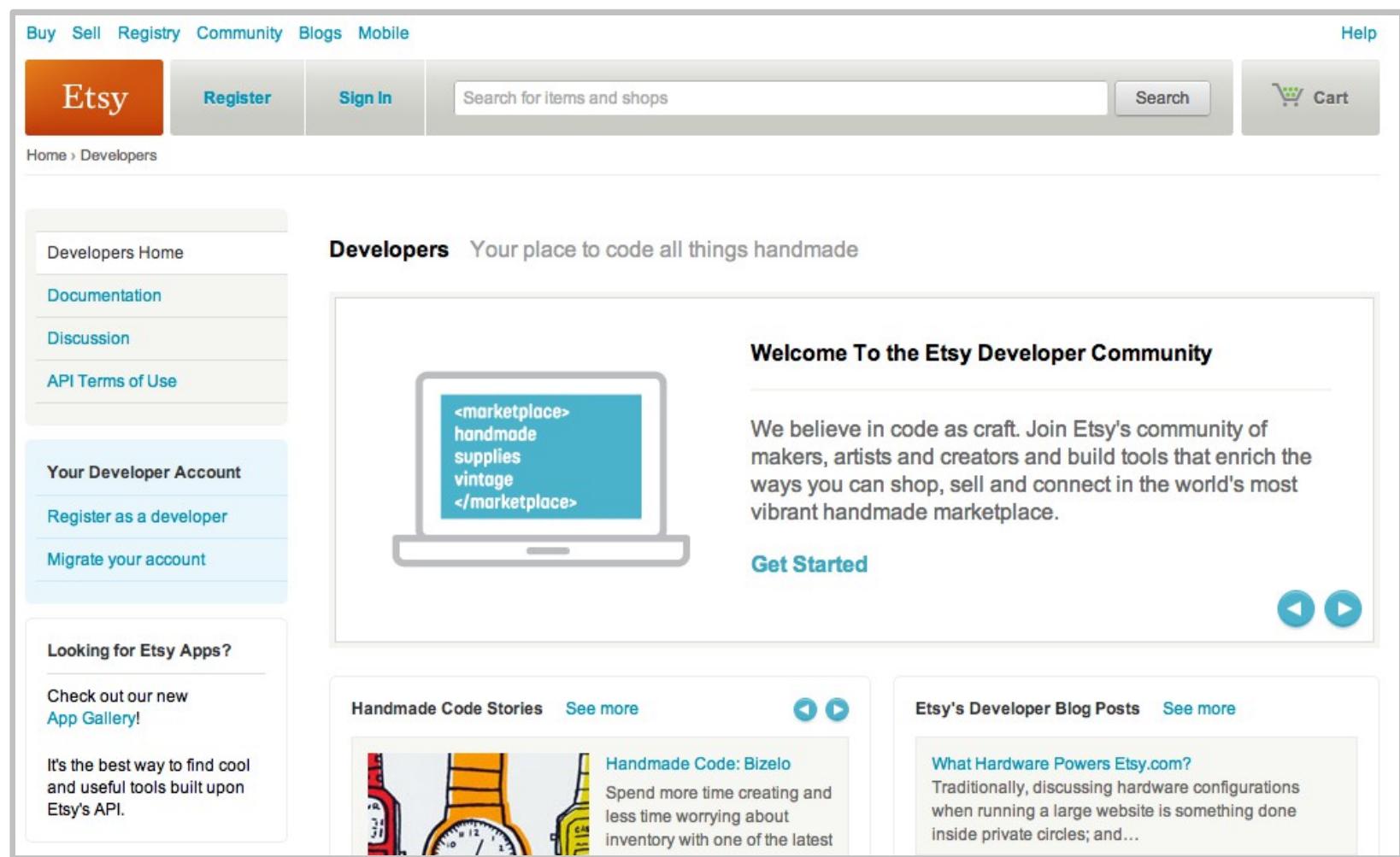
Get Started

Handmade Code Stories See more

Handmade Code: Bizelo Spend more time creating and less time worrying about inventory with one of the latest

Etsy's Developer Blog Posts See more

What Hardware Powers Etsy.com? Traditionally, discussing hardware configurations when running a large website is something done inside private circles; and...



With also open API for interacting with the platform!

Source: http://www.etsy.com/developers?ref=ft_dev

Etsy: a platform for DIY



0:15 / 4:27

[video controls]

The biggest marketplace for your
DIY / Crafts projects.

Source: <http://www.youtube.com/watch?v=RmXJXYHnWPo>

Blomming: another platform for DIY

The screenshot shows the homepage of the Blomming website. At the top, there is a navigation bar with links for "HOW IT WORKS", "WHY IT WORKS", "PRICING", "SUPPORT", and "LOG IN". Below the navigation is the Blomming logo, which features a green chameleon and the word "blomming" in lowercase, with "the social e-commerce" written underneath. To the left, there is a grid of six product images: a grey shoulder bag, a white owl-shaped plush toy, a blue necklace with a large green stone, a brown patterned shoulder bag, a blue dress with a black belt, and a row of colorful tassels. A large green button labeled "EXPLORE" is positioned below these images. To the right, there are two main sections: "buy" and "sell". The "buy" section contains the text "FIND & DISCOVER THOUSANDS OF UNIQUE OBJECTS AND FINE ITEMS, ALWAYS UPDATED". The "sell" section contains the text "PUBLISH & SHARE ON FACEBOOK, ON YOUR WEBSITE, ON YOUR BLOG, ON BLOMMING". Above the "sell" section is a "SIGN UP WITH facebook" button and a "OR SIGN UP WITH YOUR EMAIL" link. Below these are fields for "Username", "E-Mail", and "Password", each with a corresponding input box. A note at the bottom of this section states: "By signing up you accept our [Terms of Service](#) and [Privacy Policy](#)". A large brown button labeled "OPEN YOUR SHOP" with a "FREE" badge is located at the bottom right. At the very bottom of the page, there is a footer with links for Blomming (About / Blog, Magazine, Newsletter), Legal (Terms of Service, Privacy Policy, Acceptable Use Policy), Social (Facebook, Twitter, Google+), and various media logos (TC, WIRED, Gartner 2012 Cool Vendor, 24 DRE, TNW, la Repubblica). There are also language selection and social sharing options (Facebook Like, Twitter Tweet, Google+).

A platform for embedding your e-commerce store in your own website.

Source: <http://blomming.com/>

Ponoko (New Zealand)

The screenshot shows the Ponoko website homepage. At the top, the Ponoko logo is displayed with the tagline "the world's easiest making system". Below the logo is a navigation bar with links: home, buy, sell, make, apps, blog, and support. A decorative banner with red silhouettes of crabs and hearts runs across the top. The main headline reads "The future of products is here" followed by "Personal Factory™ 5". A sub-headline states "Now with App Gateway to create almost anything, and CNC routing to make big things." Below this, there are two buttons: "How it works »" and "Pricing from \$0 ». On the right side, a woman is sitting in a wooden armchair, writing in a notebook. In front of her is a small wooden table with a red glowing cube-shaped device, a smartphone, and a mouse. Four callout bubbles point to the device: one labeled "Electronics", one labeled "3D printing", one labeled "Laser cutting", and one labeled "CNC routing". At the bottom right of the page, there are navigation arrows.

Online service and marketplace (open your own shop) with laser cutting, cnc routing, 3D printing, electronic components through local hubs.

Source: <http://www.ponoko.com>

Ponoko (New Zealand)

Digital making hubs

Personal Factory connects you to a global, digital making network.

Current making hubs are listed below. Select a hub closest to where you live that offers the methods and materials you're looking for.

You will be taken to a page where you can sign up for a free Personal Factory account or login if you already have one.

Note: Digital making methods and material selections vary at each hub, because each one works with their own equipment and local material suppliers.

Location	Website	Methods	Materials
United States			
CA Oakland	Ponoko	3D printing CNC routing laser cutting	materials materials materials
GA Atlanta	Ponoko	CNC routing	materials
New Zealand			
Wellington	Ponoko	laser cutting	materials
Germany			
Berlin	Formulor	laser cutting	materials
Italy			
Milan	Vectorealism	laser cutting	materials
United Kingdom			
London	RazorLAB	laser cutting	materials

Online service and marketplace (open your own shop) with laser cutting, cnc routing, 3D printing, electronic components through local hubs.

Source: <http://blog.ponoko.com/digital-making-hubs/>

Ponoko (New Zealand)

The screenshot shows the Ponoko website's developer program section. At the top, the Ponoko logo and tagline "the world's easiest making system" are visible, along with a navigation bar containing links for home, buy, sell, make, apps, blog, and support. A decorative banner with various icons like gears, hearts, and hands follows.

Apps

App Gateway Developer Program

Personal Factory Developer Program

Build apps for Personal Factory and distribute them in the Personal Factory App Gateway

[Join now \(it's free\) »](#)

Create an app
Get access to the Sandbox and Live APIs – and let us do the making for you. [Find out more »](#)

Developer resources
Get API documentation, code samples and technical support. [Find out more »](#)

Personal Factory App Gateway is coming soon!
Distribute your 'making apps' to the people who care the most.
[Learn more »](#)

Online service and marketplace (open your own shop) with laser cutting, cnc routing, 3D printing, electronic components through local hubs.

Source: <http://www.ponoko.com/app-gateway/developer-program>

Shapeways (Netherlands/USA)

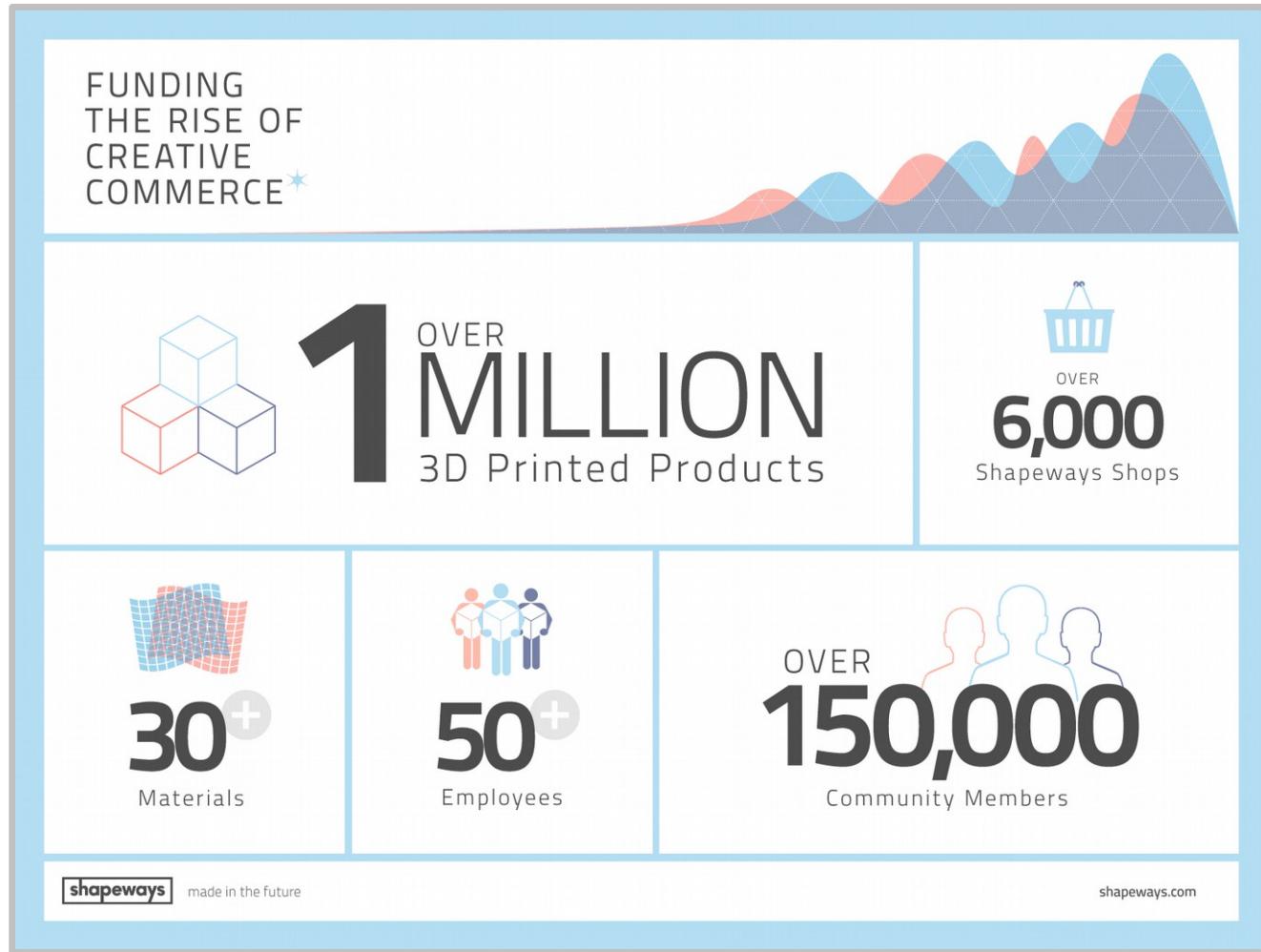
The screenshot shows the Shapeways homepage. At the top, there's a navigation bar with links for 'Create', 'Discover', 'Community', 'Go', 'Cart', 'Register', and 'Log in'. Below the navigation is a banner featuring a video thumbnail of a person holding a 3D-printed vase with flowers, with the text 'Shapeways 3D Printing & the Culture of Creativity' and 'Share More Info'. To the right of the banner, the tagline 'Make & Share Your Products With 3D Printing' is displayed, along with a 'Join Now!' button and a link to 'Upload now ». Below the banner, there's a section titled 'Discover 3D Printed Products' with four product cards:

- Animaris Geneticus Par...** by Theo Jansen. A white, lattice-like 3D-printed sculpture. Rating: 5 stars (107 reviews). Price: From €90.73.
- Bicycle Chainring Cuffli...** by GothamSmith. Three cufflinks designed to look like bicycle chainrings. Rating: 5 stars (75 reviews). Price: From €56.62.
- Klein Bottle Opener** by Bathsheba Sculpture LLC. An intricate, twisted metal bottle opener shaped like a Klein bottle. Rating: 5 stars (18 reviews). Price: From €72.66.
- Moustache Cufflinks** by GothamSmith. A pair of cufflinks designed to look like mustaches. Rating: 5 stars (11 reviews). Price: From €56.62.

Online service and marketplace (open your own shop) with 3D printing.

Source: <http://www.shapeways.com>

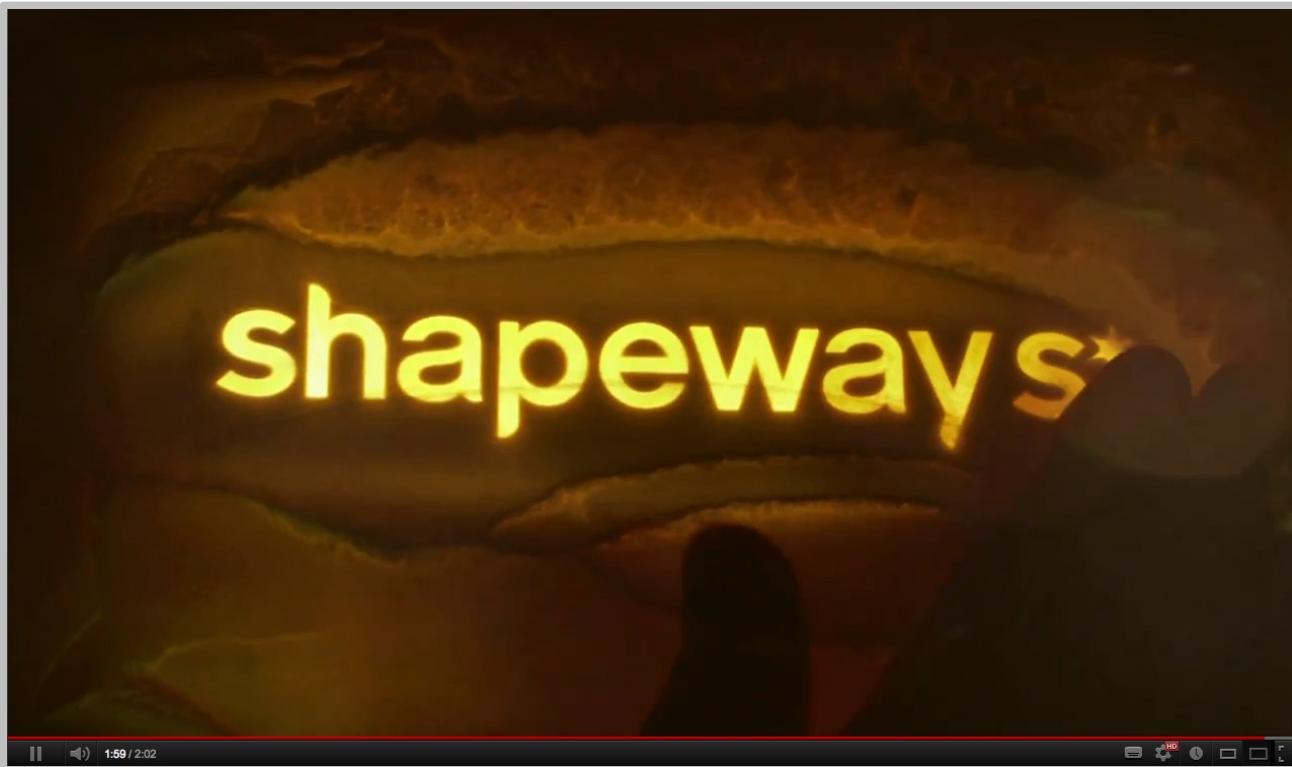
Shapeways (Netherlands/USA)



Online service and marketplace (open your own shop) with 3D printing.

Source: <http://www.shapeways.com/blog/archives/1442-Funding-the-Rise-of-Creative-Commerce.html>

Shapeways (Netherlands)



Online service and marketplace (open your own shop) with 3D printing.

Source: http://www.youtube.com/watch?feature=player_embedded&v=qJuTM0Y7U1k

i.materialise (Belgium)

The screenshot shows the homepage of i.materialise. At the top, there's a navigation bar with links for Home, Creation corner, 3D print lab, Materials, Gallery, About us, and Blog. Below the navigation is a large banner featuring several 3D-printed objects made of metal, including a tall totem-like figure and a golden humanoid. The text "got metal ?" is prominently displayed, followed by "Yes, we do!" and a list of materials: Titanium, Brass, Bronze, Stainless steel, Gold plated stainless steel, Silver and Gold. Below the banner is a section titled "WHAT CAN I DO HERE?" containing two main options: "3D print your designs" and "Sell your designs". Each option has an associated image and a brief description.

i.materialise

Home | Creation corner | 3D print lab | Materials | Gallery | About us | Blog

got metal ?

Yes, we do!

Titanium, Brass, Bronze, Stainless steel,
Gold plated stainless steel, Silver and Gold.

WHAT CAN I DO HERE?

Upload and Order

3D print your designs

Upload your 3D design and instantly see the price for your models. It's that easy.

- No login necessary
- Choose from a large selection of materials and colors
- Scale your model to the ideal size
- Order as many copies as you want

Sell your designs

Want to show off your design talent and make some money at the same time? Offer your designs for sale in our gallery and once a month, we will pay you a fee for every one of your items sold.

Online service and marketplace (open your own shop) with 3D printing.

Source: <http://i.materialise.com/>

Sculpteo (France)

Sculpteo.com | Stores | Workshops | Blog | Professionals

English | Français | Login | Register

sculpteo | 3D Printing

Home Services Materials Support Cloud Engine App FAQ Upload a 3D file

POLISHED PLASTIC IS COMING ON STAGE

Get another feeling on your creations!
[Learn more on this material](#)



Innovative 3D printing service for creative people

3D Print easily
Upload your 3D file and have it printed by Sculpteo.
[Upload 3D file](#)



Design at your fingertips
We develop online 3D tools and workshops to give you the best 3D printing results. Try them !
[Create objects](#)



Sell your creations
Open your store in our 3D printing marketplace. Sell your creations and get benefits.
[Open your store](#)



Get inspired
Browse our designers' collections, get inspired and have them 3D printed !
[Visit Designers Stores](#)



Get in touch
Keep in touch with Sculpteo with our monthly newsletter.
Enter your email

PARTICULE¹⁴
PARTICULE 14 PROJECT FOR INTERNATIONAL DESIGN WEEK OF MILAN
[Learn more](#)

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News
Sept. 5, 2012 How-To 3D Print Glasses
Cordavi is a student at San Jose State University studying Digital Media Arts, and an avid user of T...

Online service and marketplace (open your own shop) with 3D printing.

Source: <http://www.sculpteo.com/en/>

Inventables (USA)

INVENTABLES®
The Hardware Store for Designers

Search by keyword or part number

Sheet Materials

LASER CUTTING

- Accessories
- Acrylic Sheets
- Cuttable Sheets
- Laser Cutters
- Wood

INNOVATIVE MATERIALS

- 3D Printer Filament
- Coatings
- Components
- Electrical & Light
- Magnets
- Molding Materials
- Unexpected Properties

RAW MATERIALS

- Films
- Foam
- Gel
- Glass
- Glow in the dark
- Metal
- Paper & Cardboard
- Pigments
- Plastic & Rubber
- Textiles, Thread & Yarn
- Wax
- Wood

HARDWARE

- Fasteners
- Tools

Sheet Materials

Acrylic Sheets
Over 100 varieties of acrylic sheets in various colors, sizes, styles and textures.

Wood Veneer
Thin veneers good for laminating and laser engraving

Anodized Aluminum
10 colors good for laser engraving

Cork Fabric and Sheet
4 paper thin cork patterns for cutting, gluing, and sewing

Hardware and Materials for Desktop Fabrication

MakerSlide Components
MakerSlide and Componentry for building machines

Machines
Machines for making, Shapeoko CNC Mill, 3D Printer, Laser Cutter

3D Printer Filament
8 colors of 1.75mm ABS and PVA filament

Molding Materials
Plastic, rubber, and putties for molding

Electrical & Light

Online store for materials, components and machines for digital fabrication and DIY.

Source: <https://www.inventables.com/>

Adafruit (USA)

The screenshot shows the Adafruit website homepage. At the top, there's a navigation bar with links for HOME, BLOG, FORUMS, SUPPORT, TUTORIALS, CHAT, VIDEOS, CONTACT, JOBS, and ABOUT. A search bar with a 'GO' button is also present. The main content area features a large image of an Arduino board with an NFC/RFID shield attached, demonstrating its use with a small blue NFC tag. Below this, there's a sidebar titled 'PRODUCTS' with a 'New Products [121]' section. This section lists various product categories with their counts: Android (6), Arduino (53) with sub-categories Boards & Packs (12), Shields (30), Accessories (11), BoArduino (8), Brain Machine (1), AVR Development (8), BeagleBone (20), Bunnie Studios (8), mbed (10), PIC (2), Breakout Boards (20), Clocks & Watches (12), Discover Electronics (1), Drawdio (3), EggBot (1), FLORA (18), FPGA (1), Fuzebox (3), littleBits (1), Game of Life (2), Microtouch (5), MiniPOV (3), MintyBoost (2), NETduino (12), Power supply (9), Propeller (11), Raspberry Pi (37), SIM reader (4), Snap Circuits (4), SpokePOV (10), TV-B-Gone (4), Tweet-a-Watt (5), XBee (10), Project packs (9), and RFID / NFC (12). Each item has a 'LEARN MORE' button. Below the sidebar, there's a section for 'Latest blog entries' with a link to 'Made in the UK! #piday #raspberrypi @Raspberry_Pi'. At the bottom of the page, there are three product cards: 'Drawdio kit' (\$17.50), 'Adafruit ARDX - v1.3 Experimentation Kit for Arduino (Uno R3)' (\$85.00), and 'XBee Adapter kit' (\$10.00), each with a 'LEARN MORE' button.

Online store of Open Hardware projects and electronic components.

Source: <http://www.adafruit.com/>

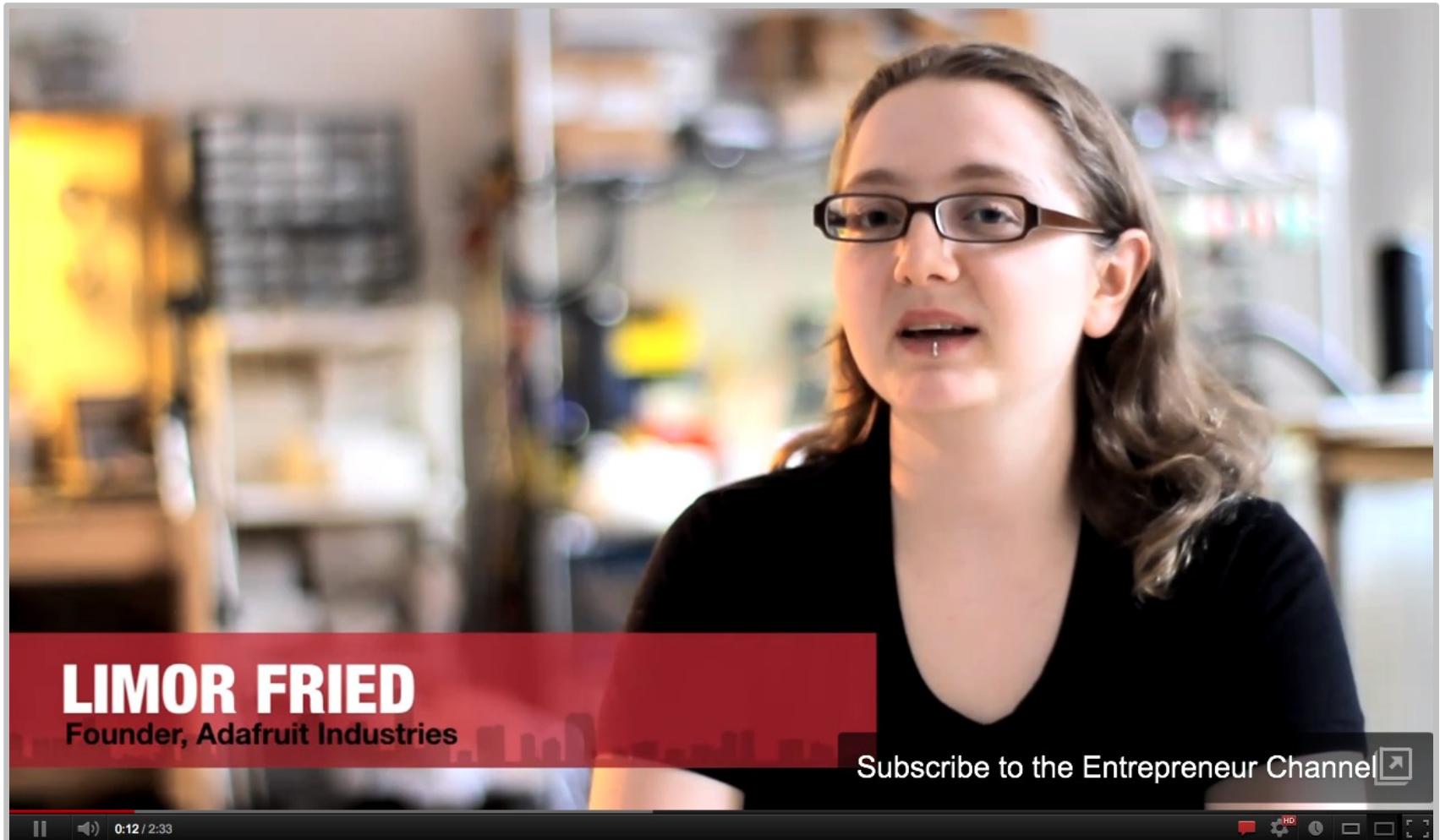
Adafruit (USA)



Online store of Open Hardware projects and electronic components.

Source: <http://www.youtube.com/user/adafruit>

Adafruit (USA)



Online store of Open Hardware projects and electronic components.

Source: <http://www.youtube.com/watch?v=qpYdt4hdEi8>

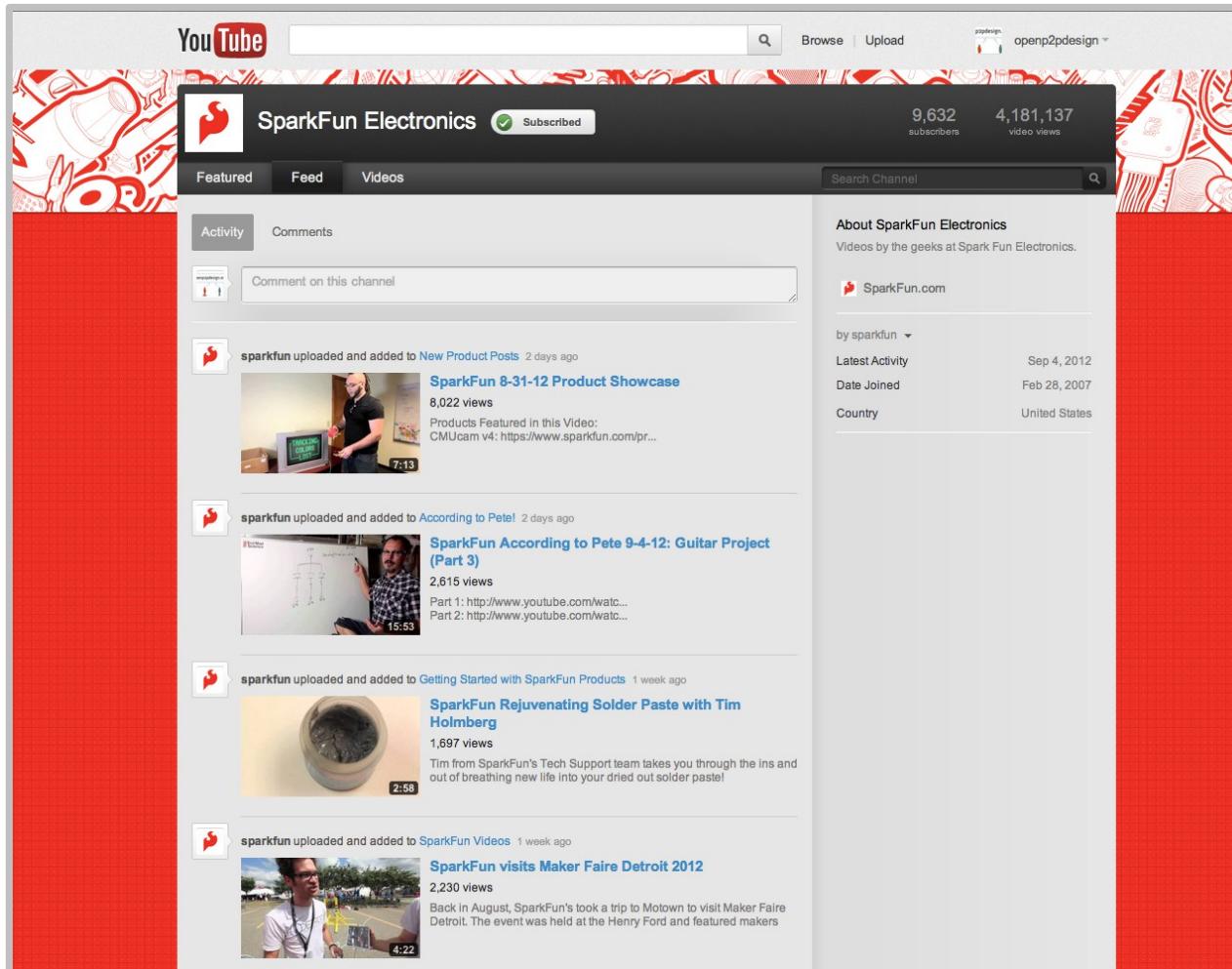
Sparkfun (USA)

The screenshot shows the Sparkfun USA website. At the top, there's a navigation bar with links for Products, Support, Tutorials, Distributors, About Us, Contact, and a search bar. The main content area features a banner for 'SPARKFUN APPROVED KICKSTARTERS' with a large red 'K' logo. To the left, a sidebar titled 'Categories' lists various product categories like New Products, Top Sellers, Featured Products, Gift Certificates, Classes & Events, Books, Breakout Boards, Cables, Cellular, Components, Development Tools, Dings and Dents, E-Textiles, Educators, GPS, Kits, LCDs, Port-O-Rotary, Programmers, Prototyping, Retail, Retired, Robotics, Sale, Sensors, Swag, Tools, Widgets, and Wireless. The central part of the page has a heading 'AVC 2013 - The Next Chapter' with a subtext about the competition's changes. Below this is a photograph of a person operating a quadcopter drone on a paved surface. To the right, there are sections for 'New Products' (listing an RGB LED Strip, LilyPad LED Purple, and Hook-Up Wire Assortment), 'Featured Products' (listing SparkFun Projects Case, LED - RGB Diffused Common Cathode, and Hackerspace Passport), and a 'What is BatchPCB?' section.

Online store of Open Hardware projects and electronic components.

Source: <http://www.youtube.com/user/adafruit>

Sparkfun (USA)



Online store of Open Hardware projects and electronic components.

Source: http://www.youtube.com/user/sparkfun?feature=results_main

Sparkfun (USA)



Online store of Open Hardware projects and electronic components.

Source: <http://youtu.be/dvvtRoBn4YM>

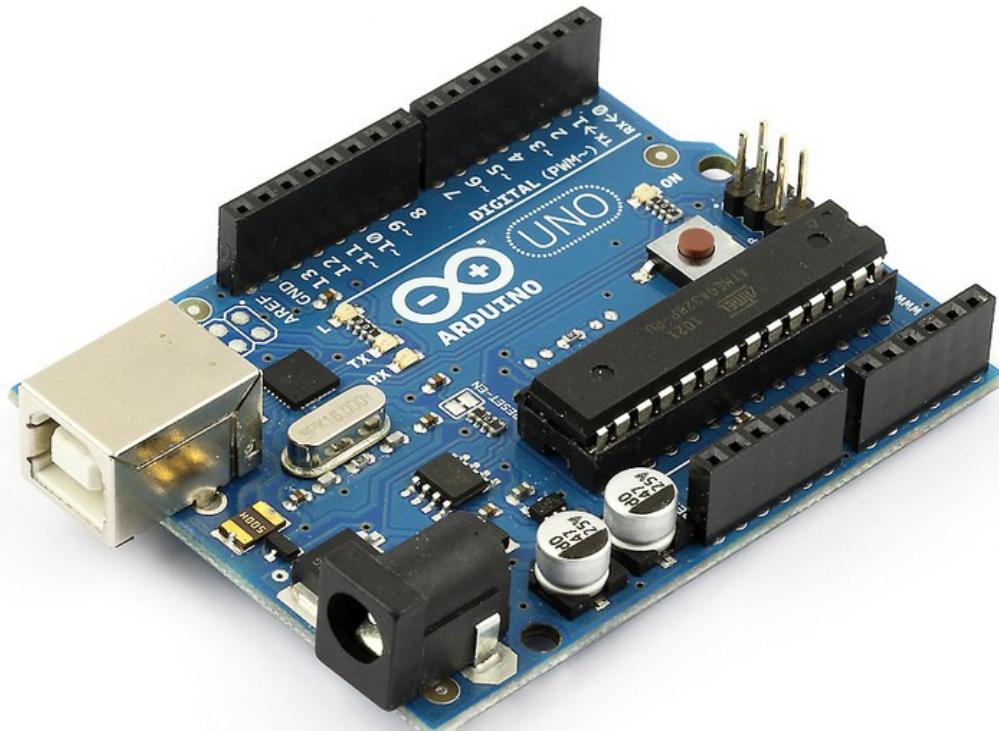
Sparkfun (USA)



Online store of Open Hardware projects and electronic components.

Source: http://youtu.be/xGhj_lNtd0

A physical platform: Arduino (Italy)



An Open single-board microcontroller and IDE designed to make the process of using electronics in multidisciplinary projects more accessible.

Source: <http://arduino.cc>

Crowdfunding: Kickstarter

?! What is Kickstarter? We're the world's largest funding platform for creative projects.

KICKSTARTER Discover great projects Start your project Search projects BLOG HELP SIGN UP LOG IN

like you!

We help people fund creative projects.

Kickstarter is the world's largest funding platform for creative projects. Every week, tens of thousands of amazing people pledge millions of dollars to projects from the worlds of music, film, art, technology, design, food, publishing and other creative fields.

PLAY

START YOUR PROJECT

Find out how to make an awesome Kickstarter project

Each and every Kickstarter project is the independent creation of someone like you!

HOW KICKSTARTER WORKS

Our Simple Formula Kickstarter is a new form of commerce and patronage. In our world, the best way to inspire support is to offer people great rewards. Everyone loves limited editions, one-of-a-kinds, and fun experiences (parties, screenings, balloon rides!). Spend some time brainstorming your rewards and people will respond. No one needs another coffee mug.	Creative projects only Kickstarter cannot be used to fund for charity projects or causes. While there are countless causes worthy of support, we believe that creativity deserves its own space. See our guidelines for more.	<i>“...an unexpected influence on indie culture, a new model for a D.I.Y. generation.”</i> The New York Times
Where does the money come from? Each month millions of people visit	My ideas aren't “big and important.” Is Kickstarter for me? Absolutely! Kickstarter is for creative projects big and small, serious and whimsical, traditional and	

Kickstarter is the world's largest funding platform for creative projects.

Source: <http://www.kickstarter.com/start>

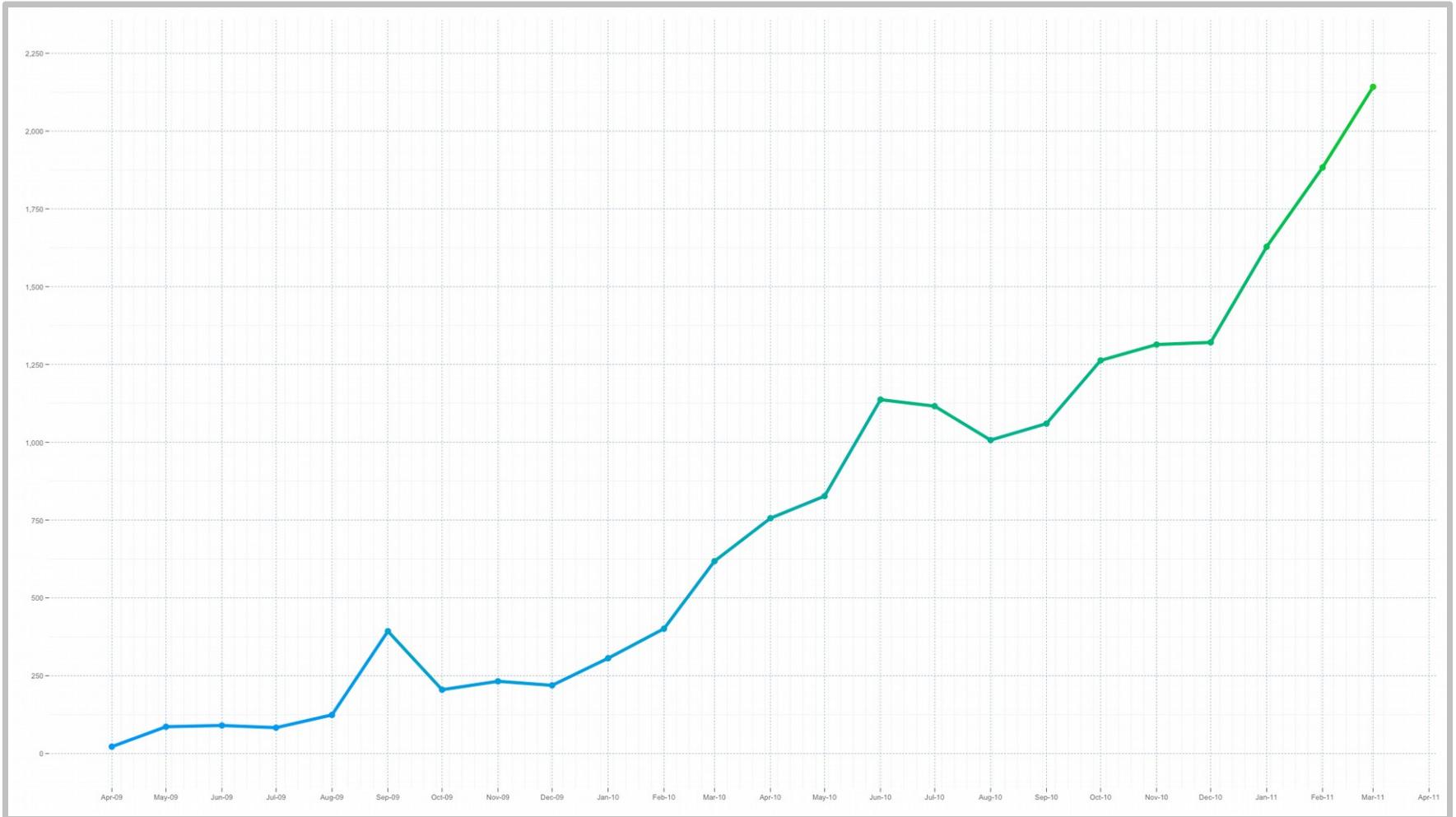
Crowdfunding: Kickstarter



Kickstarter is the world's largest funding platform for creative projects.

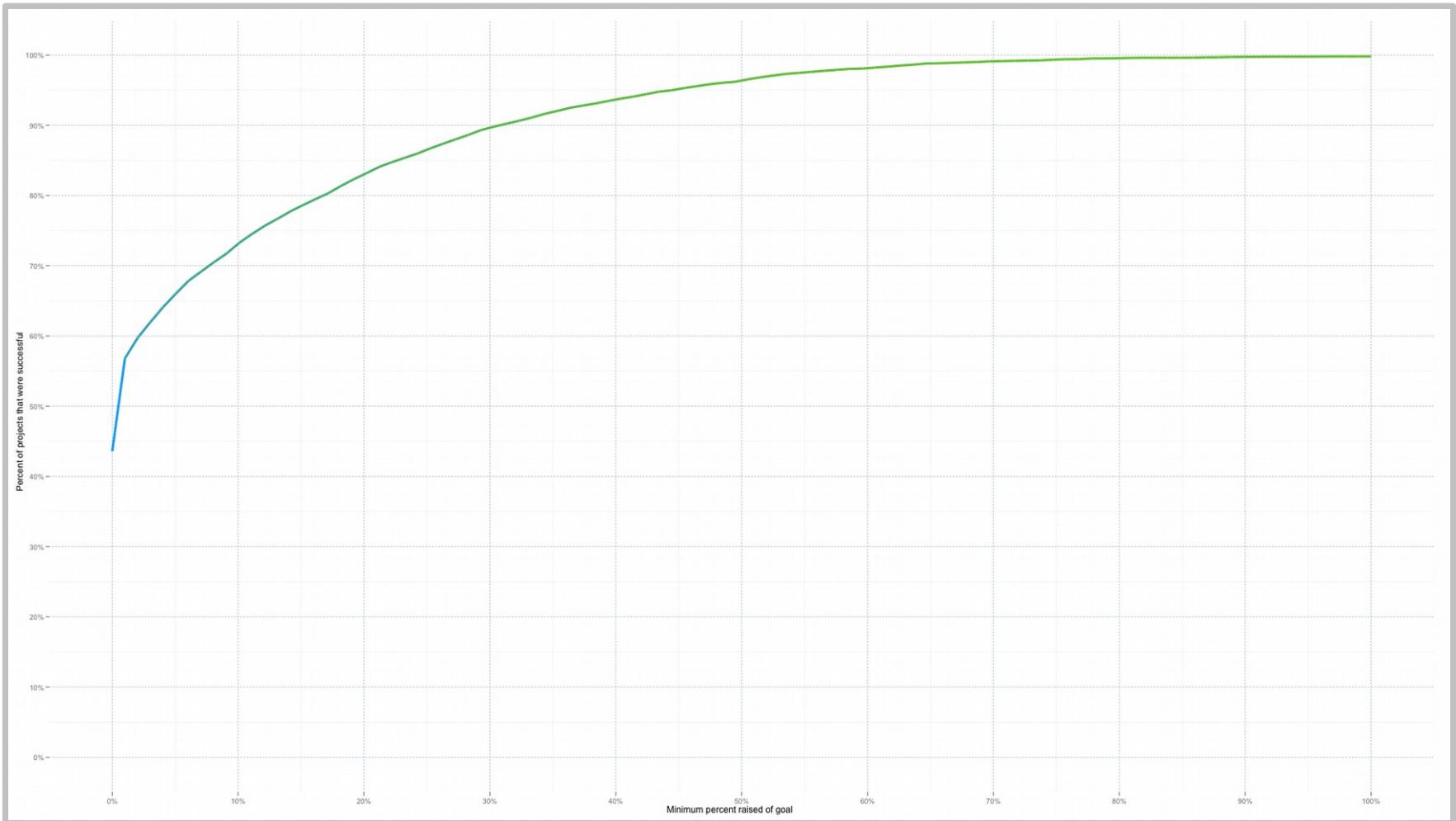
Source: <http://www.youtube.com/watch?v=lu0aNSZIsXc>

Crowdfunding: Kickstarter



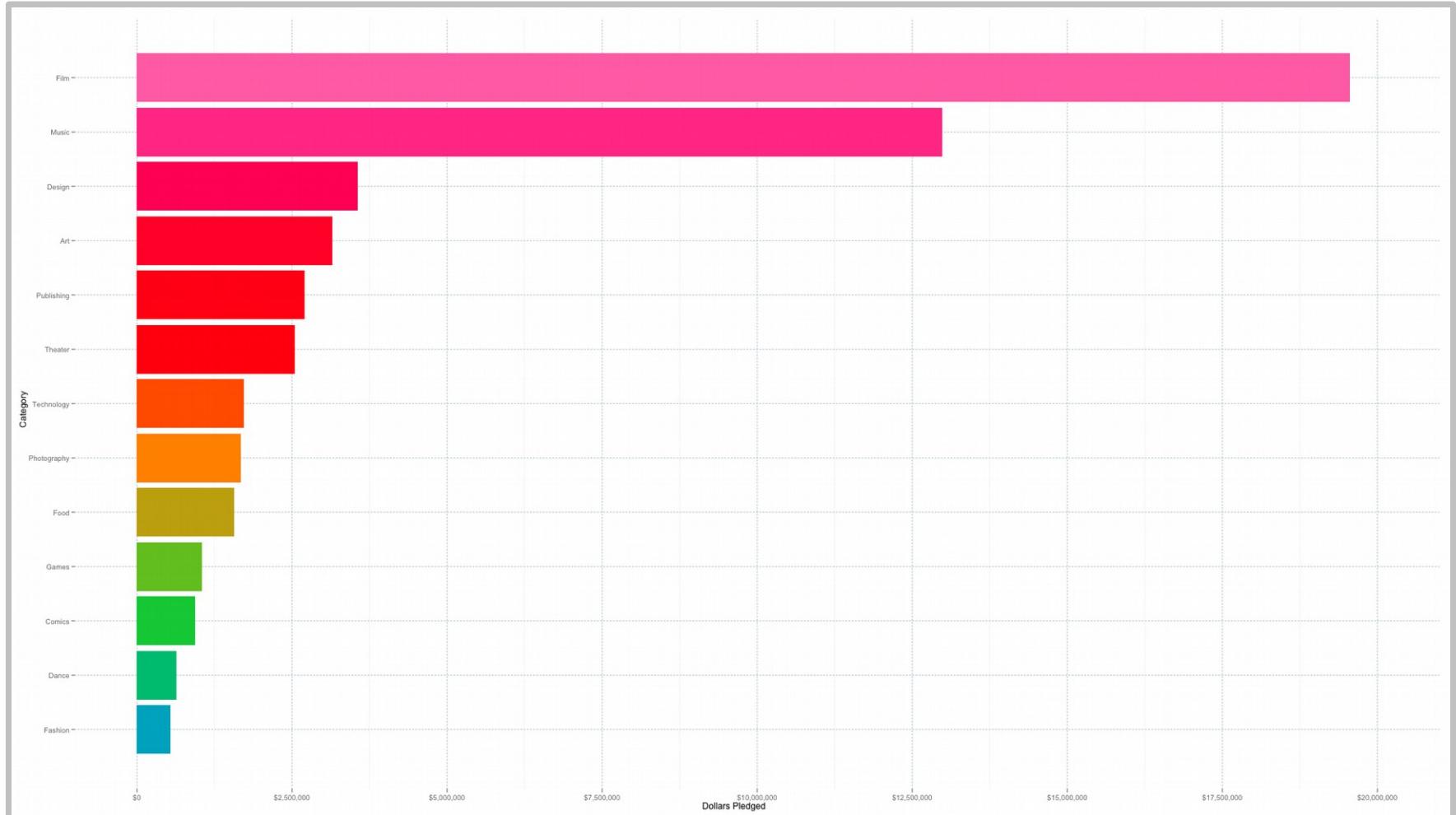
Projects launched: activity between April 28, 2009 - April 27, 2011.

Crowdfunding: Kickstarter



Projects that reach 30% of their funding goal succeed more than 90% of the time.
As the line turns green, the percent of projects that succeed approaches 100%.

Crowdfunding: Kickstarter



Film leads the pack with nearly \$20 million in pledges and Music follows with more than \$13 million. 10 of the 13 categories have seen more than \$1 million.

Kicktraq: analytics for Kickstarter

The screenshot shows the Kicktraq website interface for the "Ultra-Bot 3D Printer" project. At the top, the Kicktraq logo is displayed, followed by a search bar labeled "Find a project...". Below the search bar are navigation links: "What's New", "Browse", "Tools", "Hot List", and "Project Owners".

The main content area features a large banner for the "Ultra-Bot 3D Printer" project. The banner includes the project title, a thumbnail image of the printer, and a status indicator: "STATUS: ACTIVE". It also displays the current pledge level (\$12,737), the percentage of goal reached (169% OF GOAL), and the trend towards the goal (\$131,616 TRENDING TOWARD). The funding progress bar shows a green segment for the current trend and a grey segment for the overall goal.

Below the banner, there are tabs for "Funding Progress", "Pledges & Backers By Day", "[Exp] Projection", "[Exp] Trend", and "Share". A detailed funding progress chart is shown, plotting Pledged amount against time from September 5 to October 2. The chart shows a sharp increase in pledges starting around September 10, reaching a plateau near \$131,616 by October 2. A legend indicates that the green line represents the "Trending" value, which is 1754% of the goal.

At the bottom of the page, a copyright notice from 2012 states: "(c)2012 Kicktraq. Additional content provided by Kickstarter Inc. and William Steele. Trademarks and related content are owned by their respective companies. Shared under the creative commons (CC BY-NC 3.0) license. Read more about sharing this image at [www.kicktraq.com/projects/2105227104/ultra-bot-3d-printer/#sharing](#)".

Kickstarter is the world's largest funding platform
for creative projects.

Source: <http://www.kicktraq.com/> <http://www.kicktraq.com/projects/2105227104/ultra-bot-3d-printer/>

Kickstarter: is it rather a Medium?

FAST COMPANY

SUBSCRIBE | NEWSLETTER | SEARCH

MORE THAN **200** DESTINATIONS

Co.DESIGN Co.CREATE Co.EXIST Co.LEAD TECHNOLOGY

Kickstarter: Crowdfunding Platform Or Reality Show?

BY IAN BOGOST | JULY 18, 2012

It's QVC for the web generation, the new Thunderdome, Off Track Betting for ideas addicts. Whatever you call it, Kickstarter's becoming less about funding widgets than pouring gas on creative sparks just to watch them ignite.



On Kickstarter, we sell / fund more an experience than a product!

Lessons from / for Kickstarter

- * **Design for Simplicity:** reduce the functionalities / components
- * **Design for scale:** identify your possible supply chain and plan how to scale the production
- * **Treat it like a job:** it requires full time energy, and probably also a team work
- * **Befriend fellow hackers:** develop the project in hackerspaces or fablabs
- * **Leverage your backers:** use them not just for collecting money!

Some lessons from successful projects... “design for manufacturing”

Lessons from / for Kickstarter

- * **Set a spot-on funding goal – not too big, not too small:** set your Kickstarter goal near \$10,000: 38% of projects met their goals
- * **Don't take too long to raise your money:** The average Kickstarter campaign lasts for 30 days, with 35% of success
- * **Produce a slick video to get attention:** The nearly foolproof way to raise money on Kickstarter is to get the attention of the crowdfunding site's staff (89% success)
- * **Make at least 1,000 Facebook friends:** Founders with 1,000 Facebook friends or more can have a success up to 40%

Some lessons from successful projects...

Crowdfunding: Indiegogo

The screenshot shows the homepage of the Indiegogo website. At the top, there's a navigation bar with the Indiegogo logo, links for 'browse', 'learn', and 'create', and buttons for 'Sign Up' and 'Log In'. Below the navigation is a search bar. The main headline reads 'The world's funding platform. Go fund yourself.' A large image of a wooden geodesic dome under construction is displayed, with the caption 'New Alexandrian Library Project For Esoteric ...' and a progress bar showing '\$12,855 raised' and '4 days left'. To the right of the main content area are three buttons: 'BROWSE CAMPAIGNS' (with a magnifying glass icon), 'LEARN HOW IT WORKS' (with a document icon), and 'CREATE A CAMPAIGN' (with a lightbulb icon). Below the main image, there's a 'Final Countdown' section featuring four campaign cards:

- Mountain Rider Alliance** (SMALL BUSINESS): 'Support the Future of Skiing' by Mountain Rider's Alliance. Progress: 72% funded, \$7,230 raised, 45 hours left.
- Goodbye Promise** (FILM): '30 Days To One Million - The Worldwide Release of Goodbye Promise' by Karen Worden & David Branin. Progress: 0% funded, \$2,338 raised, 5 days left.
- #StopMonsanto** (ENVIRONMENT): 'StopMonsanto Film Project' by Stop Monsanto. Progress: 25% funded, \$37,404 raised, 8 days left.
- Greebo: Nippo Goblin and Turtles** (GAMING): 'Greebo: Nippo Goblin and Turtles' by Greebo miniatures. Progress: 186% funded, \$7,426 raised, 4 days left.

A crowdfunding platform based in California, it has hosted over 100,000 funding campaigns in areas such as music, charity, small business and film.

Source: <http://www.indiegogo.com/>

Crowdfunding for Open projects: Goteo

The screenshot shows the Goteo website homepage. At the top, there's a navigation bar with links for 'ABOUT GOTEZO', 'BLOG', 'FAQ', and 'ENG'. Below the navigation is a search bar and a 'LOG IN' button. The main header features the word 'OPEN' in large red letters, followed by '100% OPEN' in blue. To the right of this, there's a 'Like' button with '3.1k' likes. On the left, there's a featured project titled 'SMART CITIZEN - SENsoRES CIUDADANos' by 'Fab Lab Barcelona', which has obtained 12,778 € of 19,511 € over 12 days. Below this, there's a section titled 'HIGHLIGHTED' with three cards: 'PERIODISMO DE DATOS' (Technological, Communications), 'CIUDAD INTELIGENTE' (Social, Technological), and 'RECETAS ECO' (Social, Educational). Each card includes a small image, a brief description, and a progress bar. The 'PERIODISMO DE DATOS' card shows a map of Spain with fire locations and a progress bar from 4,650 € to 9,040 € over 14 days. The 'CIUDAD INTELIGENTE' card shows a progress bar from 8,938 € to 19,511 € over 12 days. The 'RECETAS ECO' card shows a progress bar from 5,697 € to 7,823 € over 29 days.

A crowdfunding platform for Open Projects, not just involving money but also time, participation and involvement from users.

Crowdfunding for local business: Smallknot

The screenshot shows the homepage of Smallknot. At the top, there's a navigation bar with the "SMALLKNOT" logo, "SIGN UP / LOGIN", and social media links for Facebook and Google+. Below the header is a large banner featuring a photograph of a wall covered in colorful, hand-painted letters spelling out words like "INVEST", "BUSINESSES", "AND", "NEIGHBORHOOD". Overlaid on the banner is the text "INVEST IN THE SMALL BUSINESSES THAT YOU LOVE IN YOUR NEIGHBORHOOD." and a blue "BROWSE LOCAL BUSINESSES" button. Below the banner, there are logos for "The New York Times", "Co.DESIGN", "CNNMoney", "TechCrunch", and "Inc.". A section titled "HOW THIS WORKS" contains four cards: "FIND A CAMPAIGN" (with a magnifying glass icon), "INVEST IN A BUSINESS" (with a coin icon), "RECEIVE A RETURN" (with a pie chart icon), and "SHARE THE LOVE" (with a heart icon). A blue "LEARN MORE" button is located at the bottom right of this section.

A new trend in crowdfunding: fund local projects and business to strengthen your local community.

Source: <http://www.smallknot.com/>

Crowdfunding for local business: LuckyAnt

The screenshot shows the homepage of the LuckyAnt website. At the top, there's a red header bar with social sharing icons (Facebook, Twitter, LinkedIn) and links for 'LOGIN' and 'SIGNUP'. Below the header is the 'LUCKY ANT' logo, which includes a small ant icon. A large, colorful illustration titled 'How Lucky Ant Works' depicts a city street scene with buildings, a factory, and a road with signs like 'W 45 ST', 'ONE WAY', 'NO STOPPING ANYTIME', and 'NO WAY'. Below the illustration is a video player showing a play button and a timestamp of '00:59'. To the right of the video player is a 'vimeo' logo. Underneath the illustration, a red text box contains the tagline: 'Lucky Ant helps local businesses get funds to grow by turning to you, their customers, for help.' Below this, there's a search bar with fields for 'Your Email (optional)', 'Brooklyn', and 'Clinton Hill - Fort Greene', followed by a red 'ENTER' button. At the bottom, there are three numbered steps: 1. 'Check out the project.', 2. 'Chip In.', and 3. 'Get Rewarded!'. Each step has a brief description and a small green circular icon.

SHARE f t in

LOGIN | SIGNUP

LUCKY ANT

How Lucky Ant Works

W 45 ST

ONE WAY

NO STOPPING ANYTIME

NO WAY

00:59

vimeo

Lucky Ant helps local businesses get funds to grow by turning to you, their customers, for help.

Your Email (optional)

Brooklyn

Clinton Hill - Fort Greene

ENTER

1. Check out the project.
Every week we bring you a project from a business in your neighborhood that needs to be funded.
2. Chip In.
When you see something you like, you can pledge money. Once the business reaches their goal, they will use that money to complete their project. We don't charge your card unless the business reaches its goal.
3. Get Rewarded!
You get rewards and perks from the business that you invested in like free stuff, behind the scenes access, and VIP treatment! You also get the satisfaction of having invested in your neighborhood!

A new trend in crowdfunding: fund local projects and business to strengthen your local community.

Source: <http://www.luckyant.com/>

Crowdfunding for local business: Brickstarter

**BRICK
STARTER**

BRICKSTARTER

- An Introduction
- Background
- Contact

[Facebook Like 57](#)

[Twitter Tweet 41](#)

An Introduction

Tietoa projektista suomeksi löytyy [tämän linkin](#) takaa. Tulevaisuudessa pyrimme toteuttamaan projektiin kaksikielisenä – kiitos kärsvällisydestä.

Brickstarter is about 21st century social services. We are sketching a system that would enable everyday people, using everyday technology and culture, to articulate and progress sustainable ideas about their community. The Brickstarter project explores the ideas behind these systems, and will provide the blueprints for a platform that can turn possibilities into proposals into projects. By creating its prototype, we aim to stimulate more productive debates about 21st century governance and local decision-making.



This blog captures our evolving knowledge of 21st century decision making as we develop the Brickstarter concept.

A new trend in crowdfunding: fund local projects and business to strengthen your local community. This is a Finnish example under development.

Source: <http://brickstarter.org/an-introduction-to-brickstarter/>

Crowdfunding for Finland: Mesenaatti.me

mesenaatti.me a better tomorrow!

**me
se
naatti
.me**

create,
fund
and
enable!

[suomeksi](#) | [in english](#) | [på svenska](#)

[ABOUT US](#)
[CREATE or FUND](#)
[TO JOIN](#)
[BECOME INVOLVED](#)
[FOLLOW US](#)
[MORE INFO](#)

Mesenaatti.me is the first open-for-everyone Finnish crowdfunding platform.

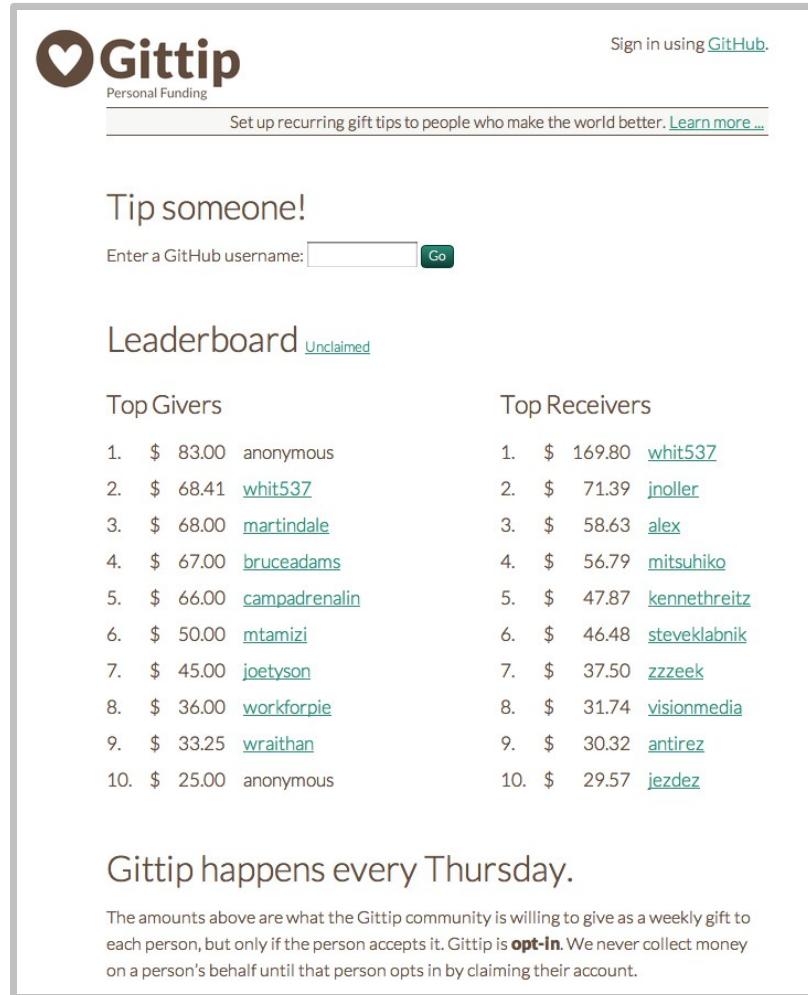
You don't have to be rich to make an impact: for only 10€ you can become a patron.

Mesenaatti.me enables you to join in funding projects that matter to you. Support your favorite artist's new project, participate in your neighborhood park renovation or an afternoon club for school children. Fund a movie or a book. You can also invest in an innovation business or participate in starting a new bakery in your village.

Mesenaatti.me also opens up new opportunities for creatives. By presenting your idea for the public you can raise funding from those who wish to see it realized. This simple tool is ideal for funding art, culture, innovation and social projects. It enables totally new kind of activity & economy in which anyone with a great project may raise funding.

Mesenaatti.me is the first open-for-everyone Finnish crowdfunding platform.

GitHub as a platform: Gittip



The screenshot shows the Gittip homepage. At the top left is the Gittip logo with a heart icon and the word "Gittip". Below it says "Personal Funding". At the top right is a "Sign in using GitHub" button. A banner below the header reads "Set up recurring gift tips to people who make the world better. [Learn more ...](#)". The main section is titled "Tip someone!" with a search bar for "Enter a GitHub username" and a "Go" button. Below this is a "Leaderboard" section with two tables: "Top Givers" and "Top Receivers", each listing 10 users with their tip amounts. A note at the bottom states: "Gittip happens every Thursday. The amounts above are what the Gittip community is willing to give as a weekly gift to each person, but only if the person accepts it. Gittip is **opt-in**. We never collect money on a person's behalf until that person opts in by claiming their account."

Rank	Amount	User
1.	\$ 83.00	anonymous
2.	\$ 68.41	whit537
3.	\$ 68.00	martindale
4.	\$ 67.00	bruceadams
5.	\$ 66.00	campadrenalin
6.	\$ 50.00	mtamizi
7.	\$ 45.00	joetyson
8.	\$ 36.00	workforpie
9.	\$ 33.25	wraithan
10.	\$ 25.00	anonymous

Rank	Amount	User
1.	\$ 169.80	whit537
2.	\$ 71.39	jnoller
3.	\$ 58.63	alex
4.	\$ 56.79	mitsuhiko
5.	\$ 47.87	kennethreitz
6.	\$ 46.48	steveklabnik
7.	\$ 37.50	zzzeek
8.	\$ 31.74	visionmedia
9.	\$ 30.32	antirez
10.	\$ 29.57	jezdez

A web service built on top of GitHub, it enables users to thank / give money to their favourite developers / projects.

Source: <https://www.gittip.com/>

GitHub: Goteo as open source Crowdfunding

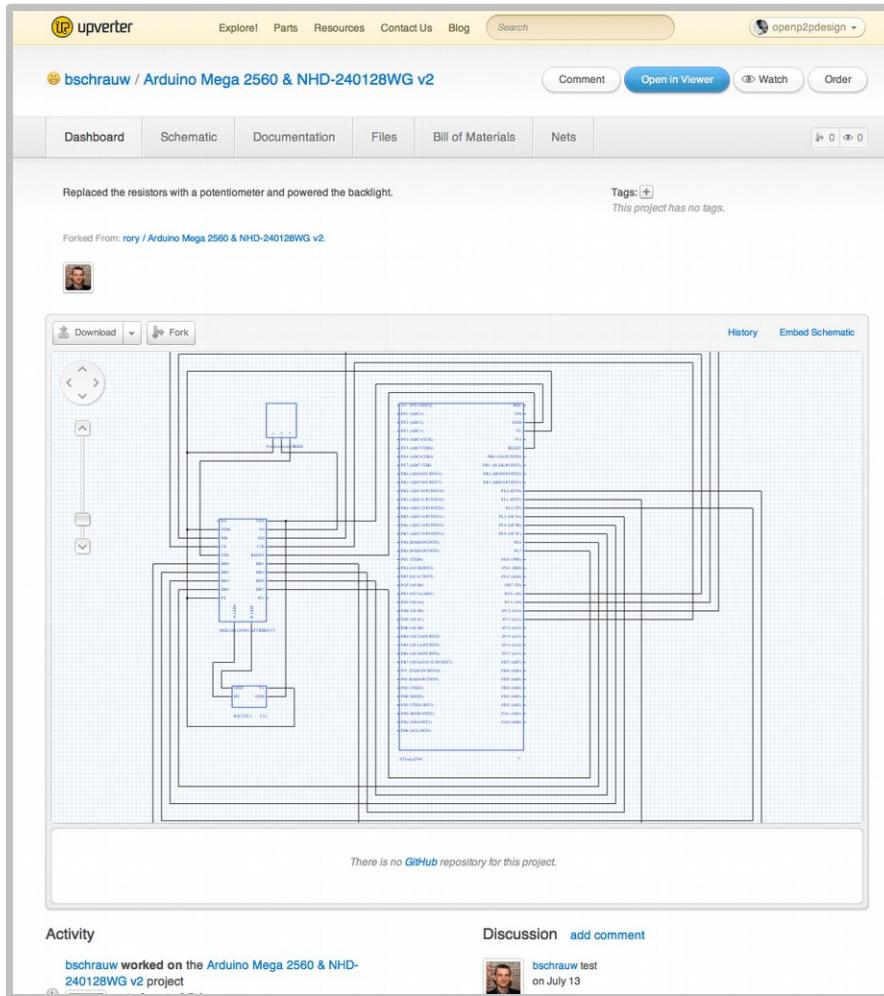
The screenshot shows the GitHub repository page for 'Goteo / Goteo'. The repository is public and has 8 issues and 3 forks. The 'Code' tab is selected, showing a note about the code being released under the terms of goteo.org. Below this, there's a 'Clone in Mac', 'ZIP', 'HTTP', and 'Read-Only access' button. The commit history table lists various files like controller, core, data, db, doc, library, logs, model, view, and .htaccess, all authored by 'Goteo' within the last three months. Each commit includes a message describing its purpose.

name	age	message
controller	3 months ago	Controllers [Goteo]
core	3 months ago	The core files [Goteo]
data	3 months ago	Default images [Goteo]
db	a month ago	Script with texts and translations up to date. Not included in goteo.... [Goteo]
doc	2 months ago	A brief installation guide [Goteo]
library	3 months ago	Various code libraries [Goteo]
logs	3 months ago	The main files: dispatcher, config, htaccess and logs folder [Goteo]
model	3 months ago	Models [Goteo]
view	3 months ago	Views: html, css, js and assets [Goteo]
.htaccess	3 months ago	The main files: dispatcher, config, htaccess and logs folder [Goteo]

The crowdfunding platform for Open projects
is itself an open project!

Source: <https://github.com/Goteo/Goteo>

Upverter: design hardware, with GitHub



Upverter is a design and collaboration platform for students, engineers, designers, makers and hackers for making hardware online.

Source: <http://upverter.com>



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03.

The business of Digital Fabrication, Open Design and DIY



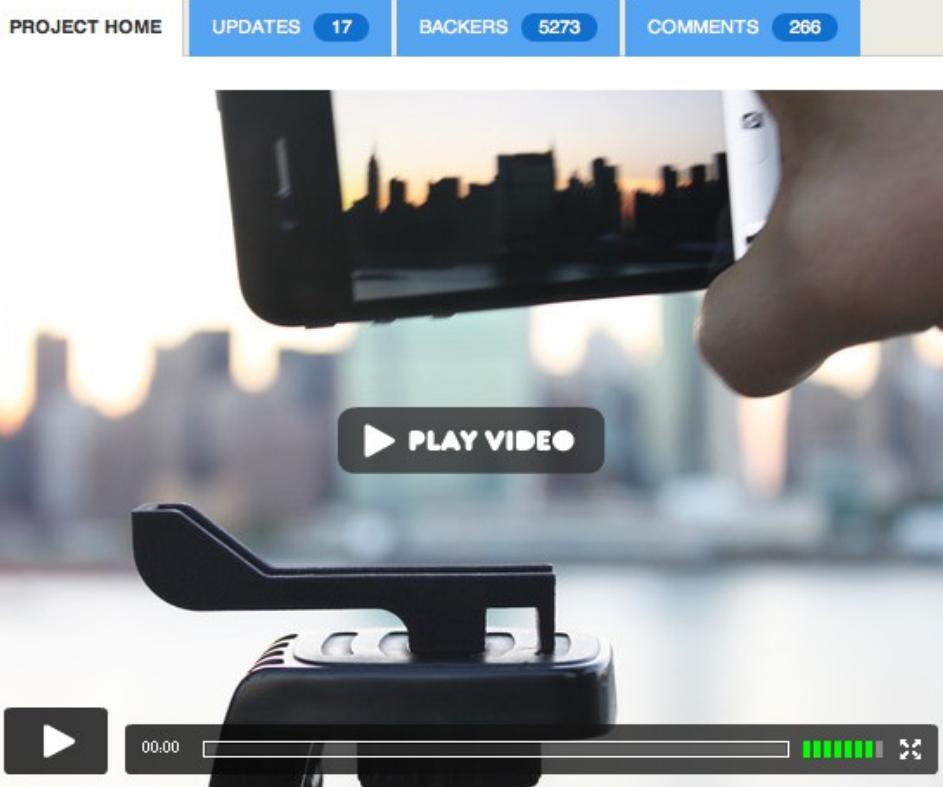
Aalto University

And designers can be entrepreneurs

Glif - iPhone 4 Tripod Mount & Stand

Project by Dan Provost & Tom Gerhardt • [send message](#)

1



5,273
BACKERS
\$137,417
PLEDGED OF \$10,000 GOAL

0
SECONDS TO GO

FUNDING SUCCESSFUL

This project successfully raised its funding goal on November 2. ✓

PLEDGE \$5 OR MORE

The sweet, sweet satisfaction of contributing to an awesome project. Plus,

New platforms for crowdsourcing allow you to fund your projects, and digital fabrication and FabLabs could be useful for manufacturing them.

Source: <http://www.kickstarter.com/projects/danprovost/glif-iphone-4-tripod-mount-and-stand>

And designers can be entrepreneurs

TikTok+LunaTik Multi-Touch Watch Kits

Project by Scott Wilson • [send message](#)

PROJECT HOME UPDATES 39 BACKERS 13512 COMMENTS 4140



13,512
BACKERS
\$941,718
PLEDGED OF \$15,000 GOAL
0
SECONDS TO GO

FUNDING SUCCESSFUL
This project successfully raised its funding goal on ✓ December 16.

New platforms for crowdsourcing allow you to fund your projects, and digital fabrication and FabLabs could be useful for manufacturing them.

Source: <http://www.kickstarter.com/projects/1104350651/tiktok-lunatik-multi-touch-watch-kits>

But “Open” alone is not enough

100K Stray Toasted Pull Toys

Project by C. Sven Johnson • [send message](#)

PROJECT HOME UPDATES 2 BACKERS 13 COMMENTS 2



100K Stray Toasted Pull Toys

13
BACKERS
\$765
PLEDGED OF \$7,500 GOAL
0
SECONDS TO GO

FUNDING UNSUCCESSFUL

This project reached the deadline without achieving its funding goal on November 1, 2009.



PLEDGE \$5 OR MORE

Open Source is a good strategy, but your project needs to be meaningful for enough people!

Source: <http://www.kickstarter.com/projects/1833785894/100k-stray-toasthed-pull-toys>

You need to interact with the market

threadless Tees Shop ▾ Participate ▾ Community ▾ Info ▾

\$10,000!
Submit your idea for a chance at 10K! ▶ Score 300 designs fo LEARN MORE ▾

Good Shirts Shop Guys | Shop Girly

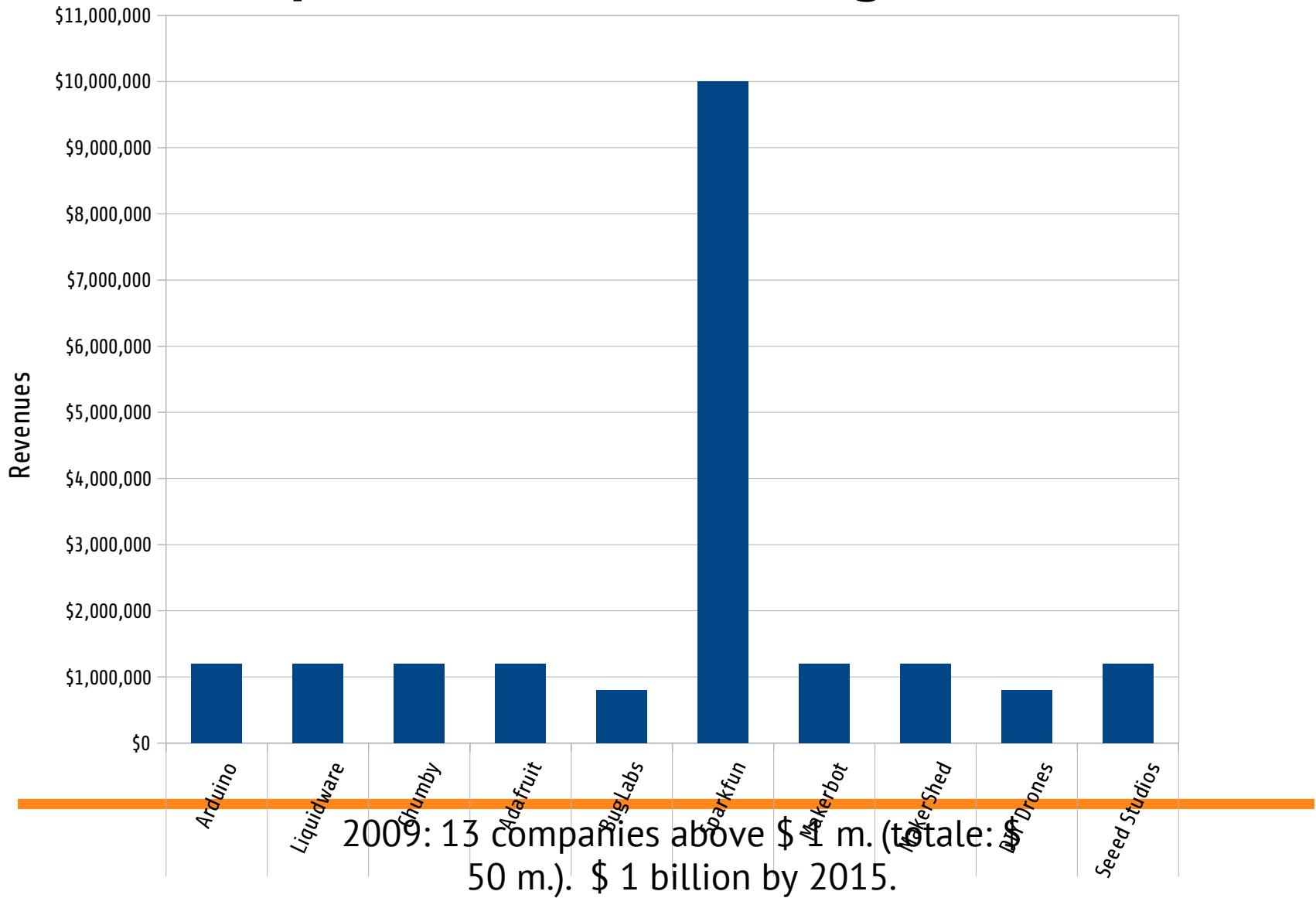


Design	Price	Author
Cargo Flight for UNICEF	\$300,000	by Justin & Christine Gignac
100 Metric Tons Of Corn Soy Blend for UNICEF	\$75,000	by Justin & Christine Gignac
Motorbike for UNICEF	\$3,064.82	by Justin & Christine Gignac
Emergency Tent for UNICEF	\$1,939.96	by Justin & Christine Gignac

... and this is exactly what new services and platforms enable!

Source: <http://www.threadless.com/>

Open Hardware: a rising market



Source: <http://blog.makezine.com/archive/2010/05/million-dollar-baby-businesses-de.html>

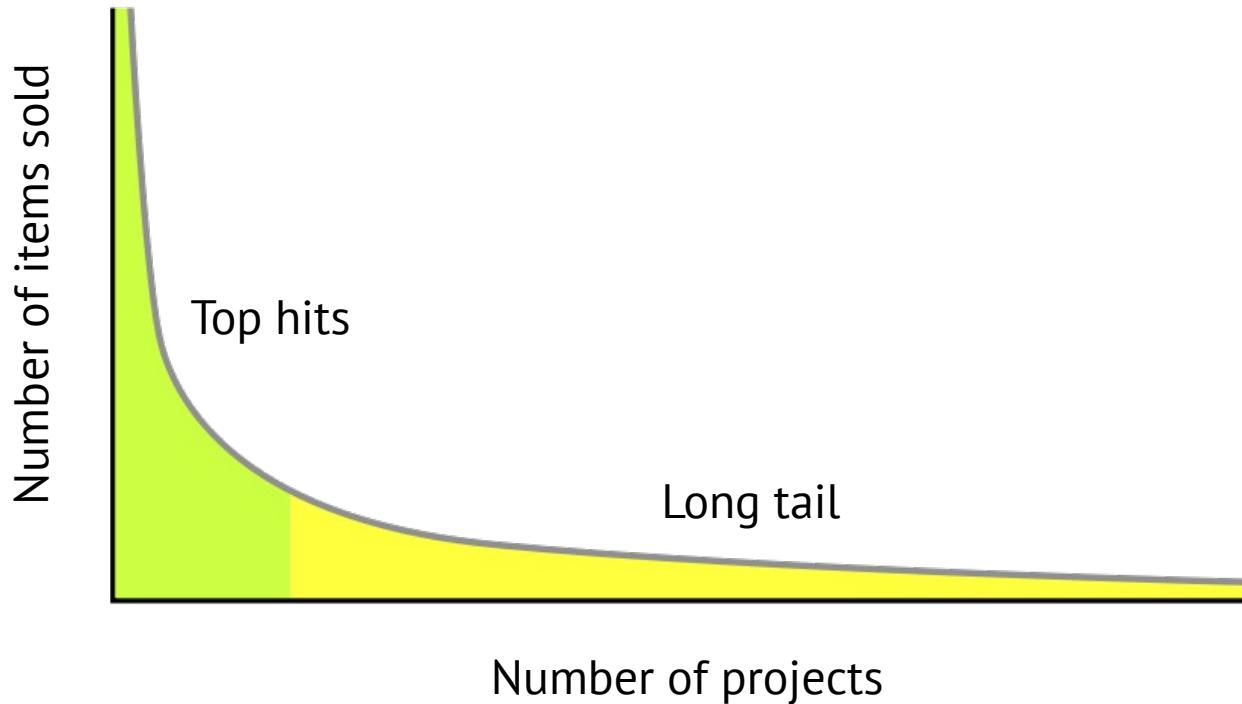
SparkFun



“In 2010, SparkFun had revenues of about \$18.4MM. As of April of 2011, we have around 120 employees, up from 87 a year ago.”

“We hope to grow by 50% this year (2011) to around \$28MM in sales. We expect to be in the 30-50MM range in the next 3-5.”

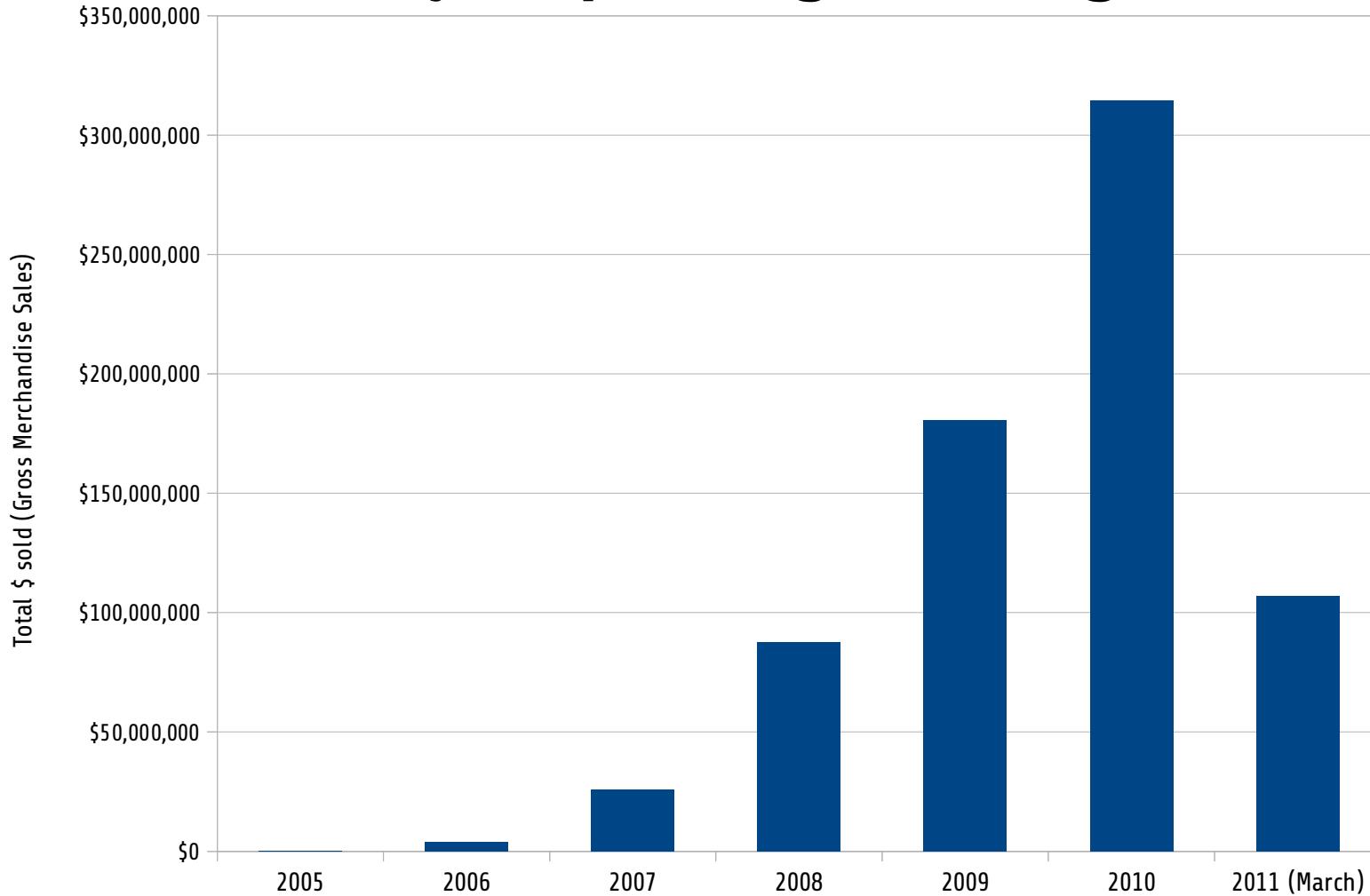
A long tail of users / projects...



Another big player, a marketplace for your DIY / Crafts projects (exploiting the long tail effect).

Source: http://en.wikipedia.org/wiki/Power_law

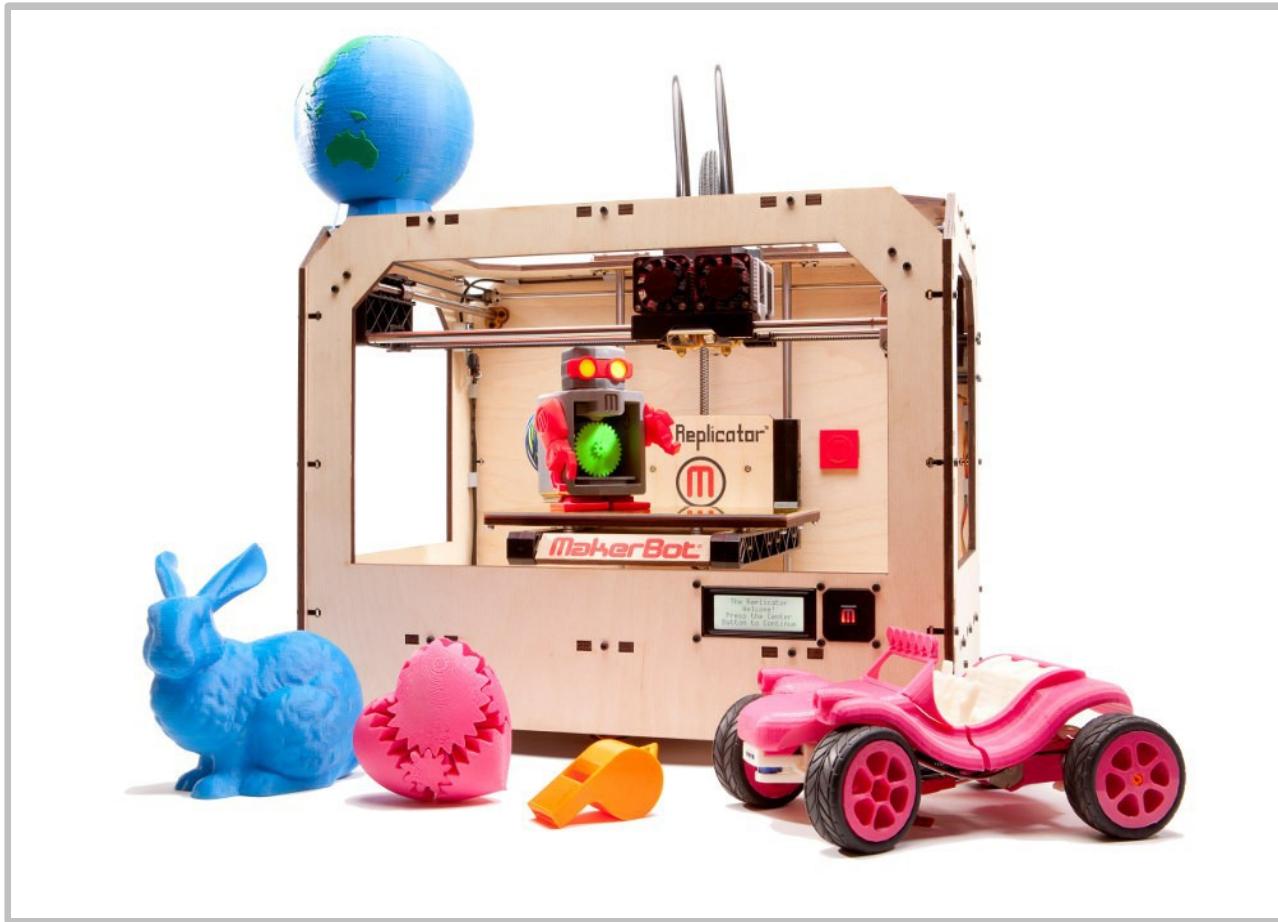
Etsy: exploiting the long tail



Users: +8 milioni / Active shops: +800,000
Products: 8.5 millions.

Source: <http://www.etsy.com/press/kit/>

Makers can create a startup: Makerbot



Started from an hackerspace (and from
RepRap, even financially).

Source: <http://www.flickr.com/photos/kellycdb/6168020183/>
<http://commons.wikimedia.org/wiki/Category:Wood>

The market of 3D printing

3D printing market has grown by 24.1% in 2011.
Forecasts: \$3.1 billions (2016) \$5.2 billions (2020).
(Wohlers Associates, 2011)



Sustainable business
--> \$10 Millions from VC



Not yet sustainable
--> \$5 Millions from VC

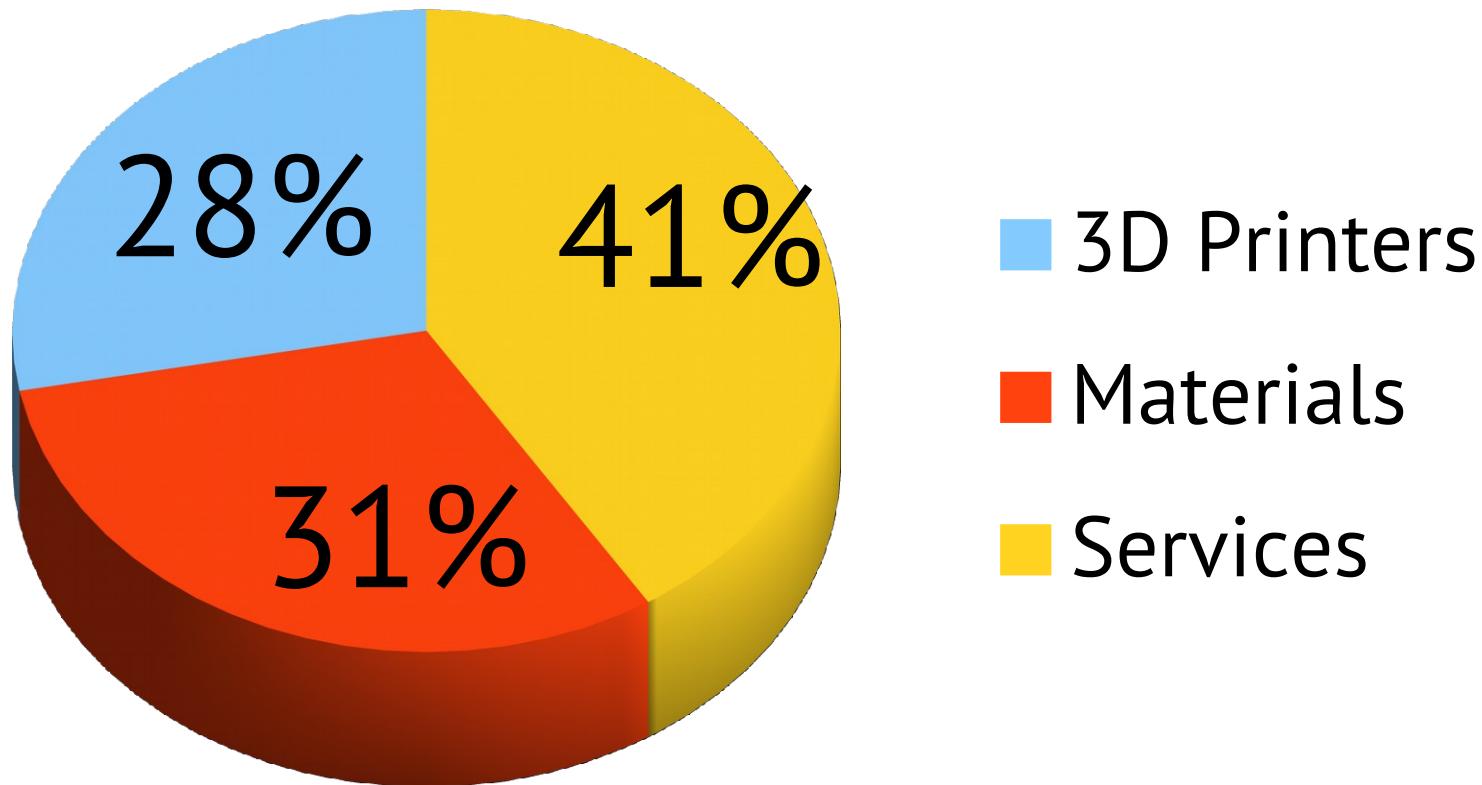
Big corporations: 3D Systems

The screenshot shows the homepage of 3D Systems' website. At the top, there's a navigation bar with links to About Us, Newsroom, Support, Investor Relations, Where to Buy, Contact, and a phone number (803.326.3900). There's also a language selection for English and a Google Custom Search bar. Below the header, a main banner features a hand holding a handheld device with a screen and buttons, with the word "Liberate" overlaid. The banner text reads: "Innovation that empowers ... complete freedom of design" and includes a "Read more »" button. To the right of the banner is a sidebar with sections for Announcements, News, and Connect With Us. The Announcements section highlights "Z Corporation Acquisition Completed!" with a subtext about complete 3D content-to-print solutions and a link to learn more. It also lists three bullet points: "Ideation To Manufacturing", "High Speed To High Resolution", and "Full Color To Fully Functional Parts". Below this is a thumbnail of a person holding a 3D printed part. The sidebar also includes a "News" section with a small icon and a "Connect With Us" section with another small icon. At the bottom of the page, there are links to Home, Contact, Sales Terms, Terms And Conditions, Privacy Statement, and Investor Relations. A copyright notice states "Copyright ©1997-2011 3D Systems, Inc. All rights reserved." Below the footer, there are social media icons for RSS, Facebook, YouTube, Twitter, LinkedIn, Google+, and StumbleUpon, along with a Google+ "share" button showing 20 shares.

Not only hackers or startups are in this field,
but even big and old companies.

Source: <http://www.3dsystems.com/>

Digital Fabrication: not just machines



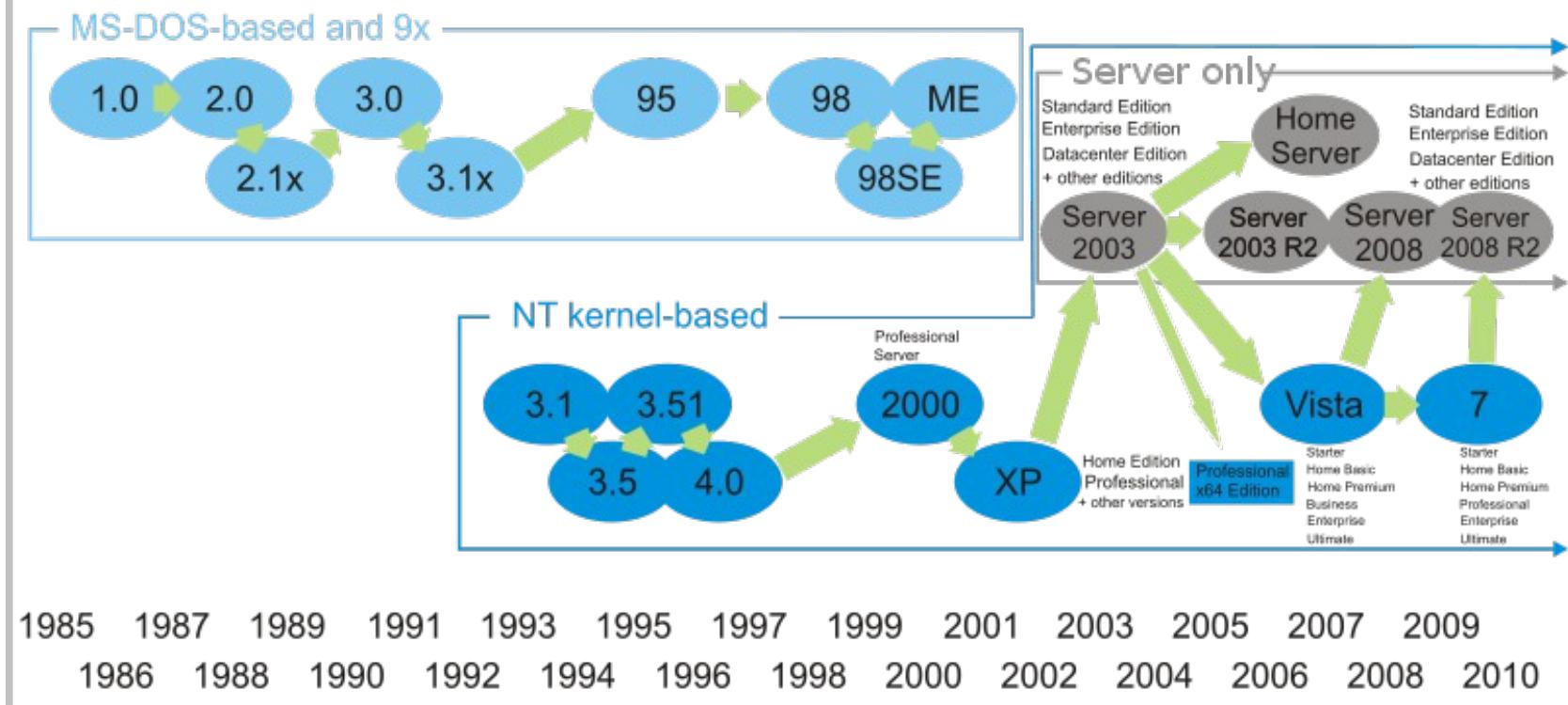
There are many ways for making money with
digital fabrication...

Source: <http://investor.3dsystems.com/>

A typical closed innovation system

Microsoft Windows

family tree



This is the typical evolution of a closed company...

Source: http://en.wikipedia.org/wiki/Timeline_of_Microsoft_Windows

1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007

Linux distro timeline

Version 7.2 by NPU (nonplusx@gmail.com)

For the latest version, visit kde-files.org

Feel free to modify and spread. Mail me for updates, corrections and source flw/xcf files

Based on "Línea del tiempo Distribuciones Linux" by A. Sandoval (microteknologias.cl)
Additional info: distrowatch.com/wikipedia.org

An open innovation system



GNU/Linux

And newer pictures are too big for a slide :-)

Source: <http://futurist.se/gldt/>

1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007

Look for what is becoming a *commodity*

A **commodity** is a good for which there is demand, but which is supplied without qualitative differentiation across a market. [...] the market treats it as equivalent or nearly so no matter who produces it.

Source: <http://en.wikipedia.org/wiki/Commodity>

Commoditization (also called commodification) occurs as a goods or services market loses differentiation across its supply base, often by the diffusion of the intellectual capital necessary to acquire or produce it efficiently. [...] a unique, branded product into a market based on undifferentiated products.

Source: <http://en.wikipedia.org/wiki/Commoditization>

Hardware and Software, becoming commodities

- * ('50s-'70s) **Hardware** is the product, software is for free:
mainframes
 - > Hacker ethic of sharing information
 - * ('80s-'90s) Hardware is commodity, **software** is the product and it's proprietary: personal computers
 - > Microsoft emerges
 - * ('00s...) Even software is a commodity, so let's **sell services and get data from users**: open source, web 2.0, services around software, software as service, the cloud
 - > web 2.0 emerges
-

Manufacturing and Design, becoming commodities

- * ('90s-'00s) Manufacturing becomes a commodity and slowly disappears in the West (thanks to China)
- * ('10s...) Now it's even more a commodity (thanks to Fabbing)
- * ('00s...) Professional design is slowly becoming a commodity (thanks to Fast Fashion, Ikea, design schools bubble, Shanzai)

--> Where is **value now**, in Design and Manufacturing?

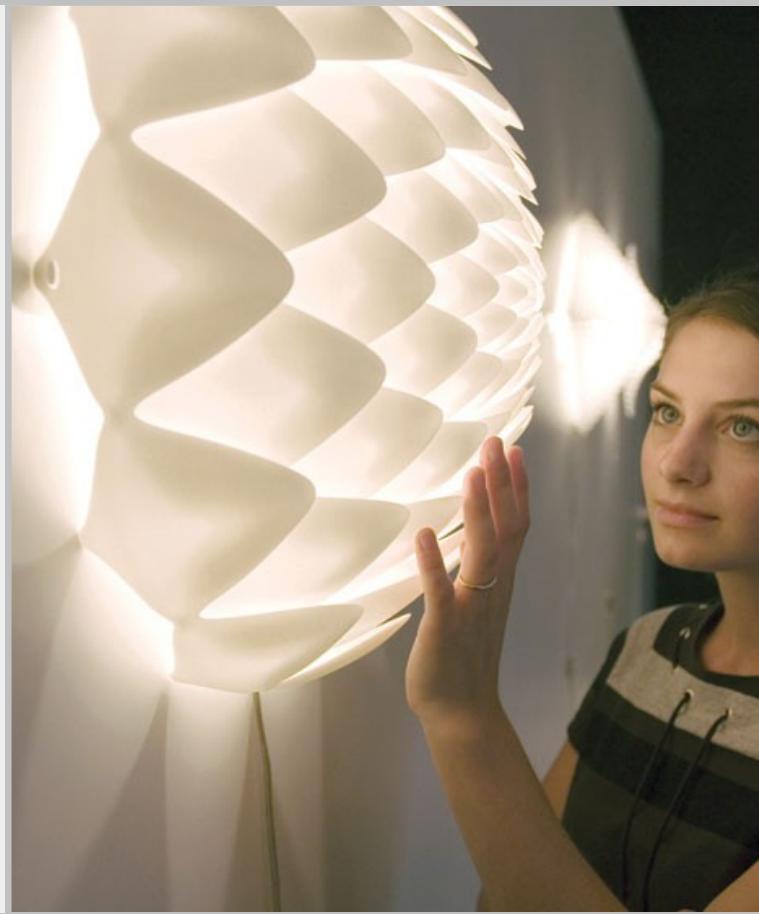
Fabbing + designers = \$\$\$ + Open Design

3D SYSTEMS ACQUIRES FREEDOM OF CREATION
FOC GENERAL 12.MAY.2011

3D Systems Corporation (NASDAQ: TDSC) announced today that it has acquired Freedom Of Creation (FOC), the pioneering 3D printing design company based in Amsterdam, The Netherlands. Click here for the official 3D Systems press release.



The image shows the logos for 3D Systems and Freedom Of Creation (FOC). The 3D Systems logo features a large, stylized '3' with diagonal stripes followed by the word 'SYSTEMS'. To its right is a red heart shape. Below this is the FOC logo, which consists of the letters 'FOC' in a bold, black, sans-serif font.



Big corporations love shopping Design companies for selling their content with 3D printers.

Source: <http://www.freedomofcreation.com/home/3d-systems-acquires-freedom-of-creation>

But even makers may be giving content away...

a MakerBot Industries website

THINGIVERSE

THINGS TOOLS TAGS BLOG

Welcome, friend.
Please [REGISTER](#) or [LOGIN](#) to rock.

Thingiverse is a place to share digital designs that can be made into real, physical objects. Let's create a better universe, together! | [UPLOAD A THING](#)

FEATURED



Botmobile Dune Buggy

Created by  makerbot

Created on Nov 24, 2011

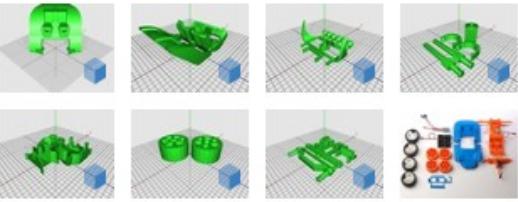
Featured on Nov 25, 2011

Order the Botmobile Kit from the MakerBot Store at store.makerbot.com/makerbot-botmobile.html and you'll have all the parts you need to get your printed Dune Buggy going in no time!

The wind in your hair... The sun on your face... The sand in your teeth... Everyone loves a day out cruising the dunes in their trusty Botmobile Dune Buggy!

The Botmobile Dune Buggy is an open source 3d printed remote control car that you can build at home. Using the Botmobile chassis the Dune Buggy was built from the ground up as a completely new type of remote control car

See video of the Botmobile Dune Buggy in action:
www.youtube.com/watch?v=JLjXWzTfZTc



The same strategy of giving content to the users of the 3D printers has been adopted by Makerbot.

Source: <http://www.thingiverse.com/>

Fabbing + designers = \$\$\$ + Open Design

The screenshot shows the Alibre website homepage. At the top, there's a navigation bar with links for "3D Software", "3D Printers", "Downloads", "Training & Support", "Successes", and "How to Buy". The main content area features a grid of images demonstrating various 3D CAD models, including a motorcycle, a green car, and a blue truck. To the right, there are several promotional boxes: one for "3D & 2D CAD Software" (described as professional and inexpensive), one for "3D Printers" (personal and professional printers starting at \$1699), one for "CAM Software" (completely integrated into their CAD software), one for "User Gallery & Community" (showcasing customer projects), and one for "CAD for Hobbyists" (described as powerful, inexpensive, and perfect for home users). A banner at the bottom left reads "3D CAD Software" and "Comprehensive 3D & 2D Design, Simulation, Rendering, and more...".

But even anybody could become a user, so let's buy
a design software and offer it to them.

Source: <http://blog.3dsystems.com/2011/05/3d-systems-partners-with-alibre.html>
<http://www.alibre.com/>

And users innovate (even in non open way)



Not developed by a company...

Source: <http://en.wikipedia.org/wiki/Skateboard>

Users innovate – a lot!

“We find this previously unmeasured type of household sector innovation to be quite large: 6.2% of UK consumers - 2.9 million individuals - have engaged in consumer product innovation during the prior 3 years. In aggregate, consumers’ annual product development expenditures are 2.3 times larger than the annual consumer product R&D expenditures of all firms in the UK combined.”

Eric A. Von Hippel, Jeroen De Jong, Steven Flowers

Comparing Business and Household Sector Innovation in Consumer Products: Findings from a Representative Study in the UK

http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1683503

Business Models for Open Data

- 01. Premium Product / Service:** Paid access to data
 - 02. Freemium Product / Service:** Paid access to data
 - 03. Open Source:** Data is free, services are paid
 - 04. Infrastructural Razor & Blades:** Offer whole infrastructure and the tools
 - 05. Demand-Oriented Platform:** Google for data, for who looks for data
 - 06. Supply-Oriented Platform:** Platform for who offers data
 - 07. Free, as Branded Advertising:** Brand advertising through free data/tools
 - 08. White-Label Development:** Product that will be rebranded by others
-

Business Models for Big Data

01. Information based differentiation:

- 01a.** Create new service offerings
- 01b.** Satisfy customers
- 01c.** Provide contextual relevance

02. Information based brokering:

- 02a.** Sell raw information
- 02b.** Provide benchmarking
- 02c.** Deliver analysis and insights

03. Information based delivery networks

- 03a.** Foster marketplaces
 - 03b.** Drive deal making
 - 03c.** Enable advertising
-



Aalto University

03.

Business models for Open projects



Aalto University

Business models of Open Source (software)

Non-monetary incentives:

- * problem solving
- * ethical questions
- * education + learning
- * reputation --> social interactions + jobs

--> it's not just about money! Also a **gift economy**

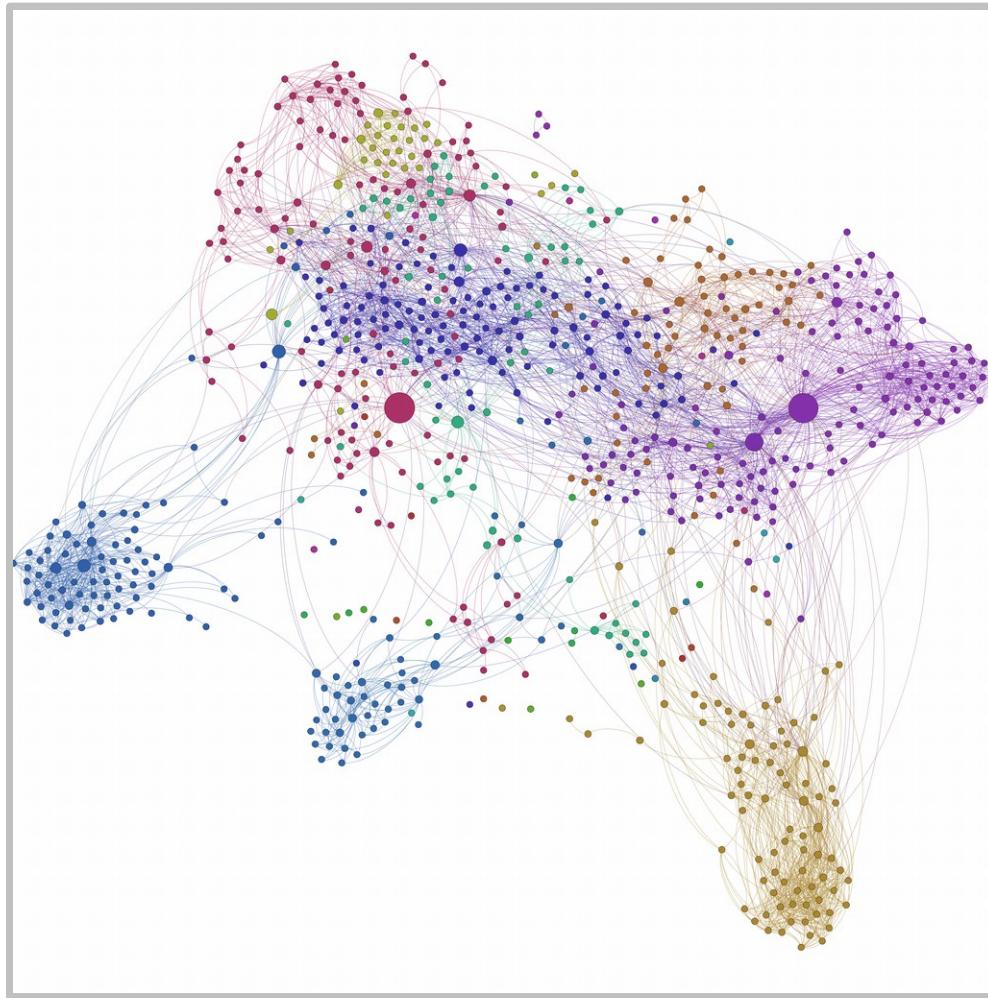
A gift economy



A mode of exchange where valuable goods and services are regularly given without any explicit agreement for immediate or future rewards.

Source: http://en.wikipedia.org/wiki/Gift_economy

A gift economy: focus on social networks



Flows of good and services are important only for maintaining and improving social networks in the community.

Source: http://en.wikipedia.org/wiki/Gift_economy

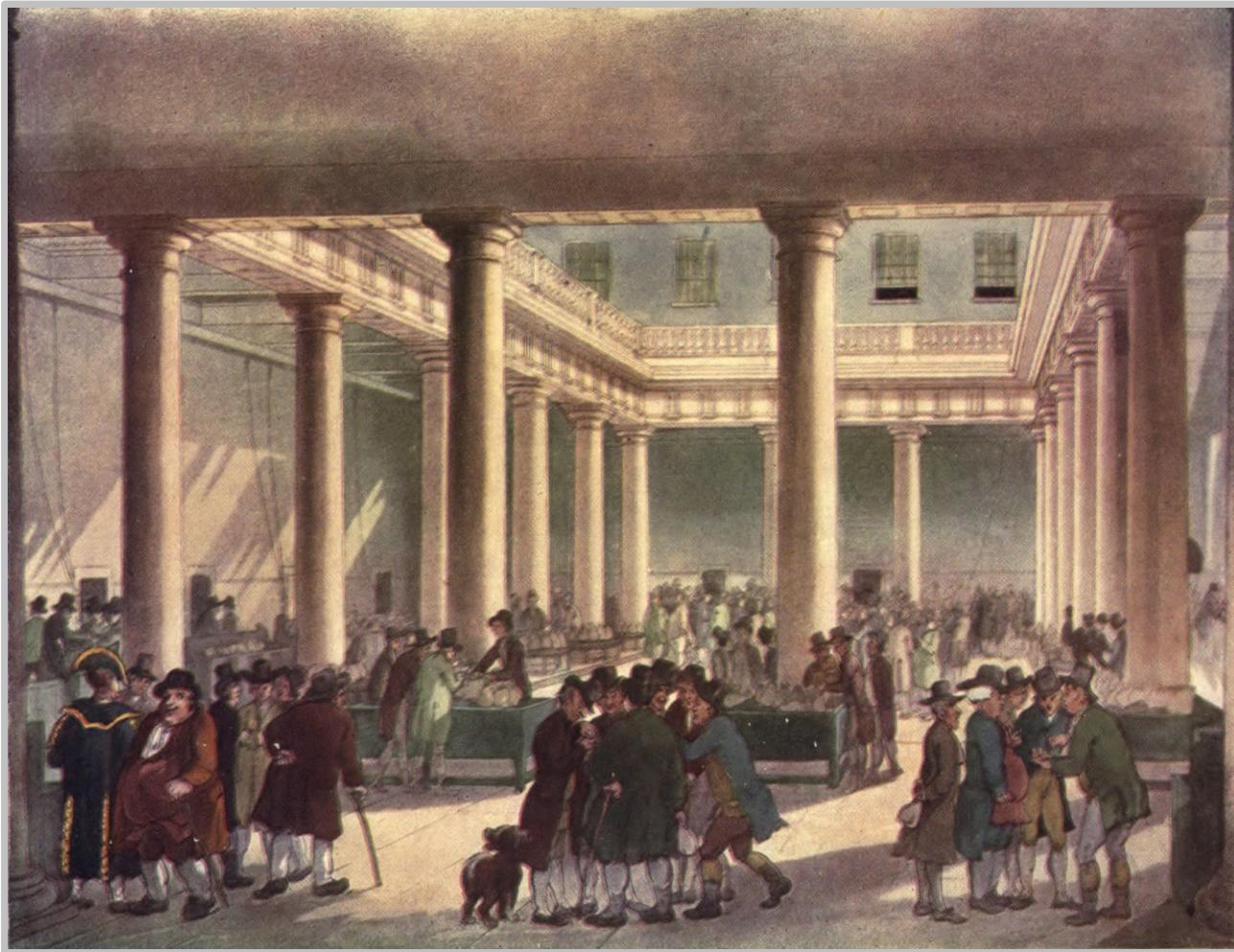
Business models of Open Source (software)

Monetary incentives:

- * selling software (as open or even with dual licensing)
- * offering services (customisation, support, ...)
- * paid developer work
- * donation
- * software as service (freemium, ...)
- * embedding software into hardware

--> ... it's not just only volunteer work! Also a **market economy**

A market economy



Decisions regarding investment, production and distribution are based on supply and demand and the prices are determined in a free price system.

Source: http://en.wikipedia.org/wiki/Market_economy http://en.wikipedia.org/wiki/Market_economy

A market economy: barter



A method of exchange by which goods or services are directly exchanged for other goods or services without using a medium of exchange, such as money.

Source: <http://en.wikipedia.org/wiki/Barter>

A market economy: money as medium



The main functions of money are distinguished as: a medium of exchange; a unit of account; a store of value.

Source: <http://commons.wikimedia.org/wiki/Category:Coins>

Business models of Open Source (software)

Red Hat

first open source company expected to break through the \$1bn mark in 2011.[Source: http://www.channelregister.co.uk/2011/03/24/redhat_q4_f2011_numbers/](http://www.channelregister.co.uk/2011/03/24/redhat_q4_f2011_numbers/)

Cost of developing Linux

The Linux Foundation (LF) (2008): \$10.8 billion to build the Linux community distribution Fedora 9 in today's dollars with today's software development costs.

\$1.4 billion to develop the Linux kernel alone.

[Source: http://www.linuxfoundation.org/sites/main/files/publications/estimatinglinux.html](http://www.linuxfoundation.org/sites/main/files/publications/estimatinglinux.html)

The levels of openness in Open Hardware

1. **Closed:** any hardware for which the creator of the hardware will not release any information.
2. **Open Interface:** all the documentation on how to make a piece of hardware perform the function for which it is designed is available (minimum level of openness).
3. **Open Design:** in which enough detailed documentation is provided that a functionally compatible device could be created by a third party.
4. **Open Implementation:** the complete bill of materials necessary to construct the device is available.

Patrick McNamara defined 4 possible levels of Openness in Open Hardware.

Note: Open Business is not completely open

- * **identity (brand)** is fixed and is a warranty certificate
- * **existing business ecosystems** may not be open
- * **knowledge, expertise, tools, resources** are not always “open”



Source: <http://www.blender.org/blenderorg/blender-foundation/logo/> <http://www.arduino.cc>

The business models of Open Hardware

- * **Services and expertise** (customization, consulting)
 - * **Manufacturing** of owned or third party Open Hardware
 - * **Manufacturing of proprietary hardware** based on Open Hardware
 - * **Dual-licensing**
 - * **Proprietary hardware designs** based on Open Hardware
 - * Proprietary **software tools** for developing Open Hardware
 - * ... and ...
-

Business models for FabLabs

- * **Enabler:** launch new Labs and support services
 - * **Education:** a global distributed model of education through Fab Labs (Fab Academy + peer-to-peer learning)
 - * **Incubator:** provide infrastructure for entrepreneurs to turn their Fab Lab creations into sustainable local businesses.
 - * **Replicated / Network:** provide a product, service or curriculum that operates by utilizing the infrastructure, staff and expertise of a local Fab Lab
-

The business models of Open Hardware

The screenshot shows the homepage of the Sparkle Labs Electronics Kits website. At the top left is a cartoon character of a flask with a smiling face and three stars above it. To its right is the text "Sparkle Labs Electronics Kits". Above the main content area is a navigation bar with links: HOME, WEBLOG, PRODUCTS, LEARN, PROJECTS, and CONTACT. To the right of the navigation bar are two buttons: "BUY NOW ONLINE!" in green and "SAVE OR SHARE!" in pink. In the top right corner is a yellow speech bubble containing the text "CREATE HACK GROW". The main title "Discover Electronics!" is prominently displayed in large, colorful letters (pink to orange gradient). Below the title is a section titled "Learn to make your own circuits." with a descriptive paragraph about the kit's purpose and contents. To the right of this text is a 3D rendering of a breadboard with various electronic components like resistors, capacitors, and LEDs connected by wires. A green starburst badge next to the breadboard says "Over 130 parts". At the bottom right of the breadboard is the Sparkle Labs logo, which includes a flask character and the text "by sparkle labs".

Sparkle Labs Electronics Kits

CREATE HACK GROW

HOME WEBLOG PRODUCTS LEARN PROJECTS CONTACT

BUY NOW ONLINE!

SAVE OR SHARE!

Discover Electronics!

Learn to make your own circuits.

The growing DIY movement is empowering people to take control of their products and environment. The Discover Electronics Kit contains everything you need to learn the basics of electronics and make your own projects. It contains the most common electronics components as well as a prototyping breadboard for you to get started right away. Easy full color diagrams teach you how to bring your own ideas to life.

Online video course

Follow along with our videos online. Take the course at your own speed, complete assignments and share your progress.

Over 130 parts

by sparkle labs

Proprietary hardware tools for learning how to develop Open Hardware.

The business models of Open Hardware

The screenshot shows the Adafruit Industries website with a focus on their job board. The top navigation bar includes links for HOME, BLOG, FORUMS, SUPPORT, TUTORIALS, CHAT, VIDEOS, CONTACT, and JOBS. A 'LOGIN' link is also present. The left sidebar features a 'JOBS BOARD' section with categories like CAD & 3D modeling, Art & Design, Burning Man, Engineering, Installations, Instruction and teaching, IT, Manufacturing, Photography, Production, and Programming. Below these are links for All Listings, All Full Time, All Part Time, All Contract, and All Services Offered. There's also a 'Post a New Job' and 'Post Skills Offered' button, and a search bar with a placeholder 'Search for a job:' and a 'search' button.

JOBS

Welcome to the Adafruit jobs board! The jobs board is for designers, makers, programmers, artists and engineers who are looking for great places work at & projects to work on. And like most job boards, this job board is for companies and people who need the best talent for their projects and companies.

This is a free service provided by Adafruit, all you need to do to use the job boards is be an Adafruit customer. To post your job offer or your skills (job-seeker) just log in to your Adafruit account and post a new job/skill listing or reply to the job listing.

We're currently in beta, please let us know if there are any issues are you use the site. Thank you and happy connecting!

Featured Jobs

- Engineering Manager** full-time at Parallax Inc. in Rocklin, CA
- Embedded Linux Developer** full-time at Bug Labs in New York
- Reliability Engineer (EE)** full-time at Solectria Renewables in Boston, MA
- Photographer** skills offered at John De Cristofaro in New York-New Jersey Metro Area
- User Researcher** full-time at Synaptics in Santa Clara, CA
- Firmware/software developer**

Most Recent

- Systems Administrator** part-time at SVA MFA Interaction Design in New York
25-05-2011
- Mechatronics/Manufacturing Fellow** contract at Driptech, Inc. in Mountain View, CA and China
19-05-2011
- Product Design Fellow** contract at Driptech, Inc. in Mountain View, CA and Pune, India
19-05-2011
- Product Development Lead** full-time at Driptech, Inc. in Pune, India
19-05-2011

Most Applied To Jobs

- Documentation/Tutorial Freelancer** part-time at Seeed Studio, Anywhere
27 applicants
- SMD PCB Assembly** contract at Starlino Electronics, Anywhere
22 applicants
- Prototyper / Circuit and Product Design** contract at HCX in New York
12 applicants

Offering free services for building a greater user base.

Source: <http://www.adafruit.com/jobs/>

The business models of Open Hardware



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Make and sell
electronic products

Now you can make and sell electronic products with your Personal Factory and showroom! [How it works](#)

[Start making >](#)

- Free Personal Factory & showroom
- No setup fees
- No minimum orders
- Custom made in 1 to 2 weeks
- Shipped to your door
- 365-day free replacement policy

1500+ new materials!

[See the new materials](#)

Sparkfun is an official supplier to Ponoko of over 1500 new materials.

Partnership between hardware and fabbing companies

Source: <http://www.ponoko.com/make-and-sell/electronics>

The business models of Open Hardware

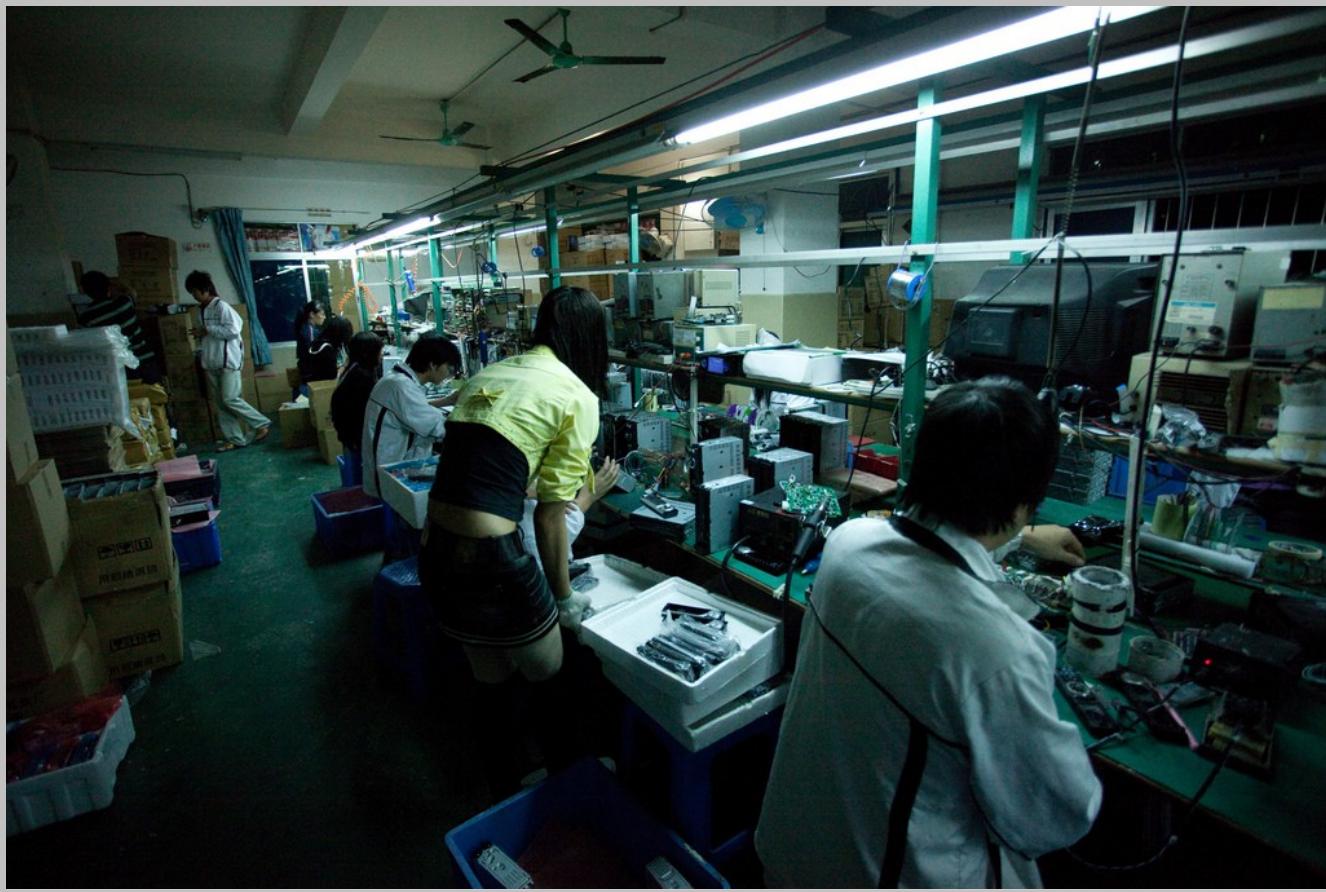
The screenshot shows the homepage of bildr.blog. At the top left is the logo "bildr.blog". To the right is a search bar with the placeholder "search blog..." and a magnifying glass icon. Further right is a "Login / Register" link. Below the header, there are two navigation links: "about" and "write for us". The main content area features a large graphic on the left showing a grid of circular components connected by lines, resembling a modular circuit board or a social network. To the right of this graphic is a stylized illustration of a person holding a speech bubble that says "Ours!" and a small brown cardboard box. The text "communal knowhow" is overlaid on the right side of the graphic. Below this graphic is a descriptive paragraph.

We are a community of makers, artists, designers, and builders focused on simplifying the world of electronics DIY by modularizing information. Instead of showcasing users' projects, we offer bite-size, easy-to-follow articles that help you hit the ground running.

Funding Open Hardware projects in exchange for documentation

Source: <http://bildr.org/>

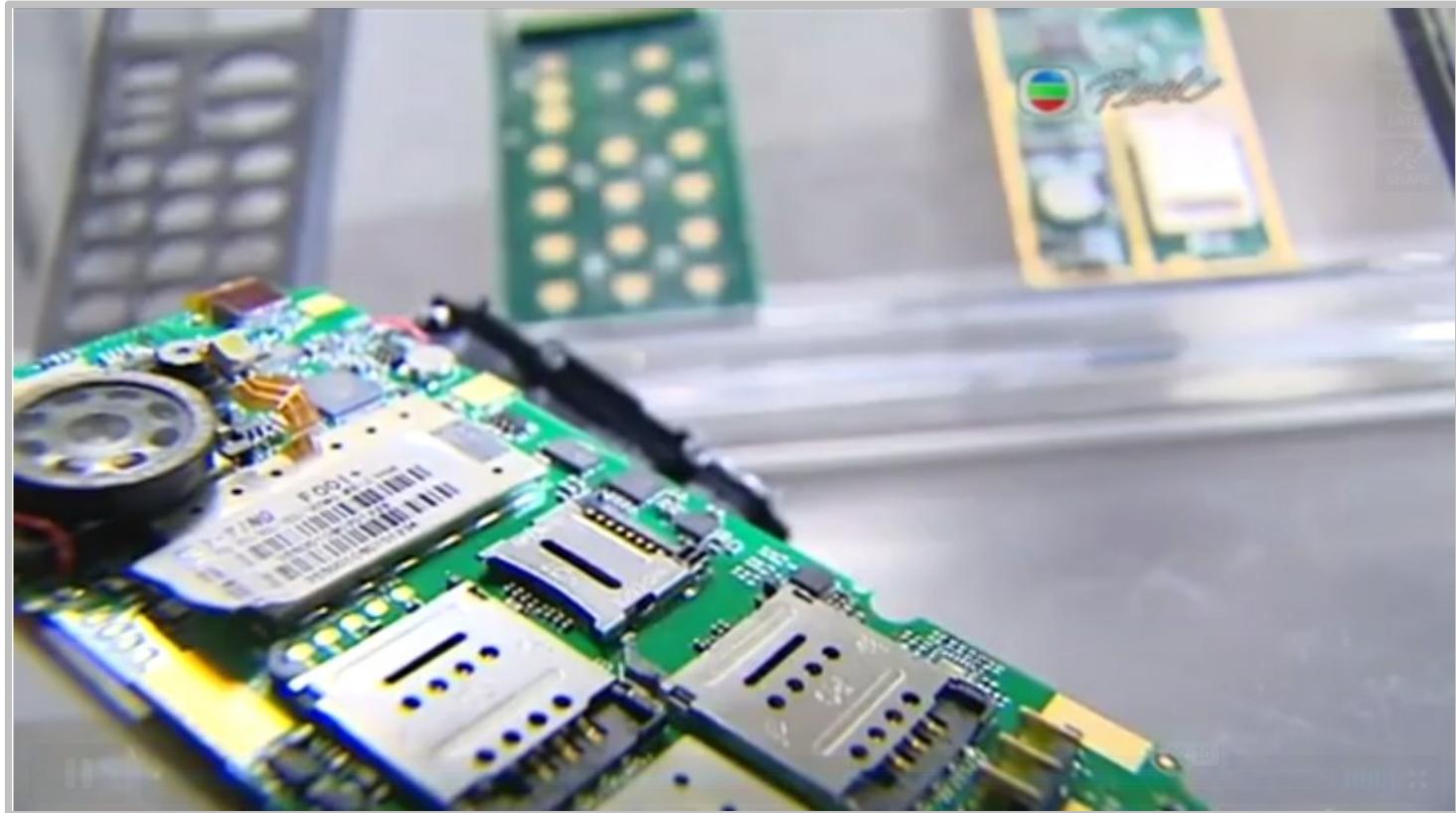
The business models of Open Hardware



Piracy as a learning and market building strategy: Shanzai

Source: <http://www.flickr.com/photos/ttstam/4177935719/>

The business models of Open Hardware



Piracy as a learning and market building strategy: Shanzai

Source: <http://vimeo.com/26980501>

The business models of Open Hardware

MakerBot Botcave Store Opens Today!

POSTED BY BRE PETTIS ON FRIDAY, NOVEMBER 26, 2010 IN BOTCAVE STORE



Brick and mortar stores: Makerbot, the Botcave

Source: <http://www.makerbot.com/blog/2010/11/26/makerbot-botcave-store-opens-today/>

The business models of Open Hardware



Renting spaces for co-working / funding spaces by a community: hackerspaces.

The business models of Open Hardware

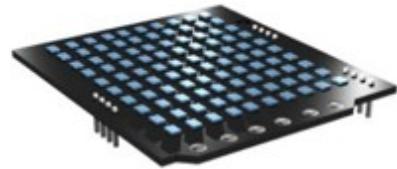


Open Source Hardware Reserve Bank^{cc} Supporting Do-It-Yourself Open Source Hardware Projects

The mission of the bank is to fund and invest in Open Source Hardware. It helps open source projects achieve scale discounts at low quantities of production, where most DIY happens. The objective of the bank is to break-even, and sustain and grow Open Source Hardware.

Queues

EqualizerShield



The EqualizerShield is a project from Matt and Chris for a 10x10 blue LED matrix that is intercompatible with the Arduino, Freeduino, and Illuminato.

It has two modes, one for a built-in 8-channel analog equalizer, and one for a serial-controlled LED matrix. [Click here to buy & build](#)



Microcredit / peer-to-peer lending / crowdfunding: Open Hardware Bank

Similar models for DIY Craft... Sewing Cafes

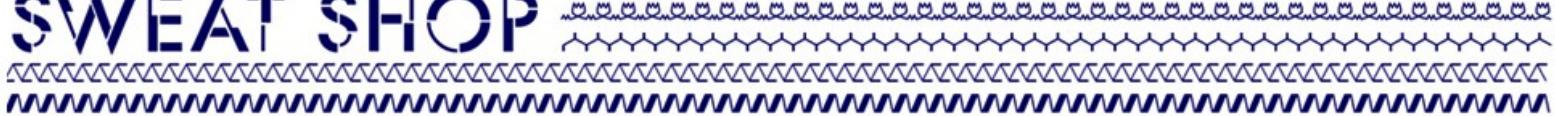


Renting spaces for co-working: Sewing Cafes

Source: <http://sweatshopparis.blogspot.com/>

Similar models for DIY Craft... Sewing Cafes

SWEAT SHOP

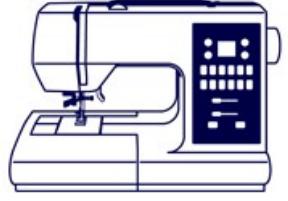


NOUVEAUTÉ
CONCEPT
LOCATION
ATELIERS
BON CADEAU
ÉVÉNEMENTS
PRESSE
CONTACT
LIENS

BLOG
SHOP

ENGLISH



1  = 6E/h

LOCATION DES MACHINES À COUDRE

Sur le principe des cybercafés, chacun a la possibilité de louer une machine à coudre sur place, à l'heure ou au forfait. À tout moment de la journée et sans rendez-vous, les clients peuvent venir s'installer à un poste de travail et commencer à coudre en utilisant une machine prêtée à l'emploi.

Sweat Shop met à disposition ciseaux, aiguilles, fils, etc.

1H.....	6E
10H.....	55E
20H.....	100E
Promo 'Couple'.....	10E/H
Promo Day Pass (+café ou thé offert) ..	25E
Location surjeteuse.....	10E/H

- 10% pour étudiants

Renting spaces for co-working: Sewing Cafes

Open Money: making digital a physical medium

The screenshot shows the Armory Bitcoin Wallet Management software. At the top, there's a menu bar with 'File', 'Wallet', and 'User'. Below the menu is the 'Available Wallets' section, which lists four wallets with their IDs, names, security levels, and balances:

ID	Name	Security	Balance
21udkeoTU	Not my money	Watching-Only	3.377
36AjLSUM4	Keys stored on EeePC	Offline	4.0001
3VB8XSoY	Long-term savings	No Encryption	11.7882
2zftxA7Q	First wallet	Encrypted	12.878709

Below this is the 'Ledger' section, which displays a list of transactions with columns for Date, Wallet, Comments, and Amount. The transactions are as follows:

Date	Wallet	Comments	Amount
2012-Jan-02 02:39am	First wallet	Swept one address to another in this wallet	0.6295
2011-Dec-31 06:30pm	Long-term savings		-3.4985
2011-Dec-31 06:30pm	First wallet		3.4985
2011-Dec-31 04:52am	Not my money		0.377
2011-Dec-31 04:52am	Long-term savings		-0.507
2011-Dec-31 04:52am	First wallet		0.13
2011-Dec-28 03:52pm	Long-term savings	Transferred to my encrypted wallet	-1.00
2011-Dec-28 03:52pm	First wallet		1.00

At the bottom left, there's a 'Filter' dropdown set to 'All Wallets'. On the right, the total funds and spendable funds are displayed:

Total Funds: 32.04450900 BTC
Spendable Funds: 32.04450900 BTC

Money is now being redesigned by many open source projects, where the governance of the flows of digital money is designed by the software: Bitcoin.

Source: <http://en.wikipedia.org/wiki/Bitcoin>
http://www.wired.com/magazine/2011/11-mf_bitcoin/

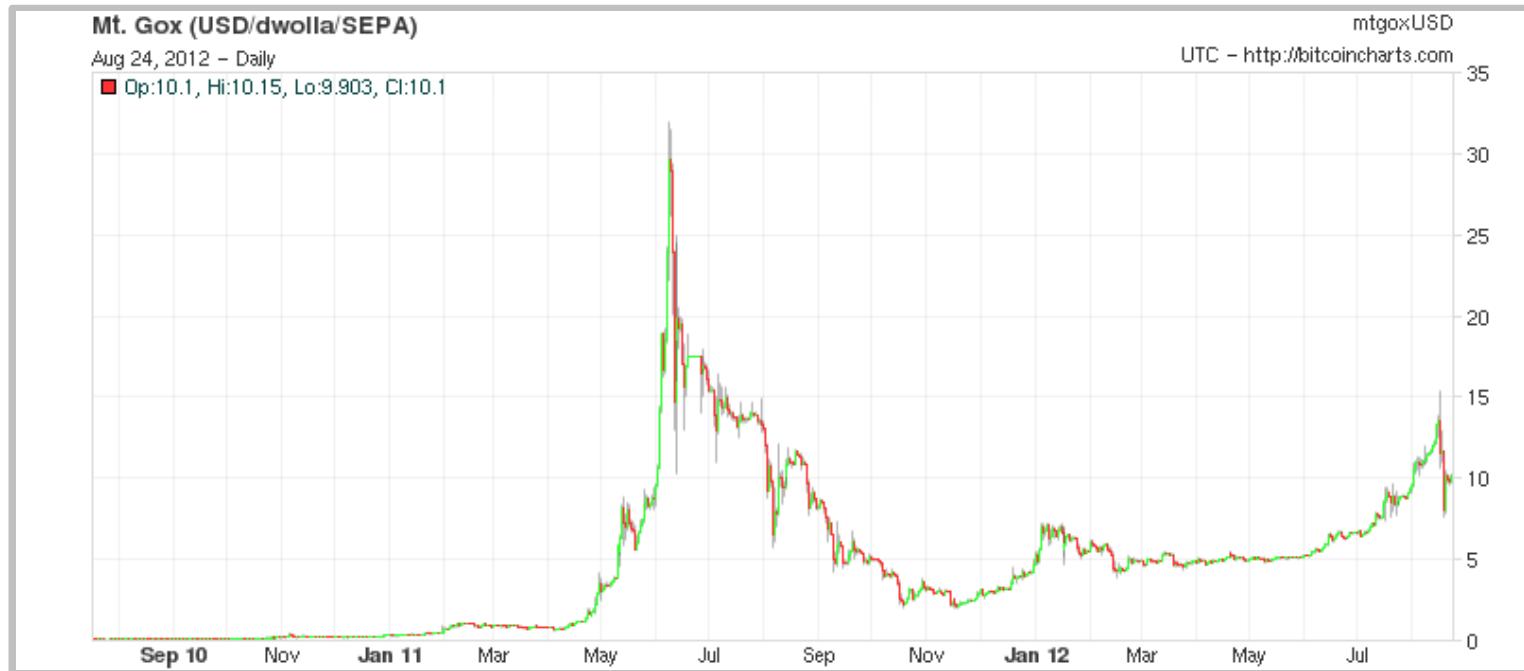
Open Money: making digital a physical medium



Money is now being redesigned by many open source projects, where the governance of the flows of digital money is designed by the software: Bitcoin.

Source: <http://www.youtube.com/watch?v=Um630Qz3bj0>

Open Money: it still needs business models



But redesigning money is only half of the solution: we need to understand its dynamics, and the possible business models it generates.

Source: <http://en.wikipedia.org/wiki/Bitcoin>
http://www.wired.com/magazine/2011/11/mf_bitcoin/

Crowdsourcing, mass-collaboration and work

“If crowdsourcing runs on people’s “spare cycles”—their downtime not claimed by work or family obligations—that quantity is now in surplus. [...] Crowdsourcing is proving to be highly efficient at identifying and exploiting those “spare cycles”.”

Source: Howe, J., 2008. *Crowdsourcing: Why the Power of the Crowd Is Driving the Future of Business* 1st ed., Crown Business.

“First the ‘human resource’ is not just inside the boundaries of your company. The world is your resource. This is more than outsourcing. Companies can now tap into vast pools of labour.”

Source: Tapscott, D. & Williams, A.D., 2006. *Wikinomics: How Mass Collaboration Changes Everything*, Portfolio Hardcover.

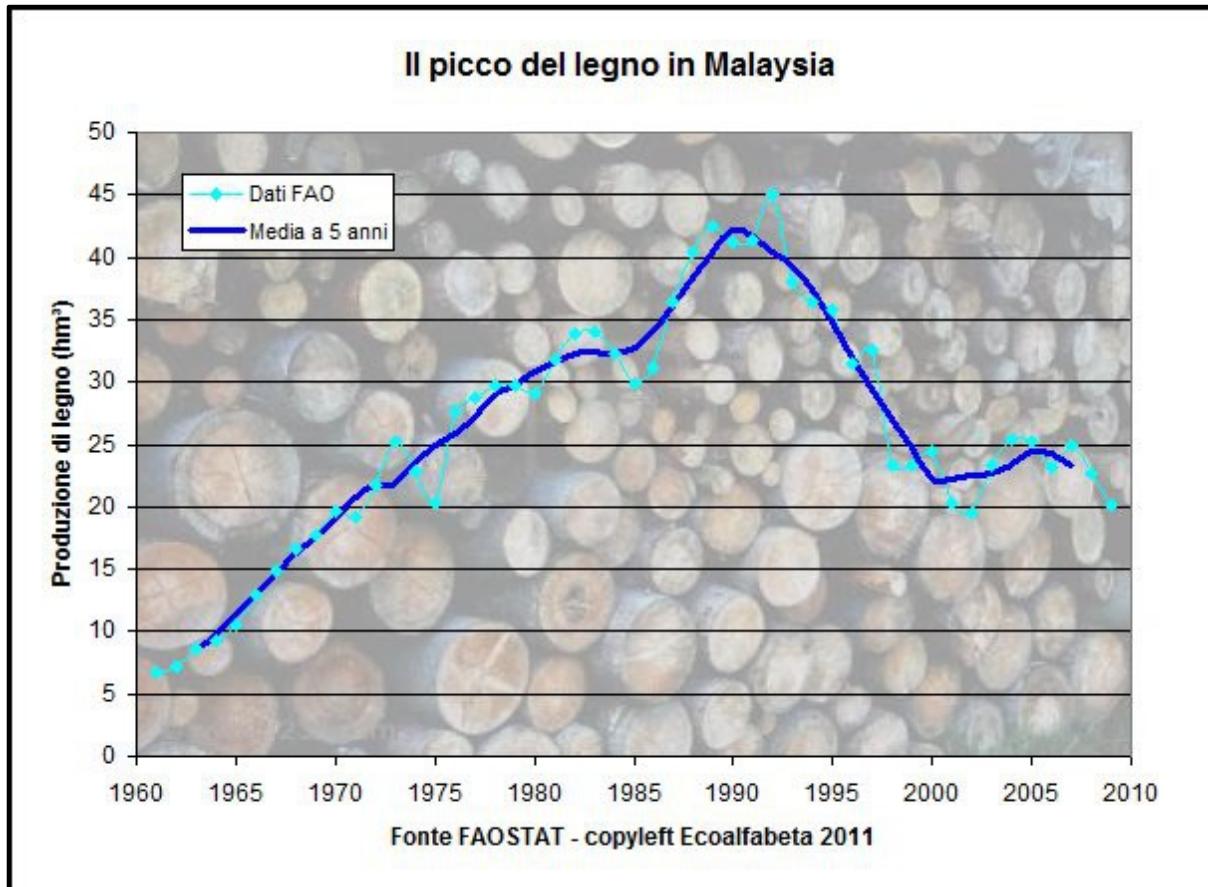
... and a lesson from the past



In 1914 Ford doubled the wages, enabling his workers to afford the cars they were producing. Ford explained the policy as **profit-sharing** rather than wages.

Source: http://en.wikipedia.org/wiki/Henry_Ford

When everything is peaking...



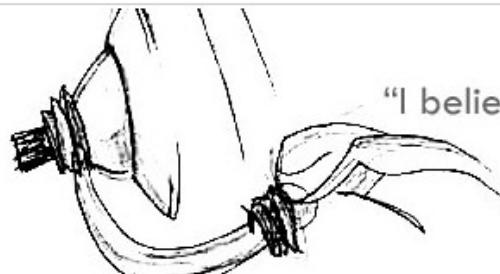
Even renewable resources like wood are peaking.. What and how are we going to manufacture when everybody will be able to do it?

Source: <http://ecoalfabeta.blogosfera.it/2011/03/il-picco-del-legno.html>

... reinventing an *open* wheel is not enough

Home Contact search...





"I believe in **horses**, automobiles are a transient appearance."

Wilhelm II. (1859-1941), German Emperor

Oscar - Main

- [Home](#)
- [Idea](#)
- [Concept](#)
- [Forums](#)
- [Documents](#)
- [Links](#)
- [Contact](#)

Oscar - Workbench

- [Integration](#)
- [Modules](#)
- [Tools](#)
- [Network](#)

Home

Oscar - Release 0.2

It is the goal of the OSCar Project to develop a car according to Open Source principles. In our opinion, a car is not a vehicle full of high-tech gadgets. Instead, we are looking for a simple and functional concept to spread mobility. Form follows function.

Apart from that, OSCar is not just a car. It is about new ways of mobility and the spreading of the Open Source idea in the real (physical) world. On this website, you will find a great community of developers and drivers who want to invent mobility anew and together.

The project started in 1999. In December 2005, it reached release 0.2. Starting in 2006, everyone is welcome to participate.

[PDF](#) [PRINT](#) [EMAIL](#)



Design Contribution Rel. 0.2 by Tiago Do Vale (2006)

Login User

Username
Password
 Remember me
Login [Lost Password?](#)

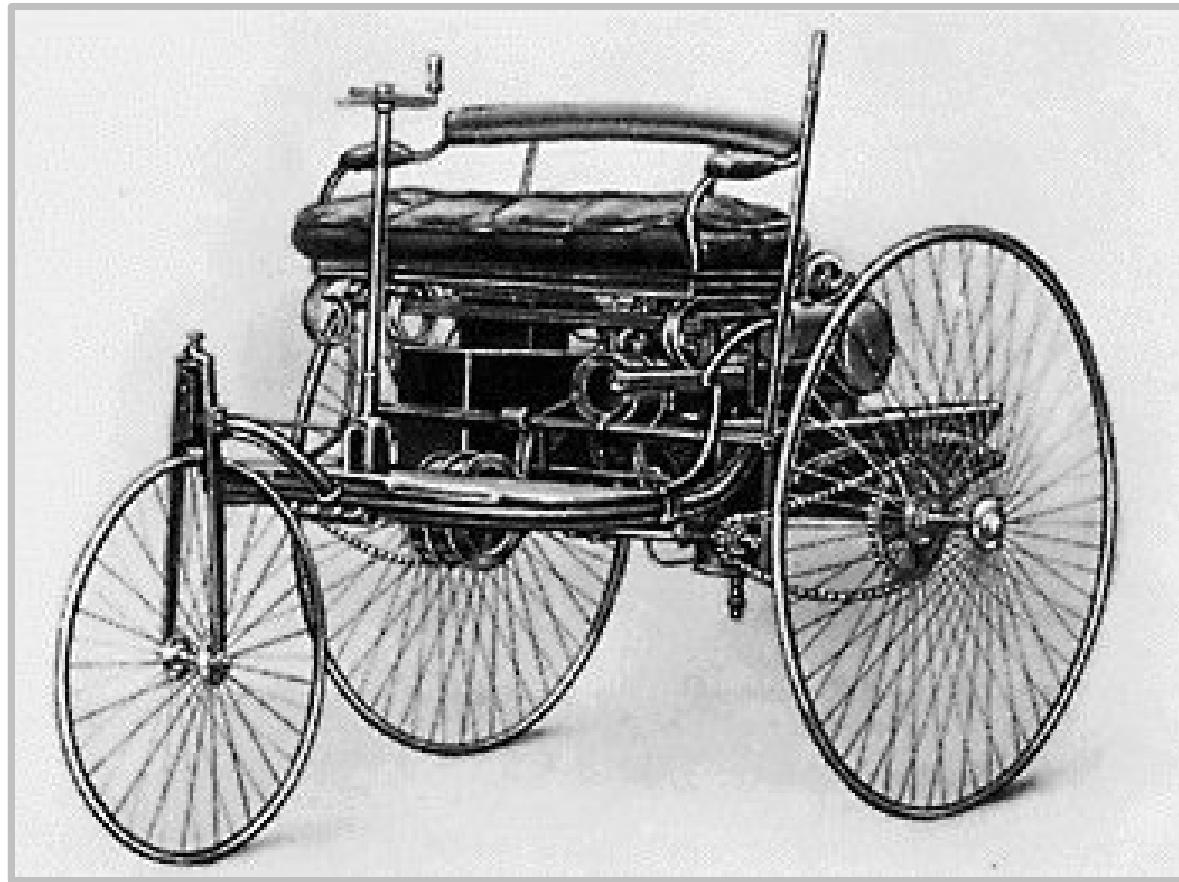
No account yet? [Register](#)

Most Active Threads

1. [This thread has fallen out of scope for \(354\)](#)
2. [free piston engine / Freikolben-Motor Discussion \(179\)](#)
3. [4 wheeler or 3 wheeler? \(148\)](#)

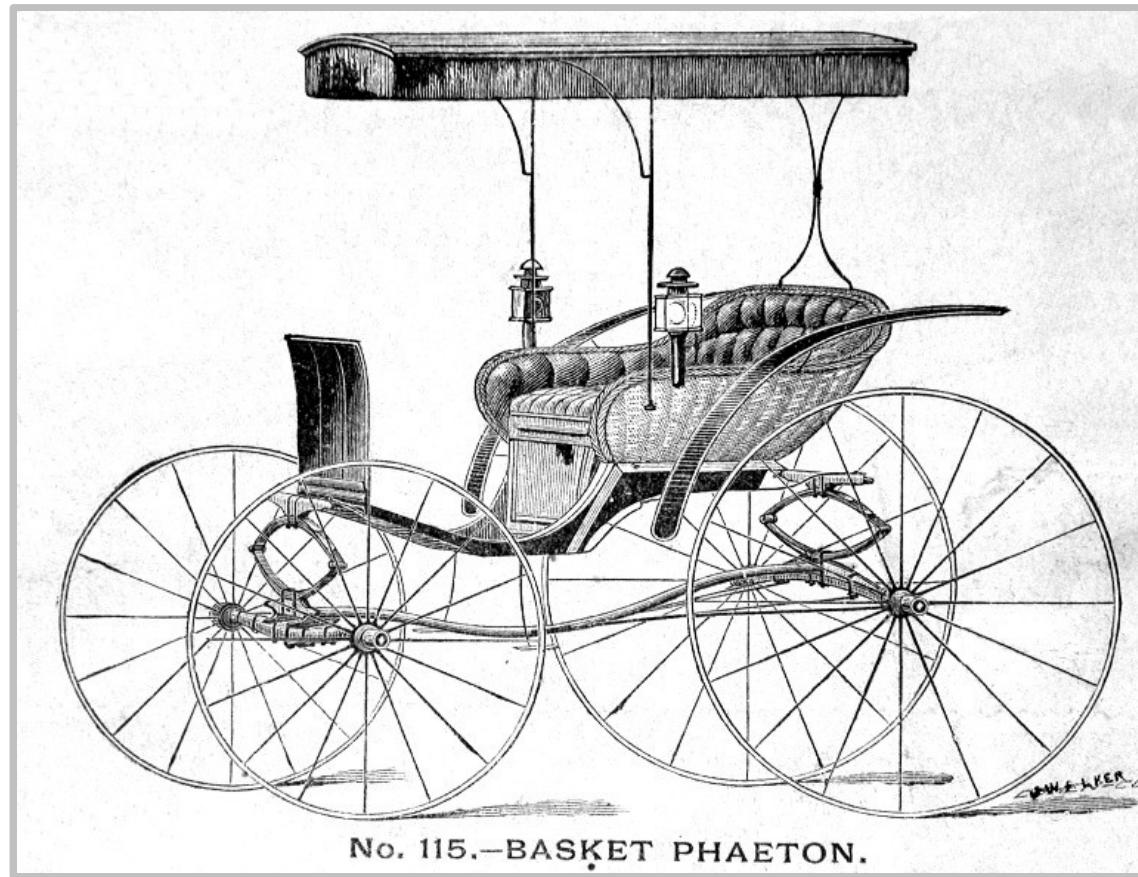
Will just making open an unsustainable past be sustainable?

New language, business for the new media



Every new technology takes time to develop its own uses, languages and business models.

New language, business for the new media



No. 115.—BASKET PHAETON.

Every new technology takes time to develop its own uses, languages and business models.

... blocks of an Open, DIY and P2P Economy

- * open business for **design, energy, materials, tools**
 - * open business that consider information as **abundant** but materials and energy as **scarce resources**
 - * open money (but well designed and **linked to energy and materials**)
 - * **API** and **Open Data** between open businesses
 - * **Open processes + distributed testing** of business models
-

04.

**Work for today:
design the business model of your
Open Source project and of its Open
Design process with the business
model canvas**



Aalto University

Thank you!!

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<http://www.slideshare.net/openp2pdesign>



14.03.2013



Aalto University