

**Open Design** is Open Source and Product Design mixed together. Professional and amateur designers creating plans, instructions and digital models and releasing them free of charge to be used, tested, and further refined by the community.

The lecture presents what's being developed in a wide range of design areas, from houses and heavy-duty machines, to toys, decoration elements, circuits & more.

Guest Lecture  
by Lenara Verle  
Tuesday, March 25th  
17.00, HS 110

**everything  
is makeable,  
anytime,  
anywhere,  
by anyone.**







open source











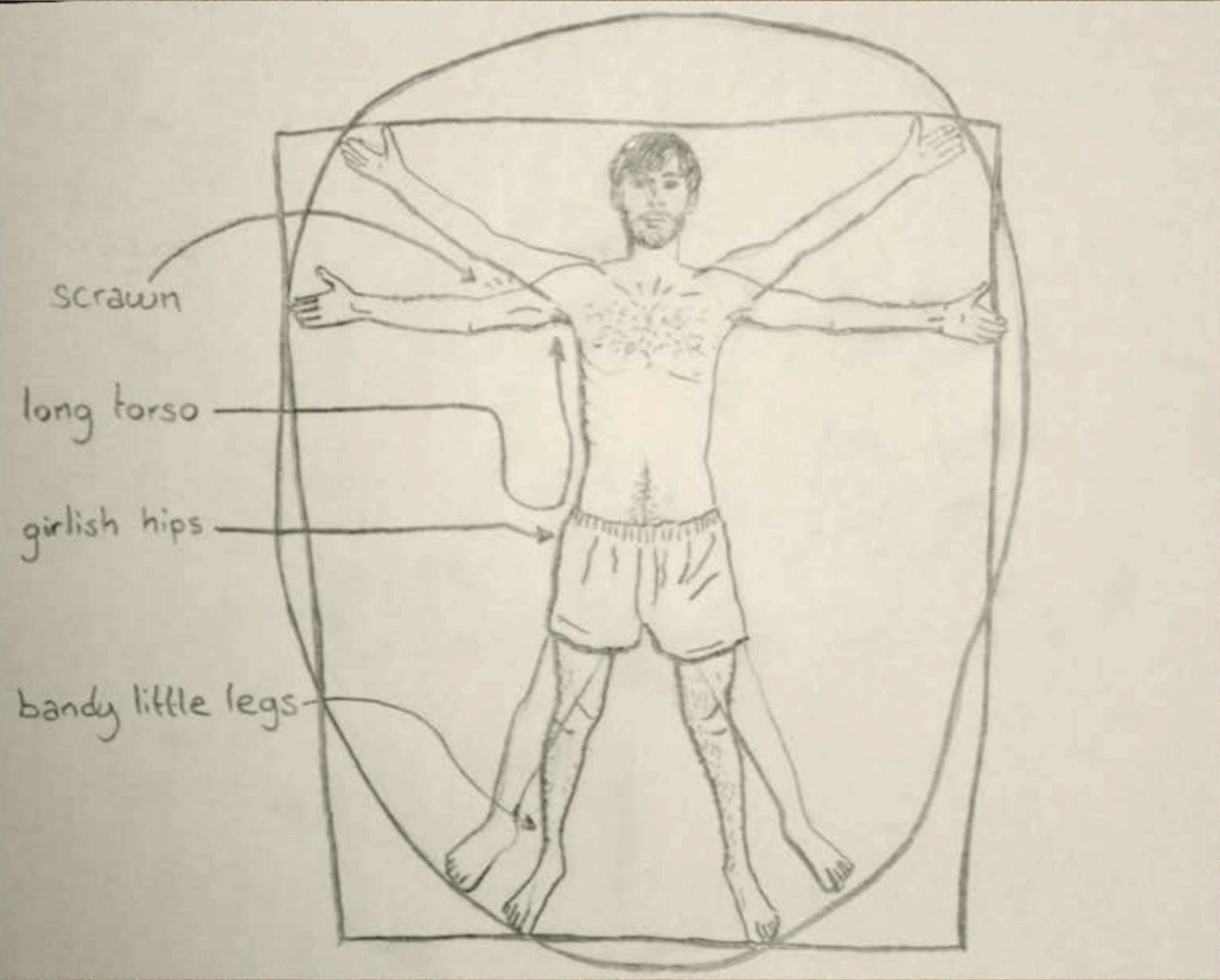


Not all aspects of my life will provide great opportunity for open source improvement, however – particularly anything that already is fast, cheap, and easy to produce. For example, anyone can produce their own toothpaste in the same time it would take to brush their teeth. Here's proof:



(this video is my first attempt at using open source editing software- [OpenShot](#). It's basic, but everything was easy to work out!)





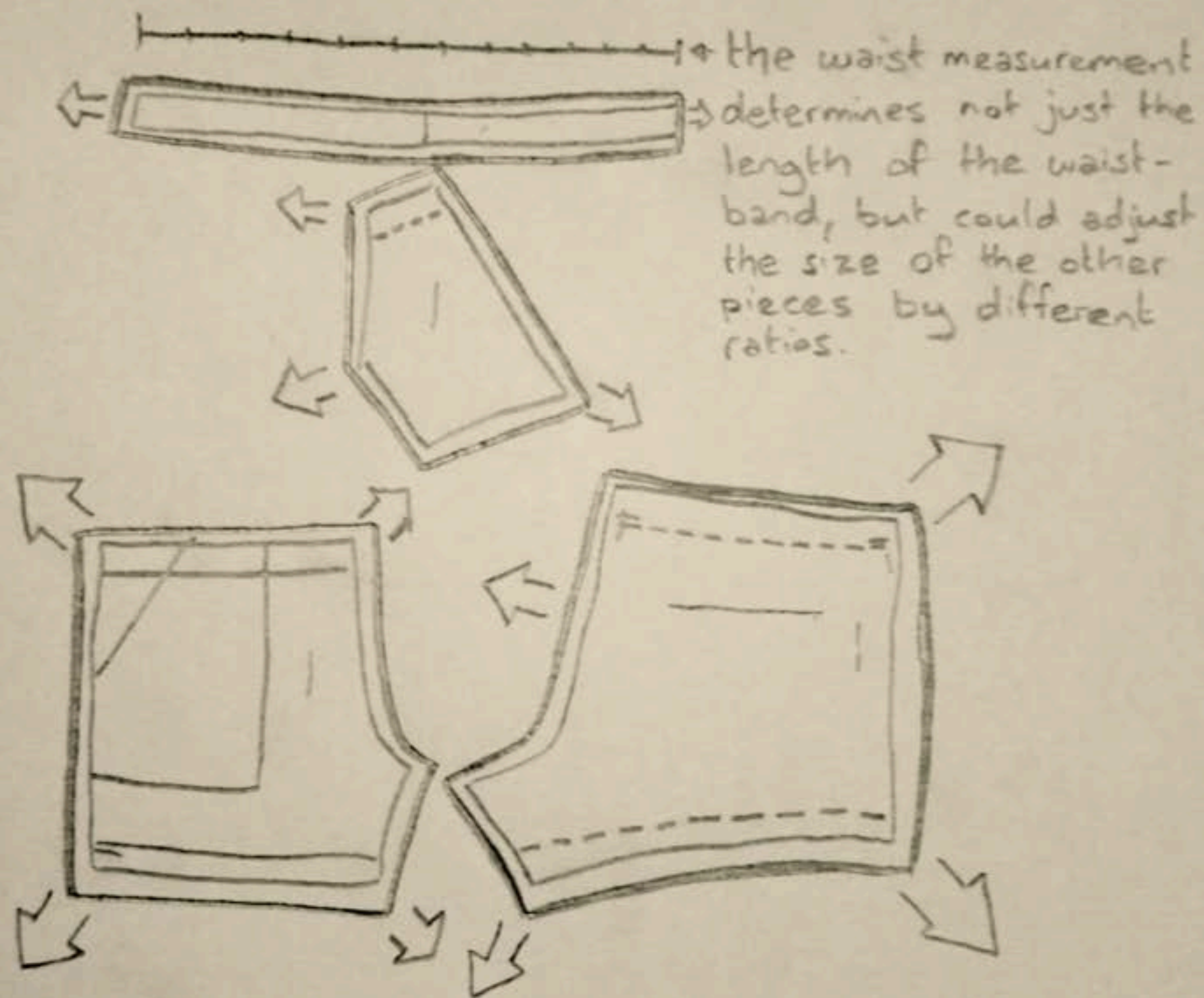
scrawn

long torso

girlish hips

bandy little legs











Open source construction set — print your own house.

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[Press](#)

[Contact](#)

[@WikiHouse](#)



WikiHouse ©

[Home](#)

[What is it?](#)

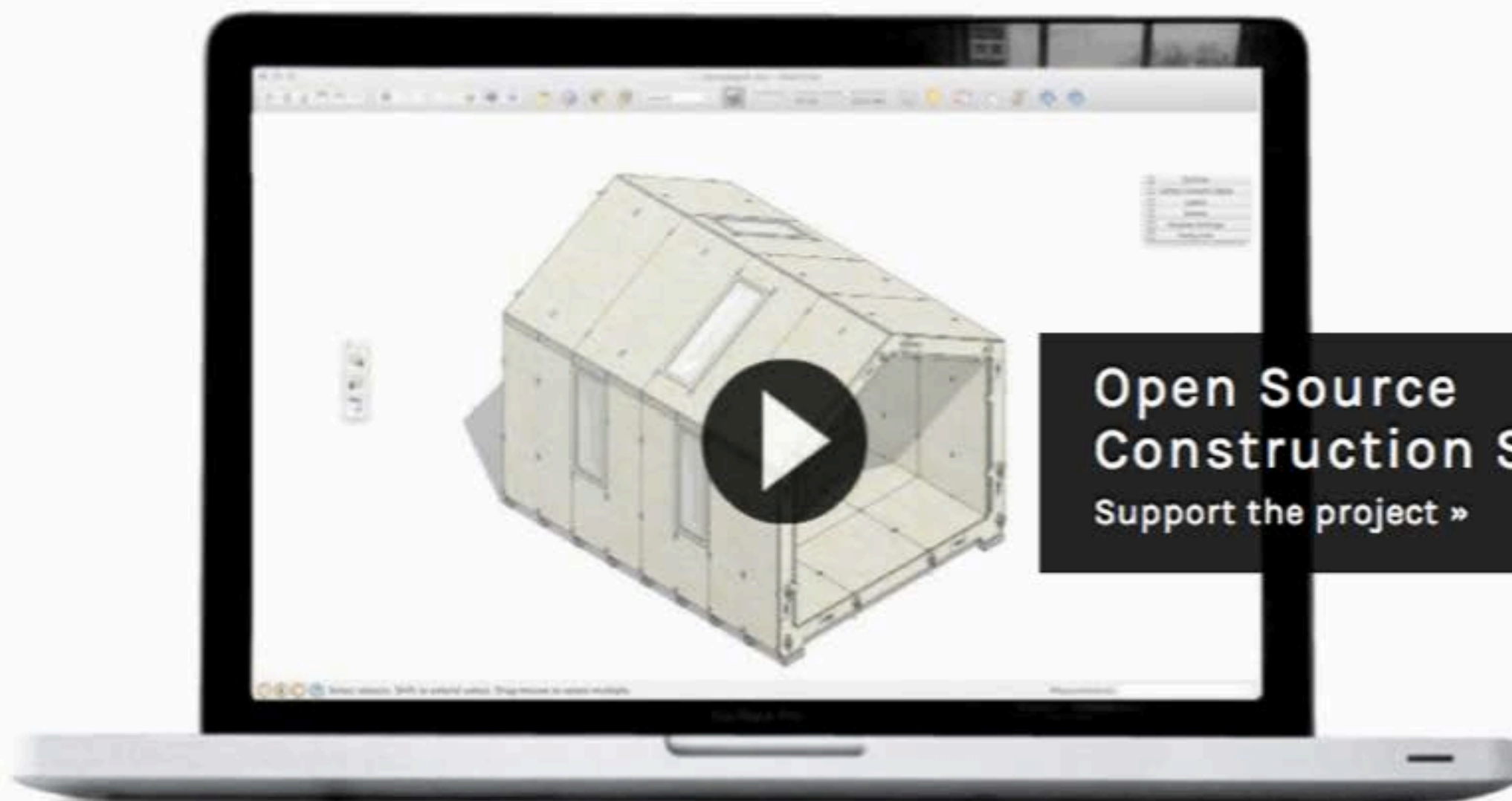
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**Open Source  
Construction Set**  
Support the project »





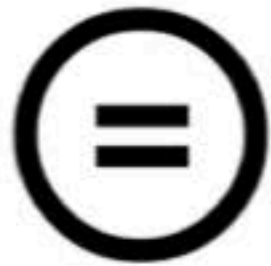




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Now

November

2012

2011

Started



## Konstruieren statt konsumieren

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Message



### Author

Everything started with the "Hartz IV Moebel" in 2010 in Berlin. That was beginning of social DIY-Experiment – a Karma Movement. We believe that the world gets better if we "build more – buy less".

[About](#)[Photos](#)

8,064

[Likes](#)**KARMA  
CHAKHS**[Events](#)[Highlights](#)



LE·MENTZEL & THE CROWD

**HARTZ IV**  
**MOEBEL**.COM

THIS CHAIR  
CAN  
CHANGE  
YOUR  
LIFE  
😊



**BUILD MORE**  
**BUY LESS!**

KONSTRUIEREN STATT KONSUMIEREN!

HATJE  
CANTZ











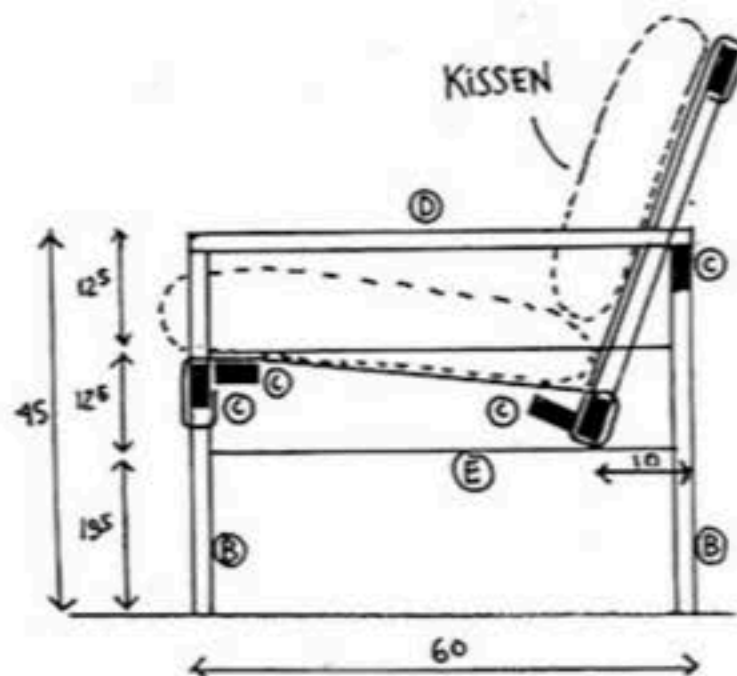
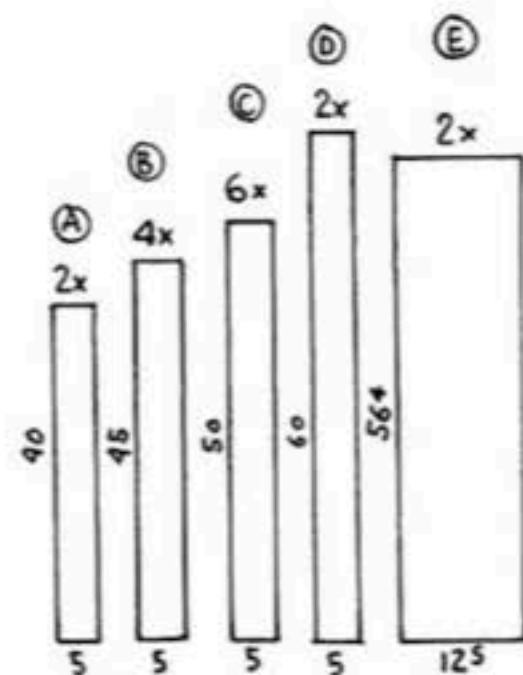
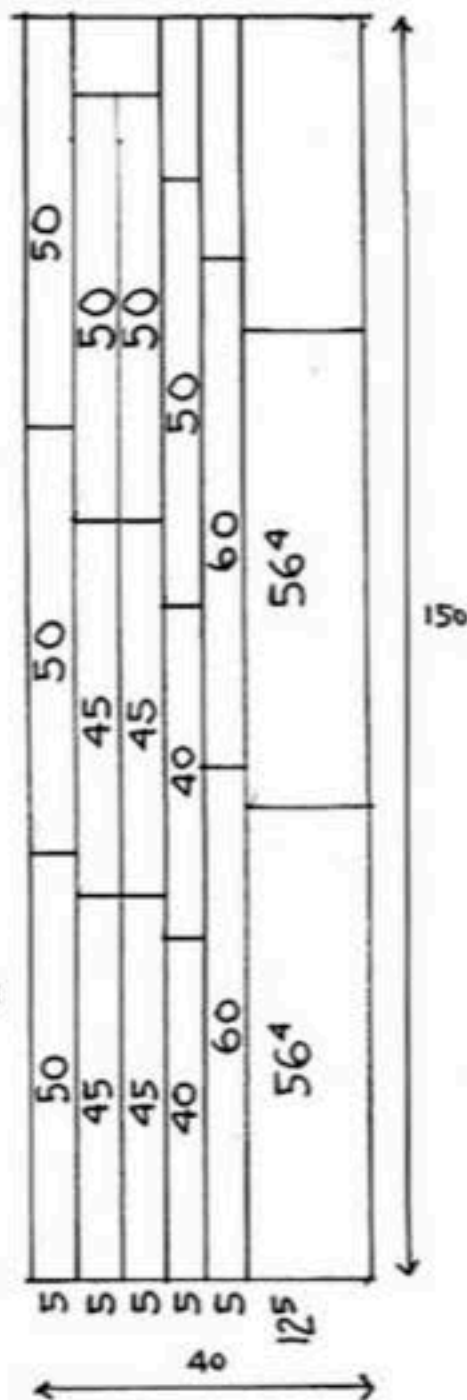
# 24 EURO CHAIR

DESIGN: LE VAN BO, 2010  
VERSION 2.0



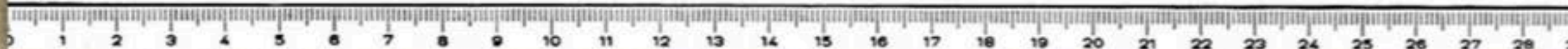
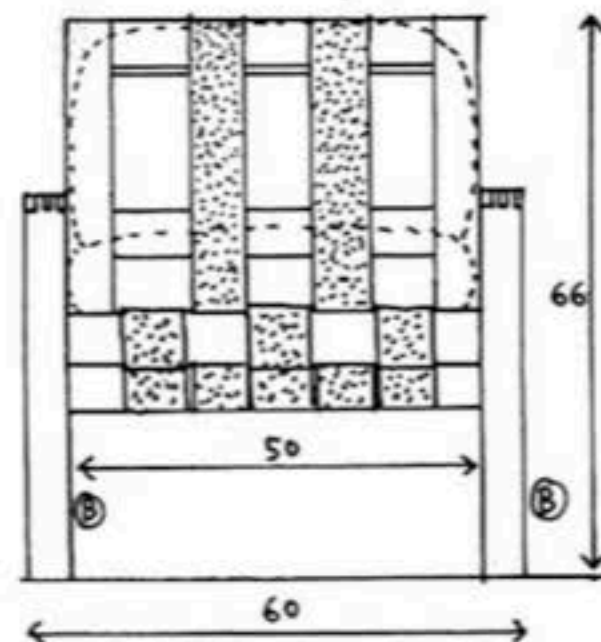
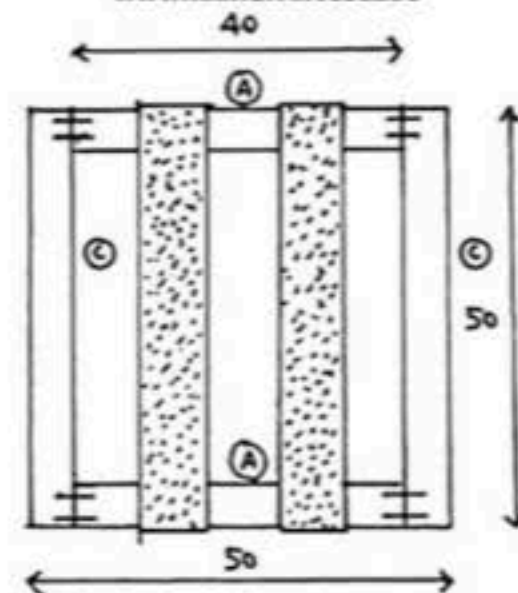
- KIEFER LEIMHOLZ  
BRETT 150x40  
(18 MM)
- CA. 3m JUTE GURTE  
/ CA. 10 ALTE  
LEDERGÜRTEL
- 2 KISSEN  
(40x80, 80x80)

M1:10



PLEASE SEND ME A PICTURE OF YOUR MODEL!  
BITTE SENDE MIR EIN FOTO VON DEINEM FERTIGEN MODELL.

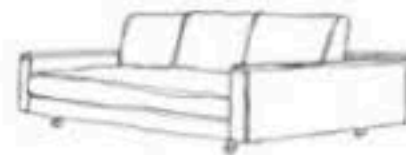
PRIME@WEB.DE  
WWW.HARTZIVMOEBEL.DE





# si wo sofa

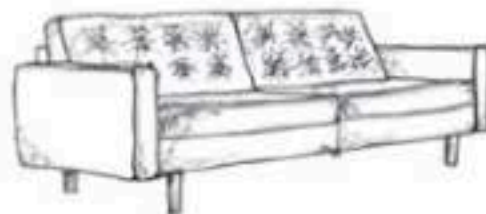
250 kg, wasser- / feuerfest,  
5,5 Jahre / 3,3 Tage  
Gefühllos / leer / Schweigen / Trauer  
W x B x H x T x W: 200 x 140 x 70 cm  
Illustration: Joe Miro, spread / auf / über  
Gepäck: Sabine Schmidt



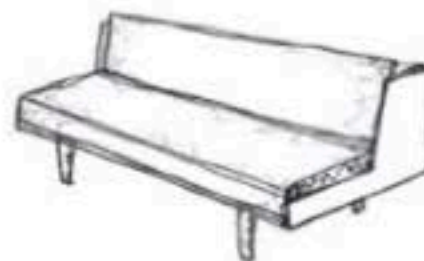
Day: Sofa für Georgen /  
in: Tag: Sofa für Ruckstuhl  
Night: Sofa für Jochen /  
Wach: Sofa für Lina



## Inspiration:



George Collection  
1955  
Egon Kroll



Daybed  
1955 / 1956 / 1957  
Hans J. Wegner



100  
sec  
lamp

[illegible]

face appear. If you're using an elastic band as an energy-storage device, make sure it's a heavy-duty band. Don't worry: most faces can withstand high temperatures. If making a large lamp, you may want to coat the face to give them extra strength. I know they'll do anything for a little extra cash, but I like to be sure. For more information on the face, see the Face page. For more information on the face, see the Face page.

### Impairment



„Sandstein-Heide“ Lemp  
aufsteigender – westlicher –  
steigiger –  
1881  
mit Leisiger Myie,  
Leisiger



“Das sind die besten Menschen, die ich kenne.“  
 „Das sind die besten Menschen, die ich kenne.“  
 „Das sind die besten Menschen, die ich kenne.“  
 „Das sind die besten Menschen, die ich kenne.“

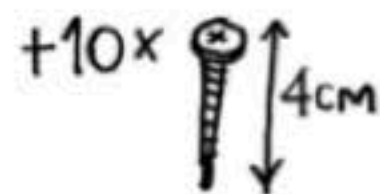
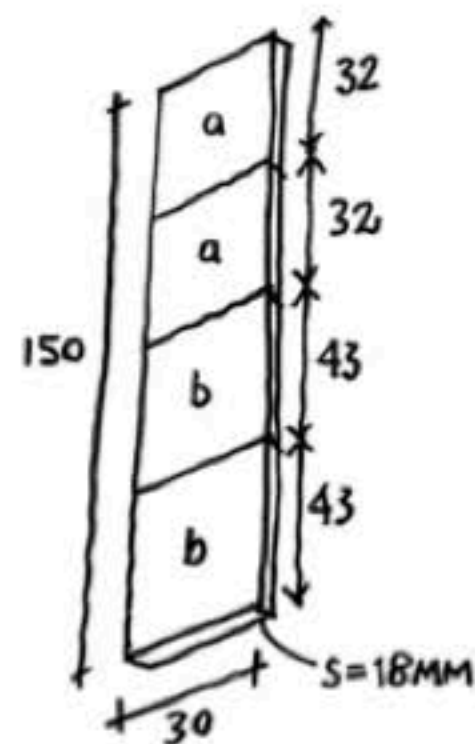


Cloud Suspension Light  
Figure  
1000  
Frank B. Gerry



# Berliner Hocker (Banquinho Berlinês)

open design por: Van Bo



**Ferramentas e materiais necessários:**  
furadeira, 10 parafusos para madeira, tábua de madeira maciça.

**Instruções:**  
O tamanho da tábua deve ser 150x30 centímetros. Compensado não serve. Aproveite que muitas lojas que vendem madeira cortam a tábua pra você de graça.

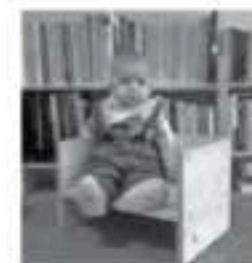
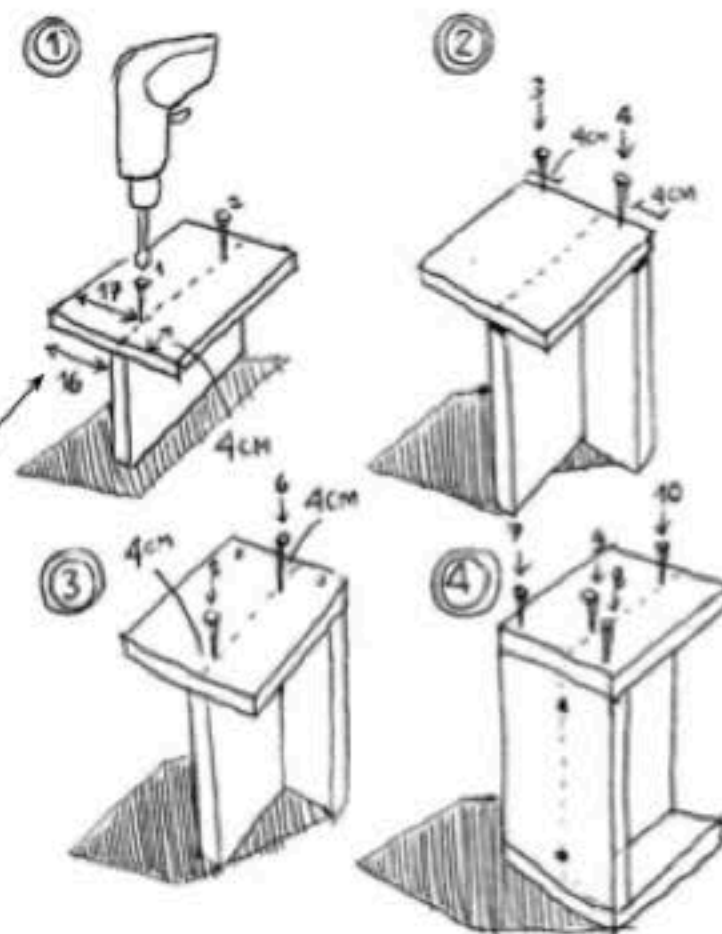
**OBS:**  
O detalhe mais importante do design são os 16cm de espaço em um dos lados, isso é o que vai criar a incrível versatilidade do Berliner Hocker. Sugerimos construir pelo menos 4 para depois combiná-los entre si.

**Nosso lema:**  
Construir ao invés de consumir  
(build more - buy less)

Nos contate, veja nossos outros projetos, mande fotos do seu banquinho pronto:

[www.facebook.com/buildmorebuyless](http://www.facebook.com/buildmorebuyless)

[www.hartzivmoebel.com](http://www.hartzivmoebel.com)





























# Instrument-a-day 2012





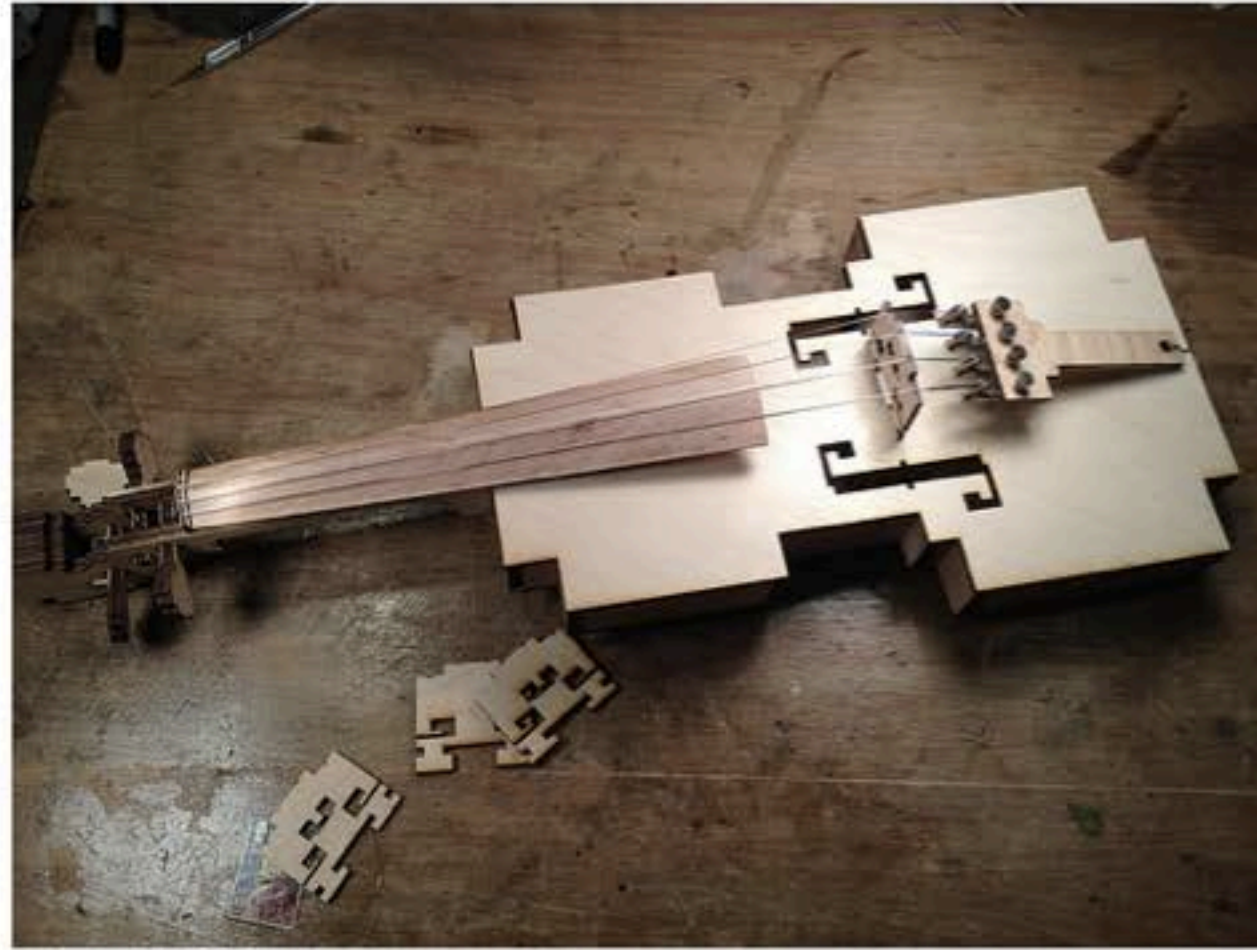
## About

...Ranjit Bhatnagar



Ranjit Bhatnagar discovered sound art around age 14, listening to weird late night programs on [KPFA](#). He now works with interactive and sound installations, with scanner photography, and with internet-based collaborative art. Recent works have been exhibited at the [Lawrence Hall of Science](#) in Berkeley, the [Parc d'aventures scientifiques](#) in Belgium, [Flux Factory](#) in Queens, in the [Artbots](#) series at [Eyebeam Atelier](#) and the [Pratt Institute](#) in New York, and the Mermaid Show at the [Williamsburg Art and Historical Center](#) in Brooklyn. He recently taught "Mister Resistor" at Parsons School of Design, a studio course and rock band with homemade instruments.





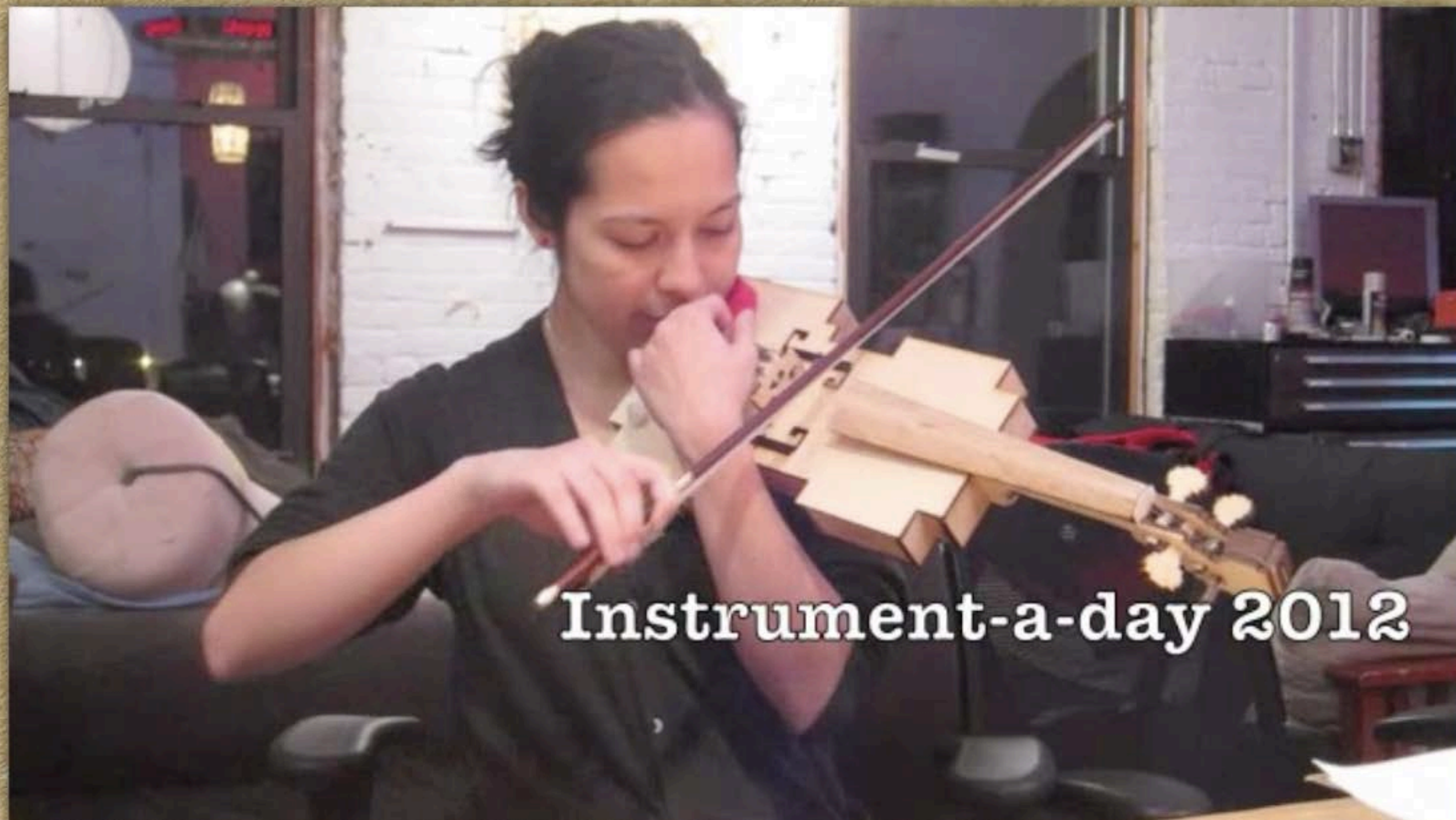
Violinist [Patti Kilroy](#) helped me build an [8-bit violin](#). No video today, but after the glue has had a few days to dry, she'll try it out.











Instrument-a-day 2012



This thing is a Work in Progress. Expect the files and instructions for this thing to change.



## 8-bit violin

Created by  
[ranjit](#)

Created on Mar 7, 2011

Featured on Mar 8, 2011



This is a crude but working violin made in an 8-bit, pixelated style. Here's some videos of the thing in action:

[moonmilk.com/2011/04/17/8-bit-violin-played-by-real-fiddlers/](http://moonmilk.com/2011/04/17/8-bit-violin-played-by-real-fiddlers/)  
[flickr.com/photos/ranjit/6884531615/](http://flickr.com/photos/ranjit/6884531615/)

(It was on Make:Live on March 9th, 2011: [makezine.com/live/](http://makezine.com/live/))

It's laser-cut from 1/8" plywood (front and back faces), 3/16" plywood (bridge), and 1/4" solid wood (everything else). It's a messy design, and not fully refined, because I really didn't know what I was doing when I made it.

If you make any substantial changes or improvements to this design that result in a working instrument, please publish your version of the design to Thingiverse and tell me about it. And in general, if you make and/or perform with an instrument based on this design, I'd like to hear about it.

The document "8bit violin scratchpad" contains bitmap images I found on the net, and I don't claim any copyright on those.

Tweet 9

Like 69

Pin It submit

### Downloads

Sort By

▲ Date Popular File Type

### Instructions

The design documents are a bit messy, because I pretty much made them up as I went along over the course of about 3 crazy hours. You will probably need to adjust the

Latest From The  
Thingiverse Blog



Digital designs for real, physical objects. A Universe of Things!

⚙️ UPLOAD A THING

This thing is a Work in Progress. Expect the files and instructions for this thing to change.



## 8 Bit Violin



Created by  
[evlviolins](#)

This was an 8 bit violin created for a customer that was looking for a unique MIDI compatible violin.

Created on May 16, 2012

Derived from [8-bit violin](#) by [ranjit](#)

Derived from [8-bit violin](#) by [iTagstudios](#)

[Hobby](#) > [Music](#)

Featured on May 17, 2012

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Like 23

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### Downloads

Sort By ▲ Date Popular File Type



[roughed interior.3dm](#)

24 kb / 131 downloads / 7 months ago



[top plate.3dm](#)

29 kb / 105 downloads / 7 months ago

### Instructions

This design was inspired by Ranjit's design, although was drawn from scratch by EVL to meet our design standards.

The body top and sides were created from a single piece of basswood with a routed interior. Two options are available for the interior. One is for a more acoustic like tone, where the second roughed interior is designed to help minimize resonance, which is more important for compatibility with Pitch to MIDI converters.

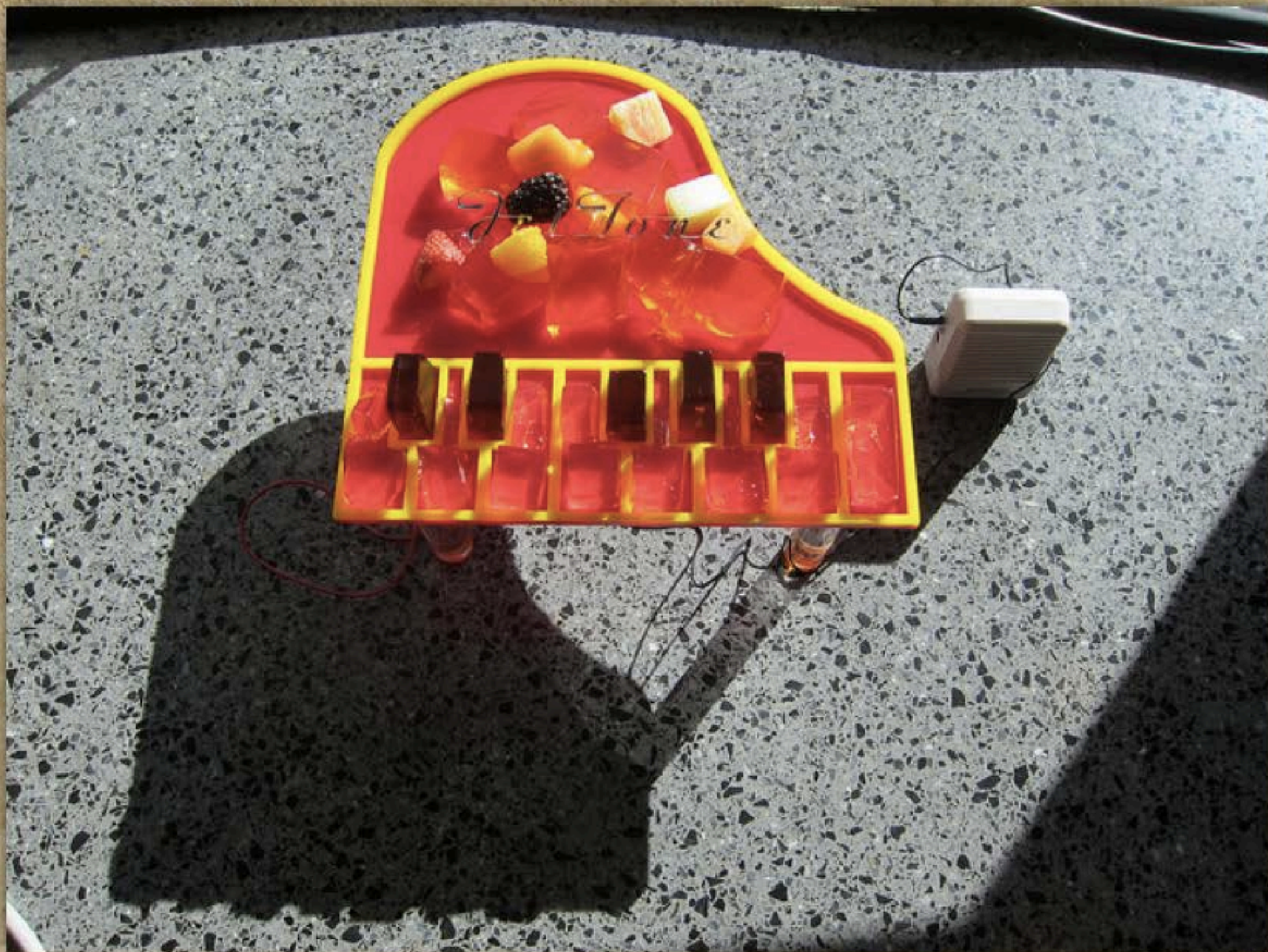
The instrument body was routed inside, followed by the exterior shape being cut out.

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Introducing  
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Collections:  
[Collect All The](#)

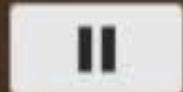












00:38

[click to watch in HD](#)



HD







**The Resistor JelTone**





## A Dodecahedron Speaker for Desktop Printers

by seanmichaelragan, published Jun 4, 2012











Thing Info



Instructions



Thing Files

20

Comments

2

Made

140

Collections

0

Remixes

## Description

A dodecahedron speaker can be a useful tool in acoustics research, and is definitely a fun toy to pull out at parties. They are available commercially, but pretty expensive. Some people build their own, but the odd compound angles and the high degree of accuracy and precision required in the parts make for challenging work with manual tools. It's a perfect job for a 3D printer. Total cost for parts and materials is just under \$100. That includes speakers, hardware, wires, cable, plastic filament - everything.

39004

4180

Found in Audio

Report Thing as Inappropriate

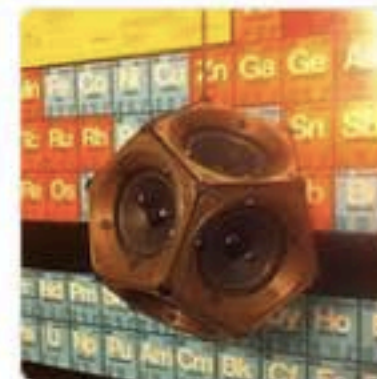
## Recent Comments

[view all >](#)



Go for it! I'd only ask that you share pictures of your results, online or elsewhere, and let me know when they're posted at [sean@makezine.com](mailto:sean@makezine.com). Thanks for asking, though. Would love to hear about anything you build using these files.

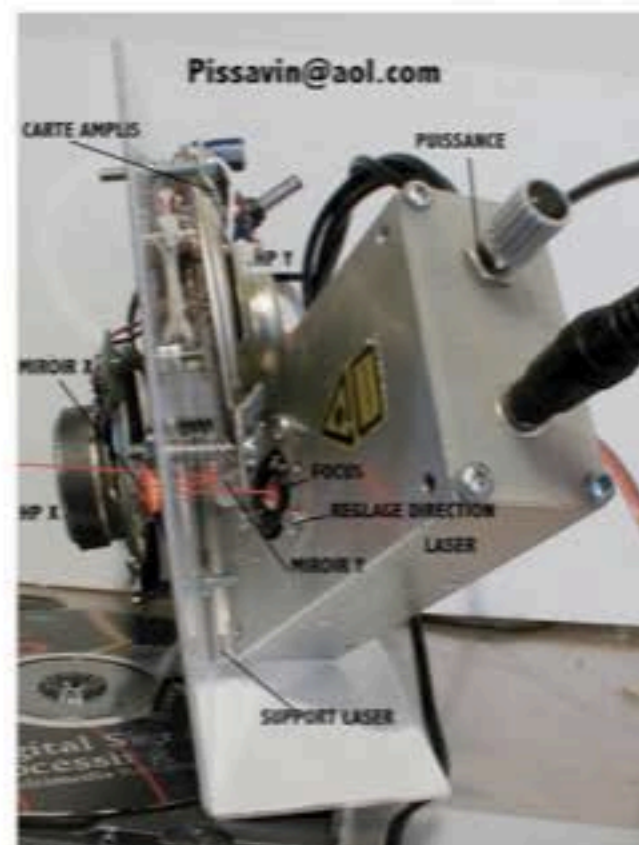
## Makes







Make -- Volume 14 -- [Homebrew 3D Scanner](#).



HOW TO -- [\\$10 XY Laser scanner](#)

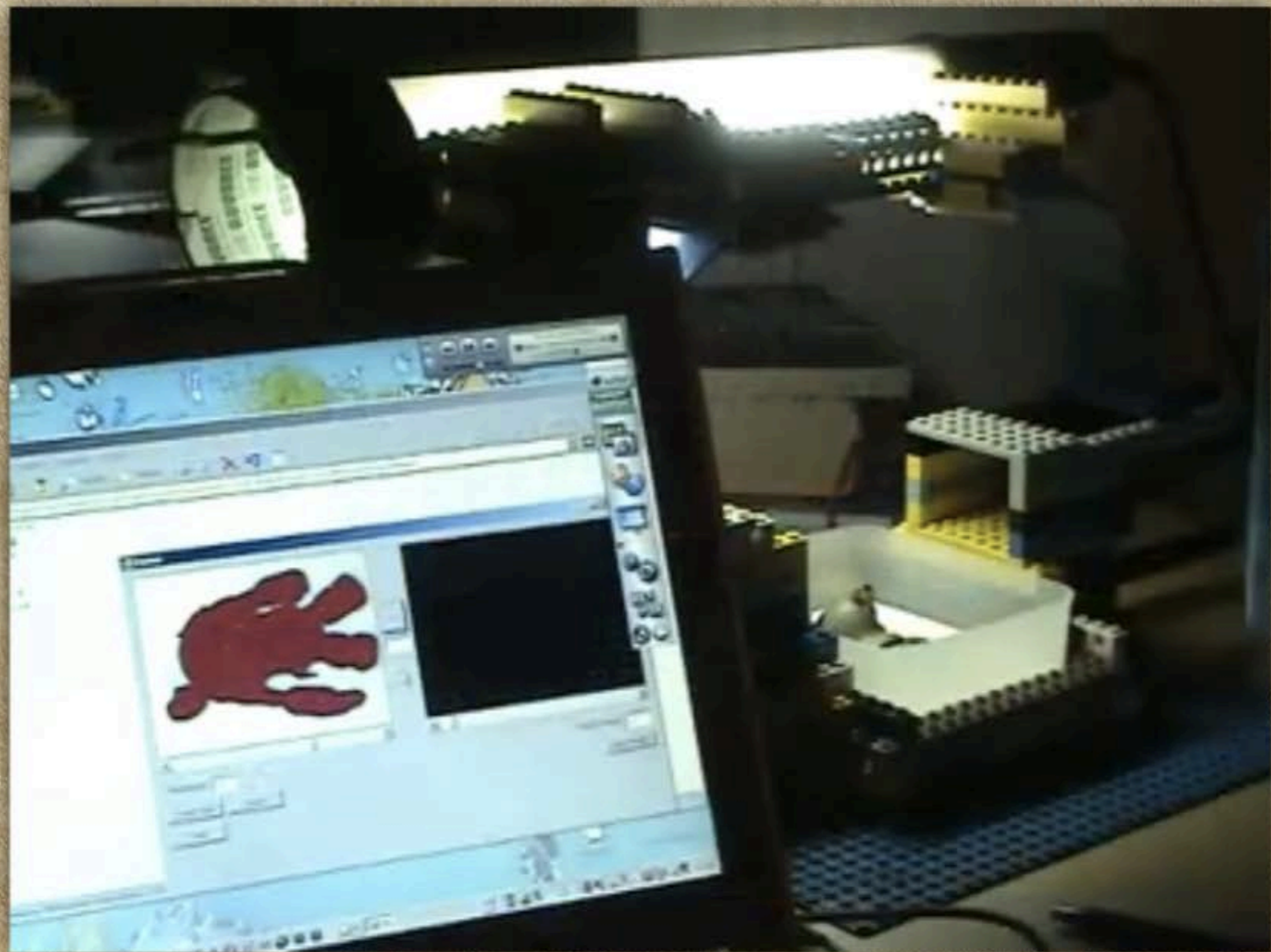


Project Splinescan -- [Cheap 3D scanning](#)



[Milkscanner V1.0](#)







## Photography Drones: Robot Cameras Take to the Skies

*These remote-controlled multi-rotor aircraft can capture amazing footage—and are fast becoming today's must-have photo accessories*



If you've noticed a sudden proliferation of photos and video taken from above—but seemingly from far too low to have been shot from a plane—chances are that you're looking at images shot from a drone. High-end units are being used in sports photography, real estate, law enforcement, and even major motion pictures. Drones are some of the most exciting new photographic tools in recent history. And flying these multi-rotor, radio-controlled aircraft is almost as thrilling as the images they can produce.

Why now? Recent advancements in flight controllers and aircraft stabilizers have made it possible for almost anyone to strap a decent camera into a drone, send it skyward for capture, and return it to earth in one piece (most of the time).

Also known as multi-rotors, unmanned aerial vehicles (UAV), quadcopters, and octocopters, these relatively affordable aircraft deliver photography that was—up



QUADCOPTER | AUTONOMOUS | VIDEO

## Voice-controlled quadcopter follows you around, films everything

Raymond Wong Monday, January 28, 2013 - 3:06pm

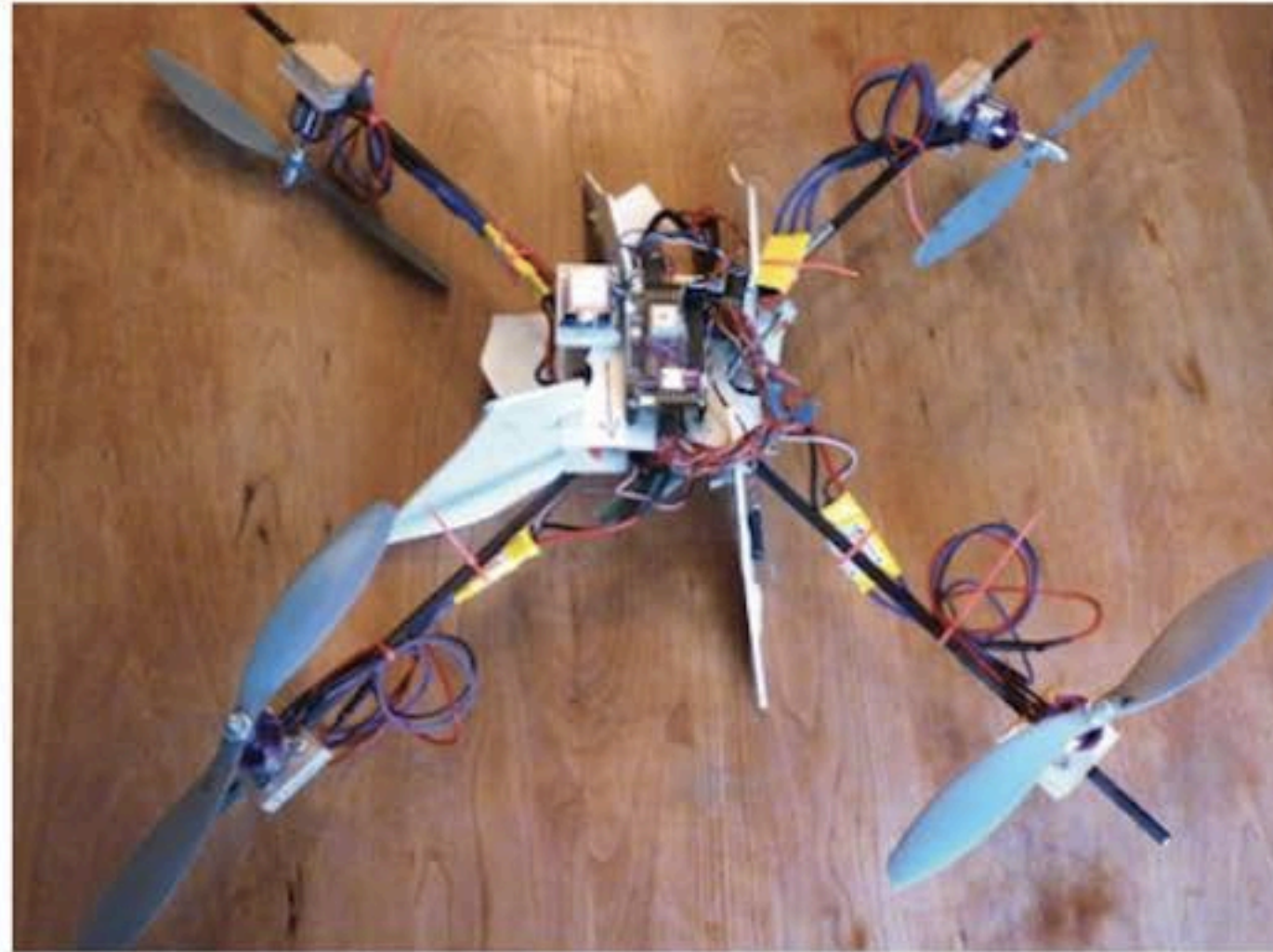




QUADCOPTER | SAFETY | SURVEILLANCE

## Parenting win: Dad builds quadcopter to follow son to bus stop

Saturday, December 1, 2012 - 1:59pm



It's pretty much an accepted fact that parents are going to worry about their kids getting to the bus stop safely until they reach a certain independent age. It used to be this meant Mom or Dad walking embarrassingly close by. Those dark days are gone with the breakthrough from one high-

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## List of open-source hardware projects

From Wikipedia, the free encyclopedia

The following is the list of [open-source hardware](#) projects that includes computer systems and components, cameras, radio, telephony, science education, machines & tools, robotics, renewable energy, home automation, medical & biotech, automotive, prototyping, test equipment, and musical instruments.

### Computer systems

[\[edit\]](#)

- [Arduino](#), an open-source [physical computing](#) platform based on a simple I/O board and a development environment that implements the open source [Processing / Wiring](#) language. Also clones of this platform including [Freeduino](#).
- [Arduino Display](#) : open source arduino dot matrix display capable of handling 24fps video
- [AndroidStamp](#) : [Freescale iMX233](#) based development board
- [Beagle Board](#) – a single-board computer based on low-power Texas Instruments processors, using the ARM Cortex-A8 core, running [Angstrom Linux](#).
- [Bug Labs](#) – a handheld prototyping system based on the Texas Instruments OMAP3530 processor with ARM Cortex A-8 (600 MHz) [Angstrom Linux](#).
- [CuBox](#) – a cube shaped micro PC, 3 Watt in it's power consumption and 2" cube in it's size.
- [ECB ATmega32/644](#) – [Single-board computer](#) based on the [Atmel ATmega32/644](#) (20 MHz) with webserver-capability and less than 100 mA power consumption.
- [ECB\\_BF532](#) : DSP development platform
- [ECBOT](#) : Robotics platform based on Atmel's AT91RM9200 SoC
- [Ethernut](#) – open-source electronics prototyping platform for building tiny Embedded

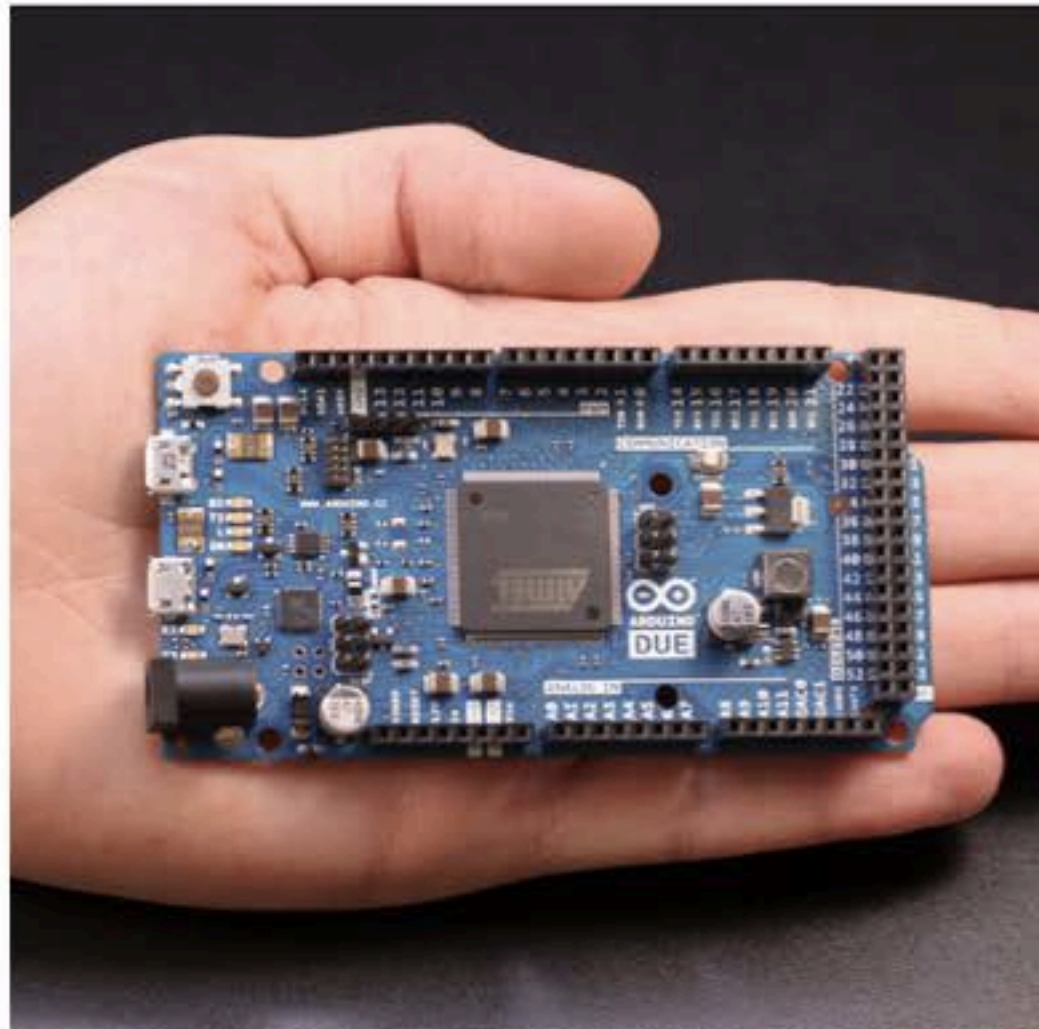
#### **Contents** [\[hide\]](#)

- 1 Computer systems
- 2 Cameras
- 3 Amateur radio
- 4 Computer components
  - 4.1 CPU
  - 4.2 Graphics cards
  - 4.3 Wireless hardware
  - 4.4 Laptop case
- 5 Audio electronics
- 6 Music electronics
- 7 Video electronics
- 8 Other
- 9 Agriculture and Food
- 10 Housing and Structures
- 11 Science education
- 12 Aviation
- 13 Telephony
- 14 Machines and tools
- 15 Renewable energy
- 16 Robotics
- 17 Home automation
- 18 Medical devices and biotech





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Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments.

Arduino can sense the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lights, motors, and other actuators. The microcontroller on the board is programmed using the [Arduino programming language](#) (based on [Wiring](#)) and the Arduino development environment (based on [Processing](#)). Arduino projects can be stand-alone or they can communicate with software running on a computer (e.g. [Flash](#), [Processing](#), [MaxMSP](#)).

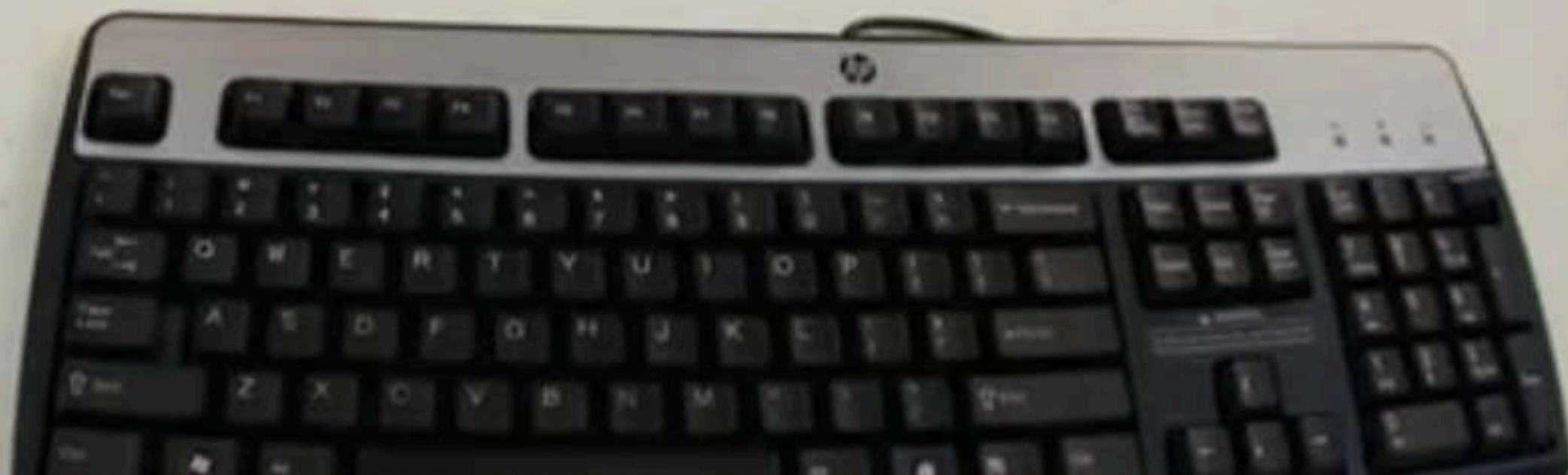


MAKE

AW

.

8





# open source ecology



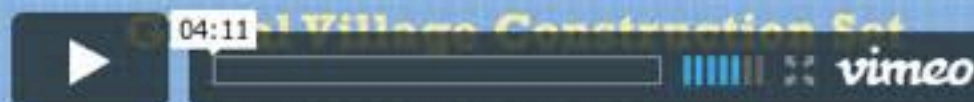
■ home  
about  
GVCS  
videos

## A Network of Farmers, Engineers, and Supporters Building the **Global Village Construction Set**



The **Global Village Construction Set (GVCS)** is a modular, DIY, low-cost, high-performance platform that allows for the easy fabrication of the 50 different *Industrial Machines* that it takes to build a small, sustainable civilization with modern comforts.

**Get involved.**



Search...

Open Source Ecology  
OSEcology

OSEcology @PopSci we build open source industrial machines and share our designs online. Can you help us spread the word? [bit.ly/RJPKHz](http://bit.ly/RJPKHz)

5 hours ago · reply · retweet · favorite

OSEcology Powercube assembly video: Coming soon.

[instagram.com/p/S1IJLcQvnl/](http://instagram.com/p/S1IJLcQvnl/)

3 days ago · reply · retweet · favorite



Join the conversation

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14,657 people like this. Be the first of your friends.



### recent videos



2012-2013

2012/11/29 ♦ OSE Project Outline 2012-2013.





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source  
ecology



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-GVCS  
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forums



## Global Village Construction Set

Search...

The [Global Village Construction Set \(GVCS\)](#) is an open technological platform that allows for the easy fabrication of the 50 different *Industrial Machines* that it takes to build a small civilization with modern comforts.

### Key Features of the GVCS:

Open Source - Low-Cost - Modular - User-Serviceable - DIY - Closed-Loop Manufacturing - High Performance - Heirloom Design - Flexible Fabrication

A modern, comfortable lifestyle relies on a variety of efficient Industrial Machines. If you eat bread, you rely on an Agricultural Combine. If you live in a wood house, you rely on a Sawmill. Each of these machines relies on other machines in order for it to exist. If you distill this complex web of interdependent machines into a reproduceable, simple, closed-loop system, you get these:

### The GVCS 50:



#### 3d Printer

an additive manufacturing technology where a three dimensional object is printed by laying down successive layers of material, just like a printer except in 3D.





open  
source  
ecology



Windowfarms

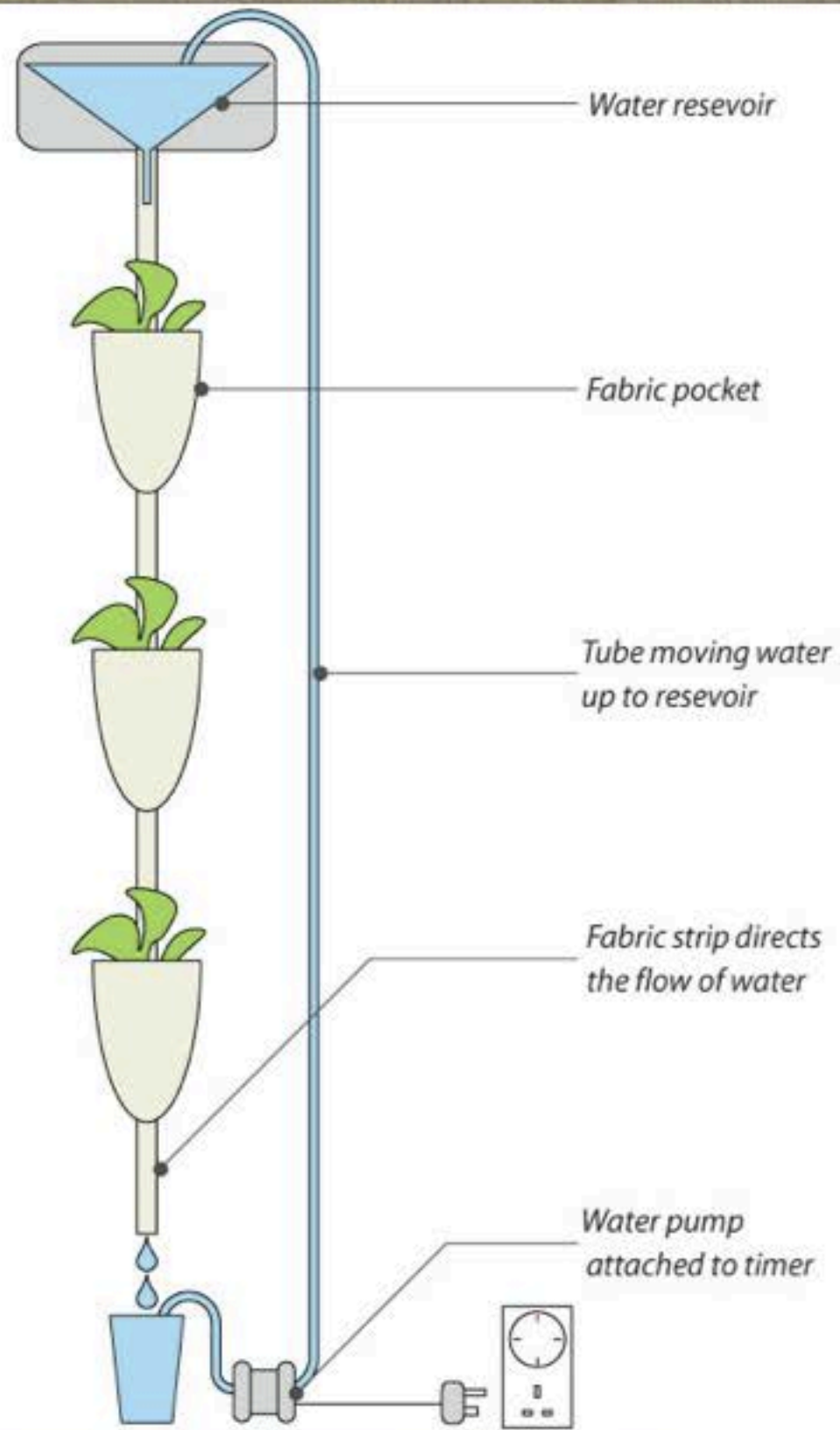
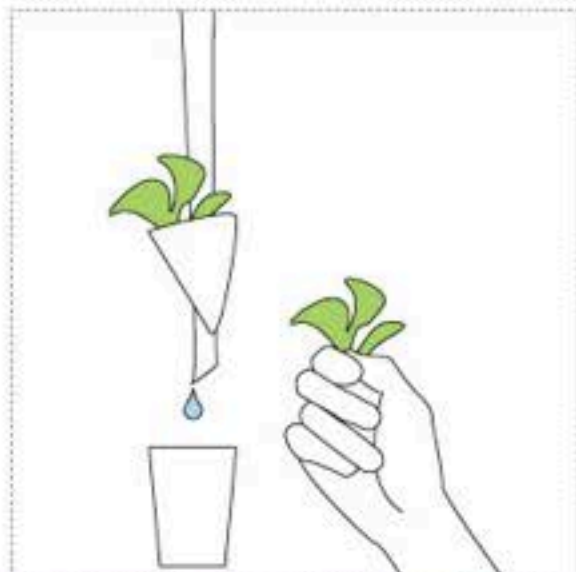
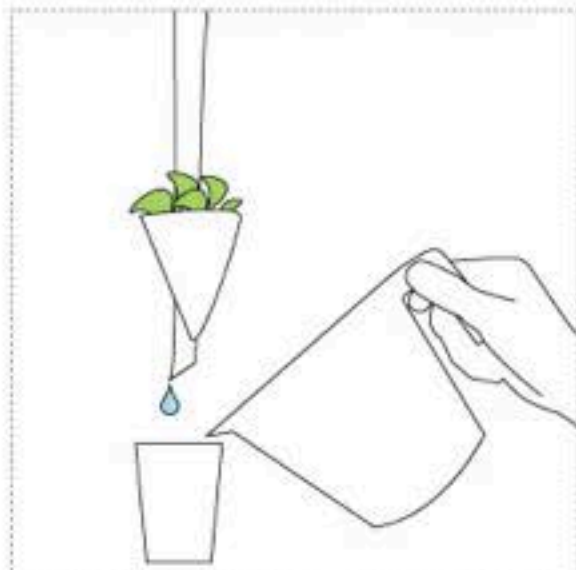
Hydroponic Food Gardens for urban windows



# WindowGarden

Growing even some of our own food is one of the best things we can do for the environment.

Michael Pollan














Digital designs for real, physical objects. A Universe of Things!

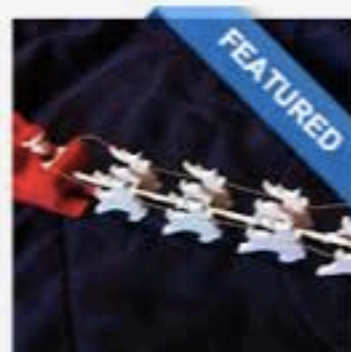
 [UPLOAD A THING](#)

## Featured Things (3,571 things)



**USB Xylophone**

Created by [Benjamin](#)  
4 months ago



**Santa Sleigh with 8 Reindeer for Lego...**

Created by [chelmaki](#)  
1 day ago



**Breach Preview**

Created by [dutchmogul](#)  
2 days ago



**measuring cup with handle and spout**

Created by [Jerril](#)  
1 day ago



**Snake/Chain Desk Toy**

Created by [cymon](#)  
1 year ago



**Human Skull**

Created by [JamieLaing](#)  
4 days ago



**Advent Calendar**

Created by [ploppik](#)  
6 days ago



**Butterfly Comb (Fun, Functional, Aggressive)**

Created by [idolcrasher](#)  
6 days ago



**Double Decker Bus & Chassis (Parametric)**

Created by [CodeCreations](#)  
4 days ago



**Pacman Ghost, Steampunk Version**

Created by [sdraxler](#)  
5 days ago

## Latest From The Thingiverse Blog



### Introducing Thingiverse Collections: Collect All The Things!

Last month, Thingiverse users got introduced to Dashboard, a new all-in-one place to catch up on the latest activity. Today, we're thrilled to roll out another great feature aimed at helping users build a unique space for themselves within this exciting and growing site. Introducing Thingiverse Collections, a tool to organize...

[READ MORE](#)



Digital designs for real, physical objects. A Universe of Things!

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## Crocs like repair parts



Created by  
[steeve\\_becker](#)

Created on Jun 3, 2012

[Household](#) > [Replacement Parts](#)

if you choose to buy a low cost Crocs like (please prefer the real one : Crocs are very good)  
This is to repair it...



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### Instructions

one weak point is the back part which breack at the rivet area.

I have designed 2 pieces to repair.

In my case the rivet is not broken that's why I've design in 2 pieces.

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## DIY Repair of a Baby Stroller... in 3D!

BY ROY WOOD 09.14.11 7:30 AM

A



DIY replacement parts (photo by Duann Scott)

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clever dad named Duann Scott has posted a terrific [Instructables guide](#) describing how he custom-designed a replacement part for a Bugaboo pram, had the part 3D-printed by Shapeways, repaired the pram, and saved over \$200 in the process.

The Scott family Bugaboo recently developed a problem with the handle lock on the pram, and the official replacement parts from the manufacturer are priced at \$250. That price seemed outrageous to Duann, since the broken part was simply a small metal plate. Thankfully, Duann is a do-it-yourself kind of guy, so he was able to model a replacement part himself. After the design was complete, it was simply a matter of uploading the design to Shapeways where it was 3D-printed in stainless steel for about \$25. Once the parts arrived in the mail, Duann popped them into the hinge, making the pram as good as new again— and the Scott family had saved themselves \$225.



For those not familiar with the company, [Shapeways](#) is an online service that will produce 3D "printed" objects from custom designs. They will accept designs made with a number of CAD packages, including Google's Sketchup or Wings3D (both free), or by simply customizing existing objects in the Shapeways catalog. Objects can be cast in various mediums, including plastic, stainless steel, alumide, glass, and sterling silver. If you're interested in more detail, check out the [Shapeways overview page](#), or previous GeekDad postings [here](#) and [here](#).



The broken originals and fixed parts (photo by Duann Scott)

I got in touch with Duann, and he was kind enough to answer some questions for us. It turns out he actually works for Shapeways, and was a little reluctant at first because he didn't want to be seen as a sneaky, astro-turfing marketing shill. I don't think it matters at all that he is a Shapeways employee, since the real story here is that cheap, custom 3D printing is available here and now, allowing us DIYers to do things that were previously unreasonable, if not impossible.





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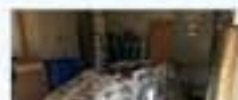
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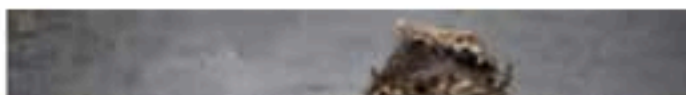
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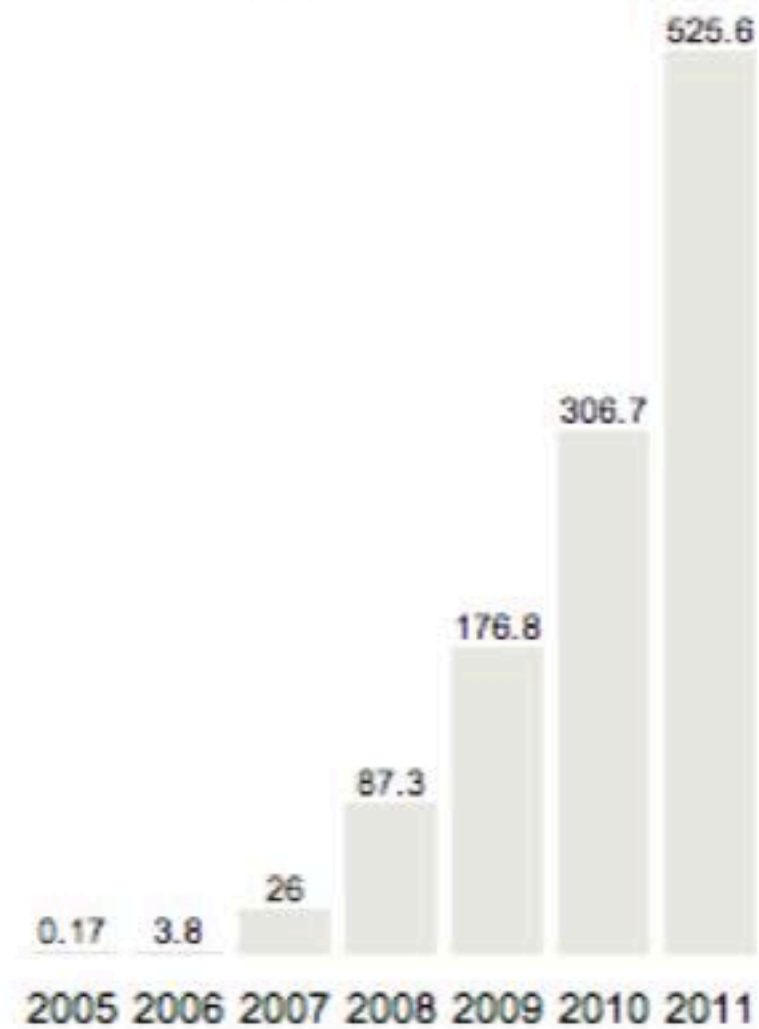
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