









Motivating Story



Two high school interns



One aerial quadcopter robot



One professor (me)







SEARCH

HELP & SHIPPING







FLOWER POWER AR.DRONE AR.DRONE 2.0 HEADPHONES WIRELESS MUSIC PORTABLE HANDS FREE CAR KITS HANDS-FREE CAR KITS

Online Shop > AR.Drone 2.0 > Accessories > Parrot GEARS & SHAFTS for AR.Drone 2.0 (compatible with AR.Drone)



Parrot GEARS & SHAFTS for AR.Drone 2.0 compatible with AR.Drone \$14.99
61 In Stock Now Stock Usually Ships In 4 Days

ADD TO CART

Check out PayPal

YouTube Videos



AR.Drone 2.0 - Broken Propeller & Gear Replacement





Thingiverse Featured

Andrew Haglund's Air Stand is a designer booster seat that lets your laptop sit at the grown ups table.

Learn More

Global Feed

Latest Thingiverse Activity



aBrainDump liked Board game bits (moved)



aBrainDump liked Chinese Checkers - Printable and ...



sbarde started using Customizer



barbarahoward started using Customizer



aBrainDump liked Random Vase V2 (moved)



Featured Collections

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T-Rex Remix



10 Min Challenge



Customizable



see more >

Wearables



Super Users

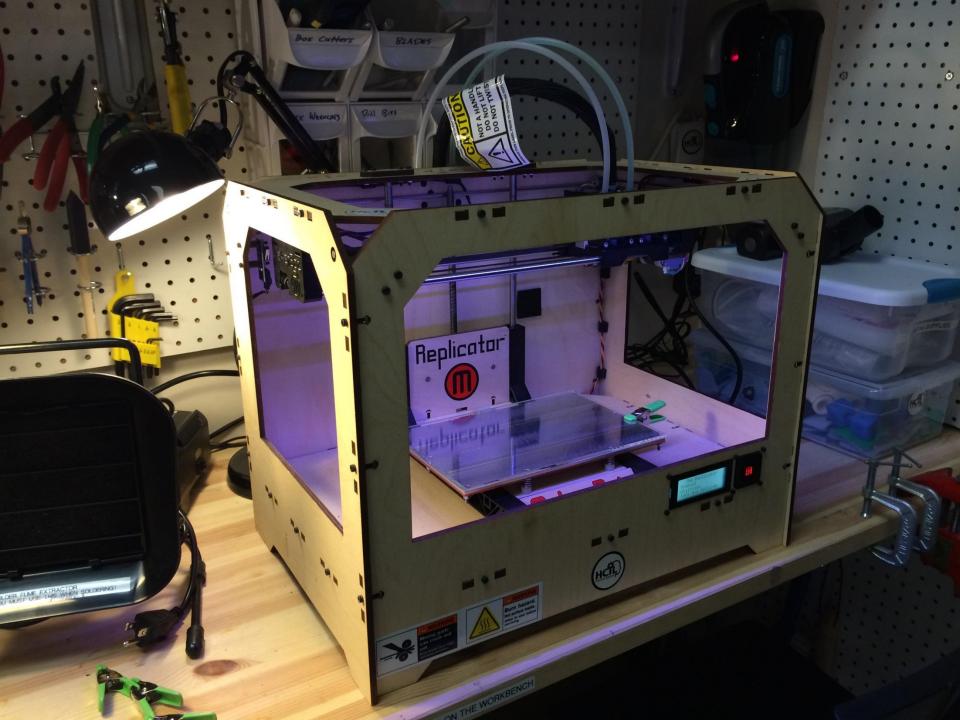


Household



Challenging

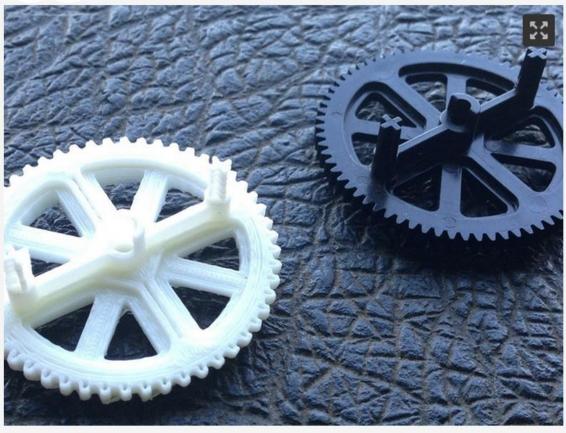


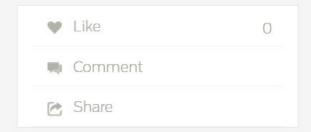






AR Drone Gear v3.3 Made by Geoffro, uploaded Oct 20, 2013





Source



III 320

Description

These actually work very wel, thank you. I used 50 percent infil, 0.2mm abs

Comments

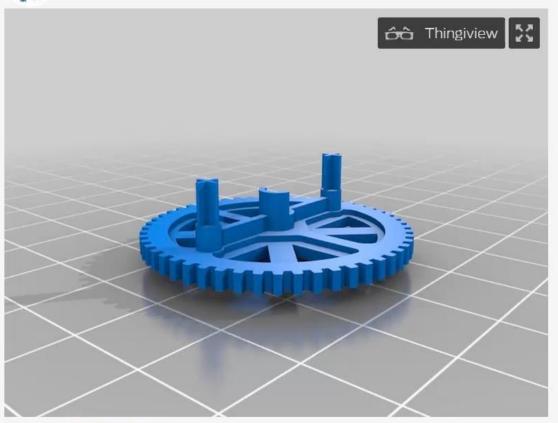
What's remarkable is not just that these students did this but that they *thought* of doing it and had the resources around them to seamlessly support the effort.

But the story does not end there...

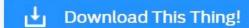


Hey! This thing is still a Work in Progress. Files, instructions, and other stuff might change!





| V Like | 27 |
|---------------|----|
| Collect | 29 |
| Comment | 18 |
| ☑ I Made One | 1 |
| Watch | 1 |
| Remix It | 1 |
| | |





















Remixes



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28

0

79

0

Thing Info

Instructions

Thing Files

Comments

Made

Collections

Description

Replacement propellers, gears, and clips to get your Parrot AR Drone up and flying again. Or just make your drone look awesome by printing in new colors.

The models of the propellors and gears are edited versions of models by ajolivette, bellbm and jingabar. I would like to thank these makers for all of the dedication they put into their models to help others.

111 4966



Found in R/C Vehicles

Report Thing as Inappropriate

Remixed From

Recent Comments



Built-in tool support for remixing

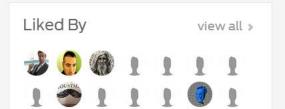


Fixed AR drone 2.0 propellor by G.

AR Drone Gear v3.3 by ajolivette



comments have been deleted.









Download This Thing!















Thing Info Instructions



Thing Files

28 Comments

0 Made

79

Collections

0

Description

Replacement propellers, gears, and clips to get your Parrot AR Drone up and flying again. Or just make your drone look awesome by printing in new colors.

The models of the propellors and gears are edited versions of models by ajolivette, bellbm and jingabar. I would like to thank these makers for all of the dedication they put into their models to help others.





Explicit shout-out support for & nod to spirit of remixing making / sharing

Built-in tool



comments have been deleted.





Found in R/C Vehicles

Report Thing as Inappropriate

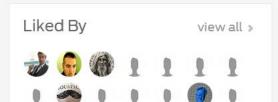
Remixed From

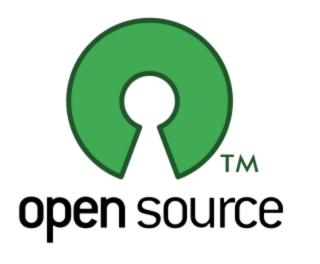


AR Drone Gear v3.3 by ajolivette



Fixed AR drone 2.0 propellor by G.







This is a B (5 deal

The Power of "Desktop"

Democratize the tools of creation



Democratize the tools of distribution





How the 'Maker' Movement Plans to Transform

In his new book, WIRED editor-in-chief Chris Anderson writes that technology has "democratized the U.S. Economy the means of production."

By Sam Gustin @samgustin | Oct. 01, 2012 | 9 Comments













Read Later

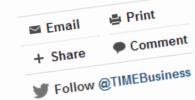
Chris Anderson was trying to fire up his kids about science and technology when he flew the family's radio-controlled airplane into a tree on Hopkins St. near their Berkeley, Calif. home. After a lot of rock-throwing and branch-flinging, Anderson finally retrieved the wreckage. "My kids were mortified," Anderson told me last week. "I had to bribe them with ice-cream."

It was Anderson's second attempt in as many days to do a science project with his children, and the experiments weren't going well. The previous day, he had brought home a Lego robot review-model from the office. Anderson and his family spent all "three-wheeled rover that bounced off the walls." His kids were unimpressed. morning assembling the device, only to finish with a "No lasers? No rockets? It doesn't turn into a

hardor to make in real life than in



WIRED editor-in-chief Chris Anderson.





TIME

SMALL BUSINESS

How the 'Mak the U.S. Ecor

In his new book, WIRED the means of production

By Sam Gustin @samgustin





Chris Anderson was tryir science and technology radio-controlled airpla St. near their Berkeley rock-throwing and br finally retrieved the mortified," Anderso bribe them with ice

> It was Anderson's do a science proje experiments wer he had brought from the office morning asser "three-wheele



OCTOBER 29, 2013, 8:31 AM | | 13 Comments

The Wide Open Era in 3-D Printing



Pirate3D's printer has a new casing — and a very Apple-esque design touch.



FACEBOOK

SINGAPORE — For a 15-person start-up in 3-D printing — a



SMALL BUSINESS

How the 'Mak



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The Real Romney



Philippine Economy Set to Become Asia's Newest Bright Spot

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New Program:

Calumbia Management



SMALL BUSINESS







With a wealth of unprecedented tools and resources, it has never been easier for people to explore their own personal creativity. Technology is adding simplicity and removing barriers, allowing for a fuller range of creative expression, something particularly true in the emerging maker movement.

For the unfamiliar, the maker movement is a tech-infused subculture of do-it-yourself (DIY) culture. So where one would engage in a creative project – jewelry making, scrapbooking, fashion, etc. – a maker would leverage technology to complete it. Think using a cutting machine instead of scissors. It takes manual processes and makes them automatic, resulting in more professional-looking, high-

While perhaps best known by its use of 3-D printers, maker culture also consists of traditional arts and crafts, robotics, electronics and metalworking and woodworking. Its parent DIY culture is a

















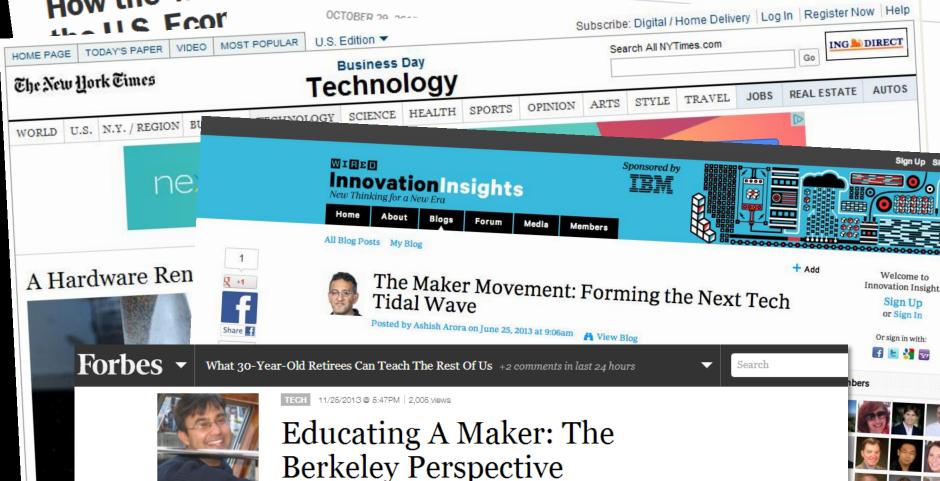
How the 'Mak

Rakesh Sharma

Contributor



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This Talk: Three Parts

Rise of Maker/DIY Movement

Making & Makerspaces at UMD

'Making' in the Classroom



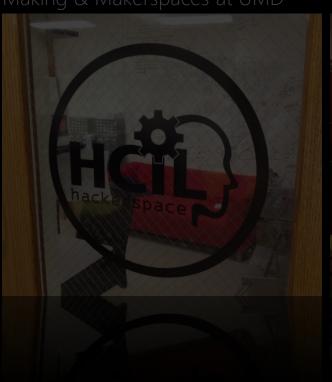




Rise of Maker/DIY Movement











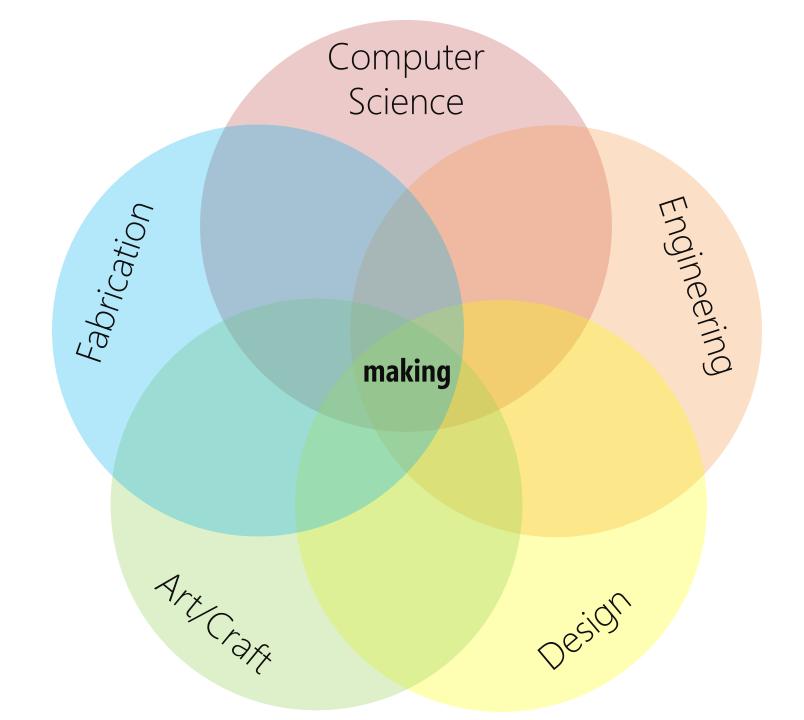


'Maker culture' emphasizes **learning-through-doing** (constructivism) in a social environment. Typical interests include electronics, robotics, 3D printing, and the use of CNC tools, as well as more traditional activities such as metalworking, woodworking, and traditional arts and crafts.

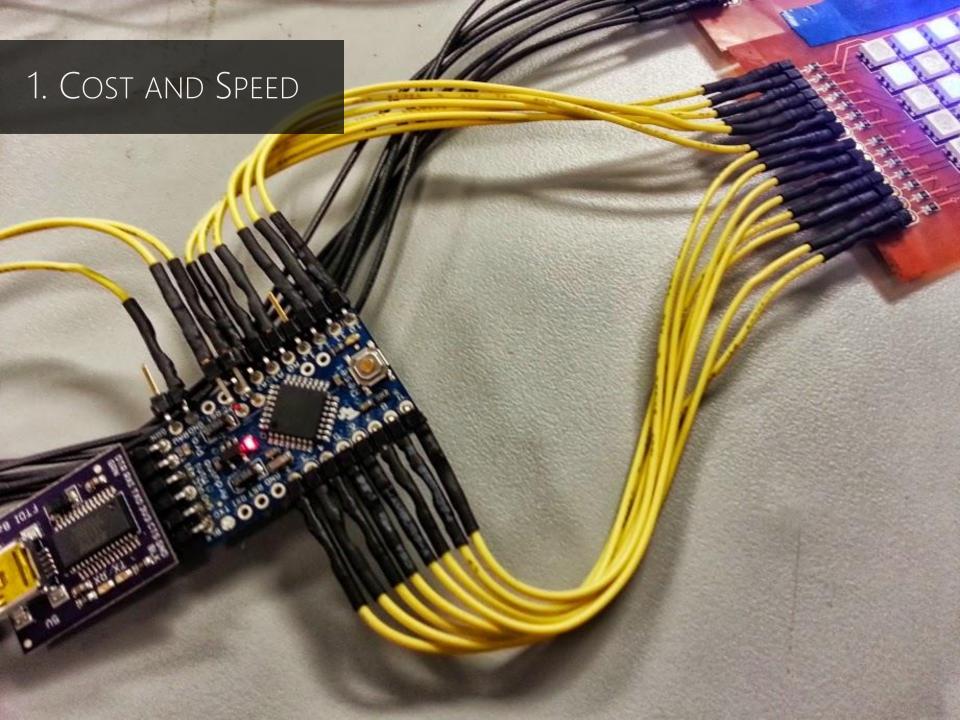


'Maker culture' emphasizes learning-through-doing (constructivism) in a social environment. Typical interests include electronics, robotics, 3D printing, and the use of crafts. The culture stresses new and unique applications of technologies, and encourages invention and prototyping. There is a strong focus on using and learning practical skills and applying them creatively.

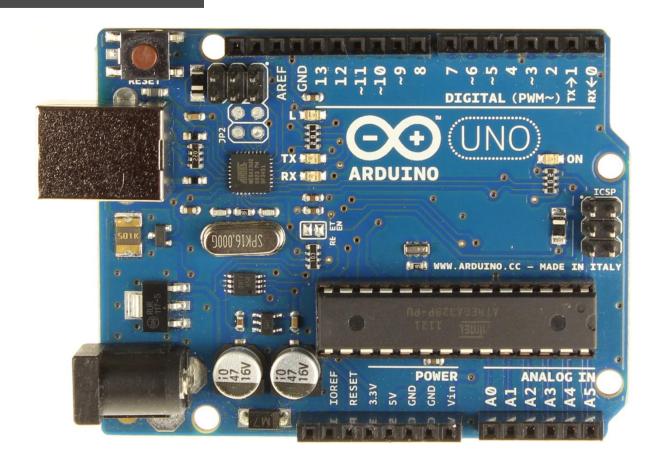
Wikipedia
Maker Culture
http://en.wikipedia.org/wiki/Maker_culture



why now?



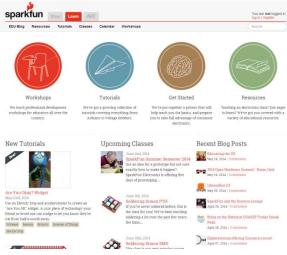
2. Open Hardware

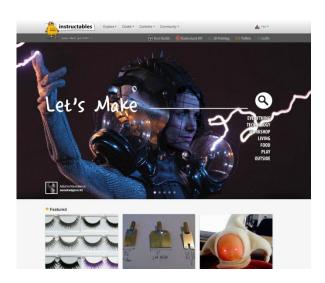


The Arduino has lowered the barrier to programming physical computing systems and created a vibrant eco-system of use

3. The Internet







Websites provide easy access to help, supportive communities, and, just as importantly, purchasable materials

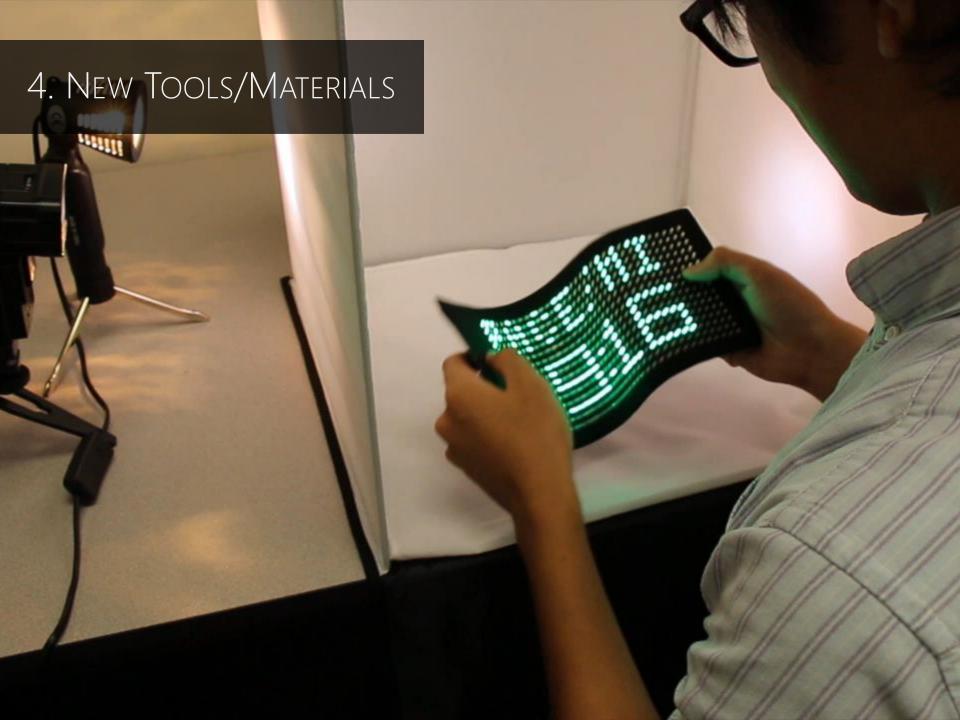
4. New Tools/Materials



3D-Printing



CNC machines





Maker Faire WHAT'S IT CHECK OUT THE HOW TO IN THE SEE ALL THE PROGRAM PARTICIPATE MEDIA FAIRES

It's a wrap! See you in New York



Live from @makerfaire Bay Area 2014 on Instagram

























GO





@HYPERDRIVE151 and fellow #MakerFaire

presenters, communitech.ca/start-news/howÖ

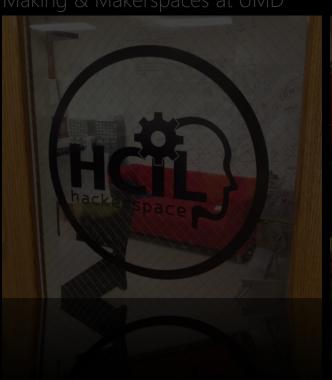
HCIL Booth at the Silver Spring Mini-Maker Faire



Rise of Maker/DIY Movement









Rise of Maker/DIY Movement

Making & Makerspaces at UMD

'Making' in the Classroom





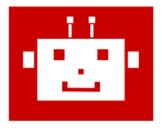












ter·ra·pin (n.) / terəpin/

1. Any of several North American turtles of the family Emydidae, that live in fresh or brackish water: especially diamondback terrapin.

The diamondback terrapin has been the University of Maryland's official school mascot since 1932.

hack er (n.) / hækər/

- 1. One who makes innovative customizations or combinations of retail electronic and computer equipment.
- 2. One who combines excellence, playfulness, cleverness, and exploration in performed activities.

Make awesome stuff. Meet fantastic people. Maybe even win a hackathon. No experience needed. Join now!

We do three things:

- 1. Hacktorials. Weekly student run workshops.
- 2. Hack nights. Make something every Wednesday evening.
- 3. Hackathon trips. Everyone should go to a hackathon.



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Terrapin Hackers Awarded 1st Place Trophy in Major League Hacker Standings

October 18, 2013



On November 6, 2013, the Terrapin Hackers were officially crowned the champions of the inaugural Major League Hacking season in a ceremony held at the Jeong H. Kim Rotunda. MLH Commissioner Mike Swift presented a handmade two foot statue to the dozens of

Hackers who spent countless hours building and coding innovative apps and products during the six-week season.

The president and co-founder of Terrapin Hackers, Shariq Hashme, a double major in Computer Science and Electrical Engineering, stood in front of a crowd of computer science and engineering students and proudly demonstrated the winning hacks from HackRU at Rutgers University and M-Hacks at the University of Michigan.

The students were recognized by distinguished faculty and staff as well. Dr. Samir Khuller, Department Chair of Computer Science and Dr. Rama Chellappa, Department Chair of Electrical and Computer Engineering offered congratulatory speeches to the members of Terrapin Hackers and Dr. Darryll Pines, Dean of the Clark School of Engineering also offered the students words of encouragement as well.

The Terrapin Hackers http://www.terrapinhackers.com/, are a dynamic group of over 150 Computer Science, Engineering and other students from the University of Maryland claimed first place in the Major League Hacker Standings http://mlh.io/standings/. Throughout the first half of the fall semester, the Terrapin Hackers spent their weekends competing in Hackathons—24 to 96 hour events in which students code or 'hack' a software or hardware project from scratch. The Terrapin Hackers travelled to events in:

- Philadelphia (PennApps http://2013f.pennapps.com/)
- Michigan (MHacks http://www.mhacks.org/)
- New York (HackNY http://hackny.org/a/)
- Boston (HackMIT http://www.hackmit.org/)

New Jersey (HackRU http://www.hackru.org/).

RELATED

- Computer Science
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RECENT NEWS

May 01, 2014

Amnon Lotem Recognized with the 2014 Gödel Prize

April 30, 2014

Sergey Ivanov Runs Boston Marathon

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April 16, 2014

Fang Cao Named 2014 Truman Scholar

April 14, 2014

Rajesh Chitnis Wins
Outstanding Graduate Student
Award

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Hackathon @ University of Maryland April 4-6, 2014

a new hackathon experience

Take what you love, fuse it with tech, build something the world has never seen.

Camp is a place for creation, exploration, and imagination. At Bitcamp, you'll have 36 hours to combine your curiosities and wild ideas with code and gadgets to make something awesome. Throw in world-class mentors and hundreds of peers from around the world, and you're in for an amazing time. See you by the bonfire!







Bitcamp retweeted



Kirk Morris @kirk_morris2 4/6/14 .@bitcmp, today I attended my first hackathon and my way of thinking has forever changed.....











UMD Maker/Hackerspaces

Maker Shed Store Projects Blog Videos Maker Faire Events Education Maker Pro Contribute Books Magazine

Find all your DIY electronics in the MakerShed → 3D Printing, Kits, Arduino, Raspberry Pi, Books & more!

SHOP NOW

Is it a Hackerspace, Makerspace, TechShop, or FabLab?

By Gui Cavalcanti Posted May 22nd, 2013 1:34 pm Category Education, Maker Pro, Makers, Makerspaces View Comments



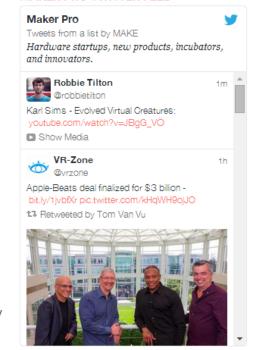
The past decade has seen the sudden, dramatic appearance of community spaces offering public, shared access to high-end manufacturing equipment. These spaces are interchangeably referred to as hackerspaces, makerspaces, TechShops, and FabLabs. This can lead the intended audience to become incredibly confused as to why there might be so many names for a single concept. I'd like to take some time to untangle the mess, explain the concepts behind each title, and talk about why I now make significant distinctions between all of these types of spaces.

Let's start with the hardest to untangle – what's the difference between a Hackerspace and a Makerspace?

Hackerspaces

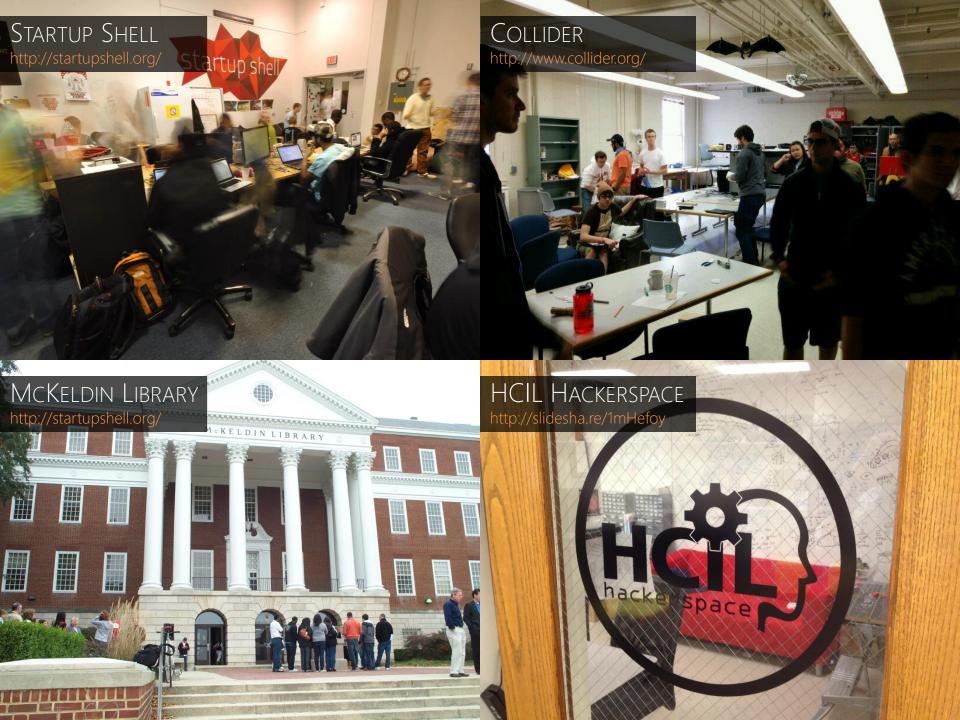
I'll start by saying that there are many people "in the know" who don't make any distinctions between the term 'hackerspace' and 'makerspace'. Truth be told, these people usually associate themselves with hackerspaces. I personally find that I need to differentiate between the two, because at this point the concepts and representations behind the words have diverged significantly for me. Let's start with a little bit of history on hackerspaces, both paraphrased from Wikipedia and drawn from personal knowledge.

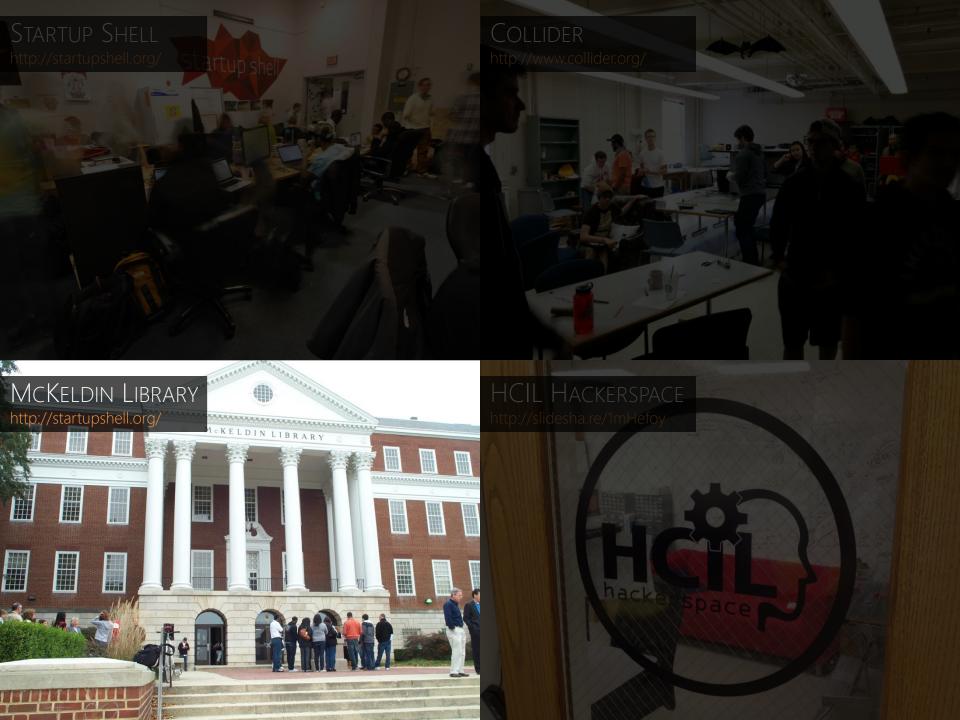
MAKER PRO TWITTER FEED



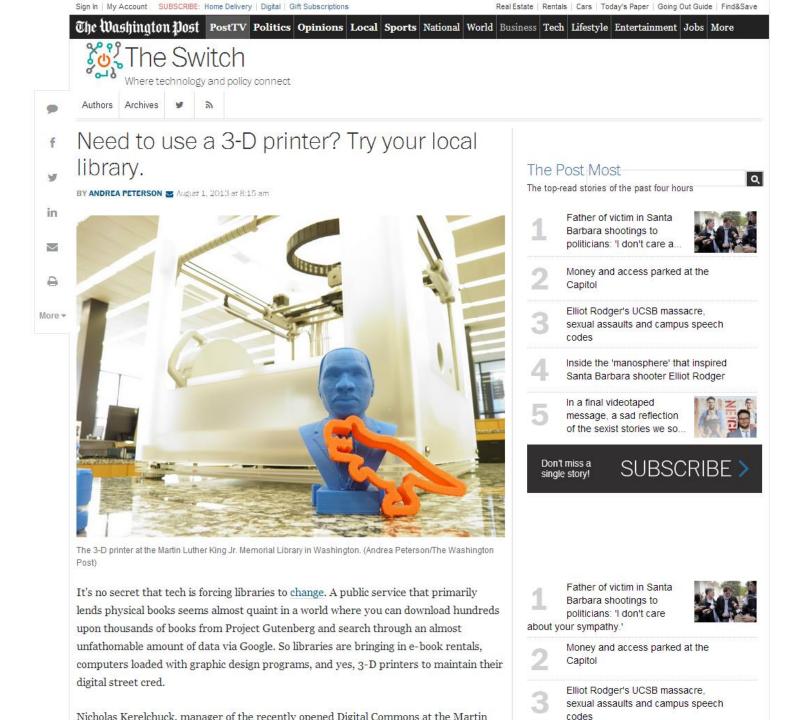


UMD Maker/Hackerspaces





what makes a space a makerspace





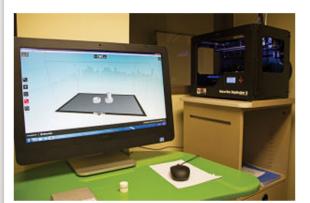


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McKeldin Library gains 3-D printer





James Levin/The Diamondback

3-D printer

McKeldin Library now has the capability to print 3-dimensional objects on the second floor with the new MakerBot Replicator. Posted: Tuesday, September 10, 2013 1:11 am | *Updated*: 1:04 am, *Wed Sep 11, 2013*.



Posted on Sep 10, 2013 by Josh Logue There's a brand new 3-D printer in McKeldin Library, and anyone can use it. But so far, no one has.

Nestled in a corner behind the Terrapin Learning Commons Tech Desk on the library's second floor, the microwave-sized, black-accented MakerBot Replicator 2 glows blue through a window. The \$2,500 piece of equipment, paid for through funds from the student technology fee, officially became accessible to the public on Friday, and learning commons staff said they are still waiting for the first person to request to print an object.

"We wanted to give students across different disciplines access to a resource they may not have through their own department," said Gary White, library public services associate dean. "A low-cost way to bring an idea of innovation forward."

The learning commons staff is on hand to acquaint students with the MakerBot, a machine that uses













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DIGITAL COMMONS





3-D SCANNING





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Select Language

EVENTS + CLASSES

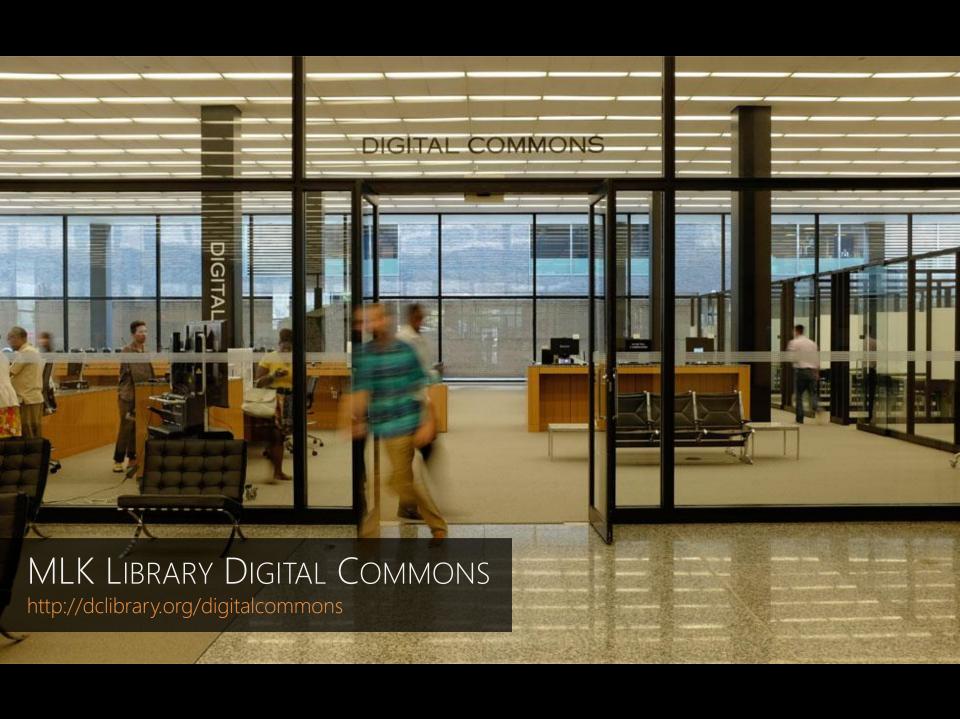
DIGITAL C O R L O L O A M B S



A B O U T US

DIGITAL COMMONS TECHNOLOGY MADE POSSIBLE IN PART BY







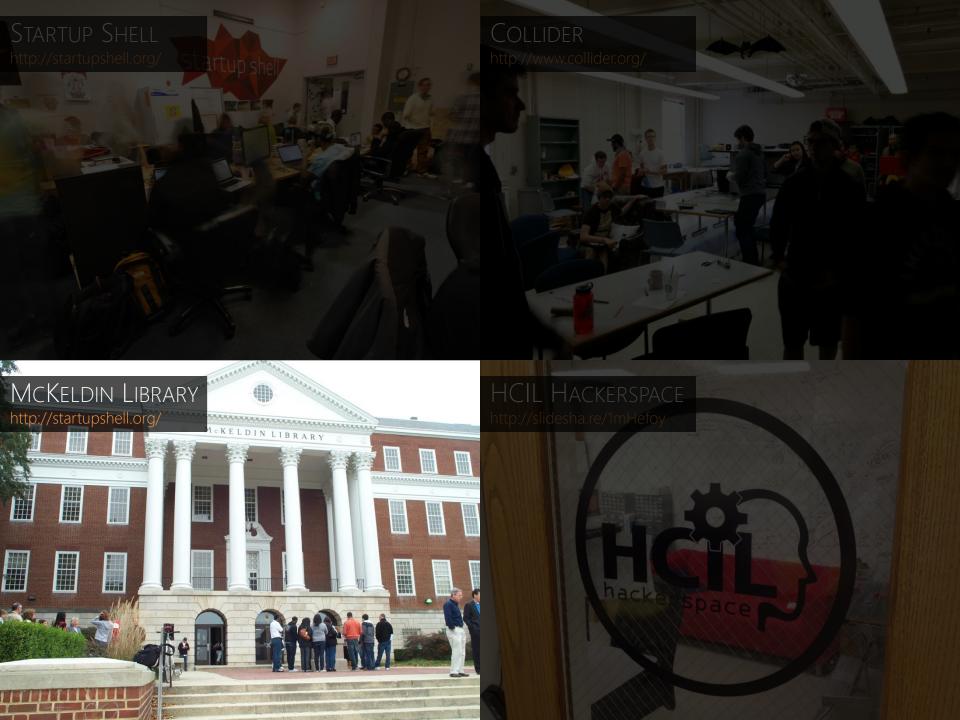


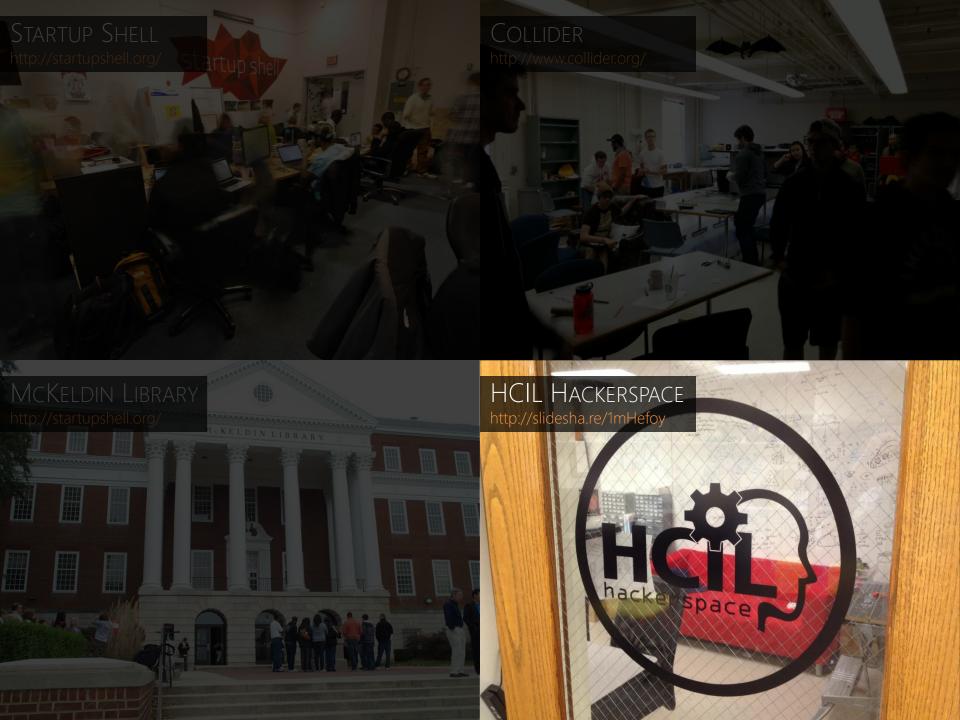












do you design a space for making?



I want(ed) to make the HCIL Hackerspace a place to...

```
...inspire creativity & excitement
```

...encourage and allow for serendipitous interaction

...attract a diverse set of students

...allow students to experiment, play, learn, make

...build community and imbue a spirit of collaboration

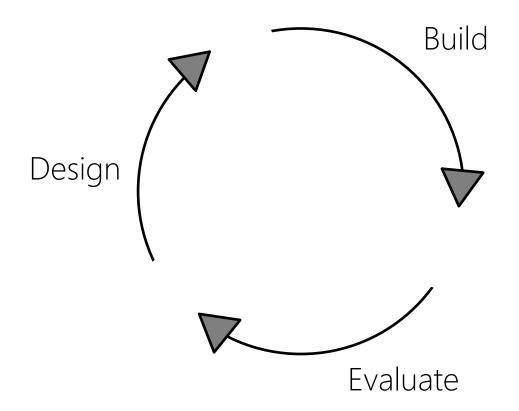
...rapidly prototype physical computing designs

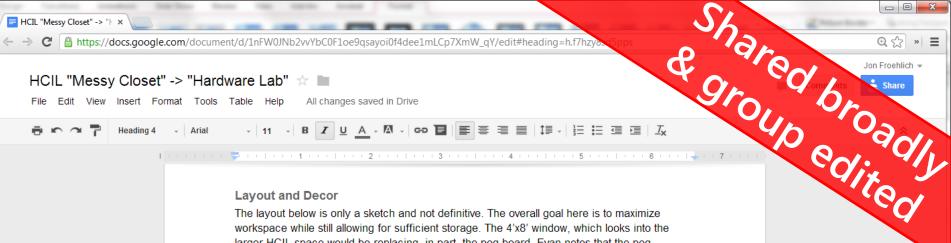
...promote working with low-tech and high-tech materials together

. . .

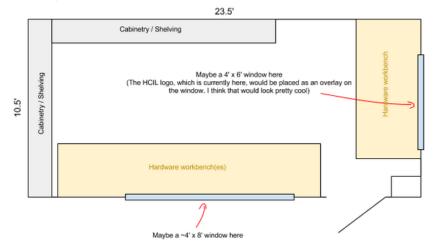
Human-Centered

Iterative Design





larger HCIL space would be replacing, in part, the peg board. Evan notes that the peg board is useful, however, for quickly storing and accessing tools so we will have to come up with a plan here.

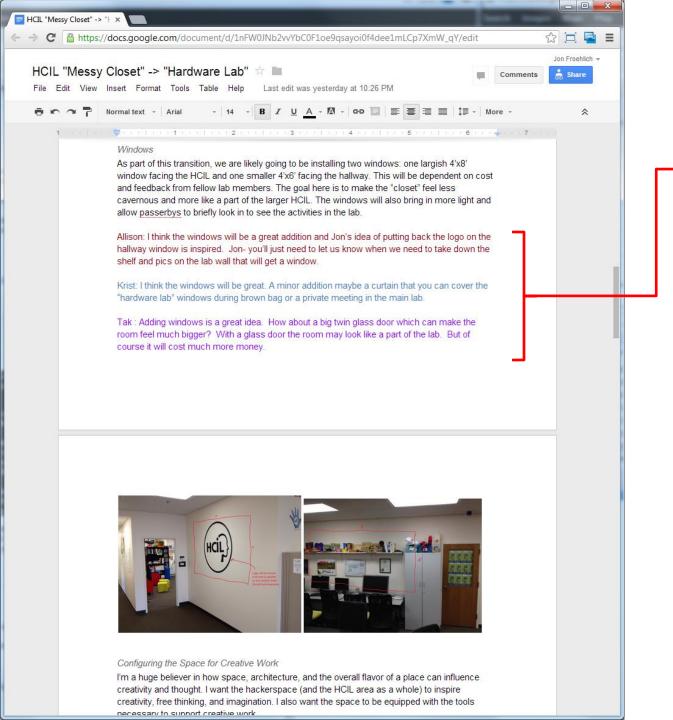


Windows

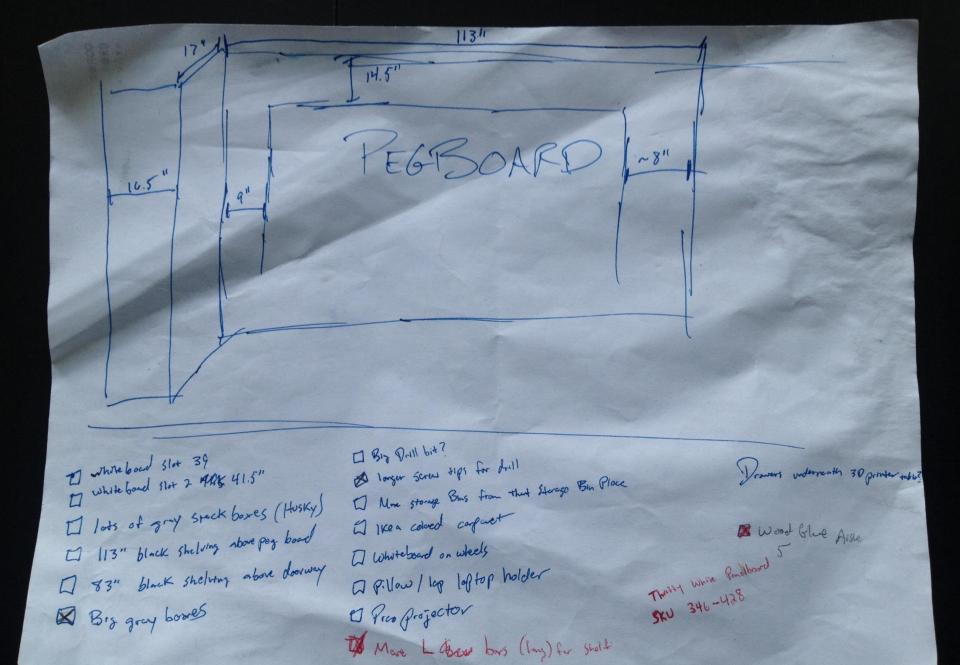
As part of this transition, we are likely going to be installing two windows: one largish 4'x8' window facing the HCIL and one smaller 4'x6' facing the hallway. This will be dependent on cost and feedback from fellow lab members. The goal here is to make the "closet" feel less cavernous and more like a part of the larger HCIL. The windows will also bring in more light and allow passerbys to briefly look in to see the activities in the lab.

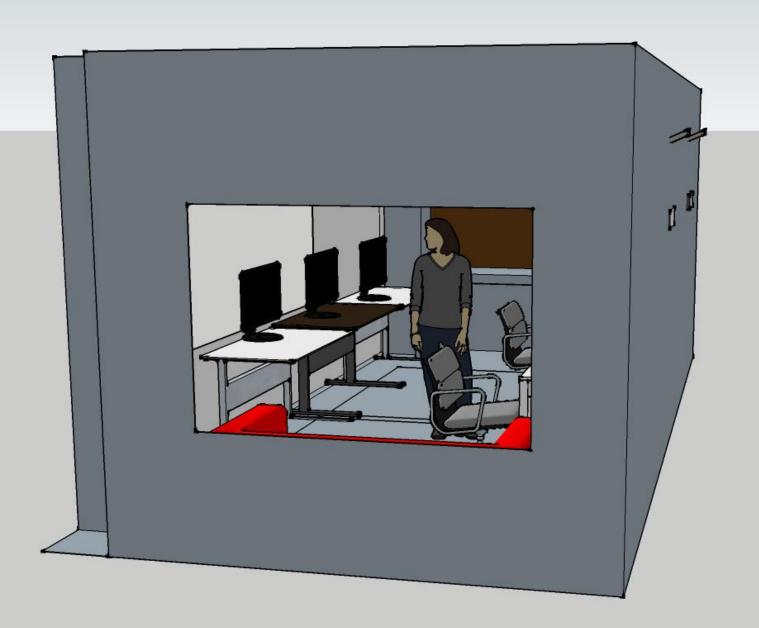
Allison: I think the windows will be a great addition and Jon's idea of putting back the logo on the hallway window is inspired. Jon- you'll just need to let us know when we need to take down the shelf and pics on the lab wall that will get a window.

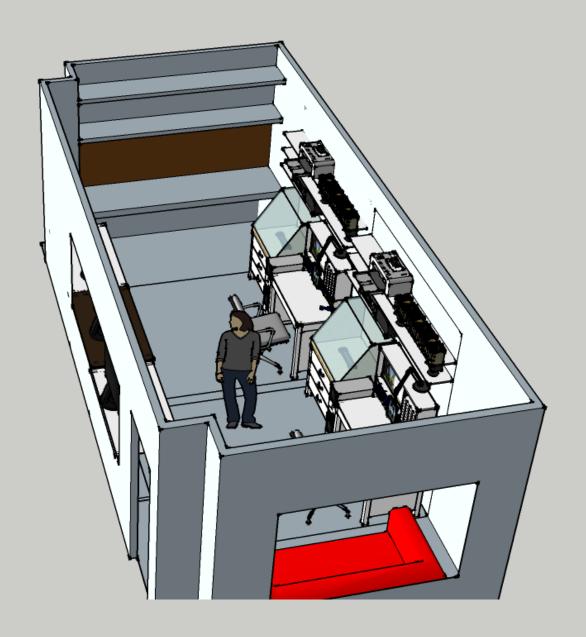
Vriet: I think the windows will be great. A miner addition maybe a curtain that you can



Google Docs enabled multiple parties to easily provide feedback and even make their own edits to the planning doc



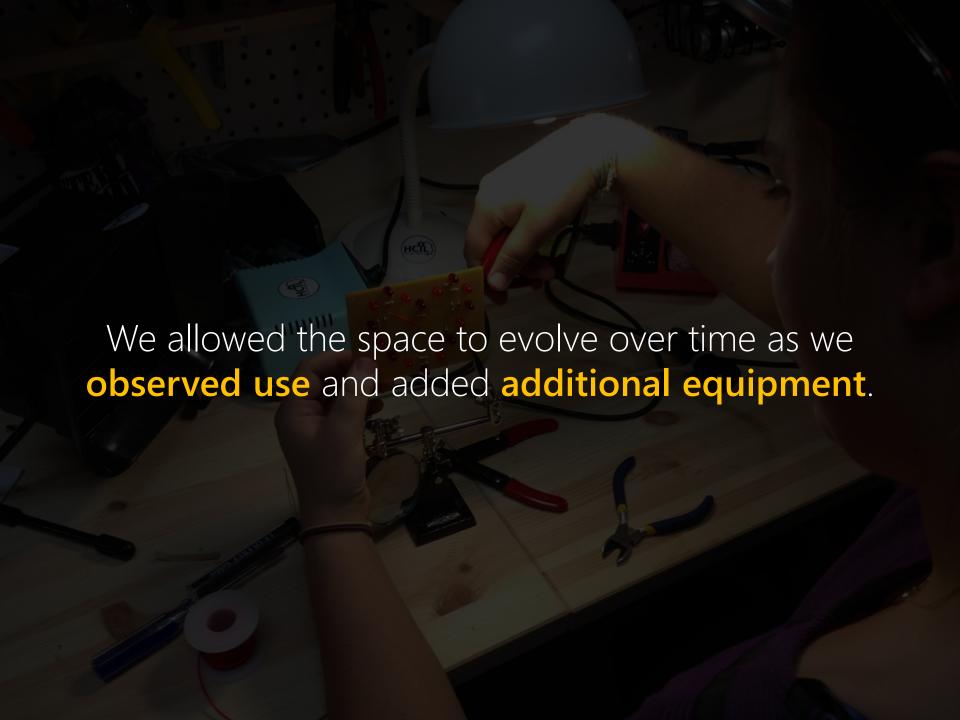






HCIL Hackerspace
Version 1.0





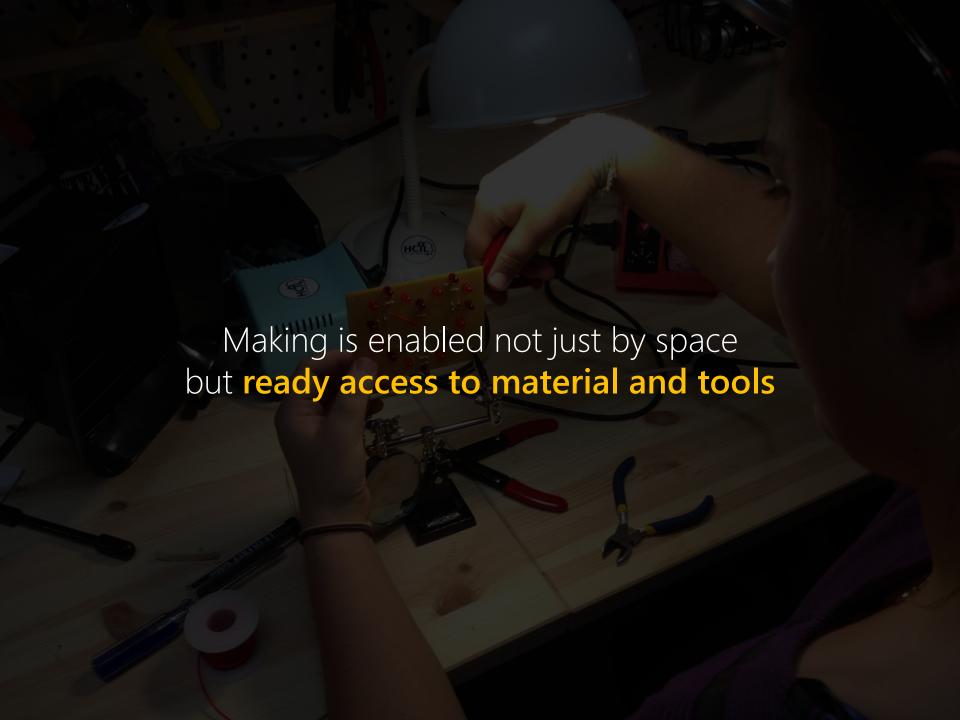
















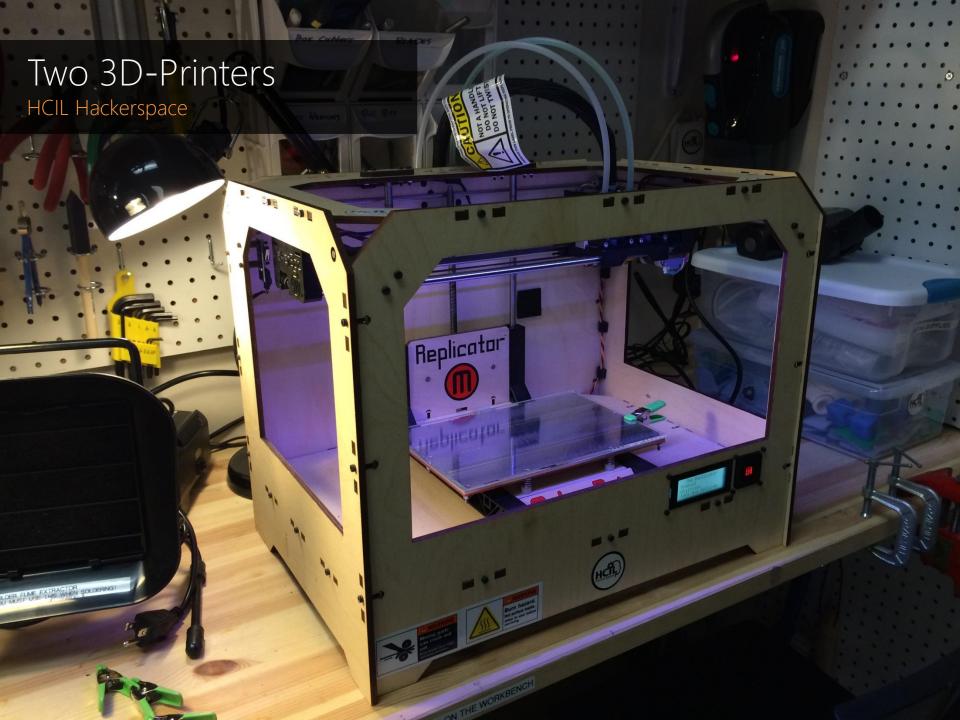
















Top Five Tips

- Observe the use of space and iterate
- 2. Allow the makers to help make the space
- 3. Configure not just for work but for inspiration
- 4. Big, open tables are important for collab making







Top Five Tips

- Observe the use of space and iterate
- 2. Allow the makers to help make the space
- 3. Configure not just for work but for inspiration
- 4. Big, open tables are important for collab making
- 5. Provide as much equipment as you can afford & keep it organized/accessible

Making & Makerspaces at UMD





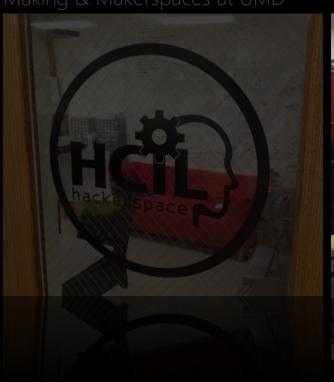


Rise of Maker/DIY Movement

Making & Makerspaces at UMD

'Making' in the Classroom







For me, the type of making that gets me excited combines **computation** with **physical material** to create new interactive experiences (*e.g.*, fabrics, objects)



My 'Maker' Course



Tangible Interactive ComputingFall 2012



Tangible Interactive ComputingSpring 2014

CMSC838f















"Joy is a well-made object, equaled only to the joy of making it."

-a Canadian Native American tribe saying, as quoted by Mark Fraunfelder 의 (author, co-founder of BoingBoing 의, & editor of MAKE
Magazine 의

Preamble

This class is about making, being creative, taking risks. We will make to learn and learn to make. We will use materials to help us think and to push our own boundaries of what interactive computing is and could be. I taught this class once before: http://cmsc838f-f12.wikispaces.com. It was, by most accounts, a success (I think!). I learned a lot. The class learned a lot. Most importantly, along the way, we had fun together, we made interesting things, and we helped each other (peer learning ftw).

As another indicator of success, the aforementioned Fall2012 class generated one MS thesis topic, one PhD thesis topic, and two publications (with more to come!). In addition, the instructables posted for the final project have garnered over 74,265 views and have been favorited 317 times (as of Jan, 2014) including HandSight (9,330 views, 58 favorites), indoor/outdoor tracker (33,642 views, 88 favorites), x-track music visualizer (7,150 views, 63 favorites), and the HCIL Hackerspace interactive living wall (22,613 views, 98 favorites). I hope for a similar diversity of compelling ideas and successes this year!

I will state up front: in this class, I do not have all the answers (note: I never do but particularly not in this class). I am learning with you. I am pushing myself to learn new things. You should too. So, it's likely that we'll experience some failures along the way. A mini-project might fail. My lectures might fail. But that's OK. Failures can often lead to accidental innovation and they most certainly help you learn. If you don't fail sometimes, you're not trying hard enough.:)

Course Pages

Home Schedule Resources HCIL Hackerspace

Individual Assignments

IA01 Background Survey - 1/29 되 IA02 Arduino Graph - 2/13
IA03 Partner Eval for MPA01 - 3/10 되 IA04 Partner Eval for MPA02 - 4/02 되 IA05 Partner Eval for MPA03 - 4/21 된

Mini-Project Assignments

MPA01 Input Inventions - 3/3 MPA02 High-Low Tech - 3/26 MPA03 Kinects & Motors - 4/16

Semester Project Assignments

SPA01 Project Pitch
SPA02 Project Presentation
SPA03 Project Instructable
SPA04 Project Video
SPA05 Project Artifact

Reading Assignments

RA01 Tangible Bits - 1/29 & RA02 Arduino Intro - 2/3 & RA03 Electricity Intro - 2/13 & RA04 Switches (p. 39-59) - 2/19 & RA05 Input Technology - 2/26 & RA05 Sensor-Based Input - 2/26 & RA06 Prototyping 3/5 &









MPA02 High-Low Tech Input/Output

Due: Monday, March 24 (before classtime)

Now Due: Wednesday, March 26 (before class, meet in HCIL)

What To Do

In this assignment, your **goal is to rethink the materiality of computing and interaction.** You must make a primary input device (e.g., paper joystick) or a primary output device (e.g., ambient display) using low-tech materials such as paper, conductive paint, play-dough, tape, water, food, etc. The primary interactivity must be mediated by the low-tech material (i.e., the low-tech material cannot be superfluous to your design, it must be directly integrated).

Some inspirational projects:

- Fawn Qiu's high-low tech version of Flappy Bird
- Jie Qi and Leah Buechley's "Computational Sketchbook"

 (video)
- Leah Buechley's High-Low Tech Living Wall.

Material Ideas and Some How-Tos

Leah Buechley's High-Low Tech Group has a nice listing of material sources a for electronic and conventional textiles, conductive inks and paper, and other materials. Browse her list and the list below and be inspired!

Paper Circuits

- Art, Craft, and Technology P, Leah Buechley at the Cyberlearning Research Summit, 2012

- Microcontroller [®] Circuit with Copper Tape [®], Leah Buechley's High-Low Tech Group

Projects

- Electronic Origami Flapping Crane , Leah Buechley's High-Low Tech Group
- Computational Sketchbook , by Jie Qi and Leah Buechley

Conductive Paint

My Love/Hate Relationship with Conductive Paint ₱, by Dia via Sparkfun



Semester Project Assignments SPA01 Project Pitch

SPA02 Project Presentation SPA03 Project Instructable

SPA04 Project Video

SPA05 Project Artifact

Reading Assignments

RA01 Tangible Bits - 1/29

RA05 Input Technology - 2/26

RA05 Sensor-Based Input - 2/26 RA06 Prototyping 3/5 47

edit navigation

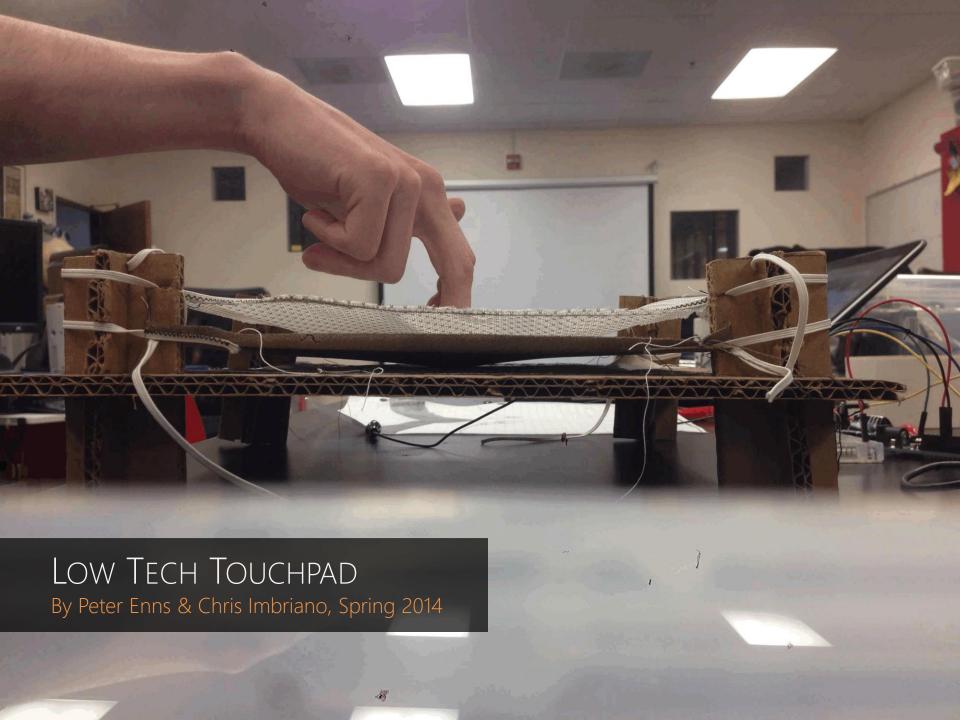
RA02 Arduino Intro - 2/3 RA03 Electricity Intro - 2/13 RA04 Switches (p 39-59) - 2/19 47

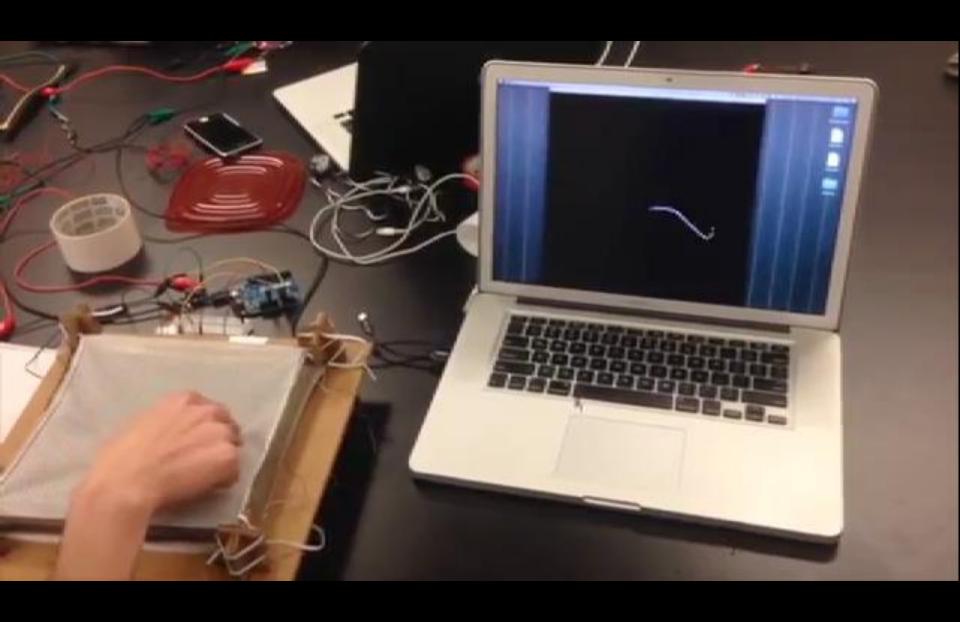






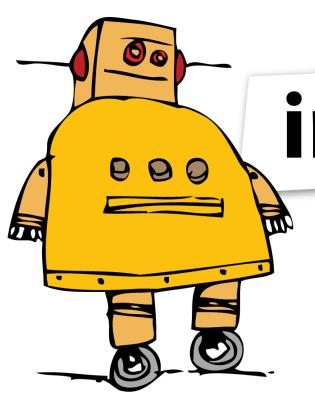




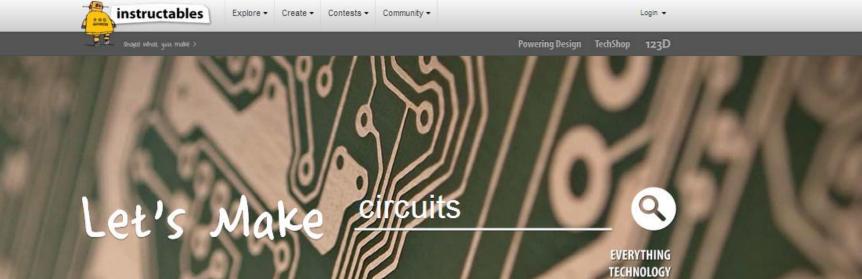








instructables



* Featured



123D Circuits Contest Enter Now!

Build a prop vintage baseball shin guard by damianzuch in Props



Ultimate Nerf Stryfe Mod by BrittLiv in Nerf



WORKSHOP LIVING FOOD PLAY OUTSIDE

Measure the speed of Nerf darts by BrittLiv in Nerf



3D Printed Underwater Camera by MoonLanding in 3D Printing





(%) 1.2K



CARDBOARD SOLAR LAMP by deba168 in Reuse

9 18 **9** 908



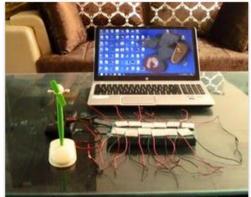
Playstation 2 controller with Raspberry

by dexter_industries in Raspberry Pi

9 59

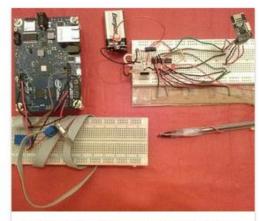
(6) 4.2K





Recycling CPUs Processor Heat by ssarthak598 in Art

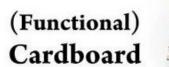
9 16 **9** 915



Using IPC for Wireless Encryption with Intel Galileo

by bunneydude in Electronics

(%) 6.0K



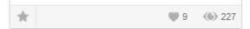
by ProjectGeek in Sensors







Dark walnut coffee table by Thor02





Low Budget Pallet Outdoor Lounge by bamseline

9 691 (6) 27K



Arts and crafts pallet clock

by rickysp8

₩ 179 (6) 3.3K



Pallet End Table by mtairymd



Pallet Projects by jessyratfink

9 59 **(6)** 740



DIY PALLET WOOD TREE SHELF TUTORIAL

by Eco-Rustic

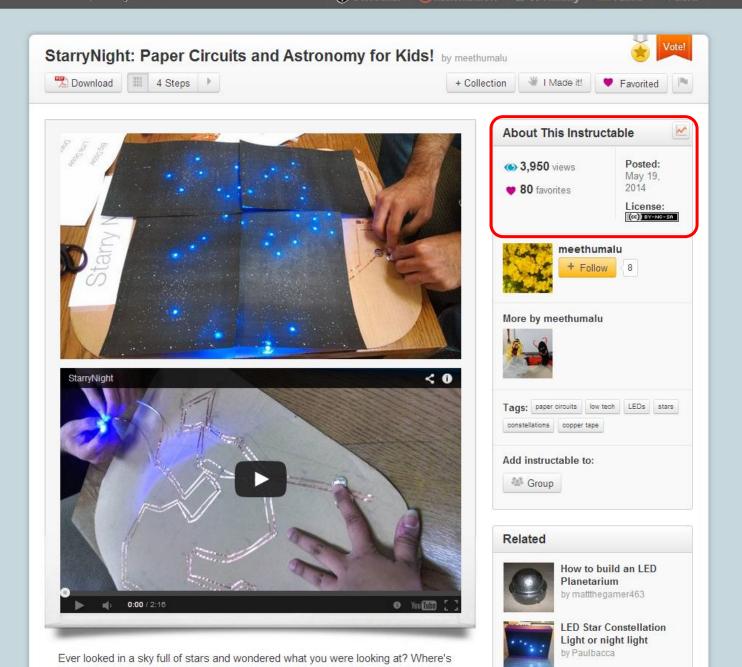
♥ 265 **⑥** 8.0K











CMSC838f Instructables Stats



Total Views:



Total Favorites:

CMSC838f Instructables Stats



Total Views: 108,040

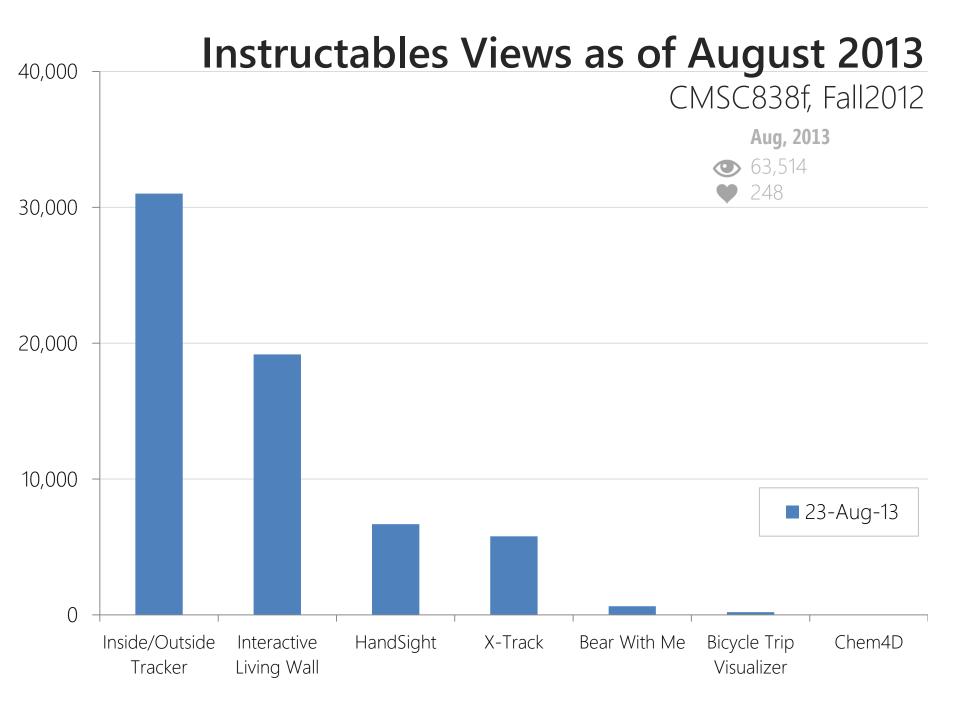
24,625 —

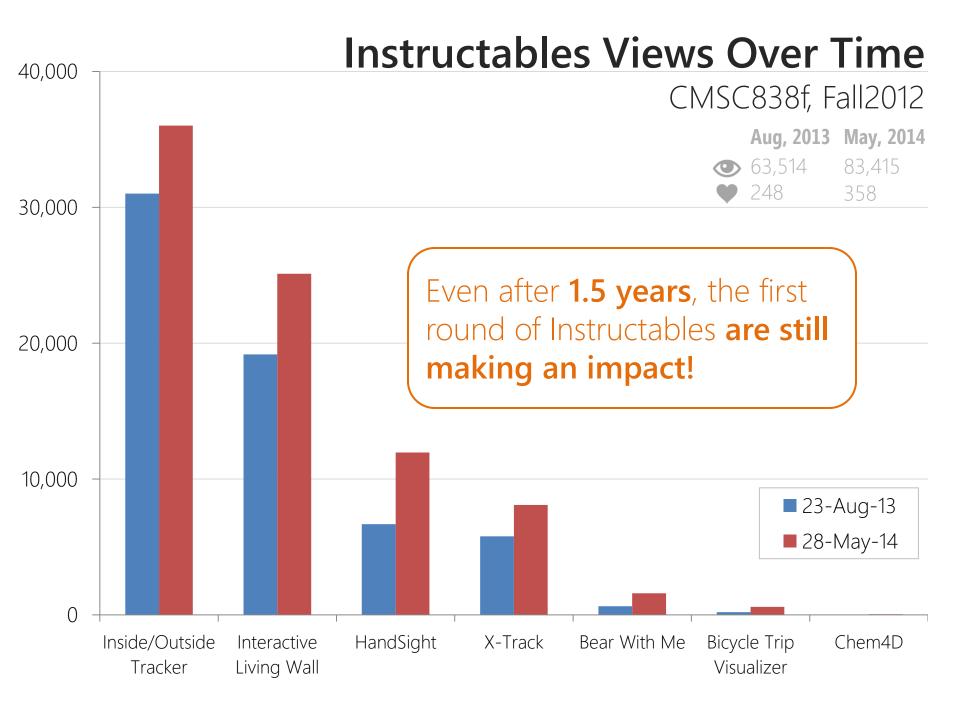


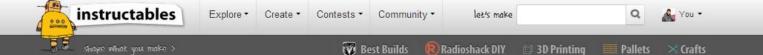
Total Favorites: 651

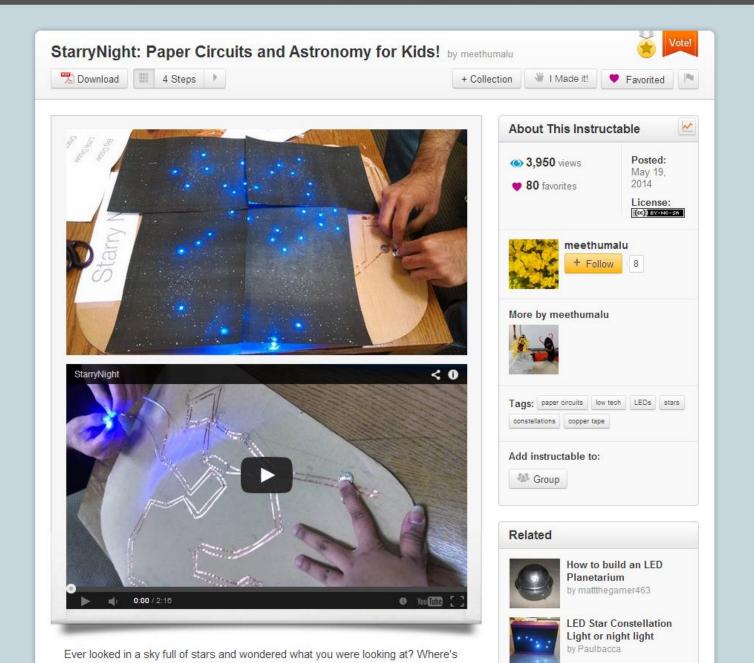
293

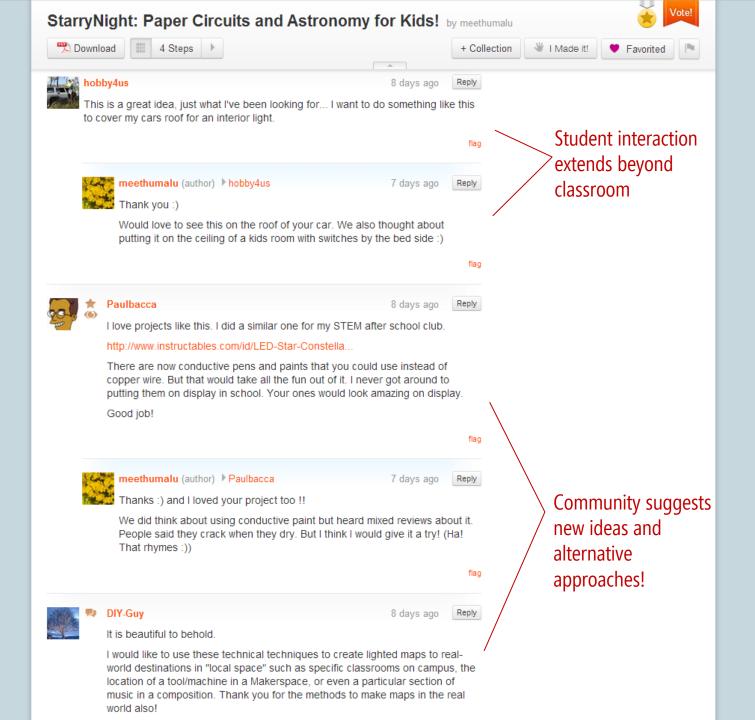
Spring 2014 totals; posted May 16













- Fulfilled original goal: allowed for impact beyond the classroom & to contribute back to the maker community
- 2 Impact continued over time: student Instructables sustained interest/readership long after course completed
- 3 Interaction with maker community: Instructables provided a forum for students to interact w/makers
- Intrinsic satisfaction: The above three things served to increase student's sense of accomplishment & satisfaction

Rise of Maker/DIY Movement

Making & Makerspaces at UMD

'Making' in the Classroom







We are creatures who need to make.

Frank Bidart
Poet

Quote from: Wilkinson & Petrich, The Art of Tinkering, 2014



social We are creatures who need to make. learn, & share together

Frank Bidart

Quote from: Wilkinson & Petrich, The Art of Tinkering, 2014



Upcoming 'Maker' Talks Today

1:05PM



BodyVis: Body Learning Through Wearable Sensing & Visualization

Leyla Norooz & Jon Froehlich

1:19PM



Social Fabric Fitness: The Design & Evaluation of Wearable E-textile Displays to Support Group Running Matt Mauriello, Jon Froehlich, Michael Gubbels

1:47PM



Current and Future Mobile and Wearable Device Use by People with Visual Impairments

Hanlu Ye, Meethu Malu, Uran Oh, Leah Findlater

2:15PM

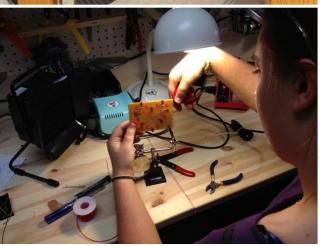


Physically Computing Physical Computing: Creative Tools for Building w/Physical Materials & Computation Michael Gubbels & Jon Froehlich







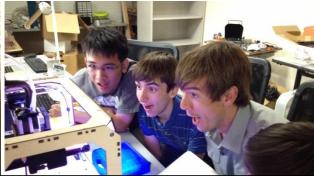


Making in the HCIL 31st HCIL Symposium May 29, 2014 @jonfroehlich

















Icon Credits



Quadcopter

by Nithin Davis Nanthikkara http://thenounproject.com/term/quadcopter/22061/



Bearded Man

by Riccardo Greg http://thenounproject.com/term/bearded-man/36280/



Students

by Hadi Davodpour http://thenounproject.com/term/students/28126/



Eye

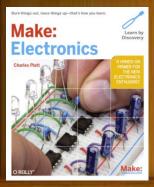
by Michael Rowe http://thenounproject.com/term/eye/19791/

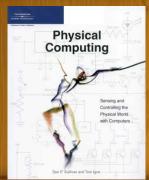


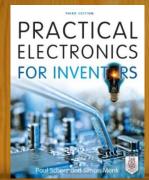
Heart

Public Domain http://thenounproject.com/term/heart/219/

Book Resources













Electronic Books 个





E-Textiles

Some Online Resources

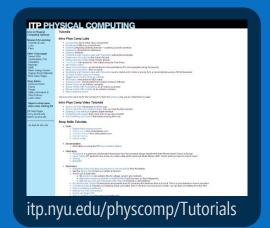












Making MAKERSPACES Resources

CO

TUTORIALS BLOG FORUMS SUPPORT CHAT VIDEOS CONTACT ABOUT HOME IOBS

PRODUCTS

New Products [99]

Android (6) ▼Arduino (63) Boards & Packs [17] Shields [34] Accessories [12] BeagleBone (23) Bunnie Studios (9) FLORA (25)

FPGA (1) mbed (12) NETduino (14) ▶ Raspberry Pi (84)

XBee (9) ► More Dev Boards (30)

BoArduino (8) Brain Machine (1)

Clocks & Watches (18) Drawdio (4) Game of Life (1)

Microtouch (5) MiniPOV (3)

MintyBoost (2)

SIM reader (3) SpokePOV (4)

TV-B-Gone (2) ► More DIY Kits (16)

Discover Electronics (2)

littleBits (3) Makey Makey (3)

Project packs (10)

Snap Circuits (4) Tweet-a-Watt (5)

Young Engineers (41)

▶ Batteries & Power (55) Breakout Boards (38)

► Cables (67)

► Components & Parts (70) LEI Wine /Tane /Danel /761 HOME ⇒ Blog

How To Start A Hackerspace: Part 2 - A Place To Hack All The Things



Photo by Tomi Knuutila

Now that you have a concrete idea of who your hackers are, you also know what kind of space needs they'll have. Next, narrow down what will be done in the space. Don't forget: there's plenty of room to grow your space to include many different kinds of hackers as your Hackerspace matures (covered in later sections of this "How To").

Talk to the people you're starting the space with and make the most detailed list in a shared spreadsheet of what different hackers need to do their hacking (and keep in mind that you'll probably be adding to this list as you get into your space).

Here's an example of physical needs you may have on your list:

- 220 power
- · Running water
- Ventilation
- Concrete floor Natural light
- Darkroom and darkroom supplies (have your photo hacker make a list)
- Air conditioned room for servers
- · Area for physical hack projects Sound proof room for audio/video recording/editing
- 24/7 Access
- · Spray paint booth
- · Place to put a car lift . Etc. Etc. Etc...

Once you have your list now you'll need to go to the next step: How To Start A Hackerspace: Part 3 - A Home For Your Hackerspace Stop back tomorrow!

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Schools Making Makerspaces; Verrado Middle School, before & after Why Educators Want to Attend Maker Faire 2012

Makerspace Playbook

By Michelle "Binka" Hlubinka On May 1st. 2012 \(\subseteq 16 \) Comments

Take a peek our current draft of the Makerspace Playbook, intended to offer some guidance to those who are hoping to start a Makerspace at their school or in their community. We welcome your feedback on the kinds of things we should add to this Playbook, what you think we got right and wrong, and any changes yould make in general. We already know weld like to add things like sample letters to garner support from administration and potential funders, more spotlights of teachers doing this kind of making with their students, and more detail about what the new roles for teachers, mentors, and shop hosts might entail. What do you need to know to get your Makerspace up and runnina?

Besides this draft of the Makerspace Playbook, we've also made some progress on the companion document- High School Makerspace Tools & Materials, so we have a new draft of that to share with you, too.

Makerspace Playbook (April 2012)

Marsa (eaguiread)

High School Makerspace Tools & Materials (April 2012)

Eventually, we'id like both of these documents to exist online in a form via which we can all freely contribute to the information and refine what we have learned about running Makerspaces. For now, you can send your feedback to us using the form below.

| Name (required) | | |
|--------------------|--|--|
| | | |
| Email (required) | | |
| | | |
| Comment (required) | | |
| | | |
| | | |

Want to make a makerspace?

Check out our playbook. It covers many of the challenges involved in creating a space.



Makerspace News

Makerspace conversation brings minds together

- Monadnock Ledger Transcript

Yorlt gives \$20K to makerspace Working Class -York Dispatch

Yoga for kids and family makerspace at Medfield

Library - Wicked Local Medfield

Peterborough talk on makerspaces, creative

spaces planned - The Union Leader

The Shop: Toronto's new inclusive makerspace -Boing Boing

Makerspaces, where people come together to design and create new things ... - Economic

High-Tech Maker Spaces: Helping Little Startups Make It Big - OPB News

JaxHax Opens Makerspace For Artists,

Inventors, And Entrepreneurs - WJCT NEWS [PHOTOS] Realize Your Creative Ideas At Staten

Island's Makerspace - NYU Local

Main Library's Maker Space Lete Public Decign



make

How to Set the Stage for Creative Collaboration Scott Doorley and Scott Witthoft with a foreword by David Kelley

