Brunch at the Brain Box

With Sarah Connolly & Sheli Telschow



Welcome

Itinerary

- Definitions and general information
- Birth of the Makerspace programming at Maplewood Public Library
- Teen vs. Adult programming
- Issues
- Equipment
- Success?
- Moving forward
- Marketing
- Open lab
- Community/Specific topics
- Interactive/Show and Tell
- Questions

What is a Makerspace?

Makerspace

A physical space

A service

A philosophy, culture, way of life

 Less about technology and more about relationships



What is Making?

Making

- The act of turning nothing into something
- The ability to tackle and solve real world problems
- The means of production within anyone's grasp



Why Makerspaces, Why now?

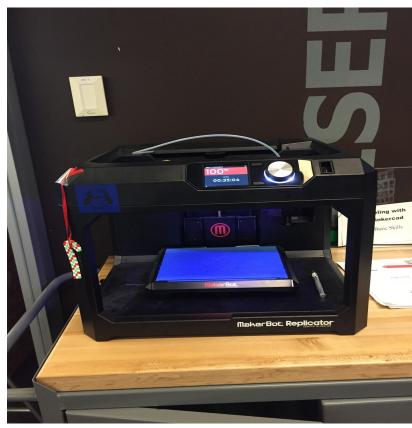
 Makerspace movement started around 2006 (Maker Media (Make: magazine, 2005) and first Maker Faire)

Developed out of the DIY culture (much longer history)

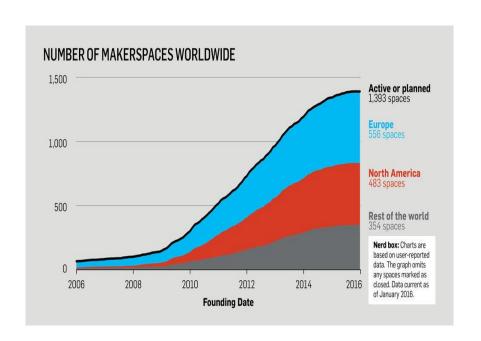
Why Makerspaces, Why Now?

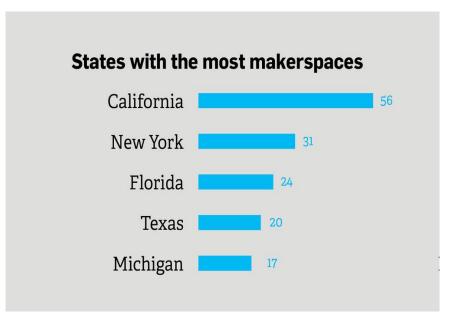
 National push from Obama, saying "every child, a maker. He discussed how it could help formal STEM education (2009)

- Equipment has become more affordable for normal consumers
 - 3D printers then: \$30, 000 \$40,000 3D
 printers now (MakerBot): \$2,500



By the Numbers





http://www.popsci.com/rise-makerspace-by-numbers

THE BRAIN BOX

- Summer, 2015
- Initial focus on teens
- Adult interest
- Americorps: CTEP
- Initial programming ideas for adults

How Did We End Up Here? What's in a Name?

- MLIS program St. Kate's
- Practicum
- Maplewood and Rosedale
- Why Brunch at the Brain Box?

SOUTH METRO

Libraries are adding 'maker spaces' to attract DIY crowd

With 3-D printers, software and DIY tools, libraries hope 'maker spaces' draw users.

By Jessie Van Berkel Star Tribune OCTOBER 9, 2015 - 8:22PM



AmeriCorps mentor Jana Greenslit, center, chatted with Ben Leach, 13; Nasir Jackson, 13, and Amier Day, 12, as they created tunes in GarageBand at the Maplewood Library. Maplewood is one of several metro-area libraries investing in...

Issues - Gender Gap and Diversity

Make Magazine Study

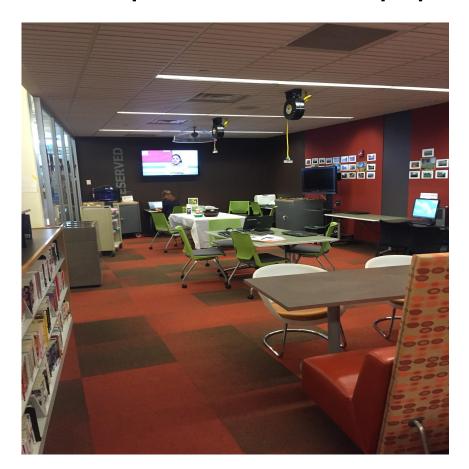
As a matter of fact, a review of Make Magazine from 2005 (the first issue) through 2013 revealed:

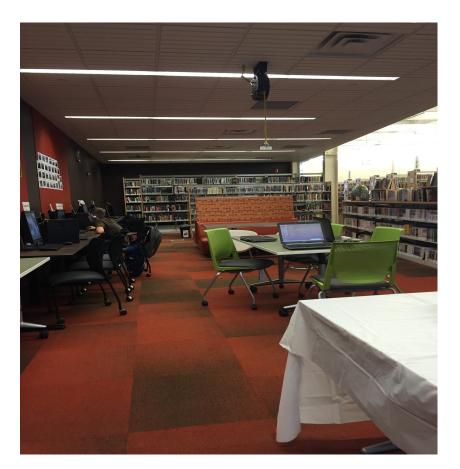
- 85% of people on the cover have been men
- 100% of the people on the cover have been white
- 87% of editorial staff are male;
 100% white

Where Are the Women at in Makerspaces? Why the Lack of Diversity?

- Georgia Guthrie Director of The Hactory in Philadelphia
 - Hacking the Gender Gap
 - Takeaways
- Research Articles (not nearly enough about diversity)
 - Maker movement initiatives are often driven by more affluent white males.
 - The maker movement is too often being associated with the tech stuff 3D Pr
 littleBits, Makey-Makeys stuff that less affluent schools and community programs can afford.

The Space and its Equipment





3D Printers - Makerbot Replicator

5th Generation

• \$2,899

Assisted build plate leveling

3D Printers - Makerbot Replicator 2

Backup 3D printer

• \$1,999

PLA vs. ABS

Silhouette Cameo 2

Cuts paper, vinyl, fabric and other material

Can also draw using a pen attachment instead of a blade

• \$299.99

Eggbot

• "Draws on round things"

• \$195

Awesome in theory...

Sphero 2.0

Newest addition

Robotic Ball

• \$129.99

3D Modeling Software



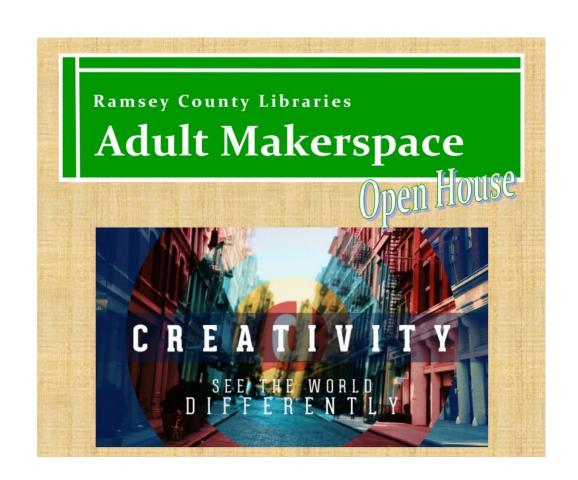
Spreading the Word

Quarterly Events Magazine

RCL Website

Maplewood Library

Flyers at Reference Desk



The Makers

Marketing worked!

• 4 - 8 patrons visit each week

Mix of individual adults and families with children



What was Made

• 3D Printing

Lots of stickers

Tinkercad

Crafts



Maker Profiles

Adult Male

Artist

• 3D printing and design

Family with 9 year old Child

Homeschool

 3D printing and vinyl cutter

Children in an Adult Space

 Needed to adjust our vision of an adult space after first week

Finding balance for both adults and families

Children must be accompanied by an adult

What Worked Well

- 3D printing projects after hours
- Using the projects and materials from the Teen makerspace for kids
- Open Lab format
 - Individual projects
 - Teach each other skills
- Two 3D printers

What Didn't Work

Having themed projects each week

The Space

Brunch

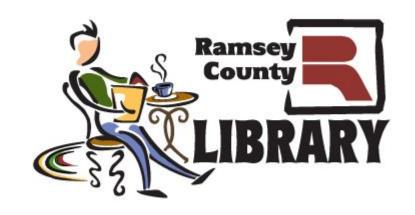
Teen Makerspace vs. Adult Makerspace

- Different roles for Librarians and Volunteers
 - Teens need more supervision and direction
 - Adults need more tutoring
- Different types of projects
 - Teens have weekly projects and collaborate more with peers
 - Adults generally work independently on their own projects

Going Forward

Makerspace at Roseville

 Grant for more equipment



Embrace Open Lab Format

Encourage adults to teach each other

Continue expanding adults' skills

Community Involvement

 Developing relationships with patrons

 Reaching out to local "maker" businesses

Marketing

 Going beyond the Events Calendar

 Special Maker Events and Classes



3D Printer

Silhouette Cameo

BB8 - Sphero

Interactive fun

LED Throwies

Place battery in between LED prongs with the longer prong touching positive side of battery. LED should light up.

Tape together LED and battery.

Place magnet onto positive side of battery and tape together. THROW at something magnetic. Like a fridge. Or a whiteboard. Have Fun.

Questions?

Thank you!!

Sarah Connolly - selconnolly@gmail.com

Sheli Telschow - sheli.telschow@gmail.com