



# *Makerspacing Libraries*

Nick Grove - Travis Porter - Jennifer Redford



**Maker Faire<sup>®</sup>**

A decorative header featuring a bright yellow sun with a blue circle in the center, partially obscured by stylized blue and white clouds. The background is a solid blue color with a subtle pattern of lighter blue squares.

# What's a Maker Faire?

**I DON'T ALWAYS DIY,**



**BUT WHEN I DO, I LIKE TO SHARE  
IT WITH THE WHOLE WORLD**

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**Do we need  
a license for  
this?**

**LEGAL STUFF?**

**MY FAVORITE.**



**Case Study:  
Westport  
Library,  
Westport, CT**

**HELD MAKER FAIRE AT THE  
LIBRARY**

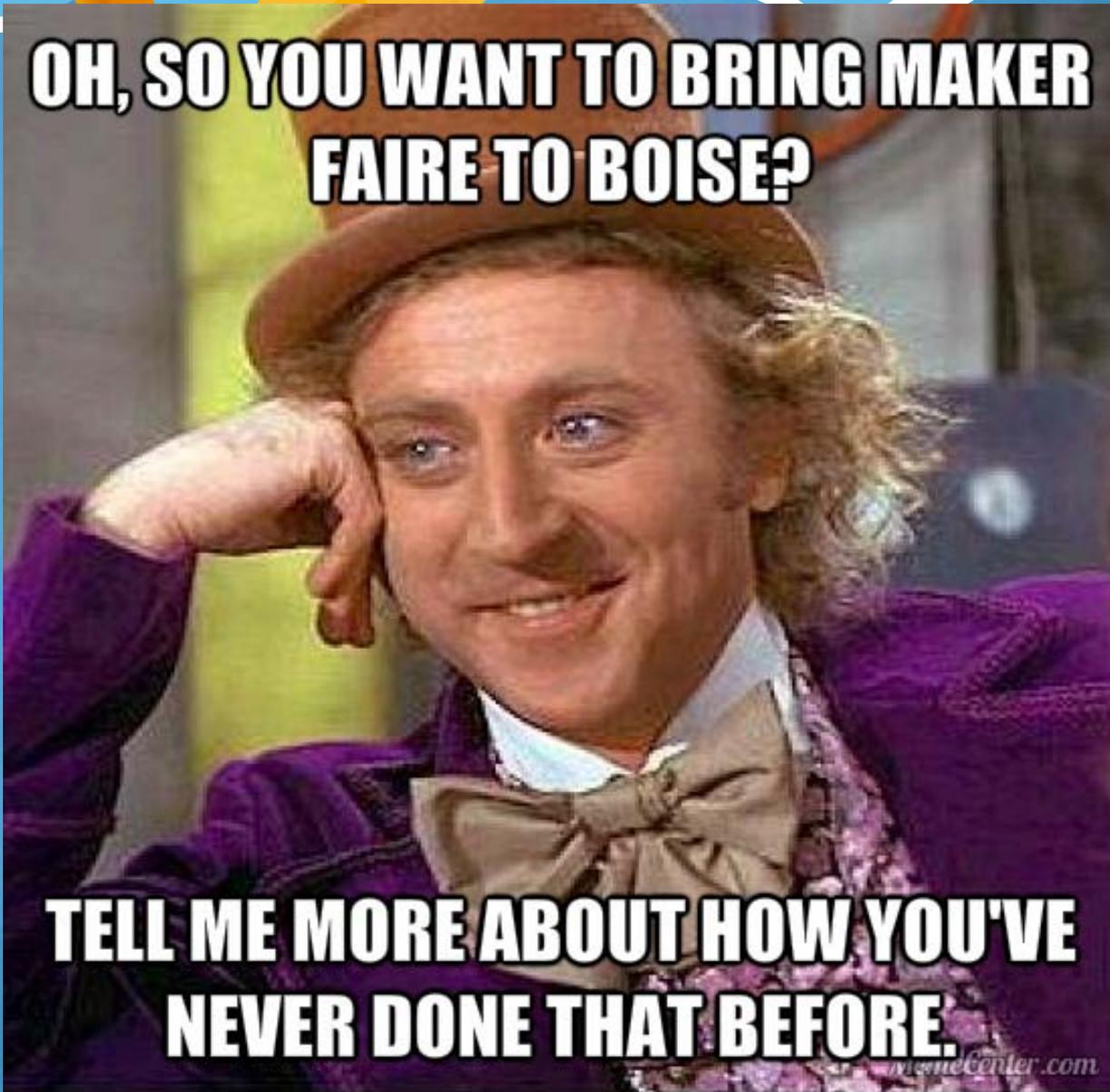


**GOT ON THE COVER OF  
LIBRARY JOURNAL #SUCCESS**

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# **Boise's First Mini Maker Faire**

A close-up photograph of Gene Wilder as Charlie Bucket from the 1971 film "Chocolat". He is wearing a brown top hat, a purple velvet jacket, and a light brown bow tie. He has a slight, knowing smile and is resting his head on his right hand. The background is slightly blurred, showing what appears to be a shop interior.

**OH, SO YOU WANT TO BRING MAKER  
FAIRE TO BOISE?**

**TELL ME MORE ABOUT HOW YOU'VE  
NEVER DONE THAT BEFORE.**

A stylized illustration of a bright yellow sun with a blue circle in the center, partially obscured by blue and white clouds. The background is a solid blue color with a faint grid pattern.

**Well, I hope you  
learned  
something**



**ALL LIBRARIES SHOULD HOST MAKER FAIRES**

**FALSE. LIBRARIES SHOULD HOST MAKER FAIRES IF THEY WANT TO CREATE COMMUNITY CONNECTIONS AND SUPPORT THE MAKER MOVEMENT.**

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# Make It Idaho

- ▶ Make It Idaho is a pilot program sponsored by the Idaho Commission for Libraries to bring makerspaces to 5 public libraries in Idaho
- ▶ First year emphasis is to mix makerspace concepts and STEAM education to reach teens and tweens



# Make It Idaho - Tools

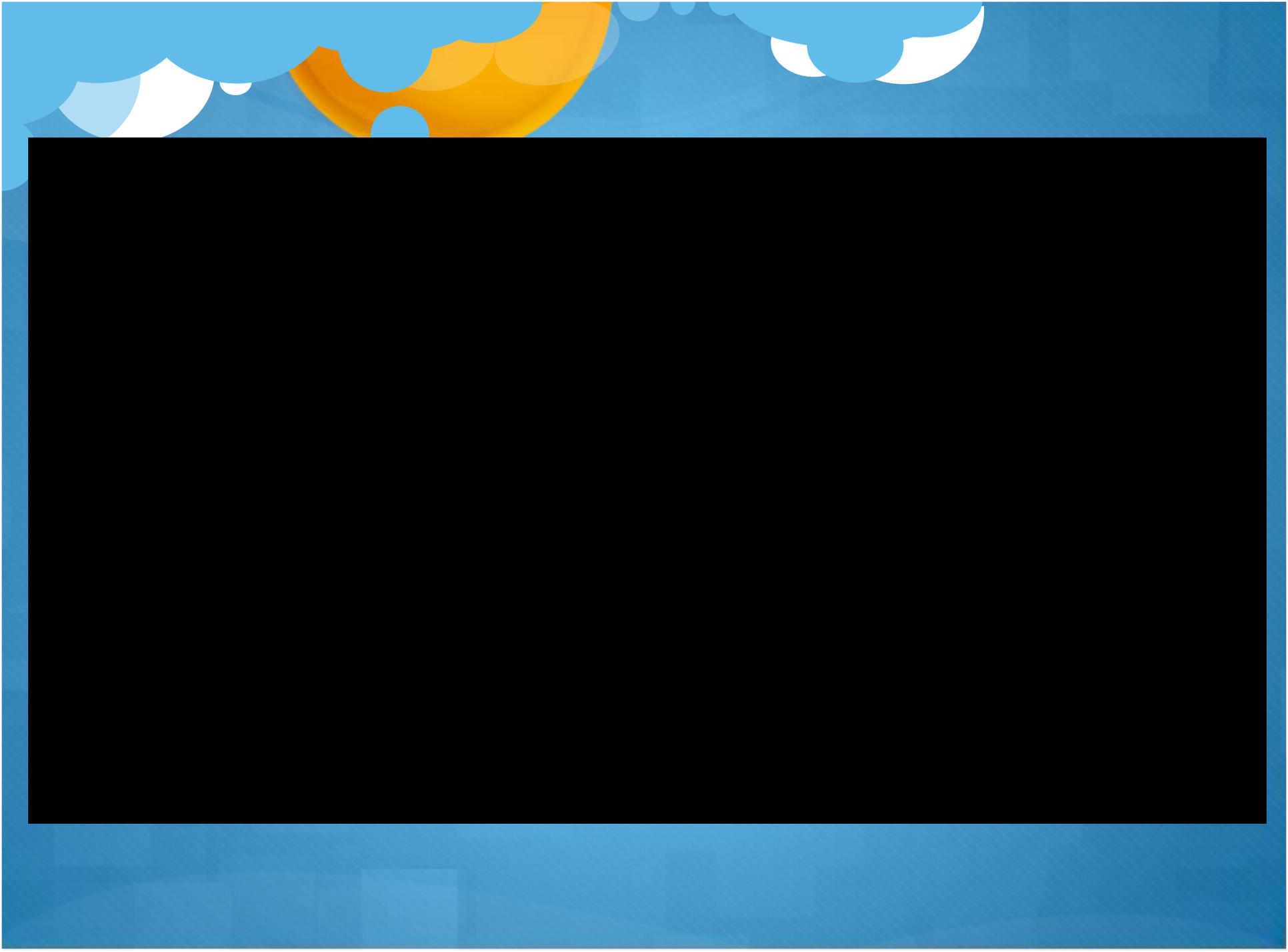
- ▶ Brick Lab
- ▶ Fishertechnik
- ▶ Arduino and soldering iron kits
- ▶ Google+ Maker Camp tool kits



# Make It Idaho - Training

- ▶ 1. Learn to build and teach with the Brick Lab and Fishertechnik
- ▶ 2. Learn to build and teach with Fishertechnik robotics and robotic programming
- ▶ 3. Learn to use a 3D printer (Fall 2013)







Make It at Meridian Library

Teen Tech Week 2013

**Brick Lab builds at Meridian Library Bookmobile and Silverstone Branch**



**Fishertechnik Building Class**



**Stealth Programming**



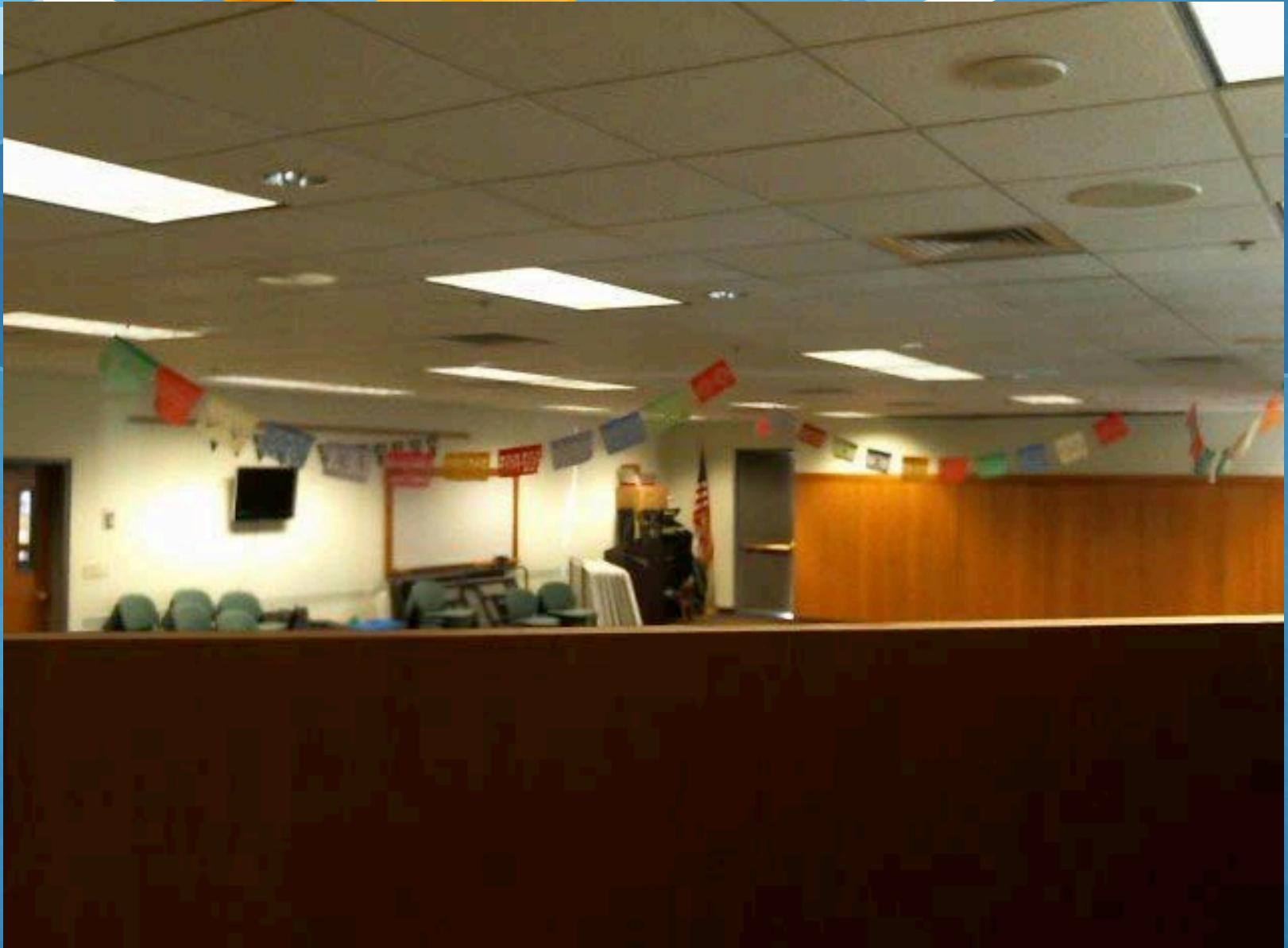
**Make It at Meridian Library**

**Summer 2013**



# Make It - Summer 2013

- ▶ Teen programming started as a class teaching Fishertechnik on Wednesday mornings
- ▶ Second week turned into an open lab
- ▶ Started each Make It day with an ice breaker group build usually shaped as a quick competition
- ▶ No permanent space for Make It yet so we used our programming room



Learning coding skills from Codecademy



Brick Lab Group Build



Disassembling a projector



# MLD Make It 2013-14

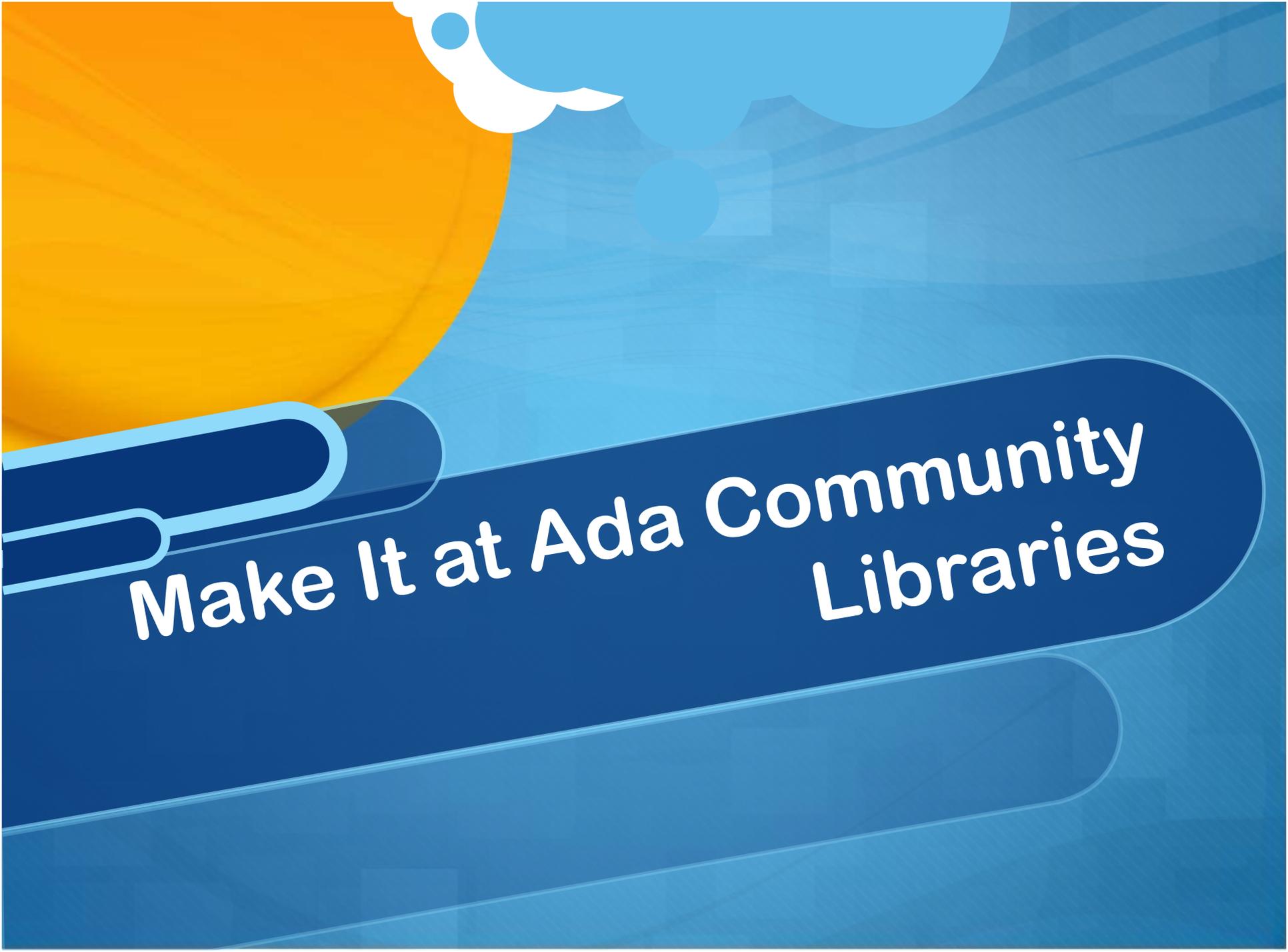
- ▶ Open Lab Make It every Thursday for teens
- ▶ Bringing in experts each month to share a new skill
- ▶ Bi-monthly Make It Saturdays  
\*Open for all ages and will be marketed to families
- ▶ Mobile Make It Kits to use during outreach





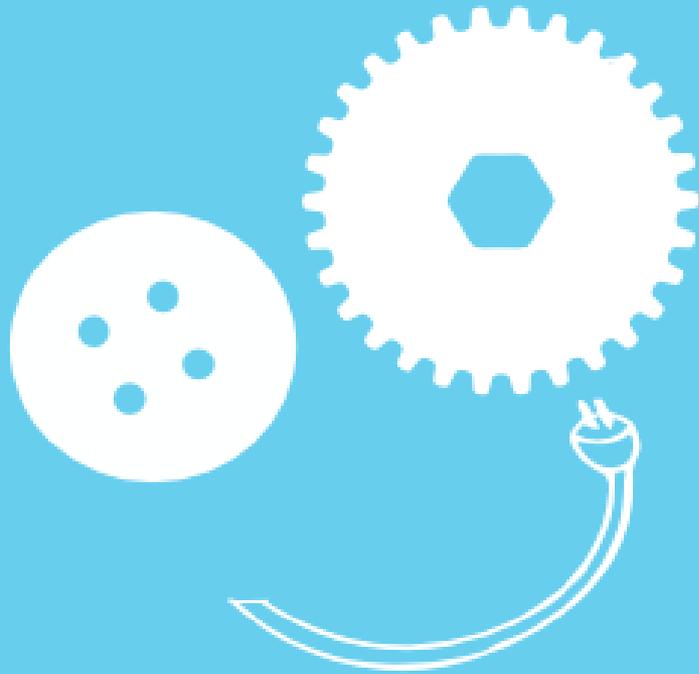
# Inspired by:

- ▶ Open Lab Idaho
- ▶ PCS Learning Center
- ▶ Detroit Public Library - HYPE Makerspace
- ▶ Rural libraries in Idaho after SPLAT visits

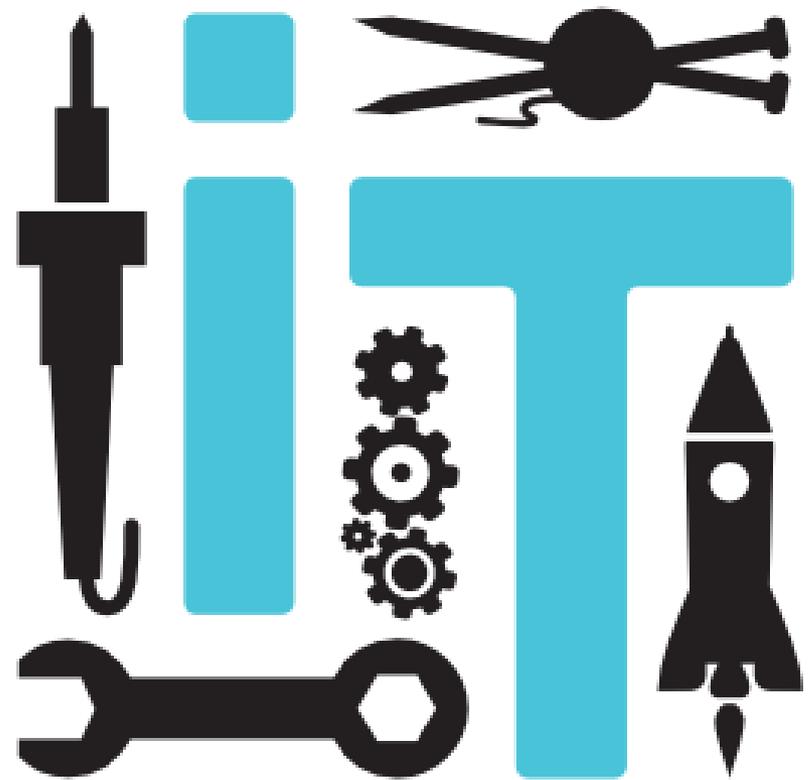


**Make It at Ada Community  
Libraries**

**Makeiteers  
Wanted!**



**MAKE**



**AT ADA COMMUNITY LIBRARY  
VICTORY BRANCH**

# SparkTruck Visit

- Visited Victory Branch in August 2012
- An Introduction to “Making” as a thing.
- Sparked an Interest



# History of ACL Maker Programs

- Mr. Patrick's Workshop
- Friday Lego Programs
- Yarn Arts and Yarn Bombing
- Preschool Craft and After School Arts
- Science Programs

Lots of Maker programs though not classified as "Maker."





# *Make It* Makes Us Rethink Our Space

- We already do Maker programs - not totally reinventing the wheel though looking at it differently
- Art Room: Why do we only make it available during programs?
- Recent STEM training falls in line with Maker movement
- Why are we keeping some of our amazing resources behind closed doors?
- We are still rethinking our space. Leading to large-scale and long overdue weeding and shifting of collection.
- Gives incentive to go ahead with some ideas staff had been mulling but hadn't found the motivation to make happen - Minecraft, STEM Play & Learn, others

# Art Room Transformation To...



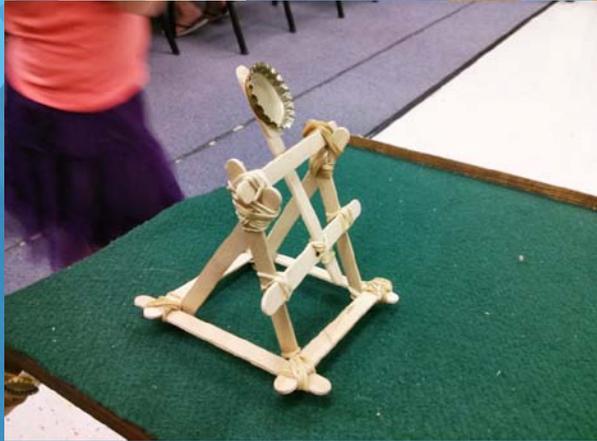
# The Make It Space!



# The Make It Space!



# Make It Victory Branch Programs



**Popsicle Stick  
Catapults**



**Lego Challenges**



**Minecraft**



**Squishy Circuits**



**Zhu Zhu Pets Battle  
Bots**



**Outreach**

# *Make It Star Branch*



# *Make It Lake Hazel Branch*



# In the Works *Make It* Programs

- **Weekly Homeschool Program (Fall 2013)**
- **3-D Printing (Fall 2013)**
- **Robotics & Engineering Clubs**
- **Intro Video Gaming Coding Classes**
- **Patio Community Garden**
- **How It Works (Deconstruction) Program**
- **Monthly Adult Make IT Program**
- **Video & Podcast Production**
- **Tool Drive**



**Also using resources like [VolunteerMatch.org](http://VolunteerMatch.org), Facebook, and good old talking to people in the library to find professional “Makeiteers” to provide additional programming and classes.**



# Early Benefits

- **Rethinking our entire space and examining where we are going**
- **Initiated literal Spring Cleaning (and long-overdue weeding)**
- **Making already existing resources more available to public**
- **Stealth programs give people incentive to come during non-staffed program times**
- **Sneaky learning**
- **Incentivises staff and public to play and learn together**
- **All-Ages love to make!**

Make It Happen!

