

# Using Digital Literacy Trends with Young Adults

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# What is Digital Literacy?

Digital Literacy is the ability to use information and communication technologies to find, evaluate, create, and communicate information, requiring both cognitive and technical skills.  
-ALA.org



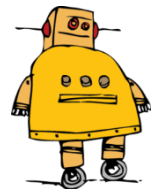
# Vision

As librarians our first step is to introduce teens to technology and information, thus opening the flood gates of creation and communication and helping guide them through the process. By using technologies like Makey Makey, Arduino, Raspberry Pi, and MIT's Scratch Lab, young adults are encouraged to explore the internet for information in order to seek out ideas. They are then able to become inspired, bring their ideas to life, communicate their creations via social media, blogs, YouTube, and so on. Through this process, young adults are able to learn, research, and enrich their world through digital literacy.

# Technology Used for Digital Literacy

Through grants and donations the library gained technology with the intent to focus on STEAM programming with teens. Combined with opensource software and social media, teens were able to explore, research, create, and communicate ideas.

- ▶ Makey Makey
- ▶ Arduino
- ▶ Raspberry Pi
- ▶ 3D Printer
- ▶ Circuit Scribe





# Makey Makey



# MIT's Scratch Lab



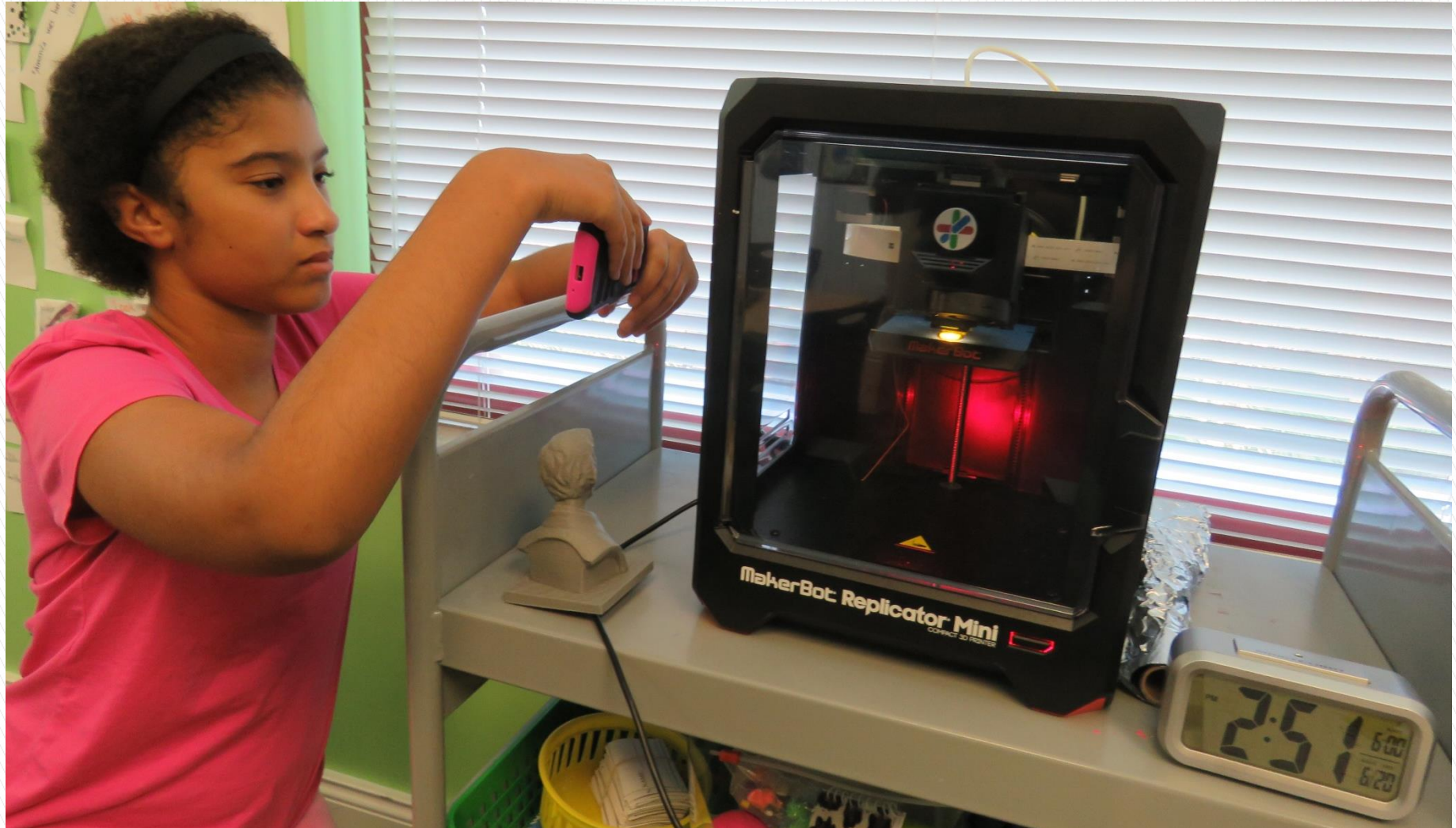


# BookTube



**DIGITAL LITERACY FUN**

# 3D Printer





# Arduino & Raspberry Pi



# What is Arduino?

“Arduino is an open-source electronics platform based on easy-to-use hardware and software. It's intended for anyone making interactive projects.”  
– Arduino.com

- ▶ [Arduino TED Talk](#)
- ▶ [Hackster & Kickstarter](#)

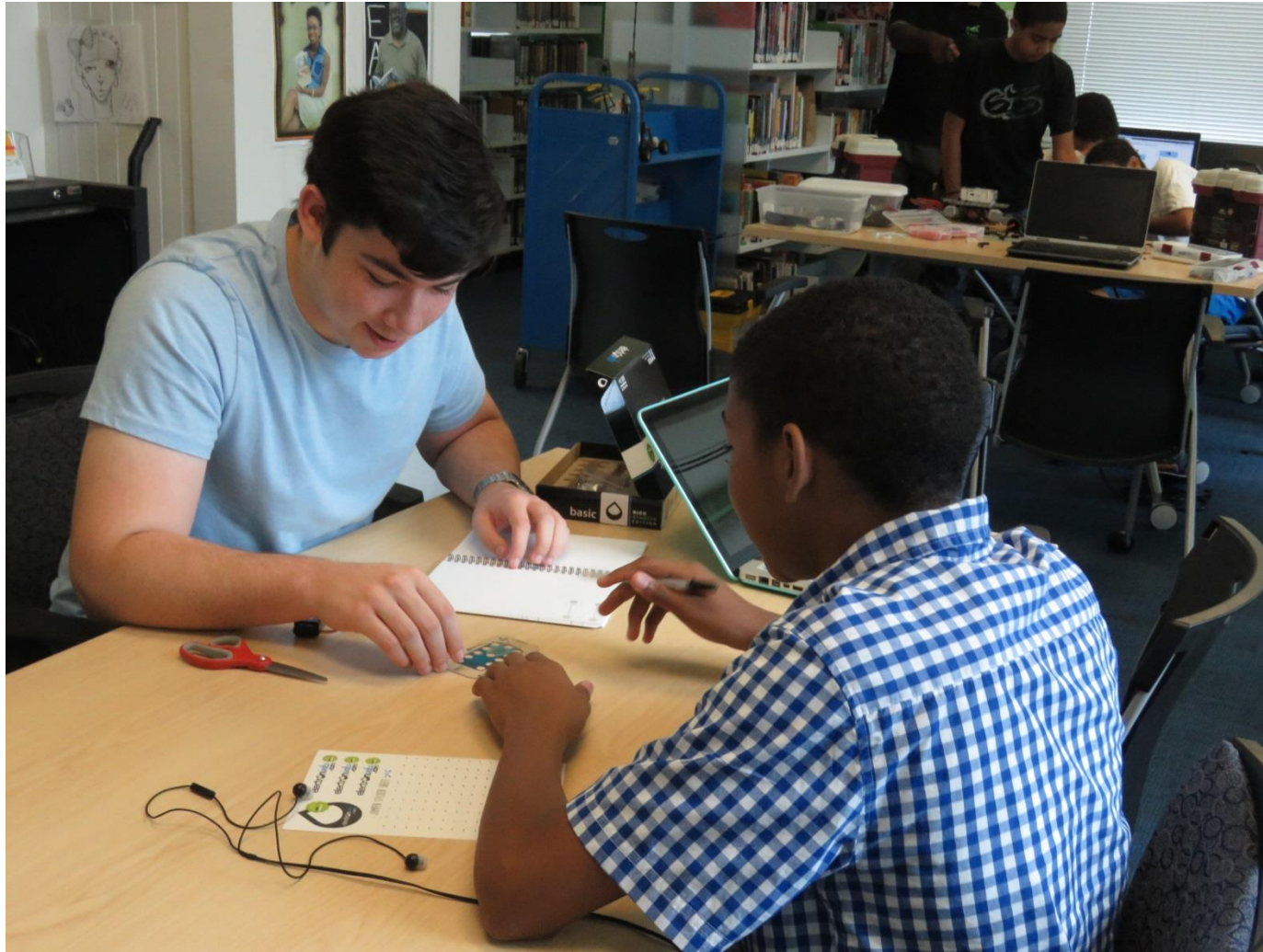
# What is Raspberry Pi?

[A low-cost computer](#)



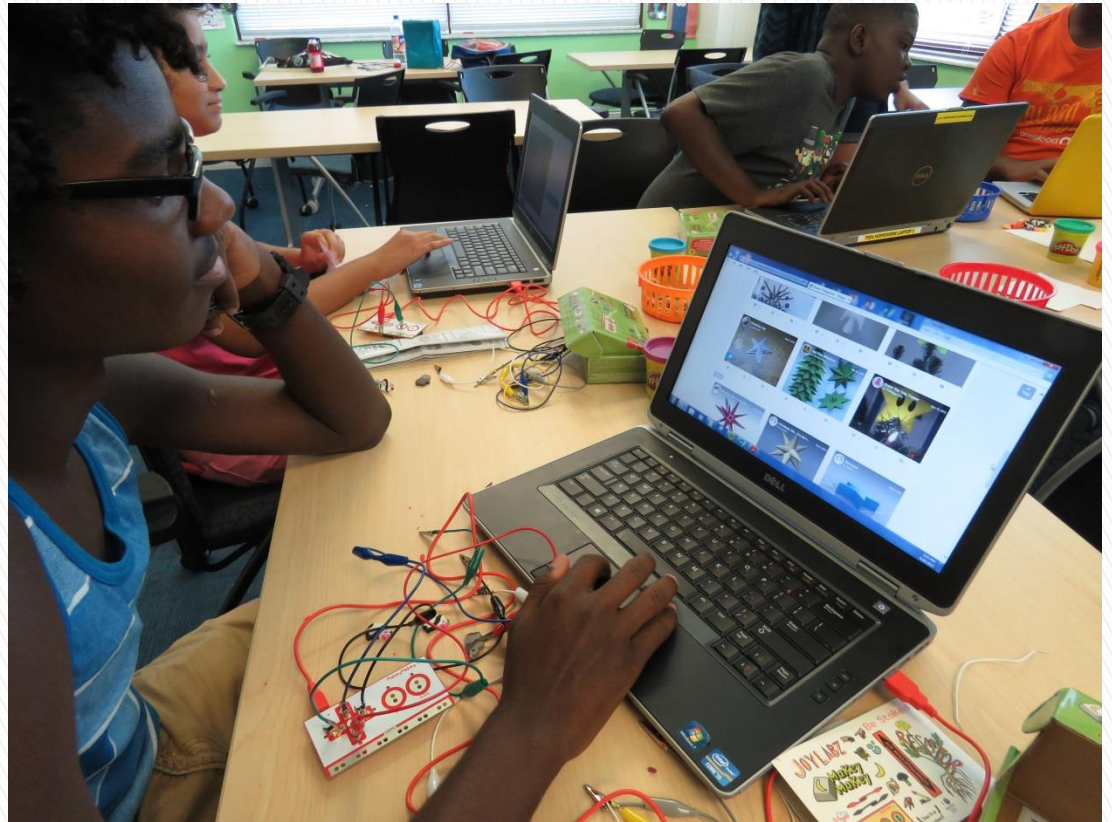


# Circuit Scribe



# Digital Literacy Programs

- STEAM Break
- 3D Printing Showcase
- Summer Camp Visit Expo
- Teen Tech Lab





# STEAM Break



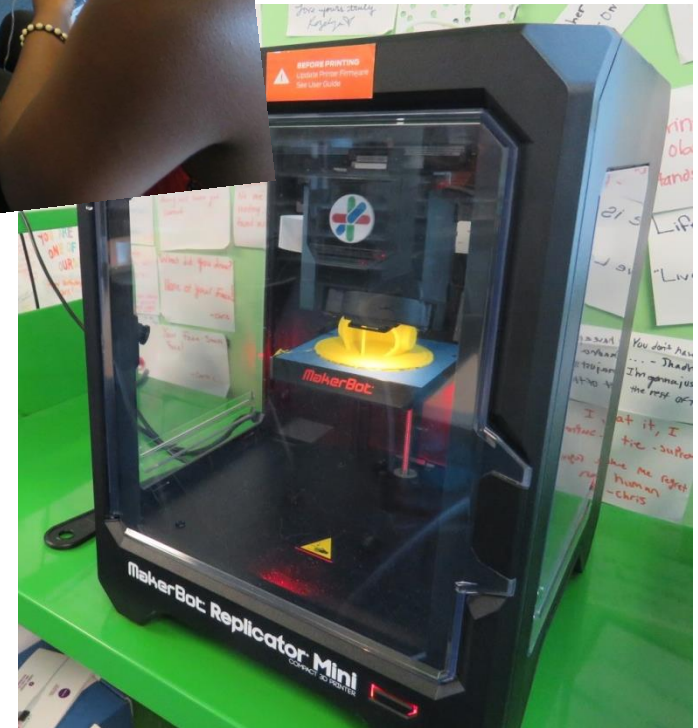
# 3D Printing Showcase





# 3D Printing Resources

- ▶ Thingiverse
- ▶ Tinkercad
- ▶ 3DHubs
- ▶ MakerBot



# Summer Camp Visit Expo





# Teen Tech Lab



# Donors & Grants





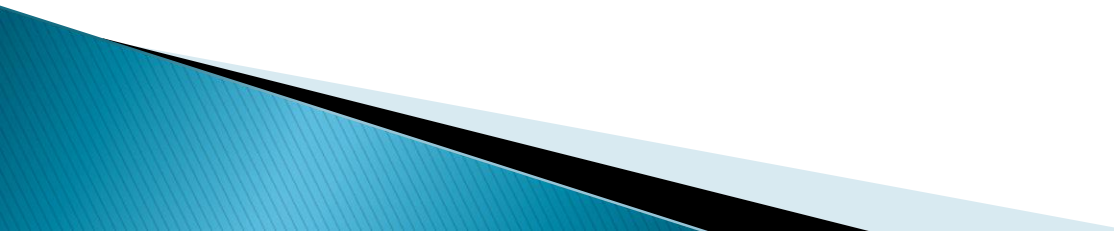
# Benefits

- ▶ VolunTeens
- ▶ Teens helping teens
- ▶ Exposure to tech
- ▶ Empowerment
- ▶ Resume builders
- ▶ Give teens a chance to explore, create, discover, fail, succeed in a safe environment
- ▶ Certain populations get a chance to use high end technology
- ▶ Provide quality programming
- ▶ Get teens into the library! It's not just about books anymore!



# Resources

## Internet

- ▶ [makeymakey.com](http://makeymakey.com)
  - ▶ <https://scratch.mit.edu/>
  - ▶ [arduino.com](http://arduino.com)
  - ▶ [instructables.com/id/Arduino-Projects/](http://instructables.com/id/Arduino-Projects/)
  - ▶ [thingiverse.com](http://thingiverse.com)
  - ▶ [tinkercad.com](http://tinkercad.com)
  - ▶ [makerbot.com](http://makerbot.com)
  - ▶ Booktube
  - ▶ [Circuitscribe.com](http://Circuitscribe.com)
  - ▶ [Raspberrypi.org](http://Raspberrypi.org)
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# Resources

## Journal Articles

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