YOUR YEAR IN TECH

What's on the horizon for libraries & tech?

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WHY TALK TECH TRENDS?

WARM-UP: KILL A TREND!!!
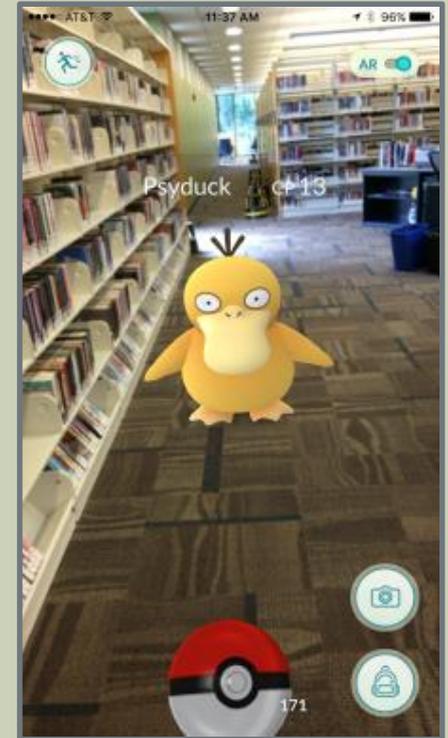
LIBRARIES 2016

LIBRARIES 2016

The latest Pew Research Center report on libraries came out in September. Here are some interesting stats on public opinion about digital literacy skills and technology:

"When asked to think about how libraries might change to better serve the public, Americans have a pretty clear message: help people learn digital skills without neglecting traditional functions. Specifically:

- 80% of those ages 16 and older say libraries should "definitely" offer programs to teach people, including kids and senior citizens, how to use digital tools like computers and smartphones. This is a similar pattern captured in a 2015 survey.

- 57% think libraries should "definitely" have more comfortable spaces for reading and working. This is down slightly from the 64% who said this in 2015.

- 50% believe libraries should "definitely" buy 3-D printers and other digital tools to allow people to use them. This compares with 45% who said this in 2015.

- 24% say libraries should "definitely" move some print books and stacks out of public locations in order to free up more space for such things as tech centers, reading rooms and meeting rooms. This is a decrease from the 30% who said this in 2015."

Read the full report: http://www.pewinternet.org/2016/09/09/libraries-2016/

LET'S CHAT ABOUT DEVICES

REALITY, VIRTUAL
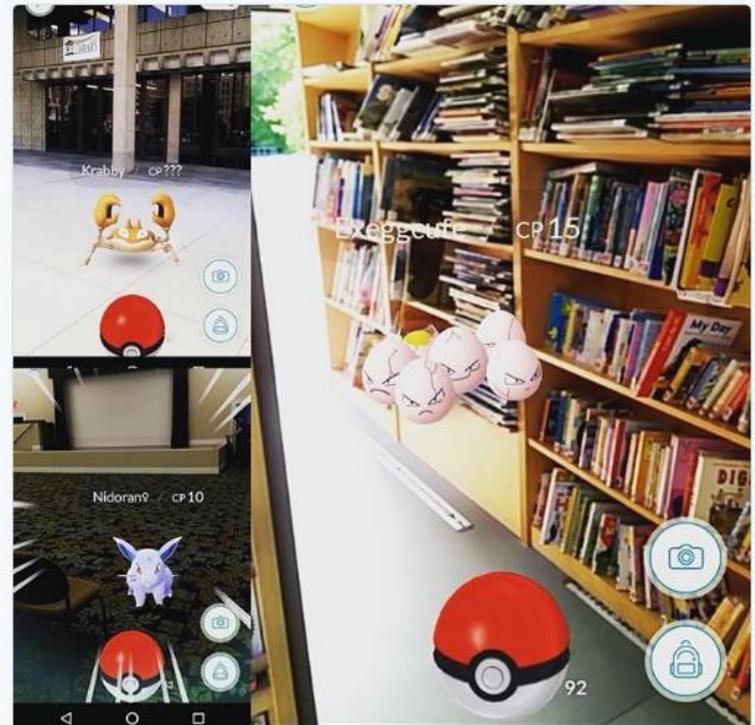
REALITY, AUGMENTED
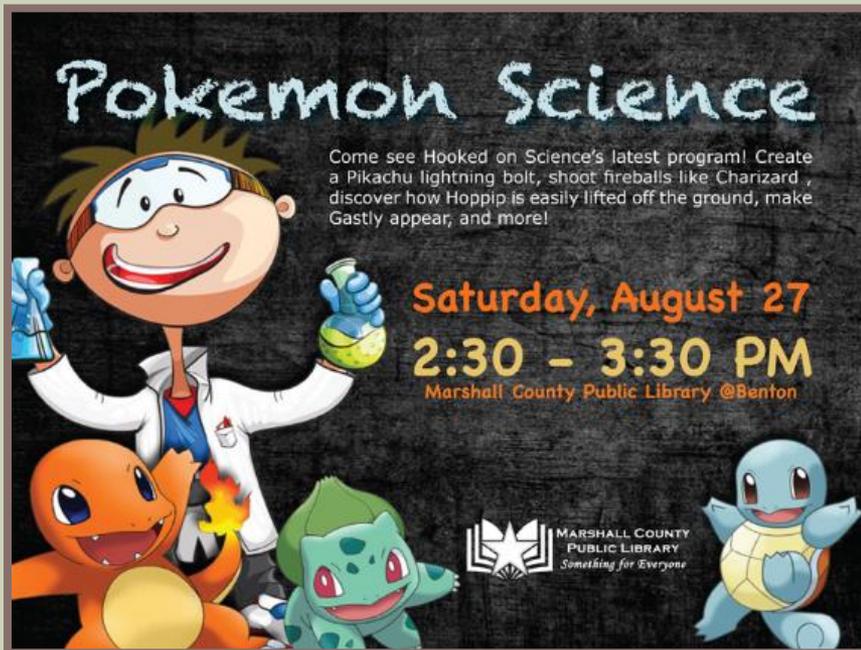
Image source: @MarshallCPL

Image source: @LFPL

THE NEXT BIG AUGMENTED REALITY GAME?
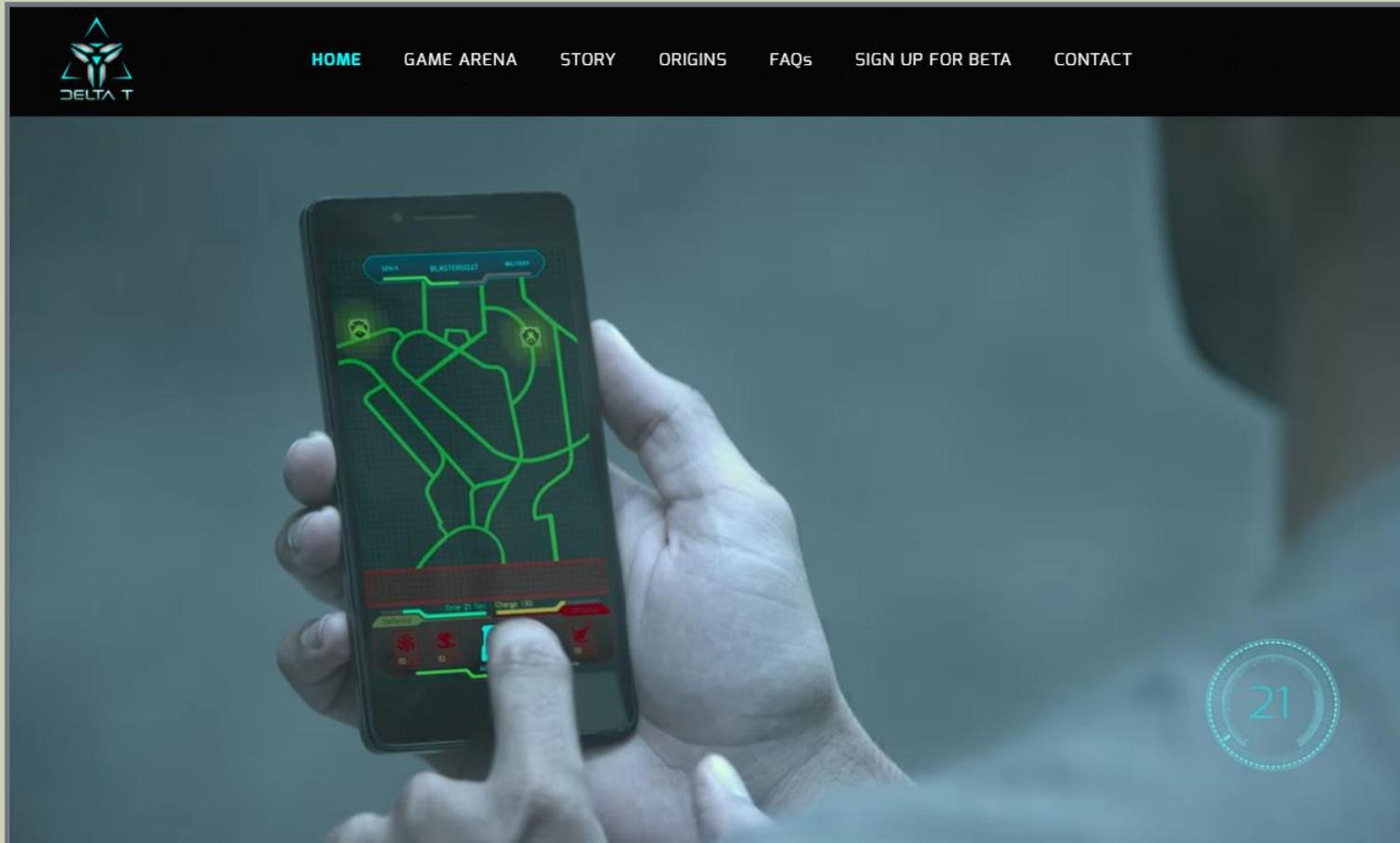
Image source: Delta T website
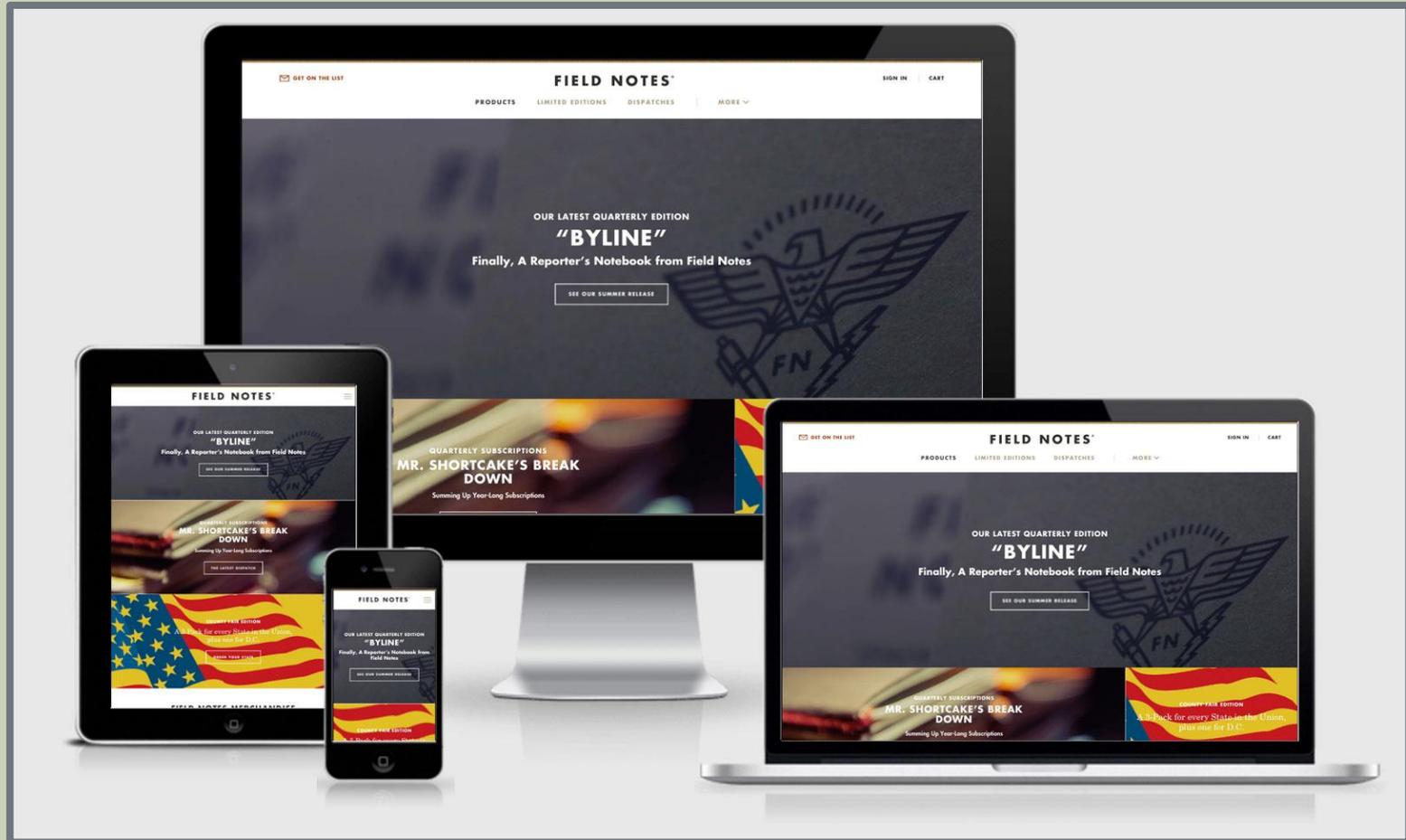
ATTACK OF THE DRONES

RESPONSIVE DESIGN

Image source: Responsive Design.is

HOW PATRONS SEE YOUR SITE

- **20% of households connect to the internet solely through mobile devices according to a study by the National Telecommunications and Information Administration (NTIA)**
  - https://www.ntia.doc.gov/blog/2016/evolving-technologies-change-nature-internet-use
- **Why does this matter to Kentucky libraries?**
  - In a survey from 2015, only 21% of Kentucky library websites employed responsive design.

HOTSPOTS (1/2)

- More public libraries are loaning mobile Wi-Fi hotspots to patrons.

- Portable—can be used at home, on the bus, in the park, or anywhere the carrier's cellular network reaches

Grants have helped large systems roll out thousands of units to patrons.

- **Knight News Challenge**
- **Google**
- **Mobile Beacon**

Image source: New York Public Library via *American Libraries*

ADDRESSING THE DIGITAL DIVIDE

DIGITAL INCLUSION

- ■ ConnectHome – HUD bringing broadband to more low-come housing
- ■ Expansion of FCC's Lifeline program to include home broadband

GO GIGABIT OR GO HOME

Image Source: Charlotte Mecklenburg Library

CODING

CODING IN THE COMMUNITY

Bit Source, Pikeville

Image credit: NPR

INTERNET OF THINGS (IoT)

Image sources (clockwise): Nest, Library Journal, Breezometer, Business Weekly

SMART CITIES (1/2)

Newport to be first smart city in Midwest
Image source : UrbanUp

SMART CITIES (2/2)

LouieLab – CNET Smart Apartment Mockup
Image source: LouisvilleKY.gov

INFORMATION SECURITY

THE MR. ROBOT EFFECT?

Image source: [Awards Daily](#)

PRIVACY

DC Public Library teaching courses on patron privacy


Image source: @torproject

LIBRARIES ON TOR?

Background image of Tor 'onion' routing: The Hacker News; foreground image of Kilton Library in Lebanon, NH: Library Freedom Project

AUTOMATION + CATALOGING

BIBFRAME AND LIBRARY.LINK

- **BIBFRAME = Bibliographic Framework Initiative**
  - Library of Congress working with management company Zepheira to develop an initiative to evolve bibliographic description standards to a linked data model, in order to make bibliographic information more useful both within and outside the library community.
- **Why does this matter? Making libraries 'findable' on the web**

Library.Link Network
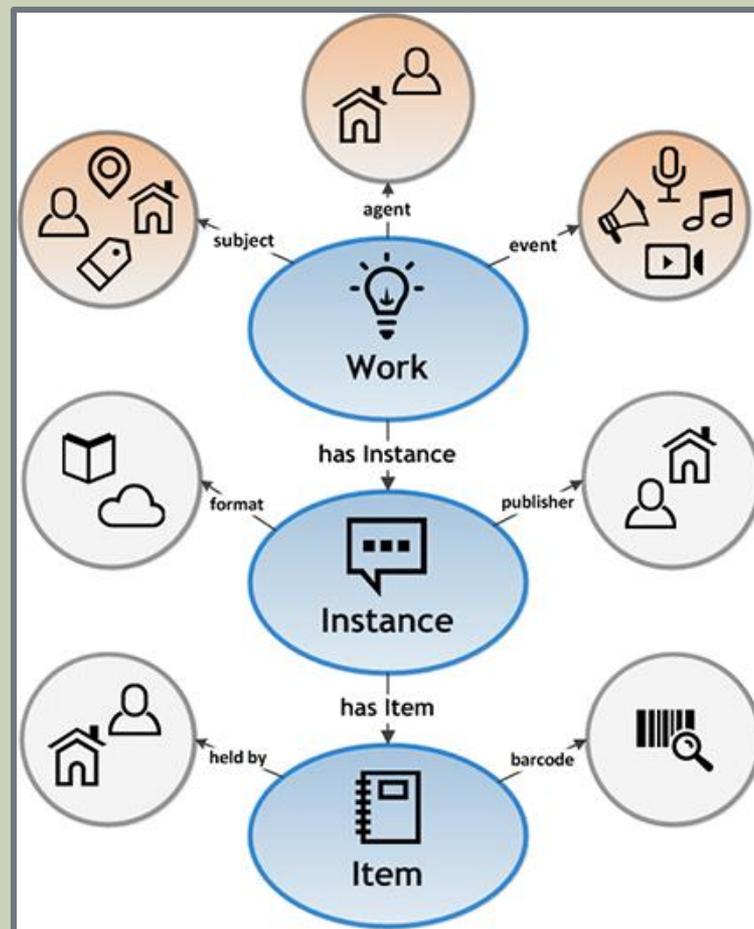
FOLIO

FOLIO
The Future of Libraries is Open

STE(A)M-POWERED

MAKERS ON THE MOVE

Bullitt County Public Library's traveling makerspace
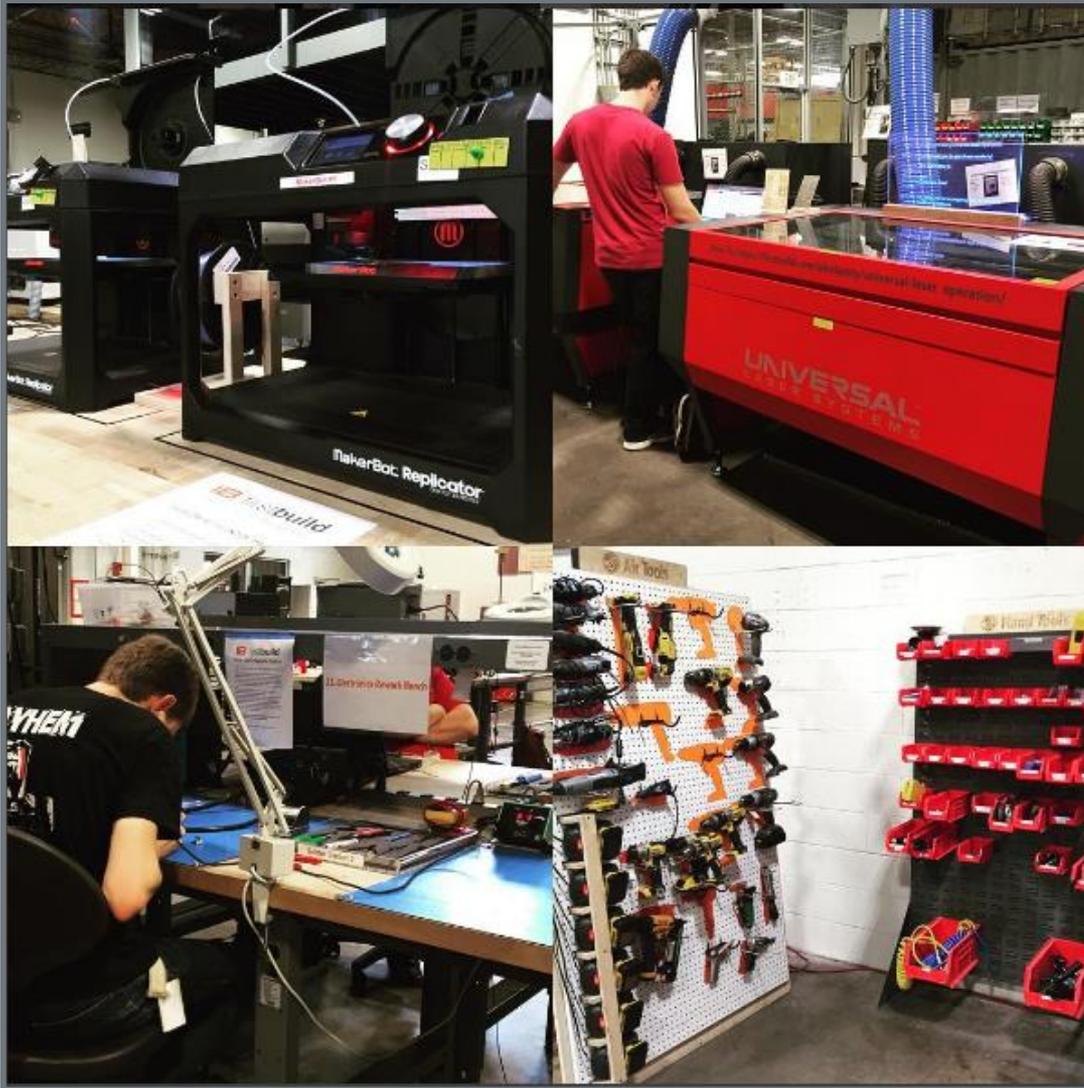Image source: @BCPLib

Bullitt Co. Library @BCPLib · Aug 20
Drop in BCPL's traveling makerspace today from 11am-2pm at Hillview Library. #nerdheaven #steamplay

MAKING IN THE COMMUNITY

FirstBuild, an innovation lab offshoot from GE Appliances in Louisville
Image source: FirstBuild Instagram

3D PRINTING

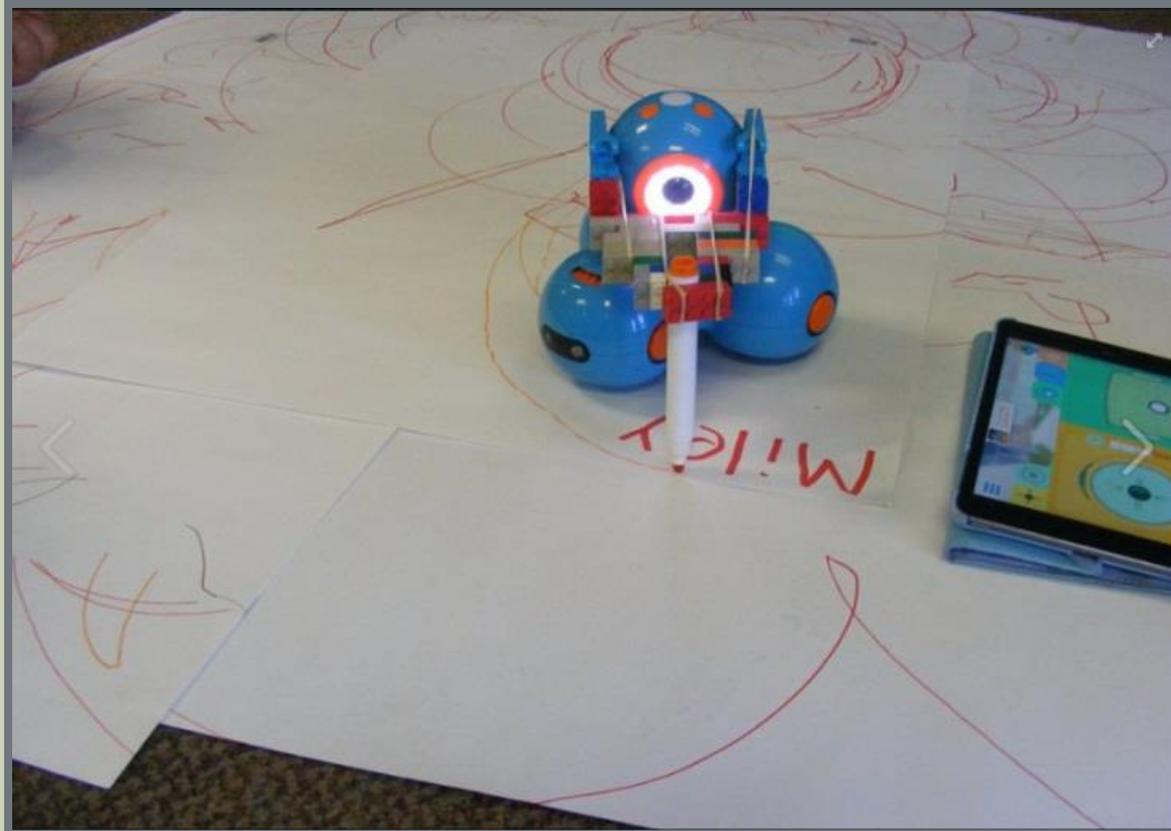Wheelchair racer printing specialty glove parts at Jessamine County Public Library
Image source: Lexington Herald-Leader

3D printing of cell phone holders
Image source: Warren County Public Library Facebook

ROBOTS @YOURLIBRARY

Writing with Dash robot during Maker Mondays at Henry County Public Library
Image source: Henry County Public Library Facebook

THE ROBOTS ARE COMING!

Meet Pepper, the Friendly Humanoid Robot

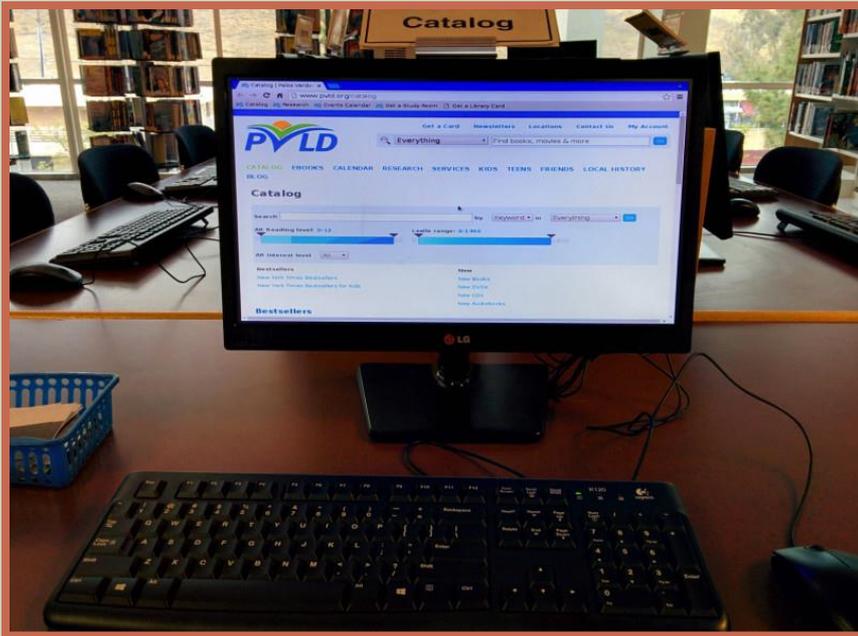Image source: IEEE Spectrum YouTube

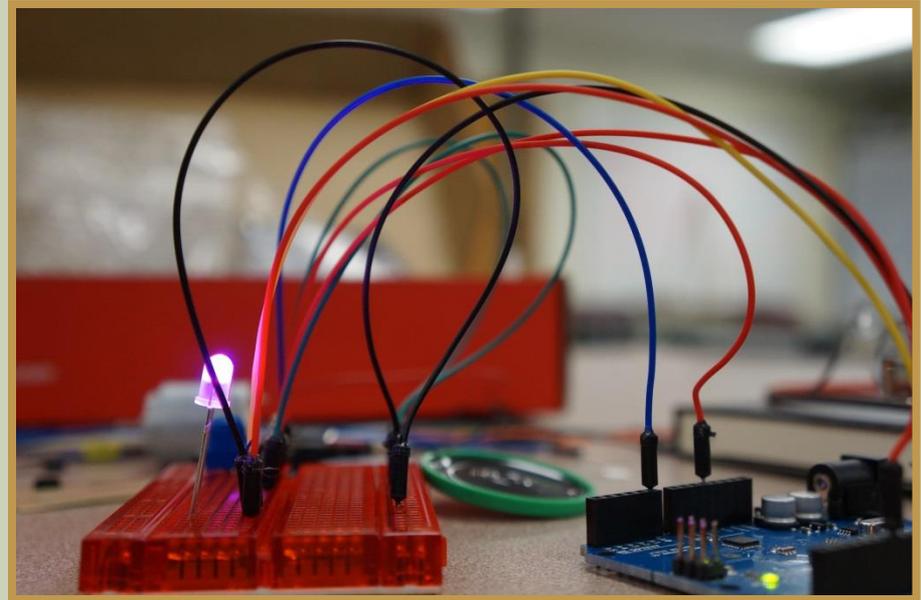# ROBOT COMPANIONS

Sharp's RoboHon – Robot Smartphone

Image source: Engadget

RASPBERRY PI + ARDUINO

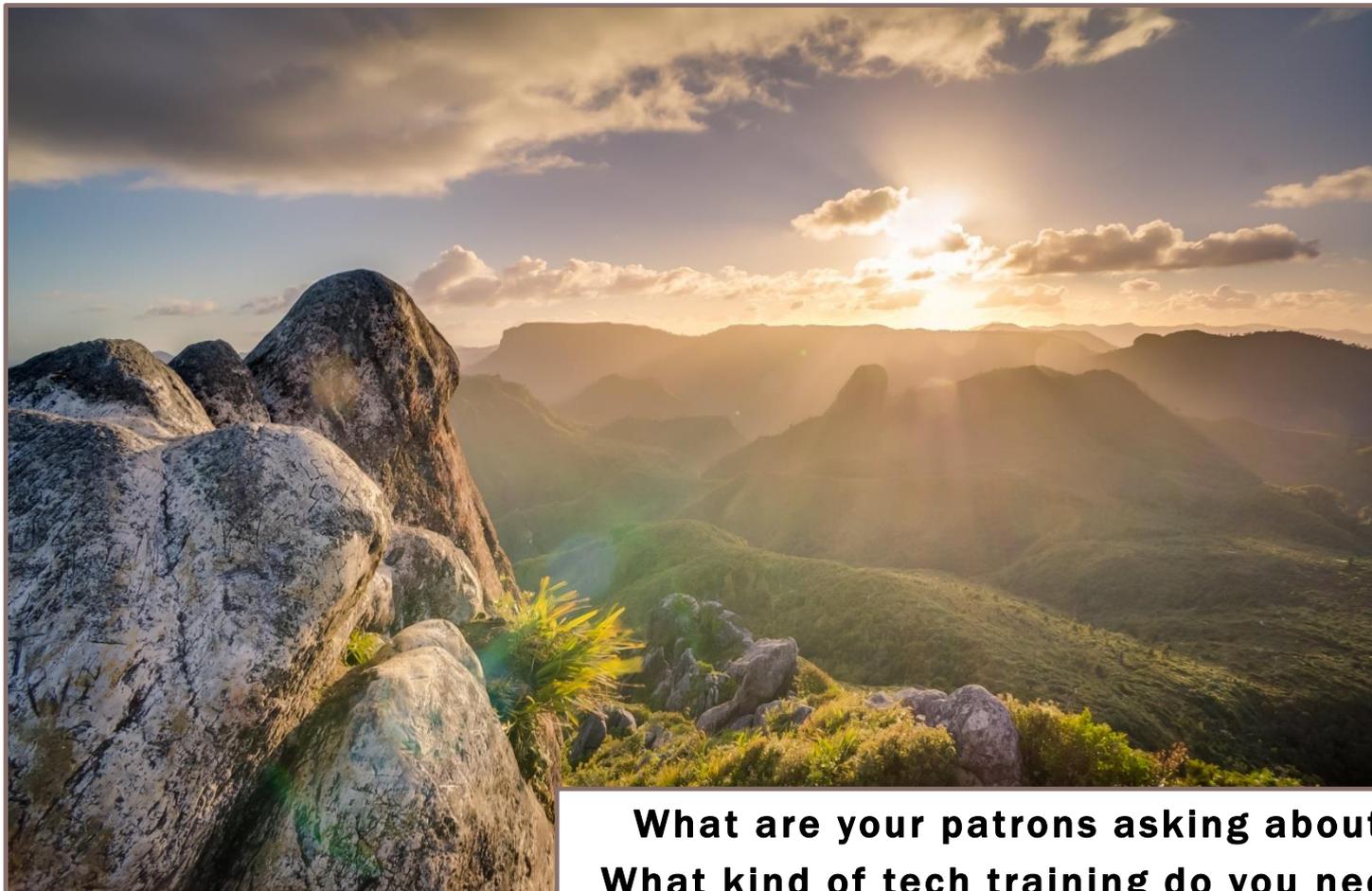**Catalog terminal running off Raspberry Pi in Palo Verdes Library System (CA)**
Image source: Hackaday

Light circuit created with Arduino
Image source: Chattanooga Public Library

YOUR TURN

What are your patrons asking about?
What kind of tech training do you need?

WRAP-UP

KEEP TALKING!

For Public Library Technology Support Staff:

- **KYTECH is a discussion list devoted to those who work with technology for their library. By using this LISTSERV®, individuals from around the state will have the chance to ask questions, share ideas, voice concerns, and make valuable contacts all through their e-mail.**
  - **TO SUBSCRIBE: Send a blank message to: join-kytech@listserv.ky.gov**

- **See the KDLA website for more information on our many listservs – for youth services, adult services, bookmobile/outreach, & more!**
  - **http://kdla.ky.gov/librarians/staffdevelopment/Pages/listservs.aspx**

KDLA SOCIAL MEDIA

@KDLALibDev
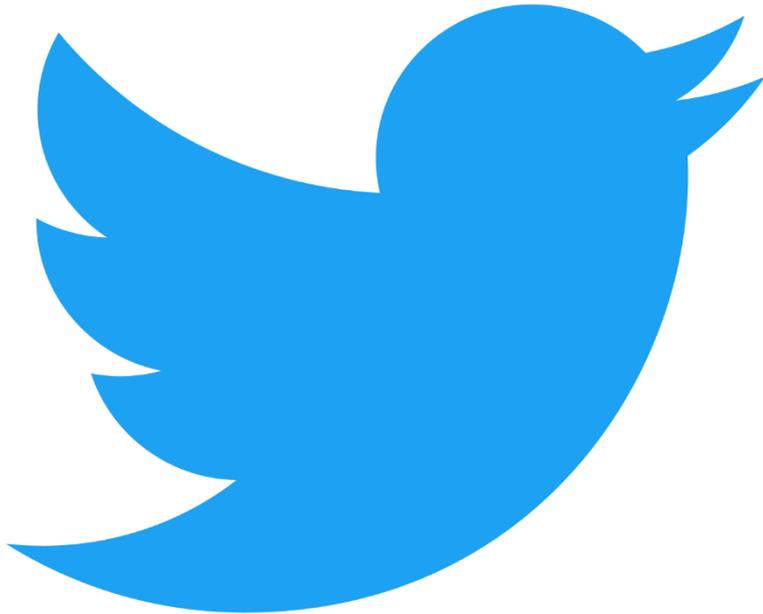
KDLACE

THANKS ☺

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INSTITUTE *of* **Museum** and **Library** SERVICES

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