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Advancing Digital Equity in Public Libraries: Assessing Library Patrons' Problem Solving in Technology Rich Environments

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Digging Deeper: Can Patrons Use Our Resources, and Are Basic Digital Literacy Classes Enough?

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DIGGING DEEPER: CAN PATRONS USE OUR RESOURCES, AND ARE BASIC DIGITAL LITERACY CLASSES ENOUGH?

CINDY GIBBON, MULTNOMAH COUNTY LIBRARY IN PORTLAND, OR JILL CASTEK, PORTLAND STATE UNIVERSITY

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THIS WORK IS SUPPORTED BY



Advancing Digital Equity in Public Libraries: Assessing Library Patrons' Problem Solving in Technology Rich Environments (LG-06-14-0076)

TODAY'S PRESENTATION

Project overview

Data collection tool

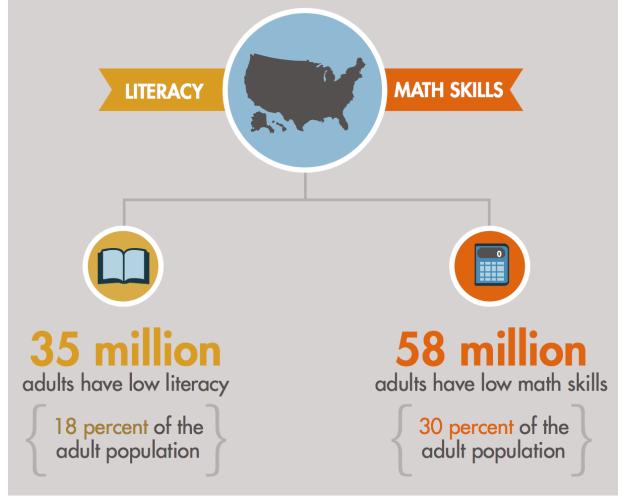
What we're learning

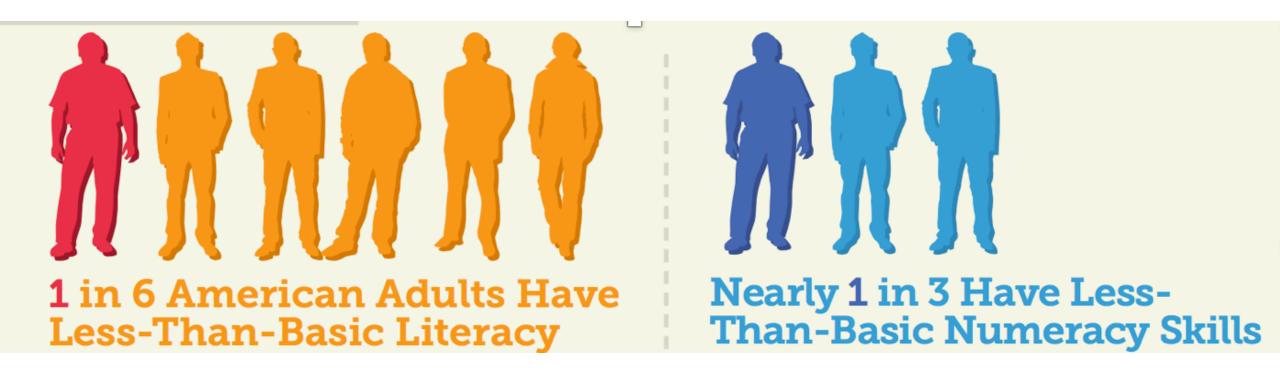
Discussion

NATIONAL & INTERNATIONAL EFFORT UNDERWAY TO EXAMINE ADULT SKILLS AND SKILLS USE (AGES 16-64)



Assessment of adult skills by the Organization for Economic Co-operation and Development (OECD)







The U.S. Lags Behind in Digital Literacy, Problem Solving

American adults performed below the international average when it came to using digital technology to acquire and evaluate information, communicate with others, and perform practical tasks.

What PIAAC Tells Us About Individuals With Low Basic Skills

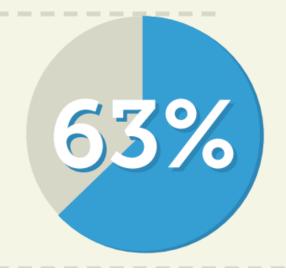


Many Have Earned a High School Diploma

20 percent of adults with a high school diploma have lessthan-basic literacy skills and 35 percent of adults with a high school degree have less-than-basic numeracy skills.

Most Are Underemployed

63 percent of U.S. adults with low skill levels are employed, but earn low wages and lack the skills necessary to go to college or advance in their careers.





DIGITAL NATIVE DOES NOT MEAN TECH SAVVY

83% of millennials say they sleep with their smartphones.



- YET-

58%

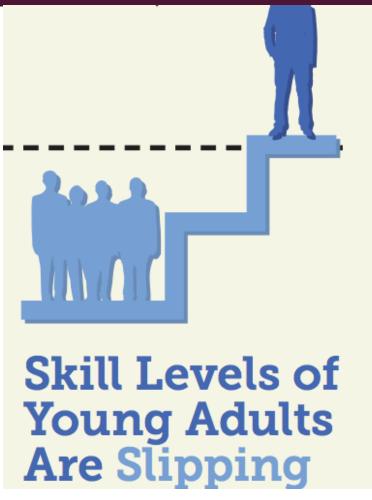
of millennials have poor skills in solving problems with technology.

U.S. millennials ranked

DEAD LAST

out of 19 countries tested in these skills.





THE PIAAC RESULTS GIVE US A LOTTO THINK ABOUT

But also leave us wondering about...

Our patrons skills?

Library Services

Classes

Electronic Tools and Resources

WHAT DOESTHIS PROJECT INVESTIGATE?

- Digital Problem Solving Skills of Patrons
- Using PIAAC's Digital Problem Solving Assessment
- In order to examine...
 - instruction/training of digital skills
 - presentation of all of the library's web and digital interfaces and electronic tools



WHY COLLABORATE ON THIS PROJECT?



Extend national work on digital literacy and digital acquisition to inform local efforts



Maximize resources to meet community needs around lifelong learning and digital access



Bring libraries into the national & international PIAAC conversation

Using Data from PIAAC's Digital Problem Solving Assessment (PSTRE)

WHY ARE PIAAC DATA RELEVANT FOR LIBRARIES?

Libraries are institutions that ...

Support interest-driven lifelong learning

Provide hubs for Internet access and digital literacy training

Deliver services using technology

Include libraries in workforce development through the use of the PIAAC

What are Digital Problem Solving Skills?

As measured within

PIAAC's Assessment
Problem Solving in
Technology Rich
Environments (PSTRE)

Using digital technology, communication tools and networks to acquire and evaluate information, communicate with others and perform practical tasks.



CONTEXTS WHERE THESE SKILLS ARE ASSESSED



•Use of skills in careers





Personal

 Use of skills at home or for recreation or hobbies

Civic

•Use of skills in the community

Web

You ordered a desk lamp from KE-Lamps.com.

The desk lamp arrived, but it was not the color you ordered.

Using the company's website, arrange to exchange the lamp you received for the one you ordered.

Once you have finished, click Next to go on.

File Edit Bookmark Help











URL: http://www.KE-Lamps.com



KE-Lamps.comThe best way to light your life

Bedroom Lamps

Desk Lamps

Floor Lamps

Table Lamps

New Arrivals

SALE!



Customer Comments

Customer Service

Employment Opportunities About Us











LEVELS OF PROFICIENCY

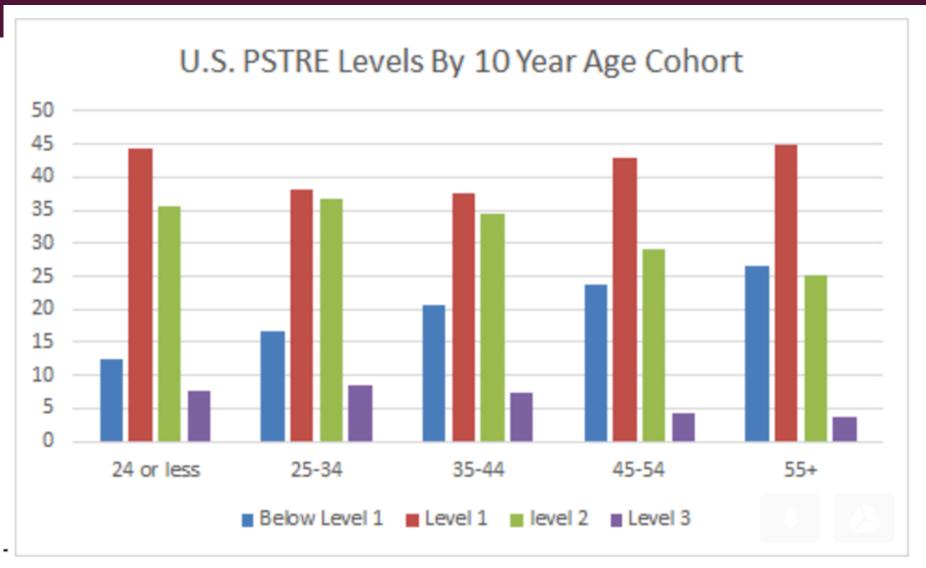
Sort emails into pre-existing folder using given criterion Respond to a request by locating information in a spreadsheet and e-mailing the requestor

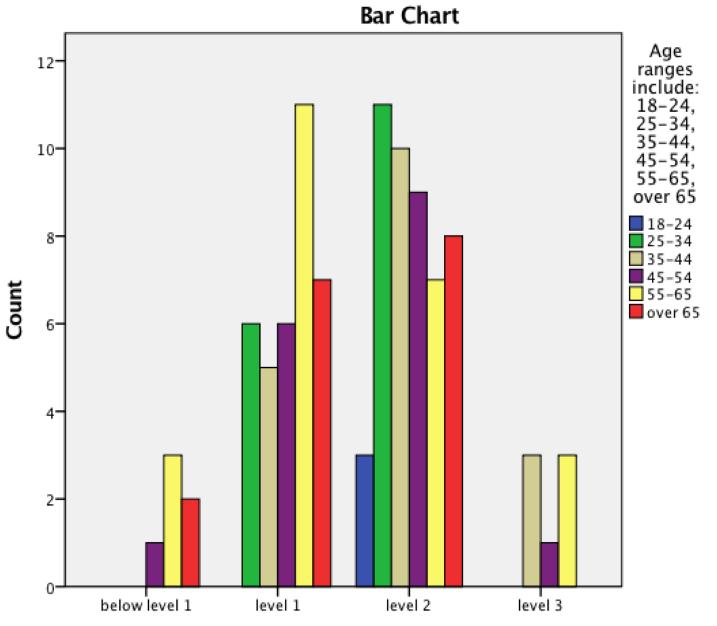
Manage requests
to reserve
meeting room
using a
reservation
system. Discover
schedule conflict,
e-mail to decline
the request.

Level 1 Level 2 Level 3

Digging into the Data

National digital problem solving data by AGE





PSTRE level. Includes: Below level 1, Level 1, Level 2, Level 3

Our Data

IMPLICATIONS: WHAT DOES AGE DATA MEAN FOR OUR LIBRARY?

Avoid making assumptions about digital problem solving skills based on age.

Younger doesn't mean more skilled

Older doesn't mean less skilled

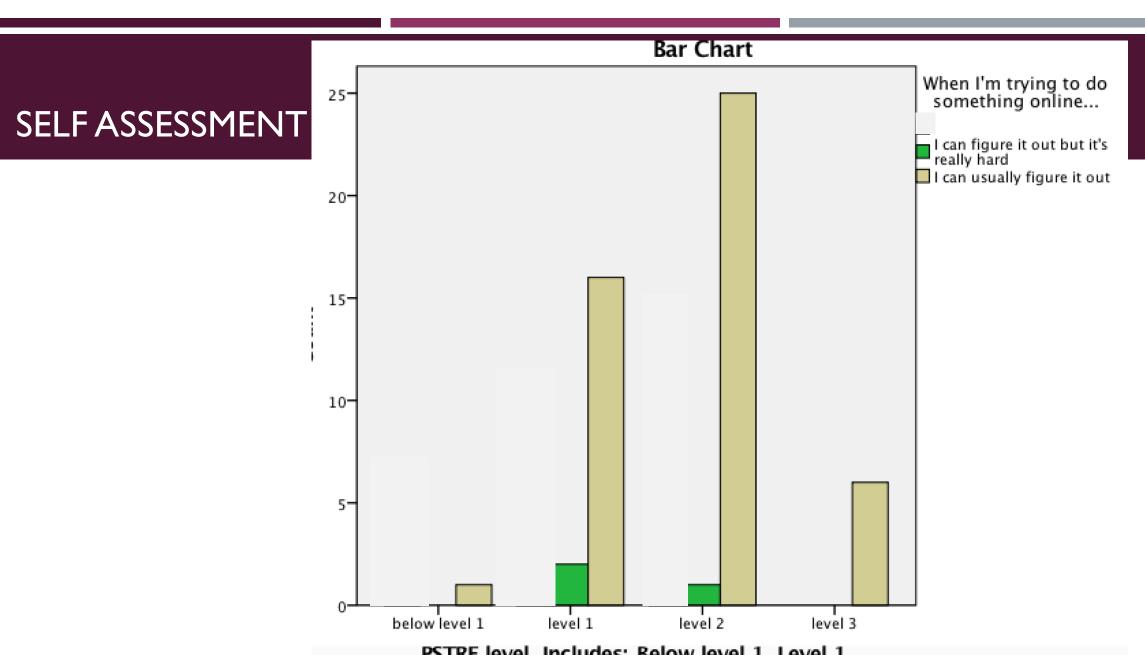
WE SUPPLEMENTED THE PIAAC DATA WITH A SELFASSESSMENT

When I'm trying to do something online...

- I can usually figure it out
- I can figure it out but it's really hard
- I almost always get stuck

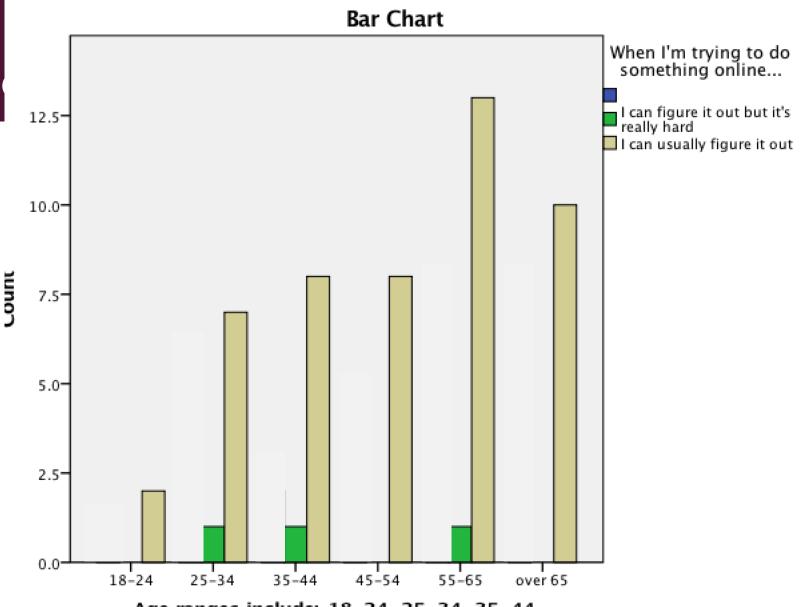
Do you have the skills to do what you need or want to do online?

- Yes
- O No



PSTRE level. Includes: Below level 1, Level 1, Level 2, Level 3

SELF ASSESSMENT



Age ranges include: 18-24, 25-34, 35-44, 45-54, 55-65, over 65

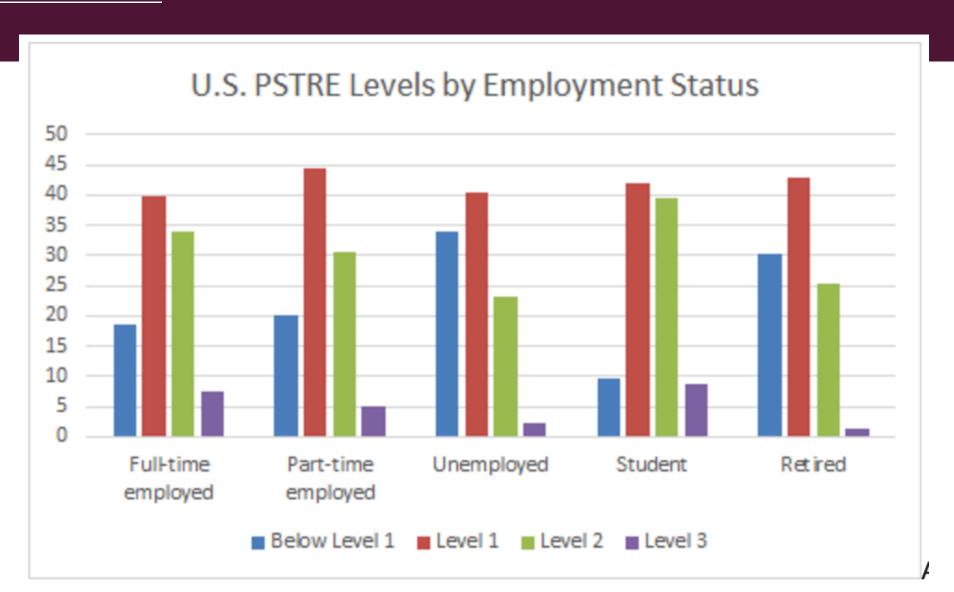
HOW DOES SELF-ASSESSED SKILL IMPACT OUR PROGRAMMING?

Most people think they're skilled and efficient at digital problem solving

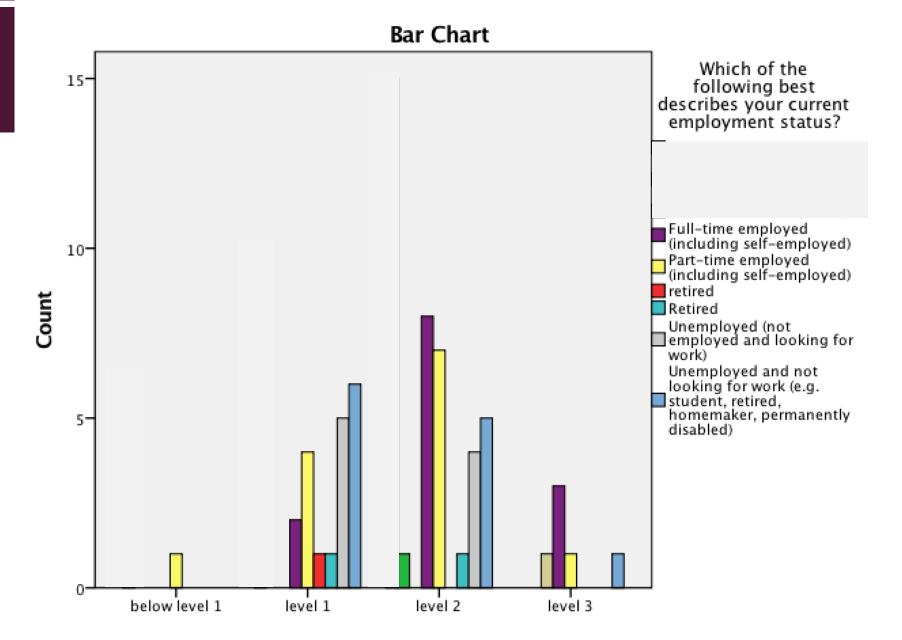
Most aren't as skilled as they think they are

Integrate skill building into what patrons' come into the library to accomplish

NATIONAL DIGITAL PROBLEM SOLVING DATA BY EMPLOYMENT STATUS



EMPLOYMENT



IMPLICATIONS AT THE LIBRARY

To Impact Employablity

Digital problem solving skills

Basic digital literacy

Bar Chart What is the 20highest level of education you have compléted? Includes: No formal education, primary education, 15secondary education without a diploma, secondary education, some post-secondary education, 4 year college or university degree, beyond a college secondary education without a diploma secondary education some post-secondary education ■ 4 year college or university degree beyond a college or university degree level 2 below level 1 level 1 level 3

PSTRE level. Includes: Below level 1, Level 1, Level 2, Level 3

Education and PSTRE scores do not go hand in hand

WHAT THIS MEANS FOR LIBRARY PROGRAMMING?

Formal education and/or completion higher education does not equal strong digital skills



Provide interestdriven learning; opportunities to use digital skills and gain experience

SUPPLEMENTS TO PIAAC DATA: OUR OWN SURVEY

Where do you use the web/Internet most often?

For example, Facebook, email, Trimet, Google, etc.

- At home
- At work
- At the library
- Other:

Bar Chart Where do you use the web/Internet most often? 40-Includes: at home, at work, at the library, other home home work 30library both work and home apple store cell phone 20-10level 2 level 3 below level 1 level 1

PSTRE level. Includes: Below level 1, Level 1, Level 2, Level 3

Internet use location

IMPLICATIONS FOR LIBRARY PROGRAMMING

For patrons use the web/ Internet most often at the library

OR most often use their Cell Phone for Internet access

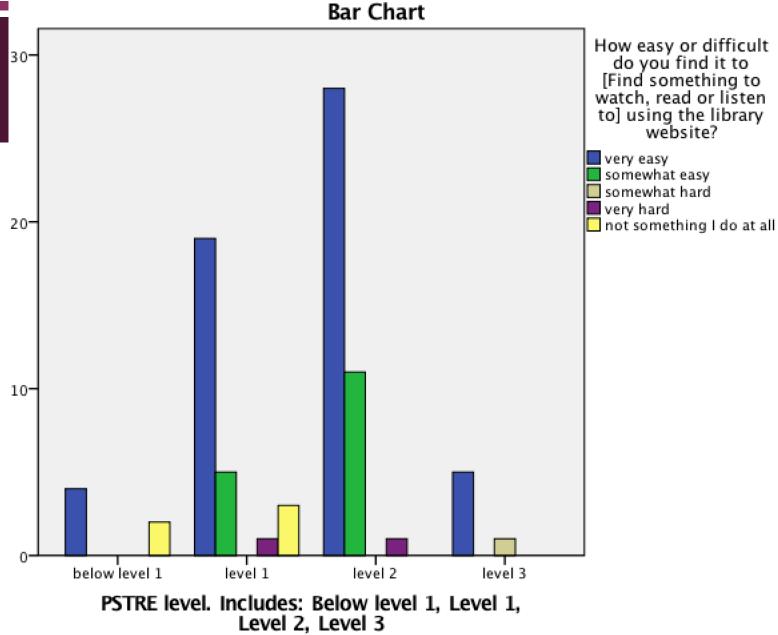


Provide Devices; supplement their access & give them more time

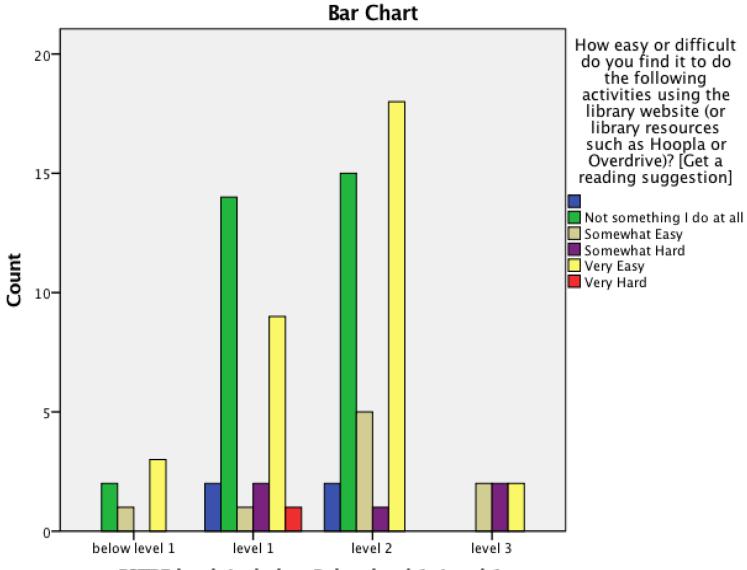
QUESTIONS WE'RE THINKING ABOUT?

What does a score at a certain PSTRE level imply about what that patron can and cannot do in the library using digital tools and interfaces?

USE OF LIBRARY RESOURCES & DIGITAL PROBLEM SOLVING

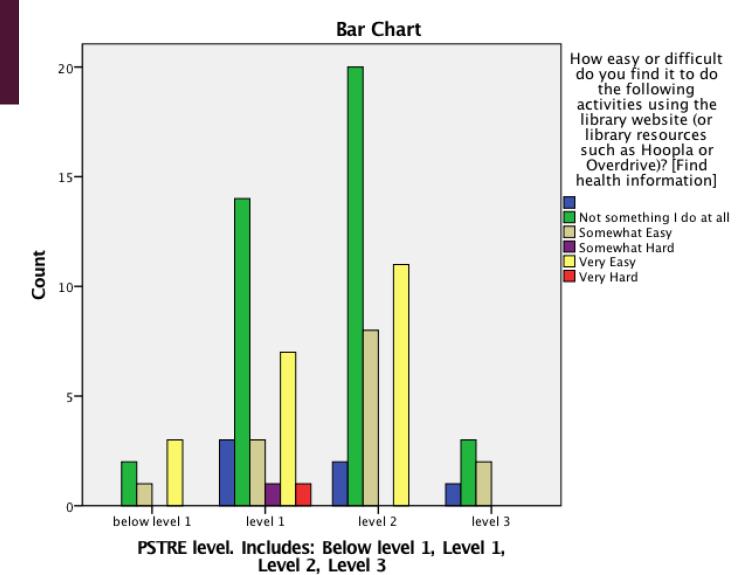


USE OF LIBRARY RESOURCES & DIGITAL PROBLEM SOLVING



PSTRE level. Includes: Below level 1, Level 1, Level 2, Level 3

USE OF LIBRARY RESOURCES & DIGITAL PROBLEM SOLVING



WHAT DO THESE DATA SUGGEST ABOUT USE LIBRARY INTERFACES?

Do patrons know what the library has?

Patrons do not know ALL of what's available to them.

Can they Use what we offer them?

While patrons find things easy or somewhat easy, many still need help.

PLUGGING INTO YOUR COLLECTIVE EXPERIENCE

Discuss with a small group...

What do these trends mean for the tools you offer patrons?

What do these trends mean for the training you offer patrons?

What might this mean for the process you use to select vendors and online tools/products?

How can you make resources more accessible to patrons with lower skills? What additional questions do these questions raise in your context?

STAY TUNED -- MORE TO COME

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