# LESSONS LEARNED IN BUILDING A CATALOG FROM SCRATCH

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http://www.hclib.org

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#### TOOLS

- SirsiDynix Horizon (custom built ILS API)
- Solr, LDAP, and SQL databases
- ColdFusion/ASP.NET and Perl
- Twitter Bootstrap and jQuery
- Git code management
- Content vendors with APIs

TEAM

- 4-5 developers
- 4-5 content librarians
- Web design firm



#### THE PAGES

- Search (not a page unto itself)
- Search Engine Results Page (SERP)
- Record Display
- My Account
  - Login
  - Summary
  - Items Out
  - Requests
  - Fines
  - My Lists
  - My Reviews
  - My Authors
  - Account Settings





### SEARCH





		Locations Events Calendar Jobs Support Your Library Contact Us
Hennepin He	ennepin County I <b>brary</b>	My Account Browse Programs and Services About the Library
7.2	Books, Music, Movies	Magazine and Newspaper Articles Website
L. T		More Search Options  Search Q





Google-style search "dumbs down" the library.

Many users accustomed to the browse search of the previous catalog.

*"Catalog" label is an important indicator of a particular search type.* 

Search box in general needs to always be visible.

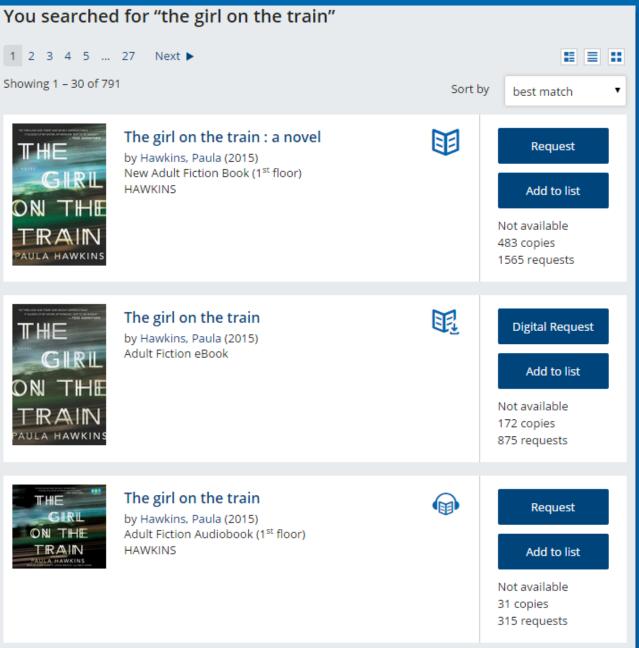


### **SEARCH** *More Search Options*

		Locations Eve	nts Calendar Jobs	Support Your Library	Contact Us	Log In
Hennepin	lennepin County L <b>ibrary</b>	Му Ассо	ount Browse	Programs and Services	About the	Library
	Books, Music, Movies	Magazine and N	lewspaper Articl	es Website		
	All 🔻				Q	
	Tip: Use an asterisk (*) to fill Prisoner of Azkaban). Title Subject	in parts of a word (e.g.	"harry potter az*" to Author Series	o find Harry Potter and th	ne	
	Clear All Text			Q Fewer Search	Search	
					_	<sup>mepin</sup> Hennep
					ht	<b>Libra'r</b> tp://www.ł



#### Best Match Sorting



Hennepin Hennepin County Library http://www.hclib.org



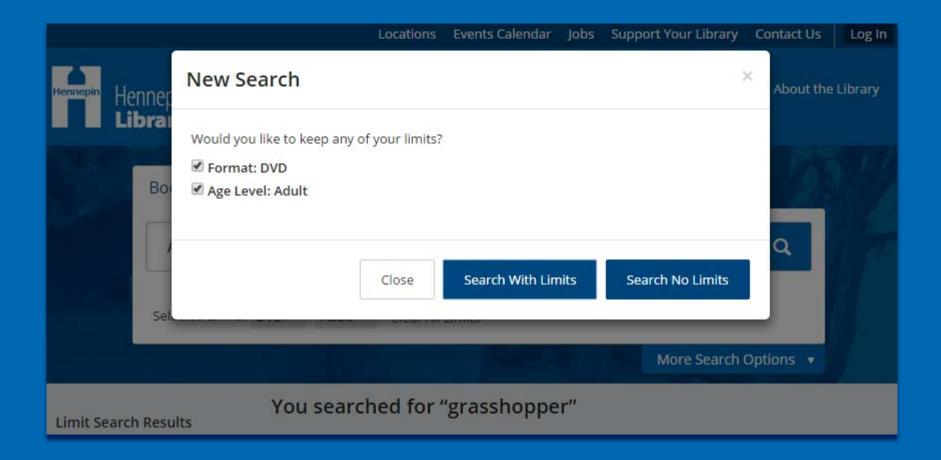
*"Relevancy" and "Best Match" labels are both ambiguous in different ways.* 

People expect all forms of a work to be grouped together.

Adding cross-references from authority records is really helpful (mostly).









People have a love-hate relationship with the modal, but no one misses the button (except a few staff).

Some people were annoyed they had to double-click or click and drag to change search text.

*Tried to make sure that every feature is available for every device, even if it's mobile-specific or desktop-specific technology.* 





All	•	snowman		20	Q
		in parts of a word (e.g. '	'harry potter az*" to find	Harry Potter and th	e
Prisoner of Azk Title	aban).		Author		
Subject			Series		
Clear All Tex	xt			Q	Search





#### Critical Limits

Format 🗧
Book (9)
eBook (7)
Large Print (2)
Audiobook Download (1)
Checked In At 📃
include in-library use copies
<ul> <li>Anywhere (14)</li> <li>Online (3)</li> <li>Minneapolis Central (5)</li> </ul>
Augsburg Park (2)
Brookdale (6)
~
Age Level 📃 🗕
Adult (12)
🔲 Teen (1)





*Digital users want digital holdings broken down to specific formats.* 

"Checked In At" represents copies available now, but to some it means "owning library".

Subject (Genre, Topic, Place, Time Period) not utilized enough because they are particularly difficult to grasp.

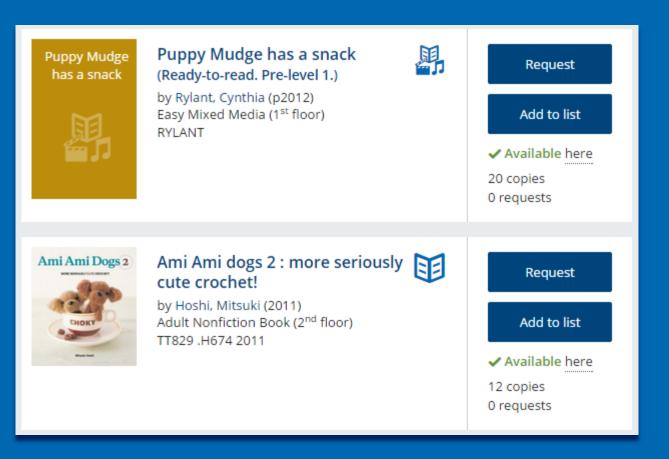




### SEARCH RESULTS (SERP)











*Cover art requires more vertical space (than a line of text), which means more scrolling.* 

*Cover art adds load "weight" causing concern for user patience and mobile limited data plans.* 



## SERP DATA Title, Series, Author, and Publication Date

MDCKINGJAY	<b>Mockingjay (Hunger Games bk. 3.)</b> by Collins, Suzanne (2010) Teen Fiction Book (2 <sup>nd</sup> floor) COLLINS	Request Add to list Not available 122 copies 5 requests
CATCHING FIRE	<b>Catching fire (Hunger Games bk. 2.)</b> by Collins, Suzanne (2009) Teen Fiction Book (2 <sup>nd</sup> floor) COLLINS	Request Add to list Available (8 libraries) 113 copies 2 requests
THE HUNGER GAMES SUZANNE COLLINS	<b>The Hunger Games (Hunger Games bk. 1.)</b> by Collins, Suzanne (2008) Teen Fiction Book (2 <sup>nd</sup> floor) COLLINS	Request Add to list Available (3 libraries) 109 copies 5 requests

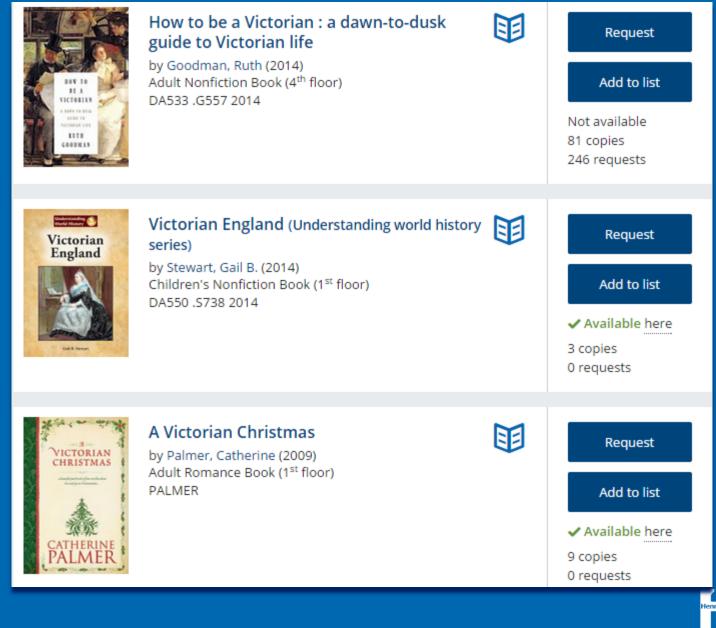
Hennepin County Library http://www.hclib.org *Series links are overlooked but were even less visible under the author statement.* 

Despite having the series information with the title, people still often use publication date to determine book sequence.

Surprisingly, including the publication date after the author name has not raised any issues.



### SERP DATA Collection, Format, and Call Number

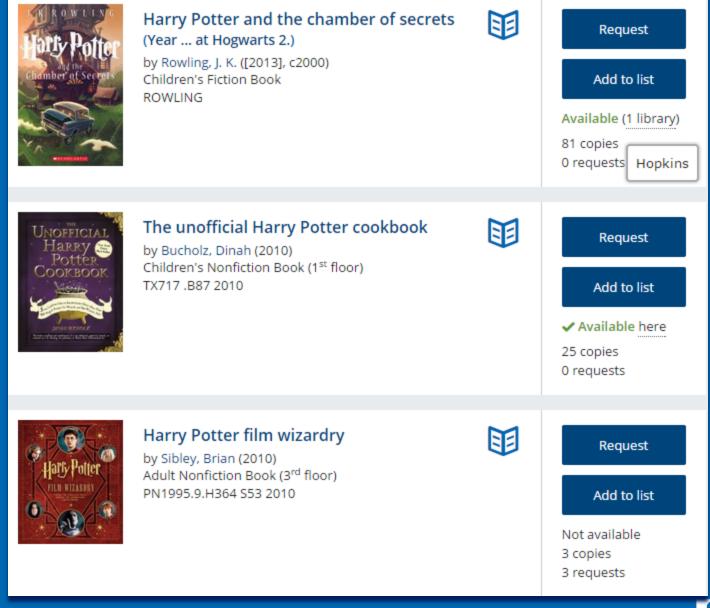


Hennepin County Library http://www.hclib.org Some icons are not obvious enough, especially for downloadable formats.

*Call numbers only display if inside the library so that the correct call number is shown.* 



### SERP DATA Availability







What does available mean?



### SERP DATA Summary and Description

#### 12345...

The Giver

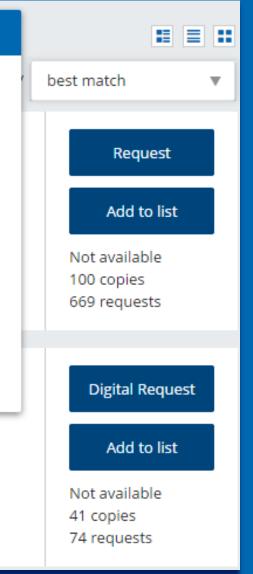
Showing 1 - 30 of 30



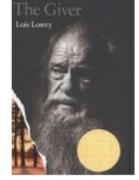
1 videodisc (97 min.) : sound, color and black and white ; 4 3/4 in.

The story centers on Jonas, young man who lives in a supposedly ideal world of conformity and contentment. Yet as he begins to spend time with the elder, who is the sole keeper of all the community's memories, Jonas quickly begins to discover the dark and deadly truths of his community's secret past. At extreme od ....

#### Children's Fiction eBook









How to extend this service to mobile devices?

Length data should use "normal" language, not library jargon.



## SERP DATA Title Status (logged in)

<text></text>	Practical paleo : a customized approach to health and a whole-foods lifestyle by Sanfilippo, Diane (2012) Adult Nonfiction Book	Request My copy due 12/26/14 Add to list Not available 14 copies 39 requests
CONTRACTOR OF CO	Real life paleo : 175 gluten-free recipes, meal ideas, and an easy 3-phased approach to lose weight & gain health by Toth, Stacy (2014) Adult Nonfiction Book	Requested 41 of 41 Add to list Not available 3 copies 41 requests 5 copies on order
THE PALEO MANIFESTO ACCUT VICTOR ALL OFFICIALS REACT	The paleo manifesto : ancient wisdom for lifelong health by Durant, John (Health entrepreneur) (2013) Adult Nonfiction Book	Requested Suspended Add to list Available (9 libraries)





Thought this might have had more impact than we have heard.

Finding text that conveys all that data on a button next to the functionality took some effort.

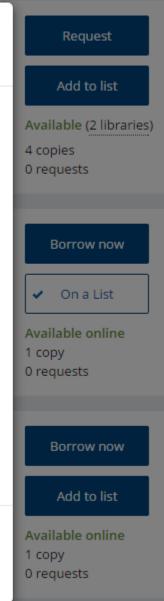


# SERP DATA Add to Lists

#### Edit Title on My Lists

101 Social Media Tactics for Nonprofits : A Field Guide. by Mathos, Melanie

fruits	(5)
germany	(1)
hobbies fun	(25)
movies and documentaries	(13)
movies to rewatch	(2)
nonfiction	(58)
periodicals	(1)
web design	(17)
winter reads 2014	(8)
dd to New List my list	Create
emove from lists	D



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Hennepin County Library http://www.hclib.org

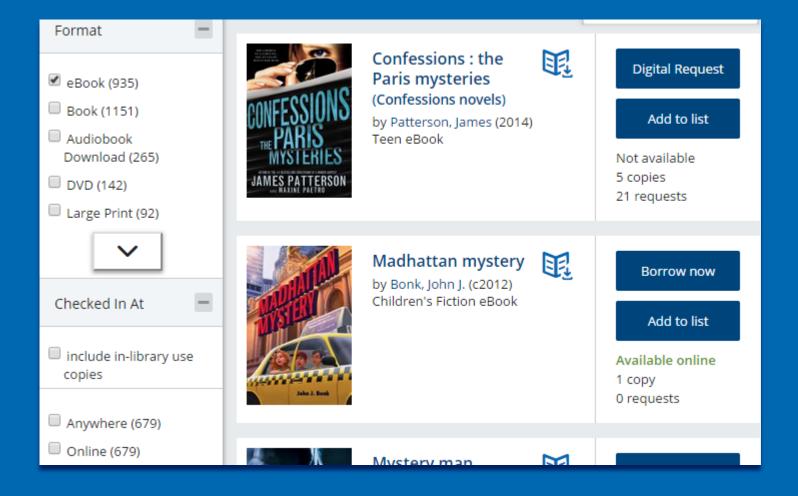


Labels: Add to List, Save For Later, Add to Wishlist, Add to Bookbag, Add to Cart, ...

Hard to be fully featured with fewest clicks for all user levels.











*"Borrow" and "digital request" need to check the actual status from OverDrive before proceeding.* 





Downloading Madhattan mystery by Bonk, John J.					
Your loan expires o	n Friday, 12/26/2014 at 2:36 PM.				
Format	O Adobe EPUB eBook				
25	Cindle eBook				
1	Read Now (in your browser)				
(	Download Later Get Title Return Title				
1					





Merged OverDrive's separate borrow and download steps into one.

"Download Later" made more sense than "Close", even though the latter is more consistent with modals in the interface.

Need to build in a "first time" or "get software" layer to help new users.



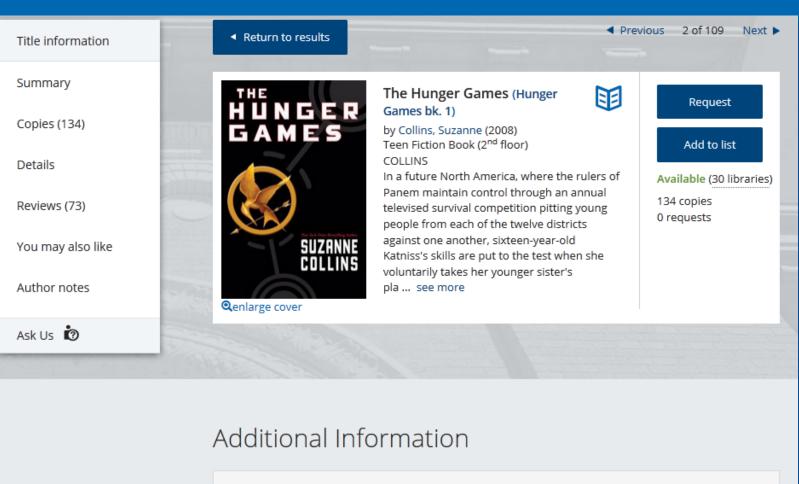


### RECORD DISPLAY



### RECORD DISPLAY

#### Summary



Copies					-
Library	Shelf Location	Call Number	Binding	Status	⊠in
Augsburg Park	Teen Fiction Book	COLLINS	Paperback	Checked In	~





Some users would like to click on the title to do a title search for the other formats.



## RECORD DISPLAY Holdings

Subscriptions						=				
Library	Shelf Location	Coverage		Sta	tus					
Minneapolis Central	Adult Periodical	Current and	preceding year	Cu	rrently Re	ceived				
Franklin	Adult Periodical	ر Current and	preceding 6 mo	nths Cu	rrently Re	Requestin				×
North Regional	Adult Periodical	Current and j	preceding 6 mo	nths Cu	rrently Re	Organic ga	-			X
Northeast	Adult Periodical	Current and	preceding year	Cu	rrently Re					
Pierre Bottineau	Adult Periodical	Current and	preceding 6 mo	nths Cu	rrently Re	0 request	s on 151 cop	pies.		
		~				You have Pick up a		of 50 total requests. Minneapolis Central		
lssues						Select an	Issue	Vol. 62 no. 2 (Feb./Mar. 2015) Vol. 62 no. 1 (Dec. 2014/Jan. 2015) Vol. 61 no. 6 (Oct./Nov. 2014)		
Show 10 • entries Search for an issue:							Vol. 61 no. 5 (Aug./Sept. 2014) Vol. 61 no. 4 (June/July 2014)		-	
Library	Shelf	f Location 🔺	Issue		Stat	Suspend	this			
Minneapolis Central	(3 <sup>rd</sup> floor) Adult P	Periodical	issue 969 (Sep	t. 9, 2013)	Check	request?				
Minneapolis Central	(3 <sup>rd</sup> floor) Adult P	Periodical	issue 1021 (Se	pt. 8, 2014)	Check					
Northeast	Adult P	Periodical	issue 1021 (Se	pt. 8, 2014)	Check					
Pierre Bottineau	Adult P	Periodical	issue 1021 (Se	pt. 8, 2014)	Check				Cancel	Request
Sumner	Adult P	Periodical	issue 1021 (Se	pt. 8, 2014)	Check					
North Regional	Adult P	Periodical	issue 1024 (Se	pt. 29, 2014)	Check				_	
Northeast	Adult P	Periodical	issue 1024 (Se	pt. 29, 2014)	Checke	ed In				
Pierre Bottineau	Adult P	Periodical	issue 1024 (Se	pt. 29, 2014)	Checke	ed In				
Sumner	Adult P	Periodical	issue 1024 (Se	pt. 29, 2014)	Checke	ed In				
Northeast	Adult P	Periodical	issue 1023 (Se	pt. 22, 2014)	Pendin	g				
Showing 1 to 10 of 25	52 entries First Previous	1 2	3 4	5 26	Next	Last				Hennepin Cour

http://www.hclib.org



Periodicals data is still putting lipstick on a pig.

When testing, most people wanted to search for magazine title + date or issue in the search box.



## RECORD DISPLAY Details

Details			=				
Description	487 p. ; 22 cm.						
Lexile level 🔕	700L						
Published	New York : Katherine Tegen Books, 2011 (1st ed.)						
Author	Roth, Veronica						
Internet of the second of t	Insurgent Roth, Veronica	Allegiant Roth, Veronica	<image/> <image/> <text></text>				





# Using external content alongside internal content is difficult to align.

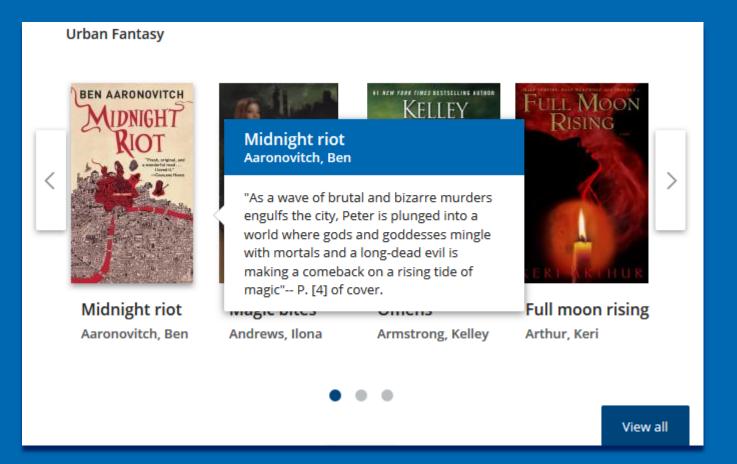
*Is it better to offer the "most useful" data or all the data for the user to decide what is most useful for them?* 

*Lexile data needs to be searchable to be truly helpful.* 



#### RECORD DISPLAY You May

You May Also Like







Cover art is a good selling point for recommendations but not as a delivery means for title/author exclusively.

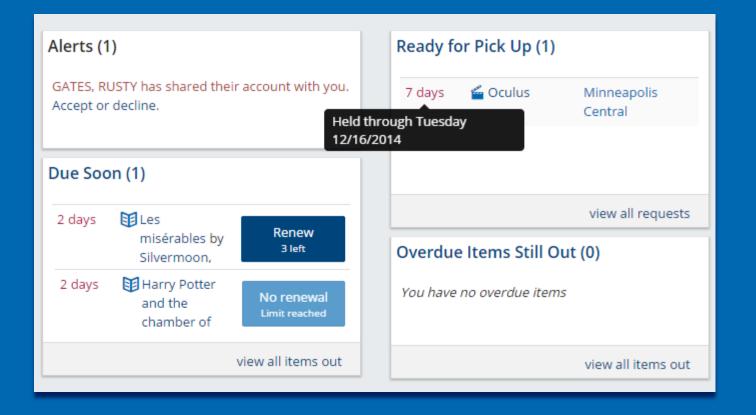
A small carousel (fewer entries than visible number of slots) is messy.





#### MY ACCOUNT









*Importance of each box depends on the person and the content.* 

In mobile view, scrolling for all the content is less evident.



# MY ACCOUNT Items Out and OverDrive

My Items Out (4)						
Re	new Sele	ected		Sort by	Due date 🔹 🖌 A to Z 🔹	
	Title			Due Date	Renew/Download	
	BARBARA VINE	A dark-adapted eye by Vine, Barbara	E	03/19/2015 Expires in 2 days	Re-download Kindle eBook Read Online Now	
	Hats Poter	Harry Potter and the chamber of secrets by Rowling, J. K.		03/19/2015 Due in 2 days	No renewal Limit reached	
	R	Harry Potter and the sorcerer's stone by Rowling, J. K.		03/19/2015 Due in 2 days	Renew 1 left	
		Her highness and the highlander by Warren, Tracy Anne	E	03/19/2015 Expires in 2 days	Re-download Adobe EPUB eBook Read Online Now	



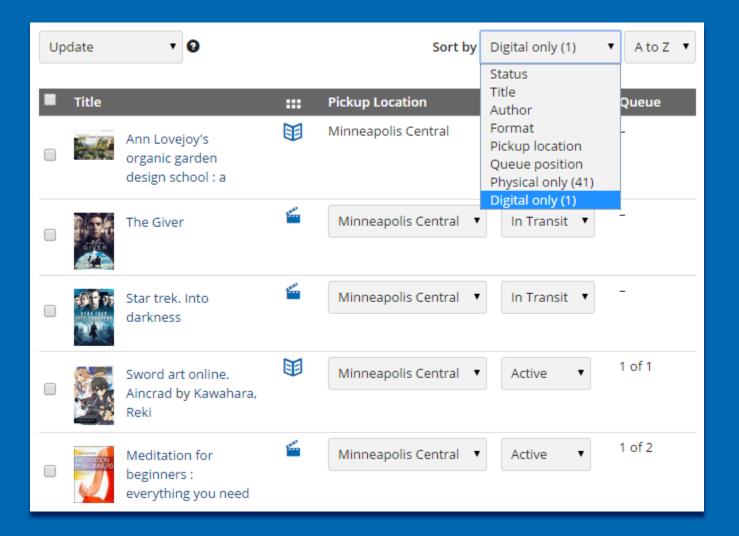


What content was most critical to display is subjective.

Mixing physical and digital titles hasn't caused too much confusion; however, displaying circulation limits has.



## MY ACCOUNT Requests and OverDrive





When displaying queue position, needed to include not just your position but the total number of requests.

Users were very vocal about wanting to be able to batch edit requests and batch renew.



### MY ACCOUNT Account Sharing

#### **Account Sharing** Enable account 1 sharing 🕑 Sharing 💌 People I have shared POOLE, GENE with Pending -21972014421007 Pending Add a person Remove Sharing -People sharing their O'SASSERY, SUSAN E. account with me Pending (accept or decline) GATES, RUSTY

Share My Account with Another Person ~ imes

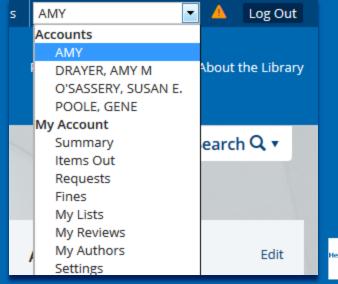
Barcode\*

other person's barcode

I agree to allow this person to perform actions for me on my account, including but not limited to renewing, requesting, and canceling requests on titles.

Cancel

Send invitation



Hennepin County Library http://www.hclib.org



Some users are willing to give up privacy for ease of use.





#### OTHER LESSONS





When troubleshooting, remember to ask the question of origin.





Speed and accuracy is critical; we continue to work on this.





A new interface can never have fewer features than its predecessor.





Log-in only actions must return the user to the action.





Modals and AJAX made a big difference but has its own set of concerns.





Updated technology prevents access to users with older technology.





People want complete control but also want us to know what they mean and make it as simple as possible.





People only see what they want to see and jump to conclusions.





*People feel a lot of ownership of the library as well as certain features.* 



#### QUESTIONS

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