



Steven R. Harris
University of New Mexico

### WHAT

3

do library staff need to know?

### WHAT

do library users need to know?



# E-Book Boot Camp





### Format ← DRM ← Software ← Hardware



### Format DRM Software Hardware



### Publisher ← Aggregator ← Vendor

### metaphysics of e-book



### Format

DRM

Software

Hardware

¤ .azw

¤ ePub

¤ HTML

¤ Adept

¤ Amazon

¤ FairPlay

- ¤ Adobe
  - Digital
    - Editions

¤ B&N

- ¤ BlueFire
- ¤ Calibre
- ¤ Stanza
- ¤ txtr

- ¤ iPad
- ¤ iRex
- ¤ Kindle
- ¤ Kobo
- ¤ Nook
- Sony Reader

¤ .rtf

z .lit

¤ Mobi

¤ PDF

Aggregators: EBL ¤ ebrary ¤ Ebsco ¤ MyiLibrary ¤ OverDrive ¤ 3M

Vendors: Baker & Taylor \mathbb{x} Ingram \mathbb{x} Coutts \mathbb{x} Swets \mathbb{x} W. T. Cox \mathbb{x} YBP

### WHAT

3

is the best way to train?







### Format ← DRM ← Software ← Hardware



### **FORMAT**

### WHAT



do library staff need to know?





.azw

.epub

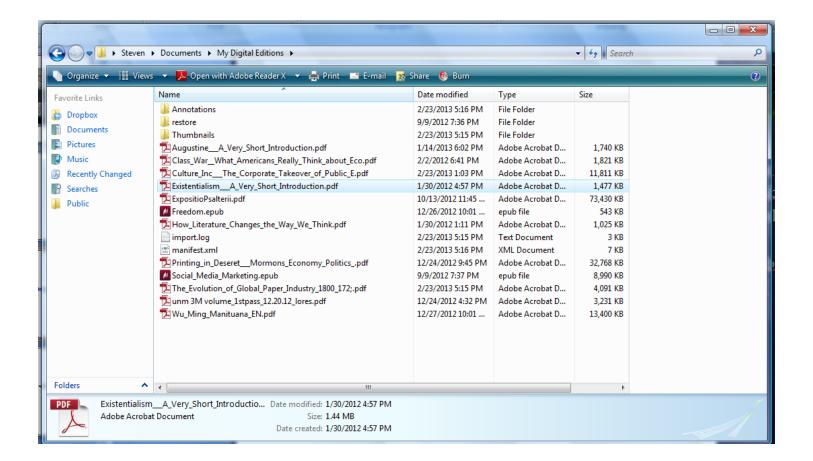
.html

.lit

.mobi

.pdf

.rtf







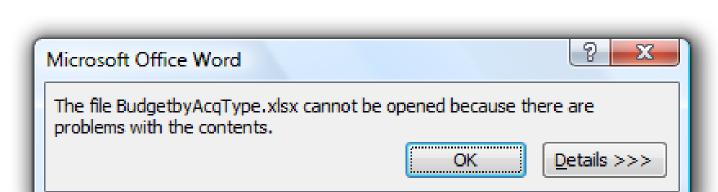
.azw .epub .html .pdf

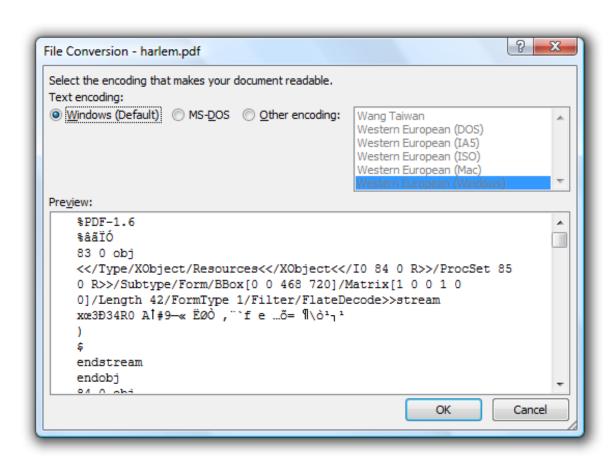
### What happens when you try to open a file with the wrong software?



.azw
.epub
.html
.lit
.mobi
.pdf

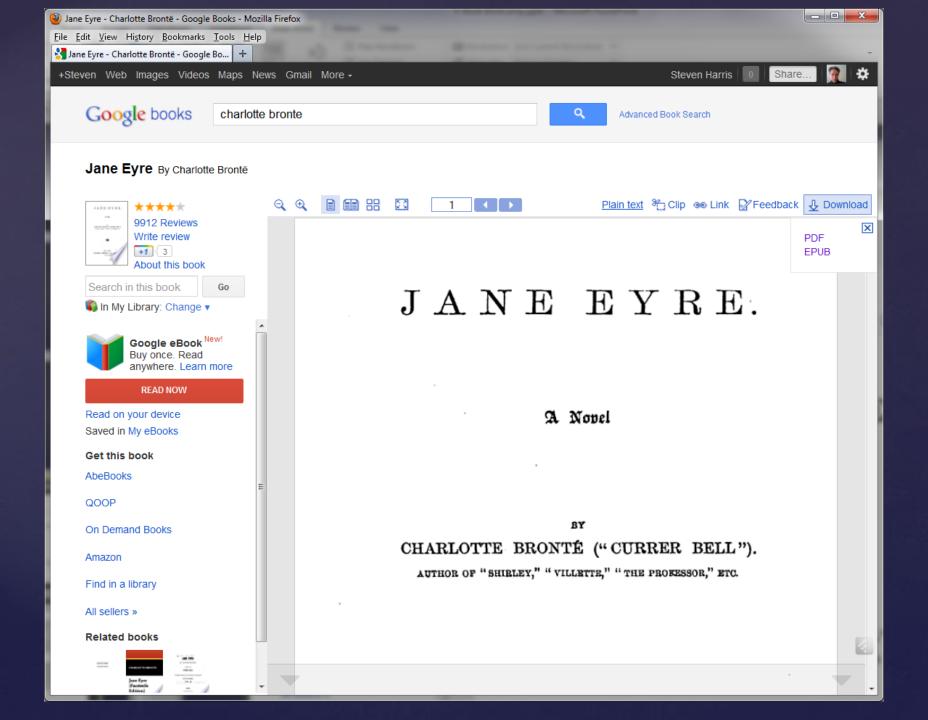
.rtf

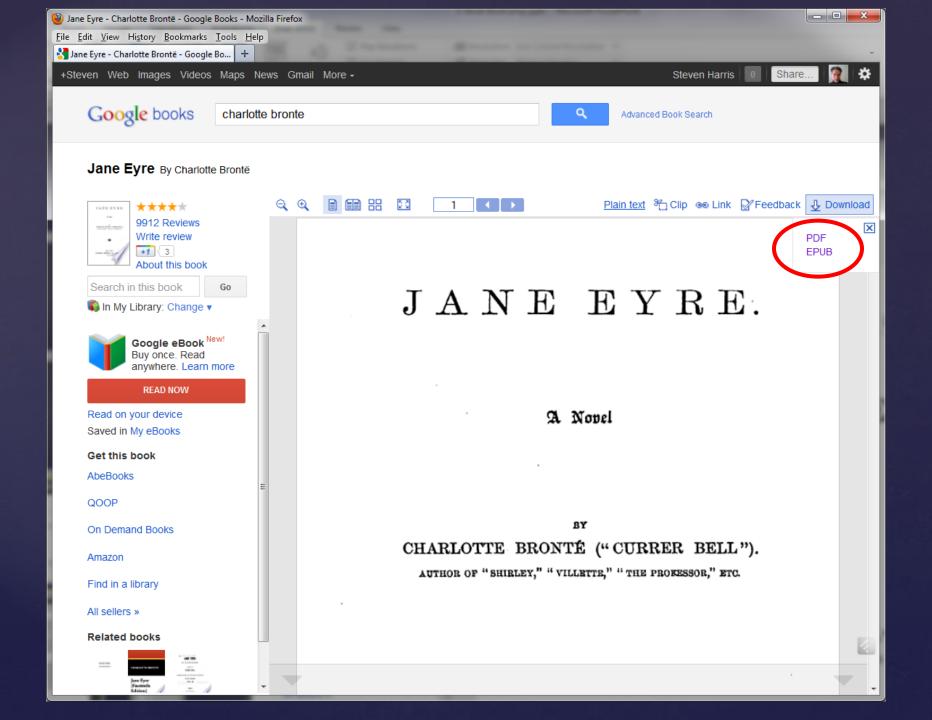


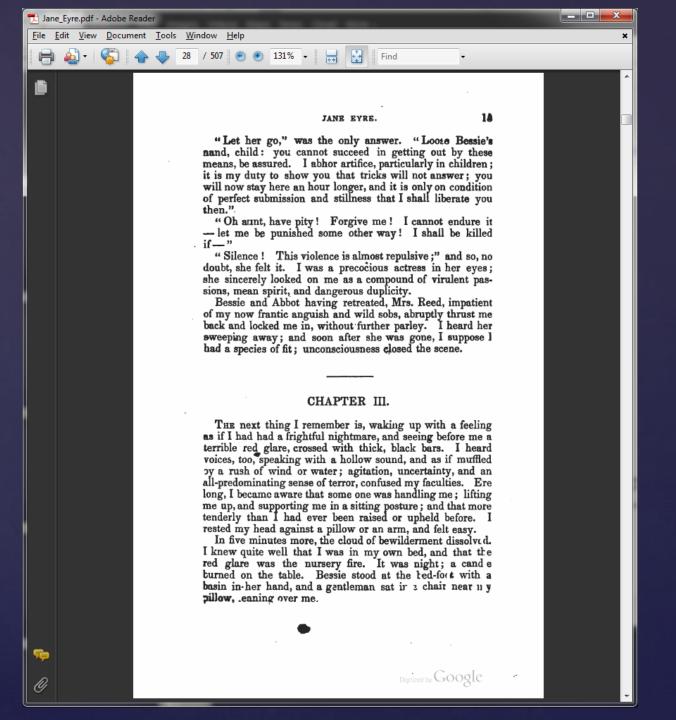




## E-Book Boot









"Oh aunt, have pity! Forgive me! I cannot endure it —let me be punished some other way! I shall be killed if—"

"Silence! This violence is almost repulsive;" and so, no doubt, she felt it. I was a precocious actress in her eyes; she sincerely looked on me as a compound of virulent passions, mean spirit, and dangerous duplicity.

Bessie and Abbot having retreated, Mrs. Reed, impatient of my now frantic anguish and wild sobs, abruptly thrust me back and locked me in, without further parley. I heard her sweeping away; and soon after she was gone, I suppose 1 had a species of fit; unconsciousness closed the scene.

### CHAPTER III.

The next thing I remember is, waking up with a feeling as if I had had a frightful nightmare, and seeing before me a terrible red glare, crossed with thick, black bars. I heard voices, too, speaking with a hollow sound, and as if muffled by a rush of wind or water; agitation, uncertainty, and an all-predominating sense of terror, confused my faculties. Ere long, I became aware that someone was handling me; lifting me up, and supporting me in a sitting posture; and that more tenderly than I had ever been raised or upheld before. I rested my head against a pillow or an arm, and felt easy.

In five minutes more, the cloud of bewilderment dissolvtd. I knew quite well that I was in my own bed, and that the red glare was the nursery fire. It was night; a cand e burned on the table. Bessie stood at the bed-foot with a basin in her hand, and a gentleman sat ir z chair near my pillow, leaning over me.

I felt an inexpressible relief, a soothing cjn miction of protection and security, when I knew that there was a stranger in the room; an individual not belonging to Gateshead, and not related to Mrs. Reed. Turning from Bessie, (though her presence was far less obnoxious to me than that of Abbot, for instance, would have been,) I scrutinized the face of the gentleman; I knew him; it was Mr. Lloyd, an apothecary, sometimes called in by Mrs. Reed when the

Format <b>≑</b>	Filename extension	DRM support	Image support	Table \$	Sound \$	Interactivity support	Word wrap <b>≑</b> support	Open standard	Embedded annotation \$ support	Book- marking \$
ArghosReader	.aeh	Yes	Yes	?	No	No	Yes	No	?	Yes
DjVu	.djvu	?	Yes	Yes	No	No	No	Yes	Yes	Yes
EPUB (IDPF)	.epub	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FictionBook	.fb2	No	Yes	Yes/No <sup>[f 1]</sup>	No	No	Yes	Yes	Yes	?
HTML	.html	No	Yes	Yes	No	No	Yes	Yes	No	No
Kindle	.azw	Yes	Yes	Yes <sup>[f 2][21]</sup>	Yes <sup>[f 3][22]</sup>	Yes	Yes	No	Yes	Yes
Microsoft Reader	.lit	Yes	Yes	?	No	No	Yes	No	?	Yes
Mobipocket	.prc, .mobi	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Multimedia EBook	.exe	Yes	Yes	?	Yes	Yes	No	Yes	Yes	Yes
eReader	.pdb	Yes	Yes	?	No	No	Yes	No	Yes	Yes
Plain text	.txt	No	No	No	No	No	Yes	Yes	No	No
Plucker	.pdb	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Portable Document Format	.pdf	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
PostScript	.ps	No	Yes	?	No	No	No	Yes	?	?
Repligo	.rgo	?	Yes	Yes	No	No	Yes	No	No	No
TealDoc	.pdb	Yes	Yes	?	No	No	Yes	Yes	?	Yes
Tome Raider	.tr2, .tr3	Yes	Yes	?	No	No	Yes	No	?	?

Comparison of e-book formats: Wikipedia

### Exercise: Download an epub file. Change the filename extension to .zip. Open with a zip utility. Look at the files.



.azw
.epub
.html
.lit
.mobi
.pdf

.rtf

### XML

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### **DRM**

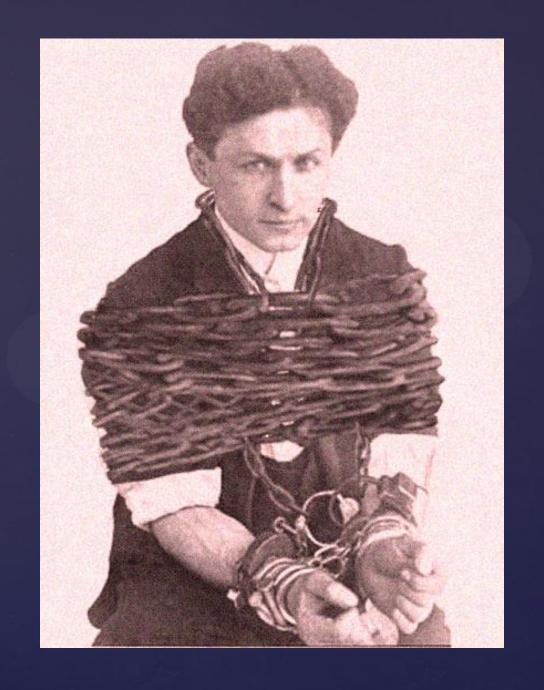


### **DRM** digital rights management

### WHAT

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do library staff need to know?





### **DRM**



prevents copying prevents sharing creates date-stamp

# E-Book Boot

### Format ≠ DRM scheme





# **DRM Schemes**

3

Adobe Amazon Apple Barnes & Noble



# E-Book Boot Camp

# DMCA DRM



## Software

# E-Book Boot Camp

# WHAT

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do library staff need to know?

# Software

\$

Adobe Digital Editions
BlueFire
Calibre
iBook
Kindle
Stanza
txtr



# E-Book Boot



Read
Highlight
Annotate
Dictionary
Manage
Convert

# E-Book Boot

# Play well together:



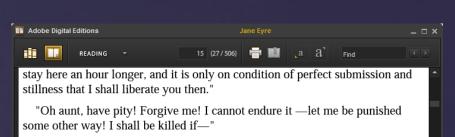
Adobe Digital Editions
BlueFire
txtr



# E-Book Boot

# Is it hardware or software?





"Silence! This violence is almost repulsive;" and so, no doubt, she felt it. I was a precocious actress in her eyes; she sincerely looked on me as a compound of virulent passions, mean spirit, and dangerous duplicity.

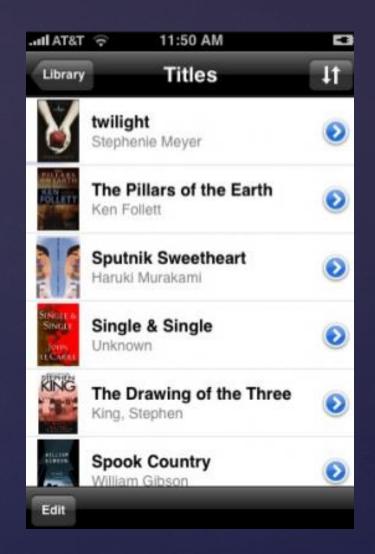
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.... AT&T 3G

9:46 PM



Home

Falling Man: A Novel

1

It was not a street anymore but a world, a time and space of falling ash and near night. He was walking north through rubble and mud and there were people running past holding towels to their faces or jackets over their heads. They

synchronizeral 46 Phiefs pressed to their mouths. They had shoes in their hands won AA with

Location 67-71

iPad ♀





George Naylor loads his truck with corn from his storage bin, which he'll then tow to the grain elevator in town.

## I PLANT CORN

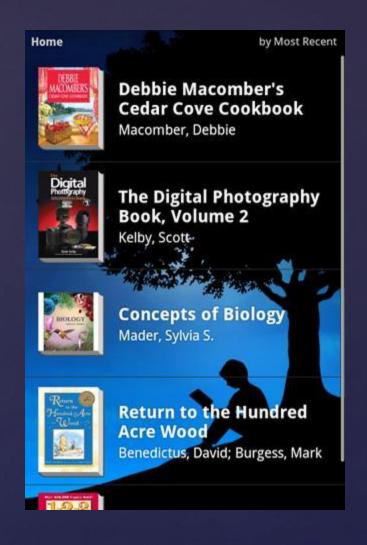
The day I showed up at the farm was supposed to be the only dry one all week, and George was trying to get his last 160 acres of corn planted. A week or two later he'd start in on the soybeans. The soybean has become the second major crop in the industrial food chain, taking turns each year in the field with corn. It now finds its way into two-thirds of all processed foods.

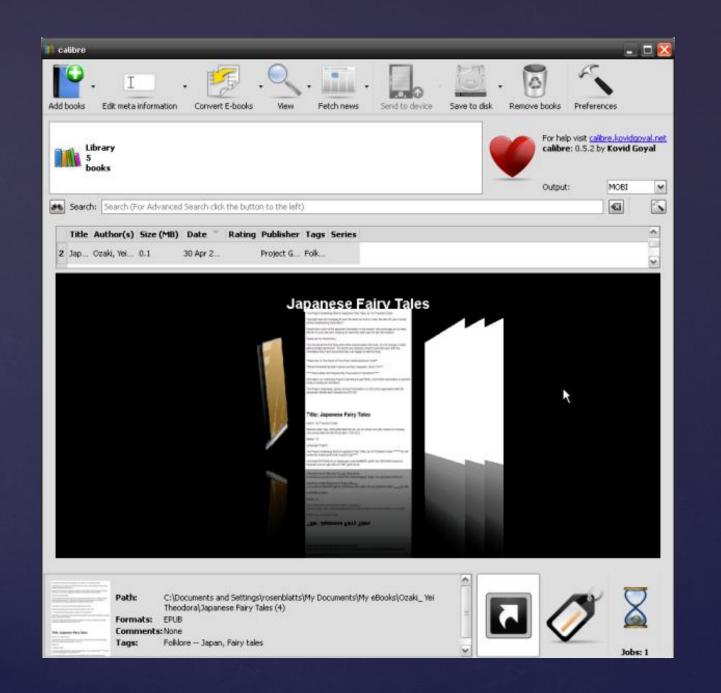
For most of the afternoon I sat on a rough cushion George had made for me from crumpled seed bags. After a while he let me take the wheel. We drove back and forth across the field, a half a mile in each direction. Every pass across this field, which is almost perfectly flat, represents another acre of corn planted.

The corn seed we were planting looked like regular kernels of corn, but it was actually something called Pioneer Hi-Bred 34H31. You and I Dictionary Bookmark Search relatively easy for humans to breed new types of corn to fit our needs. But what's good for corn (and agribusiness) isn't always good for farmers. That's the case with the new types of corn seed.

Back when George's grandfather started farming, farmers grew their own seed. That's the way farmers had always gotten their seed—they just kept some of their crop to be planted for the next season. Then in the 1930s seed companies came up with a new kind of corn seed—hybrid corn. A hybrid is a plant or animal whose parents have different traits. For example, you might take a type of corn that resists disease and cross it with another type of corn that produces a lot of ears. The result is a hybrid—a disease-resistant plant that produces a lot of corn. Sounds good, right?

The catch is that hybrid corn does not "come true." The first crop planted from hybrid corn seed will all be identical. The plants will have all the good traits the seed company promised. But the "children" of that crop will be mixed. Some plants will be like their hybrid parents, but most will not. The only way to make sure your plants produce the same amount of corn—that they have the same yield as the original hybrid—is to buy new seed every year from a seed company.











## ...if it weren't in violation of DMCA!

# Irony

3

You can read an Amazon e-book on almost device, but you can't read other e-book files on a Kindle.

You can read almost any kind of e-book file on an iPad, but you can't read Apple iBooks on other devices.





## Hardware



# Hardware

\$

iPad iRex Kindle Kobo Sony Reader Smartphones *PCs* **Tablets** 



E-Book Boot



# Hardware



iPad Kindle Kobo Sony Reader

# E-Book Boot Camp

# E-Book Boot Camp

# E-Ink vs LCD

# E-Book Boot

E-Ink

B&W

Low glare

Reading

**LCD** 

Color

**Backlit** 

Apps

## iPad

Format = ePub, HTML, PDF DRM = Apple (or Adobe via app) Software = multiple Display = LCD



# THE RESERVE OF THE PARTY OF THE

## **Fire**

Format = ePub, HTML, PDF DRM = Amazon (or Adobe via app) Software = limited by Amazon Display = LCD



## Kindle

Format = .azw, PDF DRM = Amazon (or Adobe via app) Software = Kindle Display = E-Ink

# Dibrary Dib

## Nook

Format = ePub, HTML, PDF DRM = B&N (or Adobe via app) Software = limited by Amazon Display = E-Ink and LCD

# 

# -Book Boot

## Sony Reader

Format = ePub, PDF DRM = Adobe Software = Sony Display = E-Ink





# How does the hardware interact with the library's collections?



## Checklist



# E-Book Boot Camp



# What's the format? Does your device support that?

What's the DRM?
Does your device support that?

What software is required? Does your device support that?

What is your device?

Does the library support that?





## Publisher ← Aggregator ← Vendor

# E-Book Boot Camp

# WHAT



do library staff need to know?



It's complicated.

### Publishers



There are issues!

# E-Book Boot Camp



### Aggregators

3

Our platform is better than their platform.



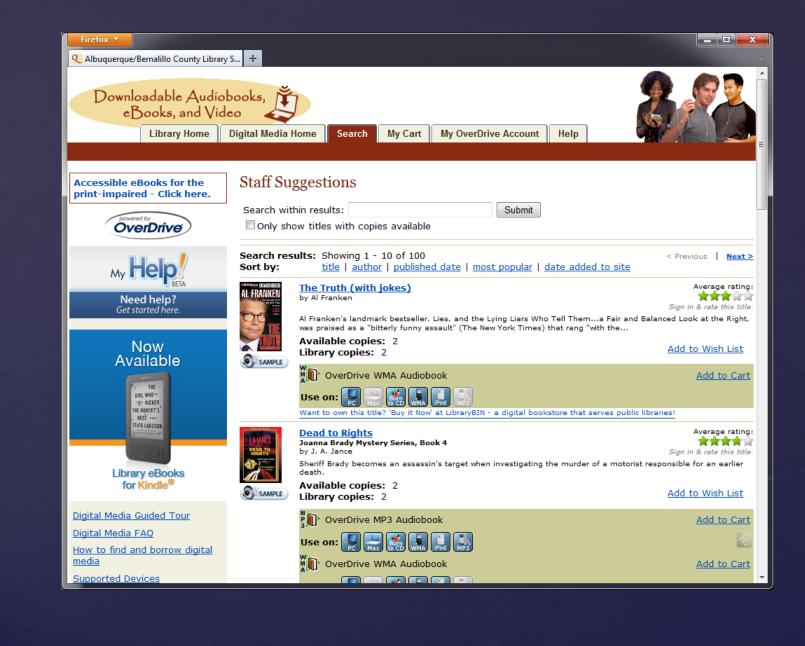
### Aggregators

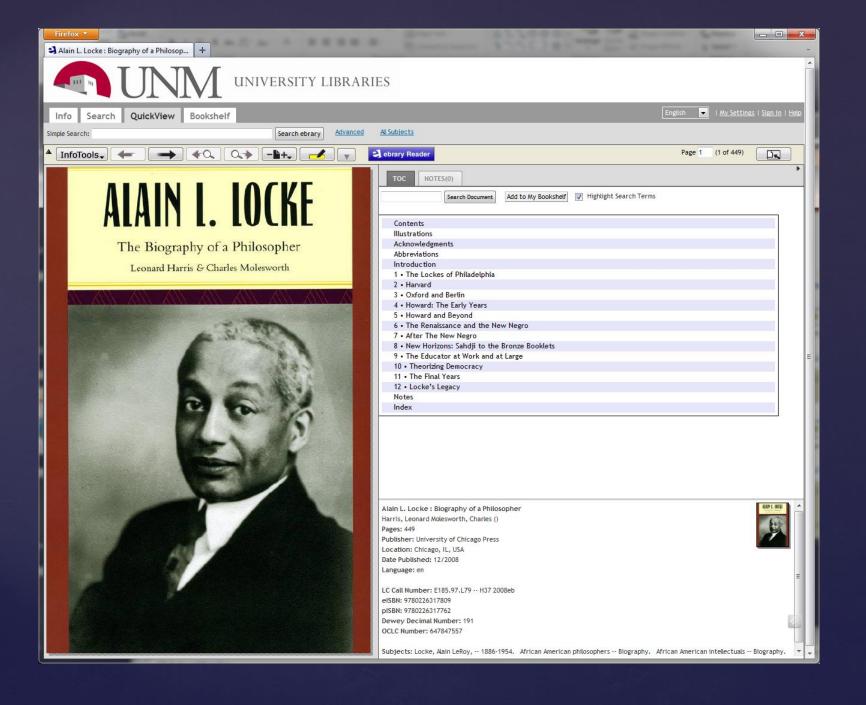
EBL
Ebrary
Ebsco
Google
MyiLibrary
OverDrive

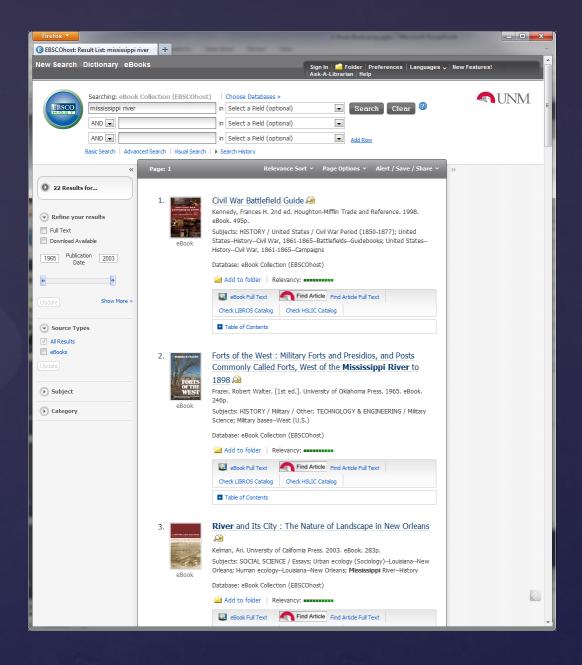
3M

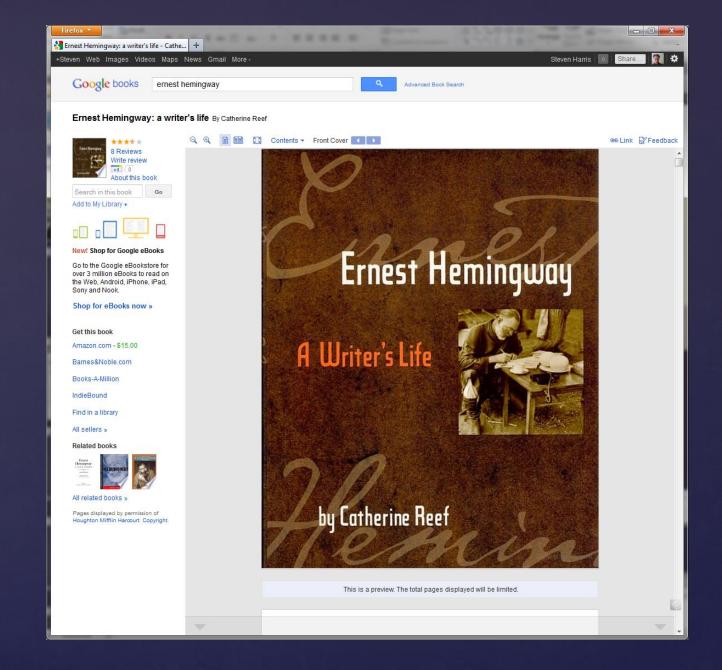


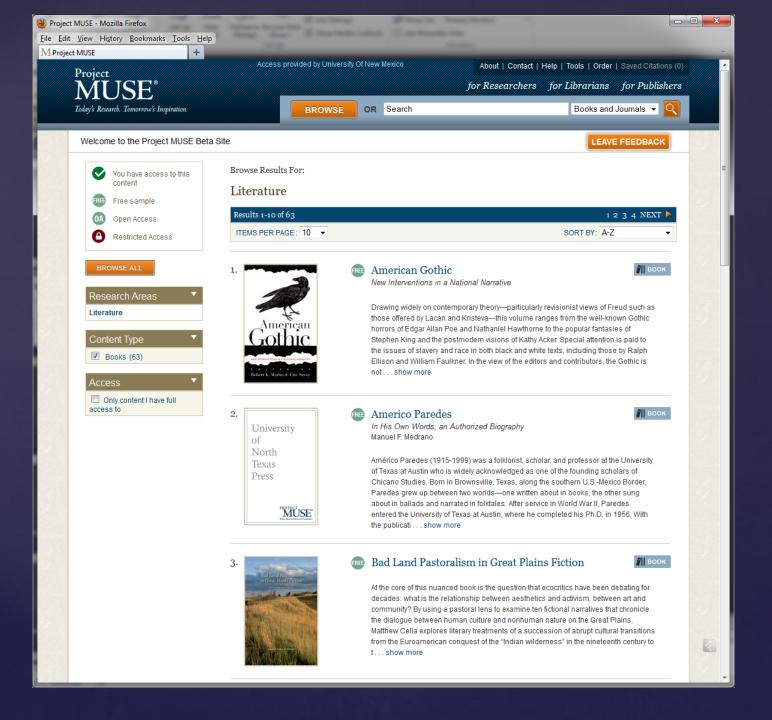
E-Book Boot Camp











### Vendors

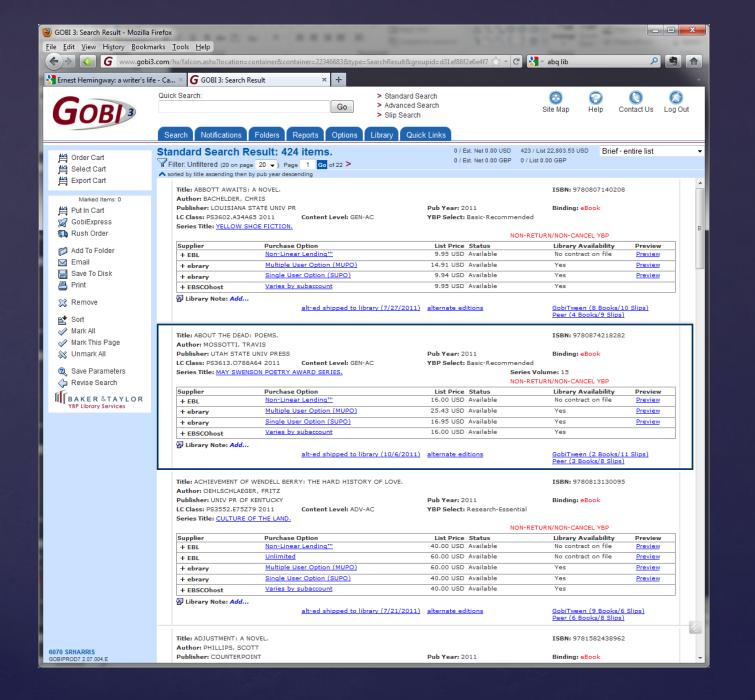


The publishers won't let us do that.

### Vendors

Baker & Taylor
Coutts
Ingram
Swets
W.T. Cox
YBP





### Problem

3

It is mostly an end-user ecology.





### Format DRM Software Hardware

### Because we can.



Why library services are restricted.

### Lack of standards.

Unwillingness to allow interoperability.

Insistence on DRM.









Publisher ← Aggregator ← Vendor





## E-Book Boot

### Create a Matrix

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Book
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3

Resource	Special login requirements	Displays as PDF	Displays as HTML	Must be read online (cannot download >1 page at a time)	Able to download >1 page at a time	Page limitations at download	Adobe Digital Editions (ADE)	Of special note
Ebook Library		x	x		х		Optional. Required to download book for checkout	User can choose to have EBL read the book aloud.  User can select 1 to 7-day checkout.
eBrary	User can read materials online w/o ebrary account.  To download, a user must have an ebrary account.	x	x		х	PDF download limited per book per session to: • One chapter OR • 60 pages	Optional. Required to download book for checkout	14-day checkout for downloads     Paul Webb (paul@ebrary.com) offers a fantastic training on the "bells and whistles" of ebrary functionality
Books 24x7	Must create a     Books24x7 account     using UNM email     address.		x	х				No function for searching for word within a book
eBook Collection from Ebscohost	User can read materials online w/o eBook Collection (EBSCOhost) account.      To download, a user must have an eBook Collection (EBSCOhost) account.		х		X (requires ADE)		Optional. Required to download book for checkout	User can select 1 to 7-day checkout.
18 <sup>th</sup> Century Collections Online (ECCO)		х			х	PDF download limited to 250 pages at a time     Can repeat as necessary to save entire item		



### Every library staff should be required to use library collections the way patrons do.



### Using library collections:

- 1. Set up Adobe ID.
- 2. Install Adobe Digital Editions.
- 3. Install ADE compatible app.
- 3. Search the catalog.
- 4. Download the e-book to ADE.
- 5. Transfer the e-book to the tablet.
- 6. Plus about 20 other steps.





srharris@unm.edu @srharris19

