

The digital divide hurts hacking & libraries

What to do?

Next HOPE 16jun10





I mostly work with libraries and schools. I describe my job as "teaching email to old people." I really like it. This is my town library. When I work there, filling in sometimes, they pay me \$8/hour. Good thing I have an internet job [running MetaFilter] so I can pay my heating bill. I agitate a lot about the digital divide.

google: "jailbreak iphone"

Device ⌵	First available ⌵	First Jailbreak released ⌵	Latest firmware version ⌵	Latest Jailbreakable firmware version (released) ⌵
iPhone 2G (Original iPhone)	June 29, 2007	July 10, 2007 ^[11]	3.1.3	3.1.3 ^[note 1]
iPod Touch 1G	September 5, 2007	October 10, 2007	3.1.3	3.1.3 ^[note 2]
iPhone 3G	July 11, 2008	July 20, 2008 ^[12]	4.0	4.0
iPod Touch 2G (2nd Generation) (non-MC model)	September 9, 2008	March 11, 2009 ^[13]	4.0	4.0
iPhone 3GS (Old Bootrom iBoot-359.3)	June 19, 2009	July 3, 2009 ^[14]	4.0	4.0 ^{[15][16][17] [note 3]}
iPod Touch 2G (2nd Generation) (8GB MC model)	September 9, 2009	November 2, 2009 ^[18]	4.0	4.0 ^{[19] [note 4]}
iPhone 3GS (New Bootrom iBoot-359.3.2)	October 4, 2009	November 4, 2009	4.0	4.0 ^{[19] [note 5]}
iPod Touch 3G (3rd Generation)	September 9, 2009	October 11, 2009 ^[18]	4.0	4.0 ^{[19] [note 6]}
iPad (Wi-Fi model)	April 3, 2010	April 4, 2010	3.2	3.2
iPad (3G model)	April 30, 2010	May 2, 2010	3.2	3.2
iPhone 4	June 24, 2010	N/A	4.0	N/A ^{[20][21] [note 7]}

Now I am not any sort of hacker, I don't code, but I know enough to google "jailbreak iphone" and follow instructions. Most importantly, I'm not afraid of doing this. How much worse could it be than having a device I can't customize? I think fear of tinkering for many people is fear of sunk costs, that it's all about money, and control. Sort of like the digital divide.

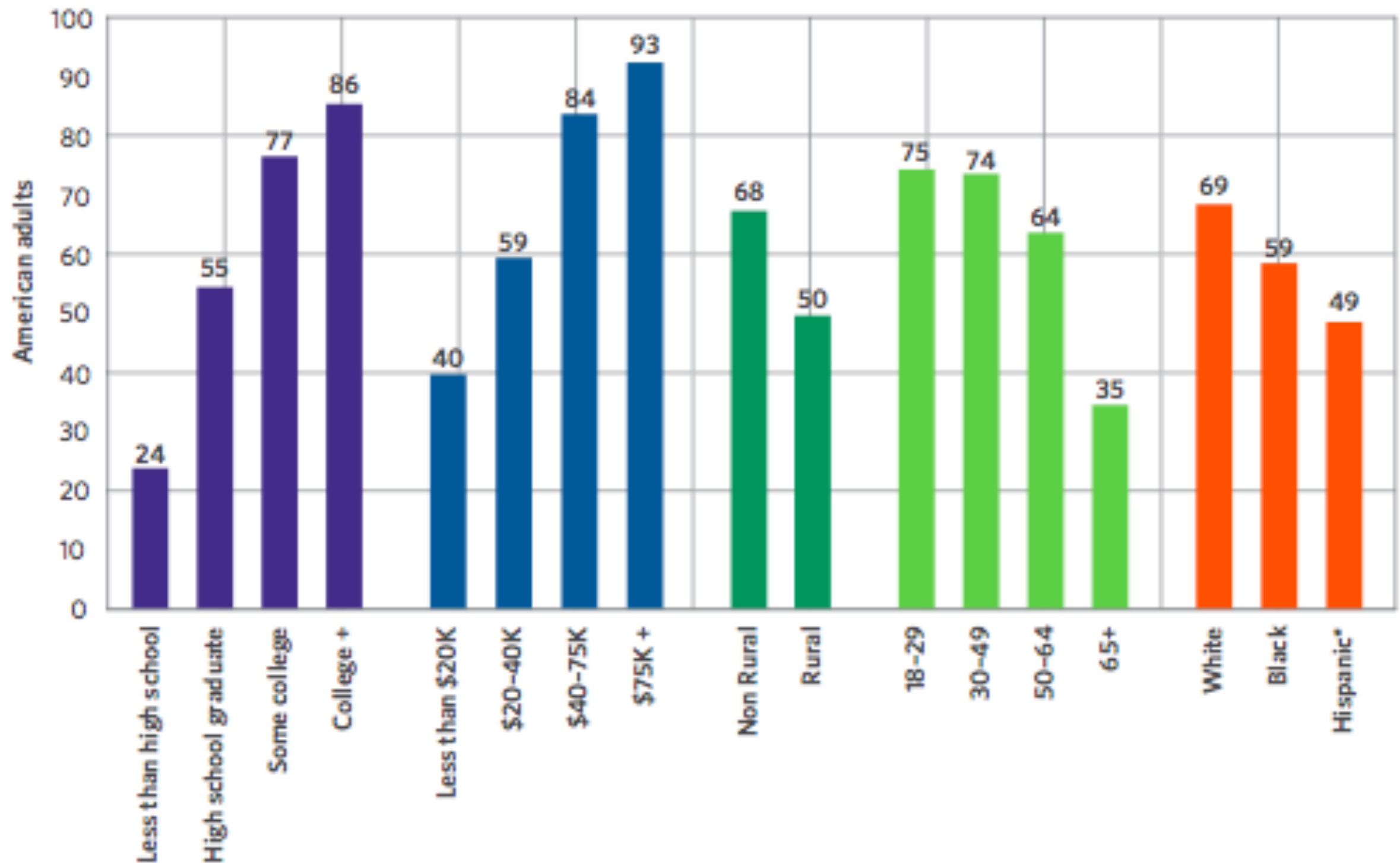
you could date me

If I could
only
get online....



I gave a talk at SXSW about the digital divide. Each time I talk about it I try to make it real to the people I'm talking to. This is hamfisted, but you get the idea. Where I live many people don't have broadband options that aren't spendy satellite because it doesn't make business sense to provide it. OK. More money issues.

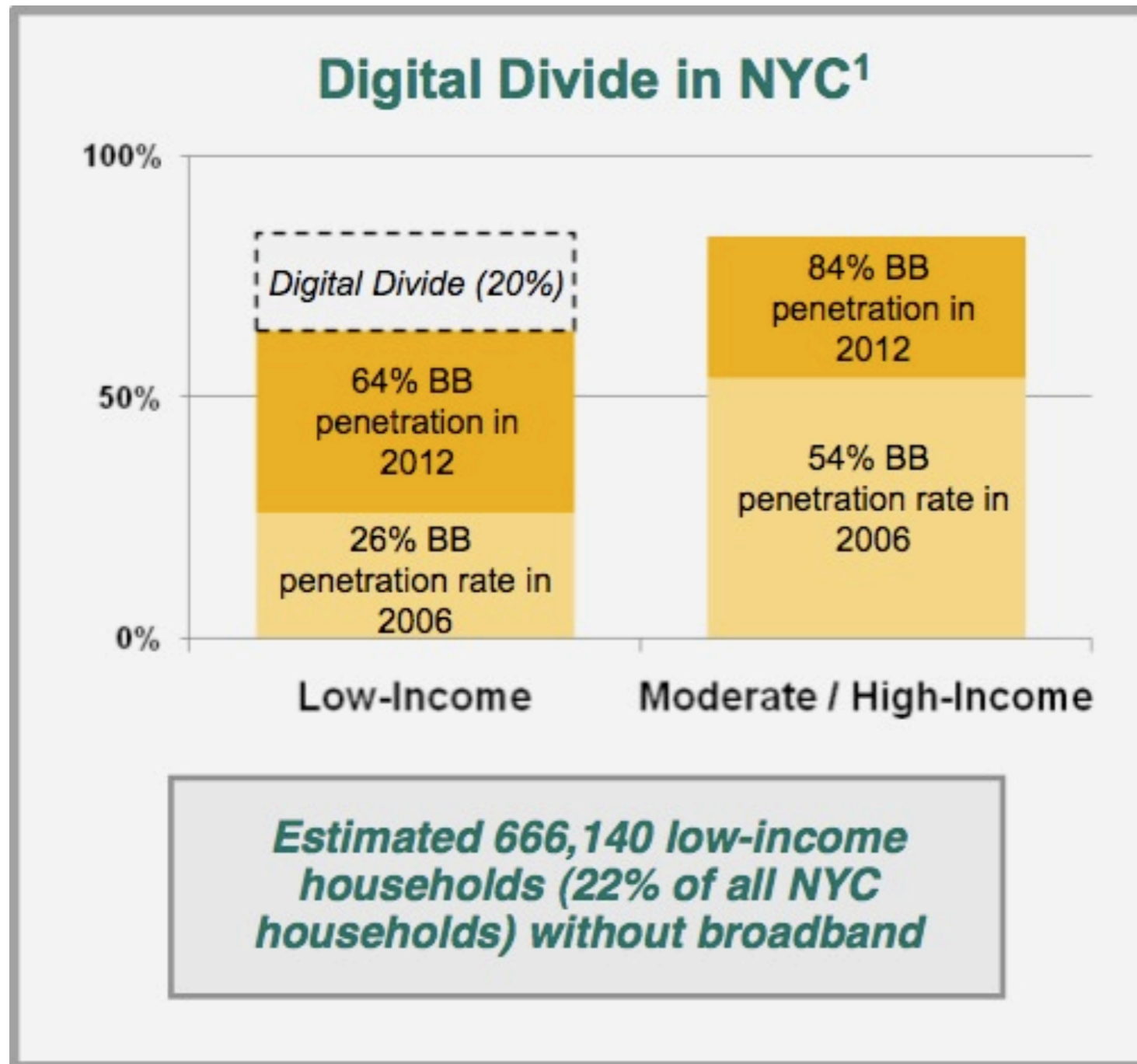
who has broadband?



*Hispanics includes both English and Spanish-speaking Hispanics

FCC Stats: 35% of US adults have no broadband at home... 22% do not use the internet at all. People think this is all "old people who will die off" which is really not true. It's more low income, immigrant/non-English speakers and people with disabilities. In rural areas it's true, people will age out and be replaced with people who get computers. But they still don't have cell phone service or broadband access. And we're learning that broadband access is more important than having a computer as far as really "getting" technology. Familiarity is necessary to exploration. Urban areas...

urban digital divide



In urban areas you get churn, people with concentrated poverty, residential segregation, low functional literacy, limited English proficiency, not a lot of social networks, low employment [so no access to computers]. People leave poverty pockets and re replaced by more poor people. 25% of New York City Housing Authority (NYCHA) households had broadband and this drops to five percent of NYCHA residents over 65 years of age. Five! They have electricity.... right? Cell phones? Why don't they have broadband?



Back to libraries. seventy-one percent of libraries in the US report that they are the only source of free access to computers and the internet in their communities. This is Washington VT population 1047. I got briefly famous on the internet when I made a video about installing ubuntu on the library's donated computers. And then... [funding cut, librarian divorced, basement flooded]. What you might not know about libraries...

Resource _ □ X

Prefix:
Accession No:
Status: Borrowed
Last Activity: 1994/12/27

Type:
Dewey:

Subjects:

ISBN:

Author:
Illustrated:

Title:

Description:

Series:
Copyright:

Publisher:
Cost:

Location:
Purchased:

Pages:
Bibliography - Pages: to

Patron Id: Andrea Lippert
 Date: 1993/10/26

We buy the worst software in the world. Other than payroll and benefits one of our largest expenses is licensing fees for bad software and terrible interfaces to proprietary content. This is currently available software. Looks like it was built for Windows 3.1. Whole industries have sprung up offering somethign called "the discovery layer" which is basically "we'll put a nice front end on your crappy software"

STEP 1

FIND A BOOK YOU'RE INTERESTED IN



WILSON'S
War
GEORGE CRILE
The Extraordinary Story of the
Largest Covert Operation in History

Edition: Unabridged
by [George Crile](#)
[Christopher Lane](#)

Publisher: Black
Subject(s): [Historical Nonfiction](#)
Language(s): [English](#)
Awards: [Audiobook](#)

Share
[Email a friend](#)

STEP 2

ADD BOOK TO YOUR CART

[Add to SelectList](#)
[Add to Wish List](#)

STEP 3

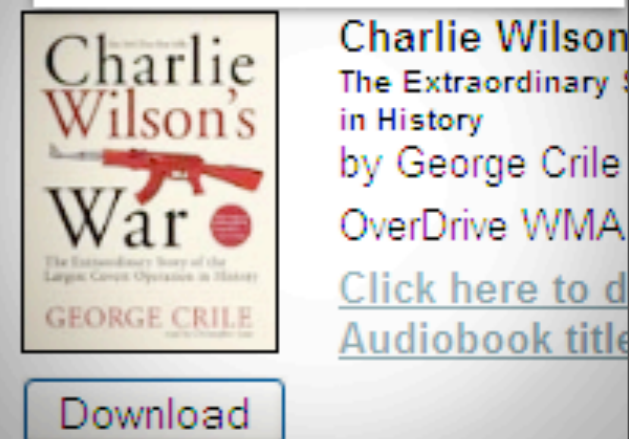
LOGIN AND CHECK OUT YOUR BOOK

Card Number in the space provided below
Number:

Did you not have a CLEVNET library card. [Click here](#)

STEP 4

GET A DOWNLOAD LINK



Charlie Wilson's
War
GEORGE CRILE
The Extraordinary Story of the
Largest Covert Operation in History

Charlie Wilson
The Extraordinary Story
in History
by George Crile
OverDrive WMA
[Click here to download Audiobook title](#)

STEP 5

BOOT UP WINDOWS



Windows XP
Stopped

Configuration

- Memory 260 MB
- Floppy Disk
- Hard Disk 1

STEP 6

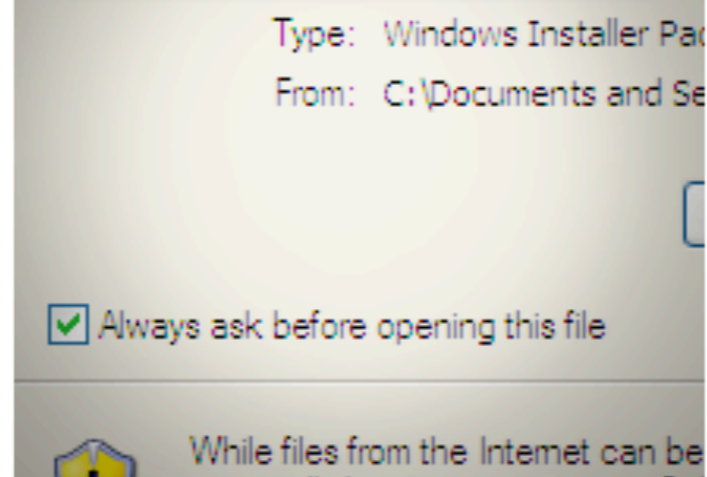
DOWNLOAD PROPRIETARY SOFTWARE



OverDrive
Media Console

STEP 7

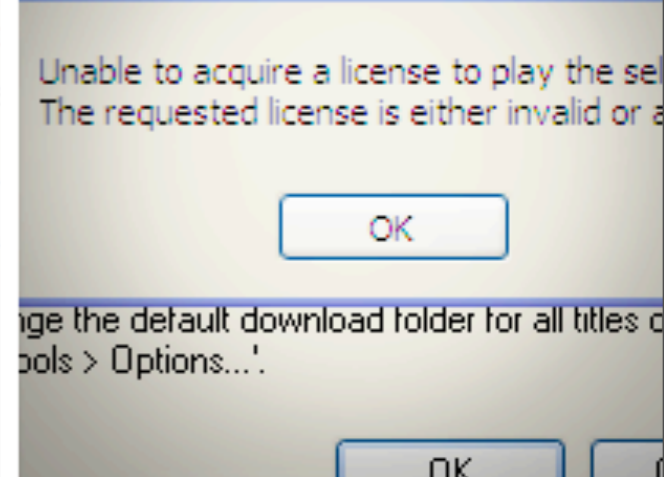
INSTALL SOFTWARE



Type: Windows Installer Package
From: C:\Documents and Settings\...
 Always ask before opening this file

STEP 8

GET CRYPTIC ERROR



Unable to acquire a license to play the selected content. The requested license is either invalid or a license key is missing. Please contact your administrator for more information.

STEP 9

GOOGLE YOUR PROBLEM



Slide 1 - OverDrive - Global distributor of digital eBooks...

STEP 10

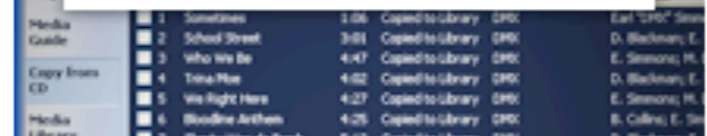
LEARN THAT YOU NEED AN UPDATED SECURITY CERTIFICATE



The security certificate was issued by a certificate authority that is not chosen to trust. View the certificate to see if you want to trust the certifying authority.

STEP 11

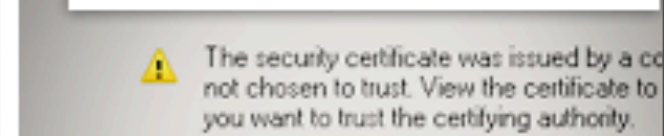
OPEN WINDOWS MEDIA PLAYER



1	Sometimes	1:06	Copied to library	OPB	Earl "Bird" Street
2	School Street	3:01	Copied to library	OPB	D. Backman, E.
3	Who We Be	4:47	Copied to library	OPB	E. Simmons, M.
4	Tina/Tina	4:02	Copied to library	OPB	D. Backman, E.
5	We Right Here	4:27	Copied to library	OPB	E. Simmons, M.
6	Bloodline Anthem	4:25	Copied to library	OPB	B. Collins, E. St.

STEP 12

DOWNLOAD NEW SECURITY CERTIFICATE

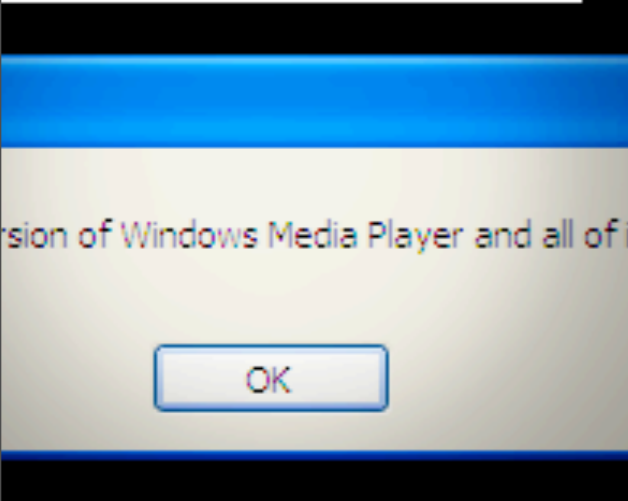


The security certificate was issued by a certificate authority that is not chosen to trust. View the certificate to see if you want to trust the certifying authority.

I don't know if you've tried downloadable audiobooks lately, but Overdrive is the worst product in the world. It makes people hate content. And part of this is DRM. But part of it is that the people who are buying digital products, with public money, don't even know what good design, or awesome looking software even looks like. And they're making big decisions about ebooks and million dollar software contracts with people who tell them that THIS is the future of ebooks. And their patrons don't know any better or they're getting all their free content on bittorent anyhow. The trick is to have the people with the good ideas, somehow stick around to create and implement them.

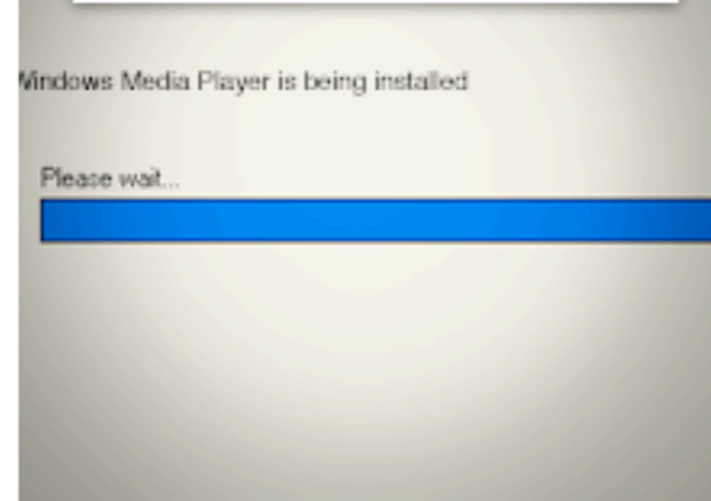
STEP 13

LEARN THAT YOU NEED TO UPDATE WINDOWS MEDIA PLAYER



STEP 14

INSTALL UPDATE



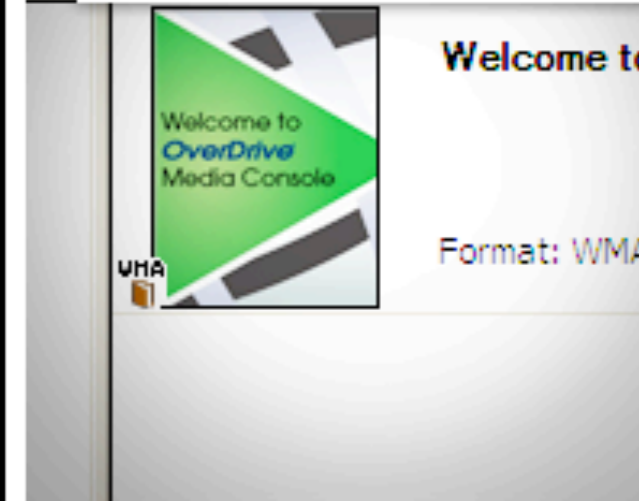
STEP 15

REBOOT WINDOWS



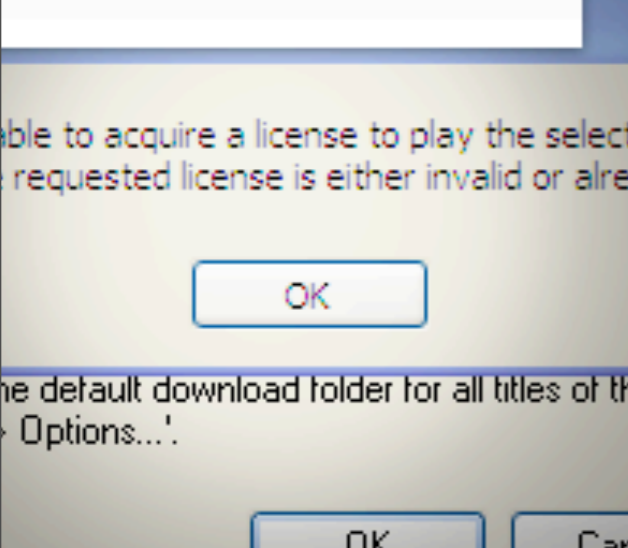
STEP 16

START UP OVERDRIVE MEDIA PLAYER



STEP 17

GET ANOTHER CRYPTIC ERROR MESSAGE



STEP 18

INSERT PROFANITY



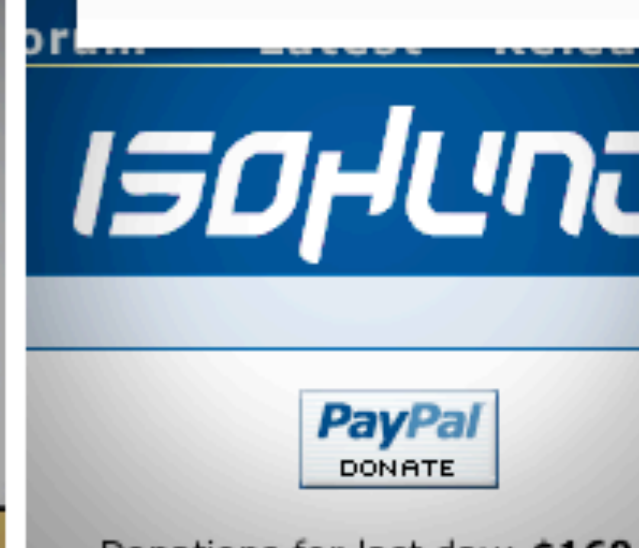
STEP 19

GIVE UP ON STUPID LIBRARY



STEP 20

OPEN BIT TORRENT SITE



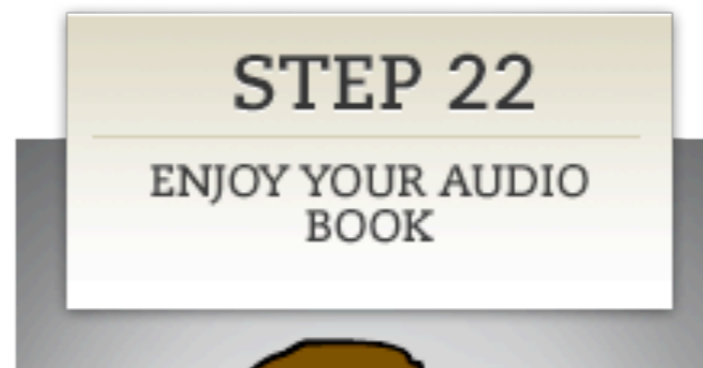
STEP 21

CLICK DOWNLOAD



STEP 22

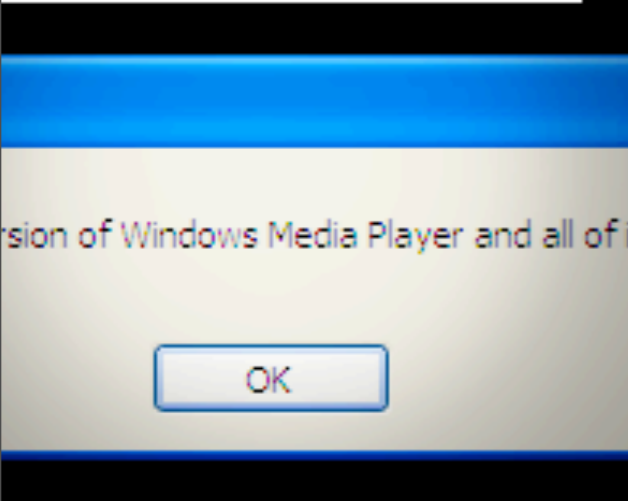
ENJOY YOUR AUDIO BOOK



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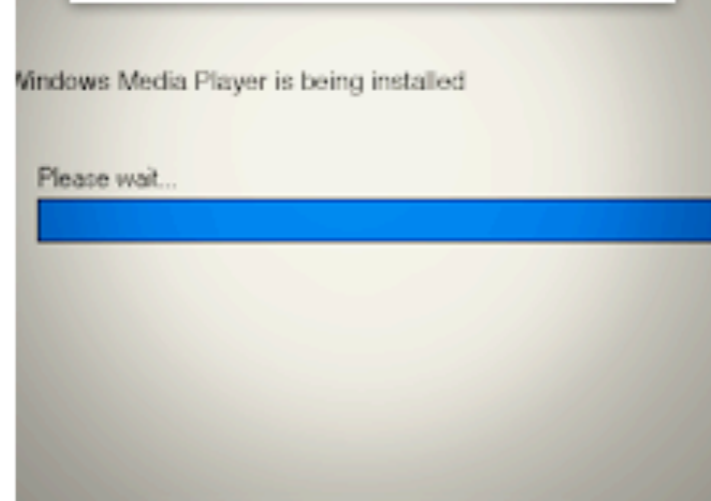
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LEARN THAT YOU NEED TO UPDATE WINDOWS MEDIA PLAYER



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INSTALL UPDATE



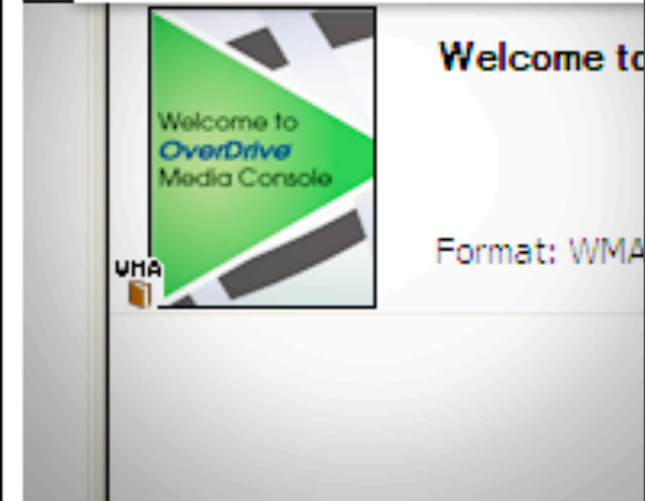
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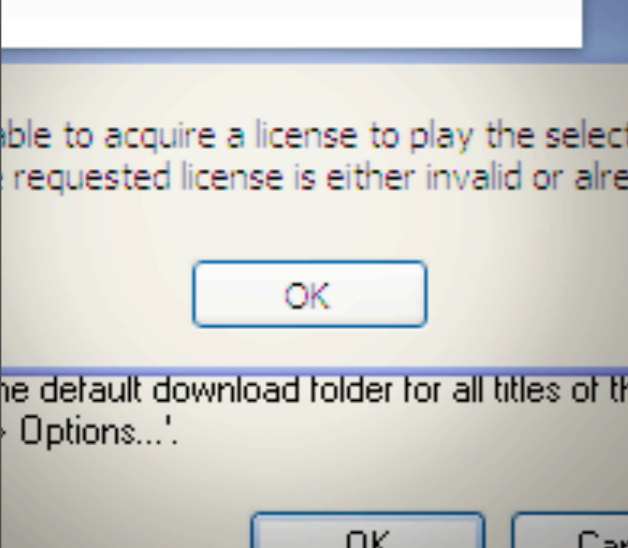
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STEP 18

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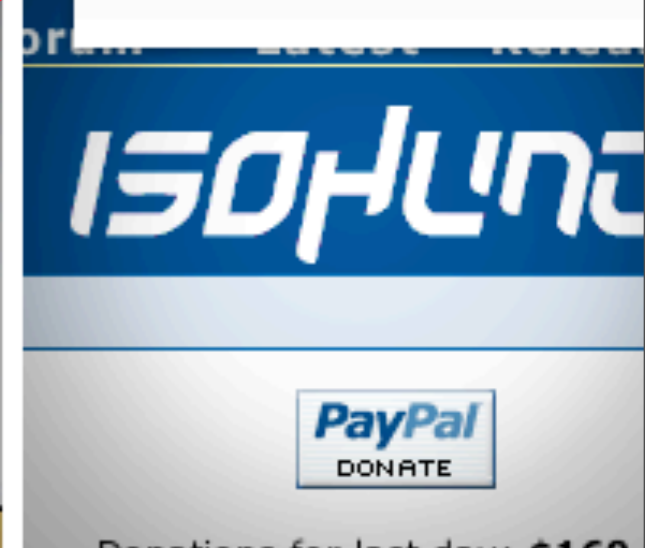
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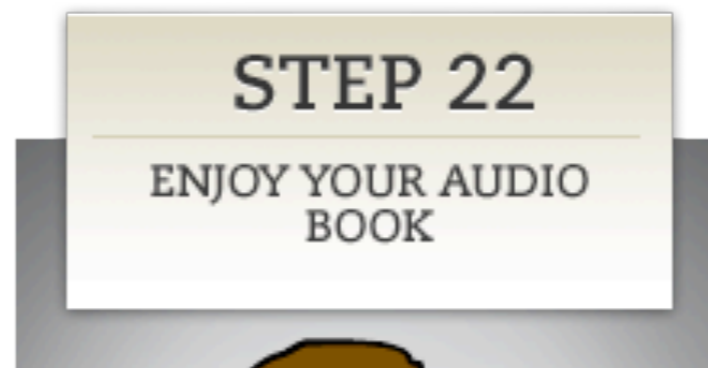
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There are a lot of awesome options out there. Open source online catalogs like Evergreen and Koha, the entire Open Library project and their FlipBook product, Firefox [and a million cool add-ons] and Open Office. Ubuntu, kubuntu and edubuntu and Linux. It's a great time to be a librarian. And if we're selling these ideas, people are buying them. They trust us. But we're not selling them as much as we could.

"it's okay, it's legal"



Vermont's
Open Source & Education
Conference



April 9, 2010
Lake Morey Resort



VITA-Learn & The National Center for Open Source and Education

are co-sponsoring

FOSSVT - 2010

Vermont's Open Source and Education Conference

I went to this great conference a few months ago where I saw some school technologists telling other technologists how to do more with less. One guy had a whole school media center up and running using MYTH-TV. Free. How great for his students, and how great he could tell us how to do it. We need more, much more of this.



FUD

It Just Feels Right

BUT, for most of us, the combination of pressure from big business, lack of tech experience of staff and fear of the unknown means that we stick with what we know, which are big names, support contracts and the operating systems we love to hate [and that we get fat grants for]. And since we're the free internet game in town, we create culture for people who themselves may not know better. Tweaking requires some tech literacy even if it's just to say "well, let's try this..."

AP Protect, Point, Pay



AP news registry: A platform for protect, point and pay

Permissions and Protection



- ✓ Rights registry
- ✓ Tracking beacon
- ✓ Enforcement

News Collection and Display



- ✓ Content indexing
- ✓ Tagging for search
- ✓ AP news guide

Usage Tracking and Reporting



- ✓ Usage reports
- ✓ Publisher dashboards
- ✓ Royalty settlement

And we have to start with willingness to tinker if we want to get people to the point where they understand the necessity of the freedom to tinker, to quote the title of one of my favorite blogs. To challenge, DRM, to buy smarter software, to create our own tools and to PASS THIS CULTURE ON. So I've given you some "what not to do" let's run through some "what to do" ideas and you can ask more during the panel.

AP Protect, Point, Pay



AP news registry: because DRM will save our industry.

Meaningless Phrases



- ✓ Rights registry
- ✓ Tracking beacon
- ✓ Enforcement

Fuck Yeah, Arial Eat a Dick, Helvetica



- ✓ Content indexing
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Look at This Fucking Graph It's Fucking Going Upwards



- ✓ Usage reports
- ✓ Publisher dashboards
- ✓ Royalty settlement

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while you're out there

- ▶ **make it look simple, don't say "it's easy"**
- ▶ **encourage everyone to get involved in F/LOSS**
- ▶ **accept partial solutions**
- ▶ **understand the complete systems**
- ▶ **enjoy yourself, and brush your teeth**



advice? desires?

- ▶ **people like to solve problems**
- ▶ **people like genuine options**
- ▶ **people like to feel competent**
- ▶ **people like to feel supported**
- ▶ **more yayz, fewer ur doin it rongz**



thanks!

