



Reading on E-Book Devices: the User Experience

Nicole Hennig, MIT Libraries

Where we read



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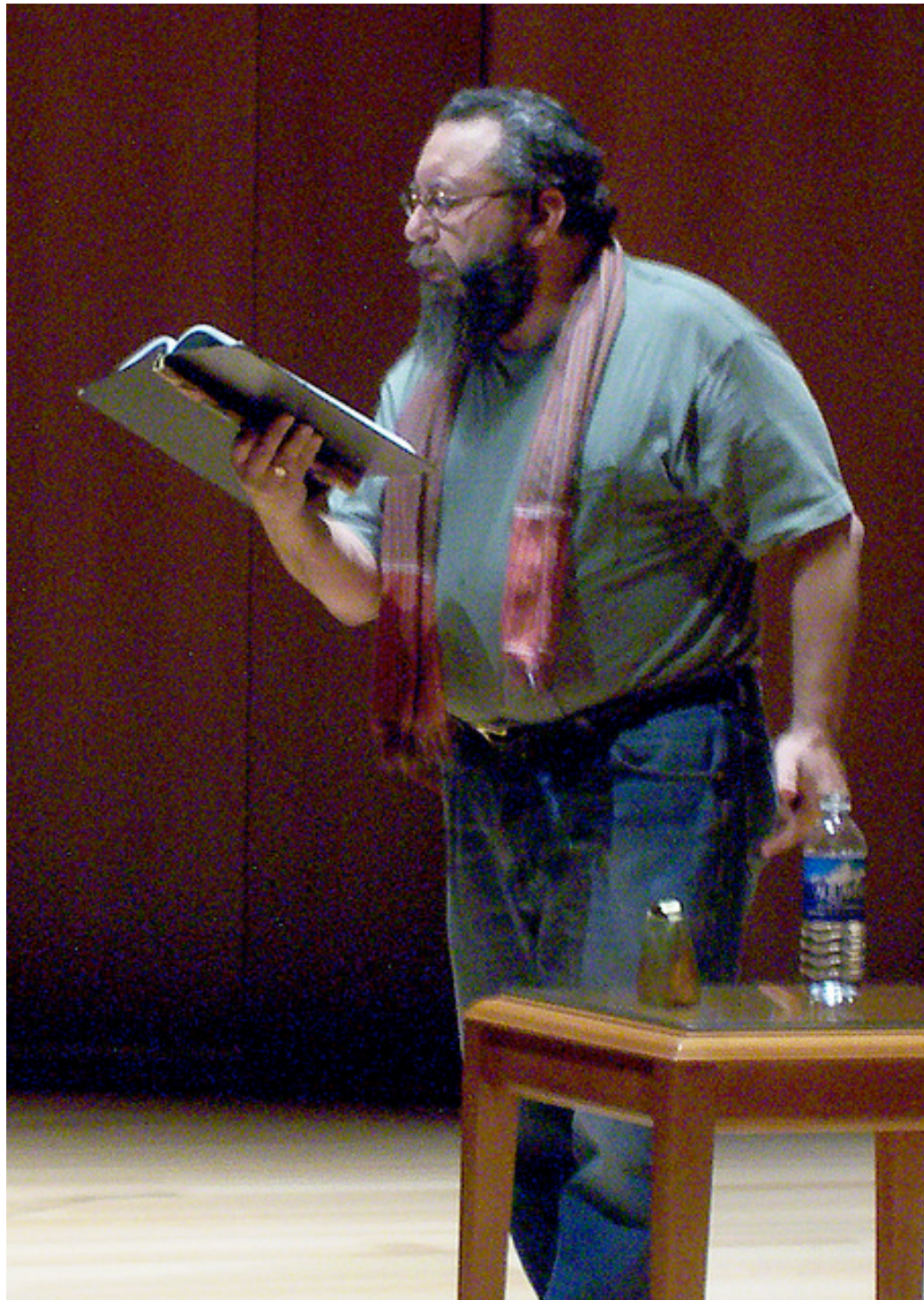
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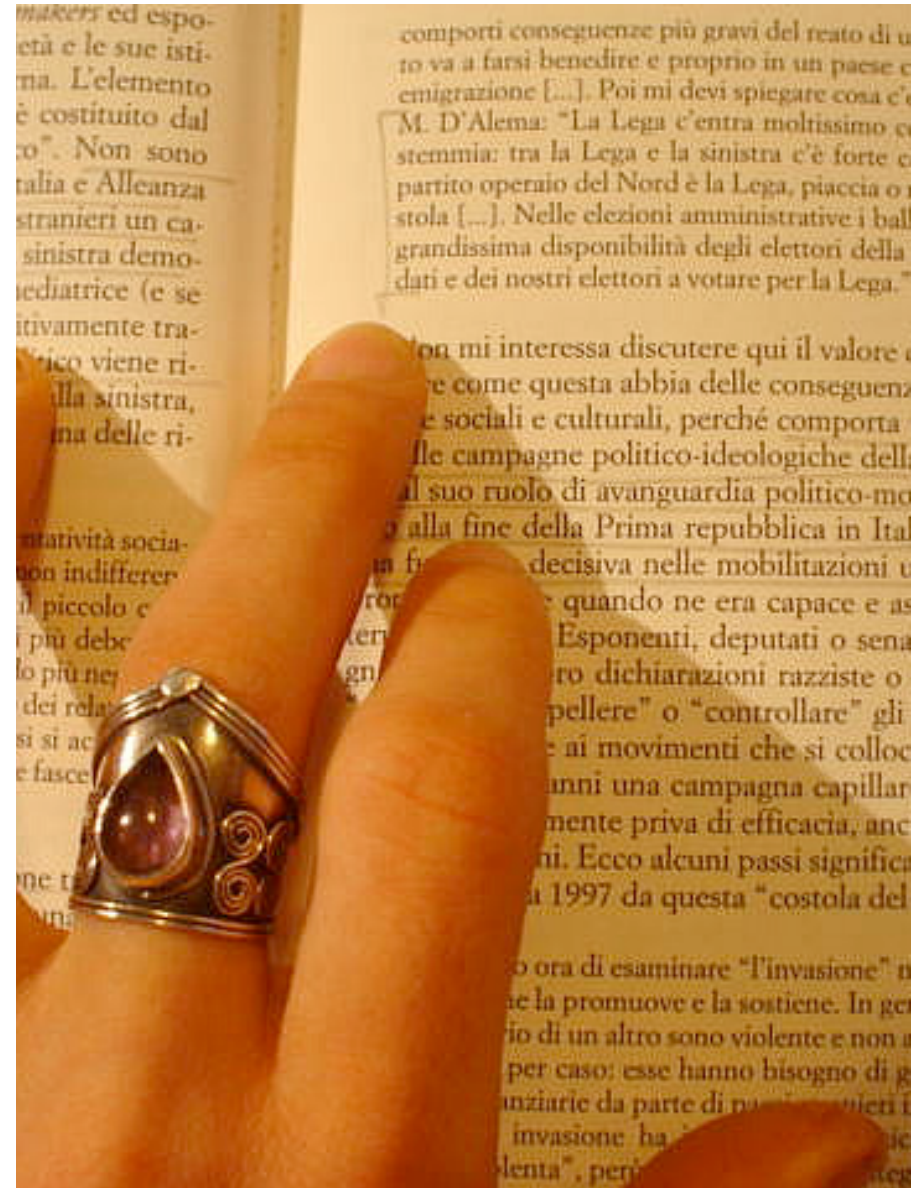


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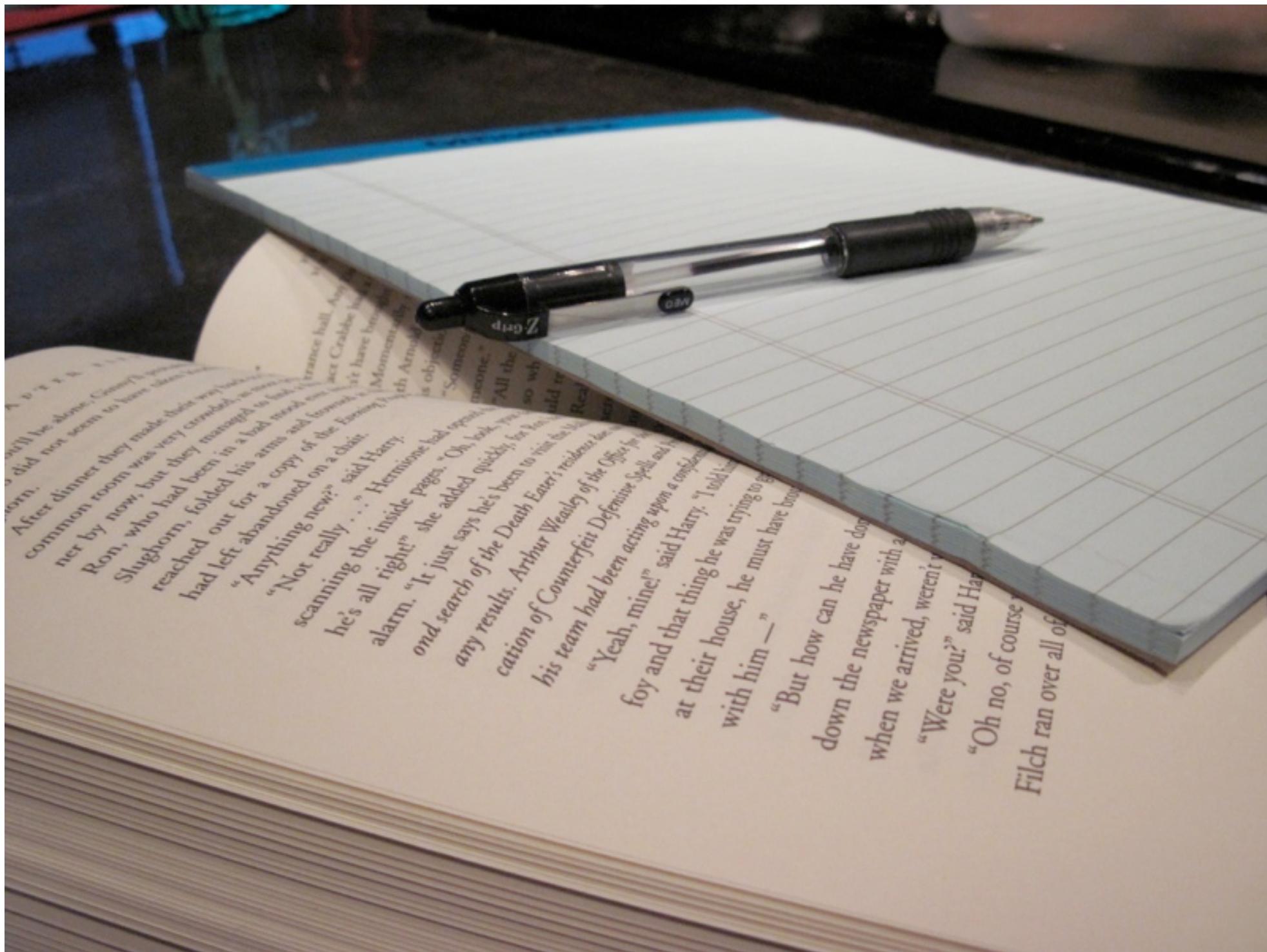


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How we read



pondering
thinking
taking notes
bookmarking
copying
quoting
defining words
underlining
highlighting,
comparing with other text
skipping around
skimming
looking at photos
examining charts/graphs



209
Manufacturers have been able to dramatically increase the transfer rate or speed of modems. Although this has been partly because of improvements in telephone lines, the largest improvements have come through discoveries in how to send and receive more information over the telephone lines and how to correct common telephone line interference.

Baud—named after Emil Baudot, who invented a telegraph teleprinter code in 1874—is a term often used to define the speed of modems. A modern measurement, bits per second, or *bps*, has replaced baud as a measurement of speed for modems. A bit is a binary digit having a value of 0 or 1. The more bits a modem can process per second, the faster it can send or receive data.

Bits define each character and the spaces between characters; it takes about 10 bits to transmit or receive a single character of information. A 1200bps modem can transmit or receive about 120 characters per second. This sentence, which is 107 characters long (counting spaces), would require about 0.8 seconds to transmit.

Until recently, a modem that operated at 2,400bps was considered fast. The first popular modems that were used with microcomputers operated at only 300bps. Now, however, 14,400bps modems are very common, and 28,800bps or faster modems will soon dominate the market. Faster modems mean less time connected to a telephone. Shorter telephone connection times result in lower charges for long-distance calls and lower connection fees for many services that charge by the hour.

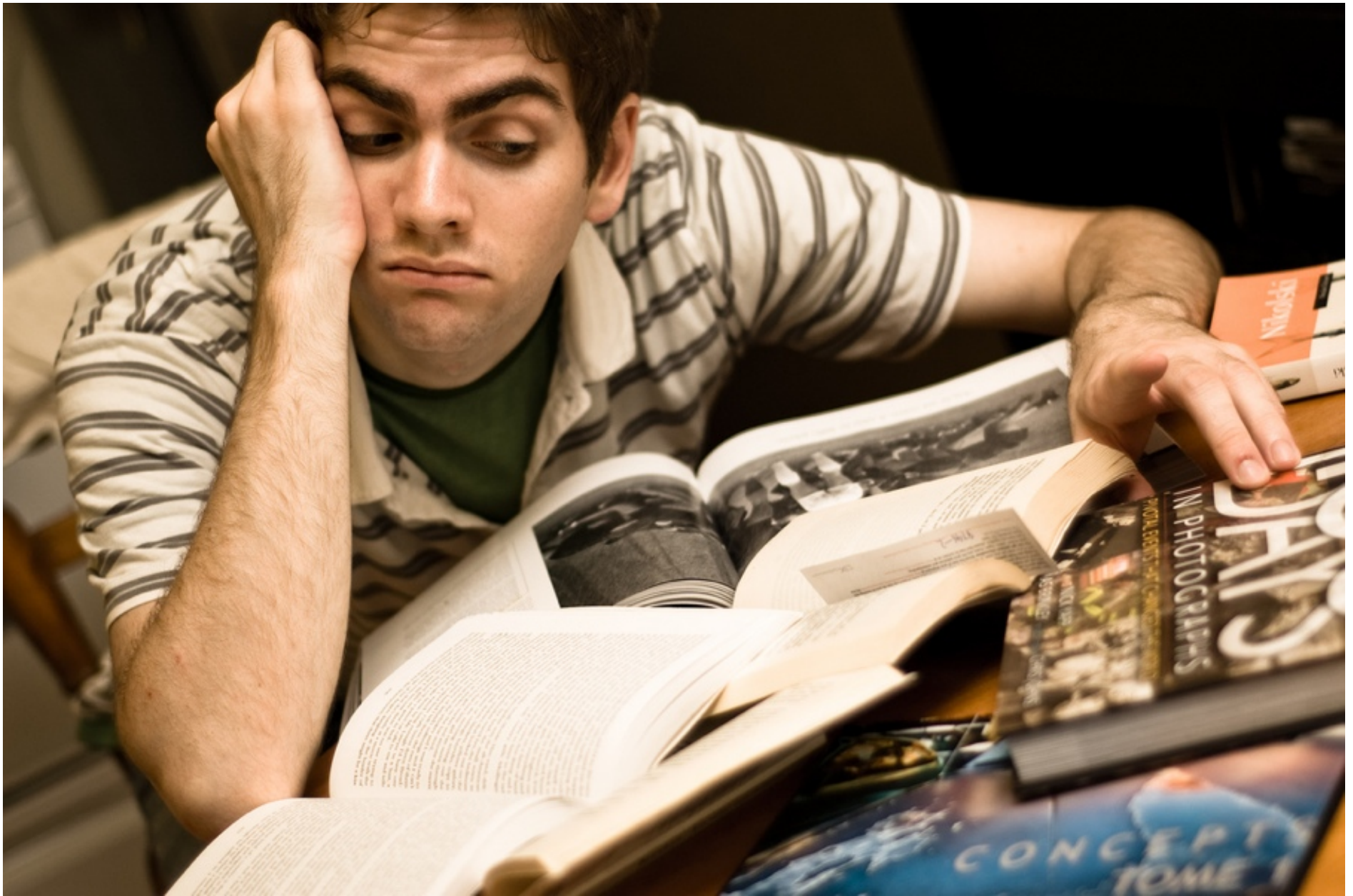
Handshaking Protocols

As two computer modems exchange information, a series of rapidly changing tones travel through the telephone lines. The modems convert these tones into binary 0s and 1s, which the modems then use to reassemble this stream of data into the original information.

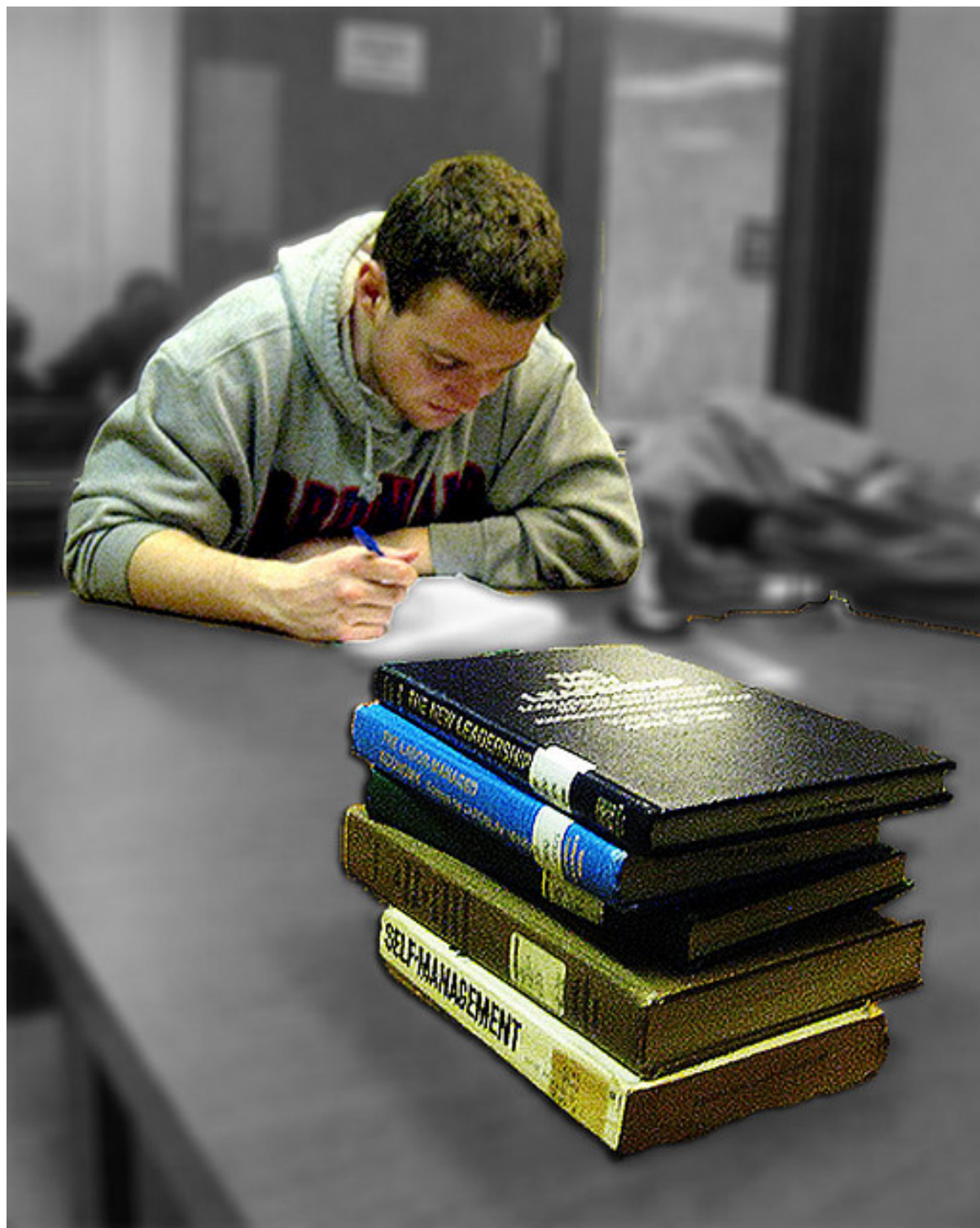
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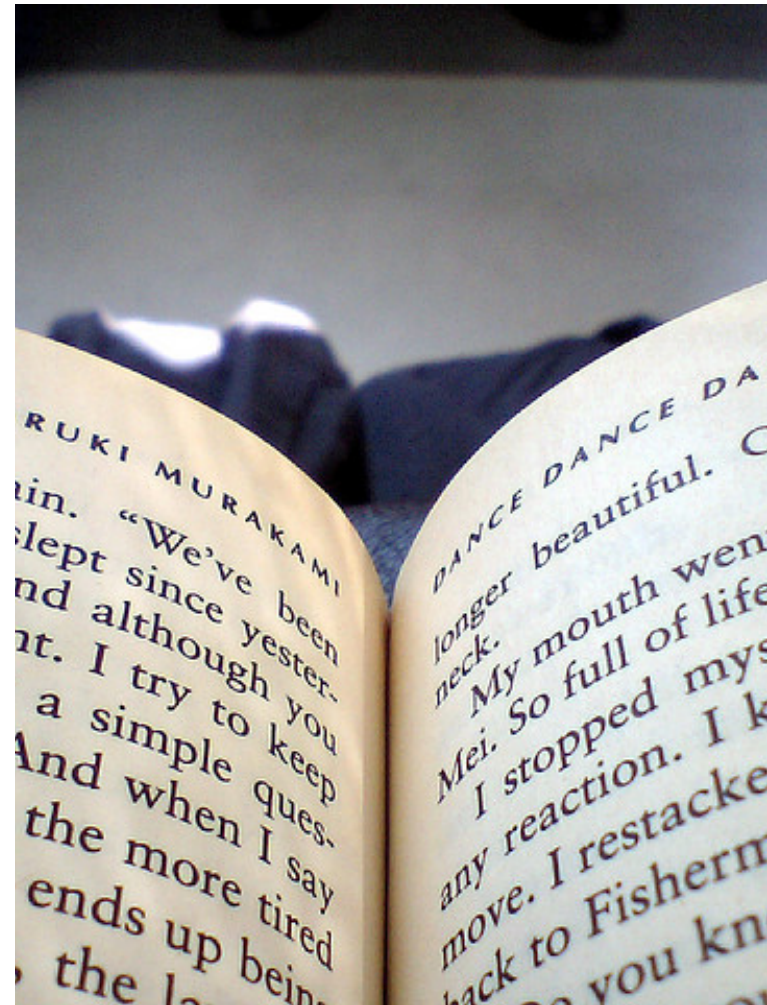


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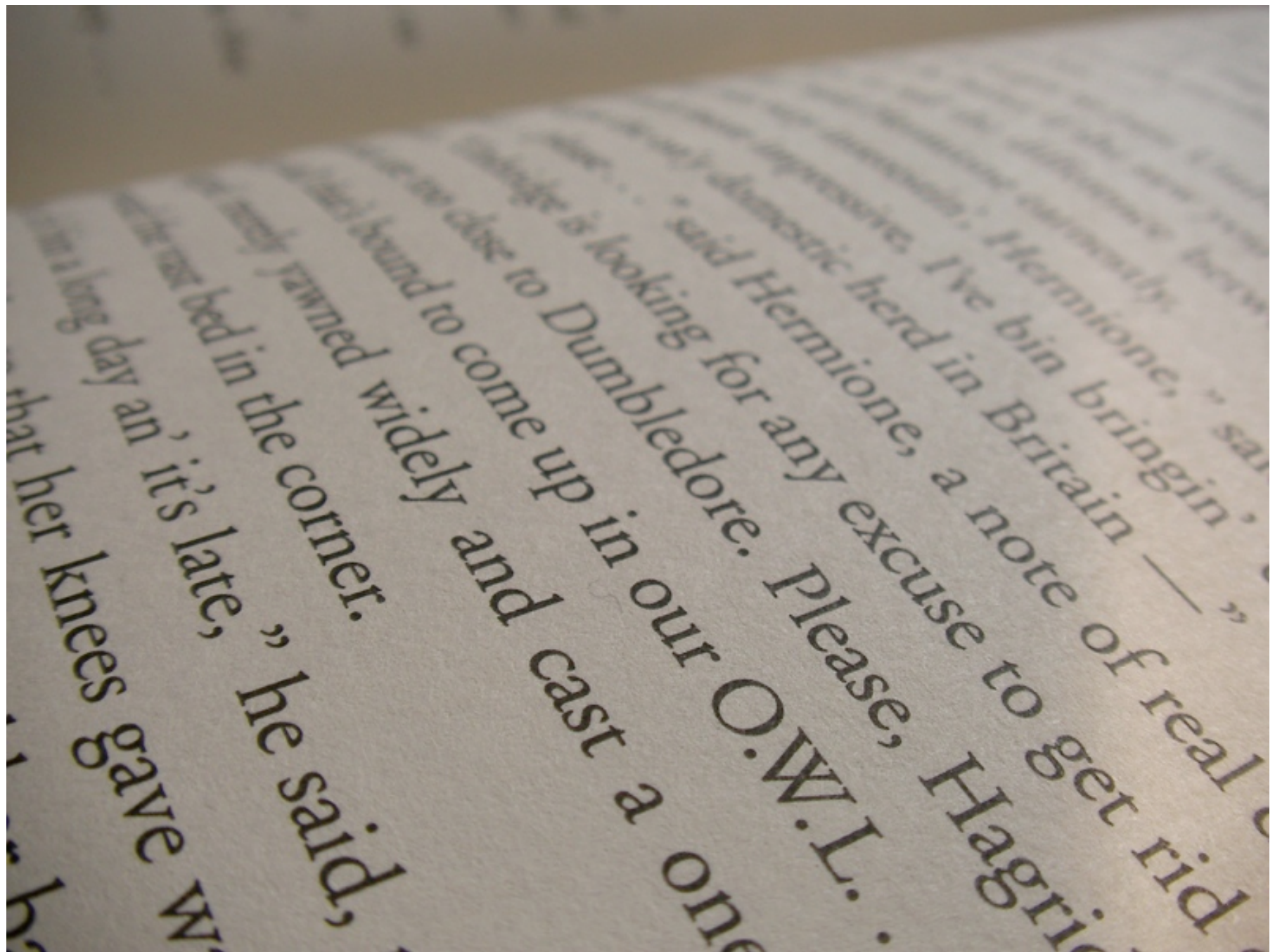


<http://www.flickr.com/photos/estreya/4299468726/>

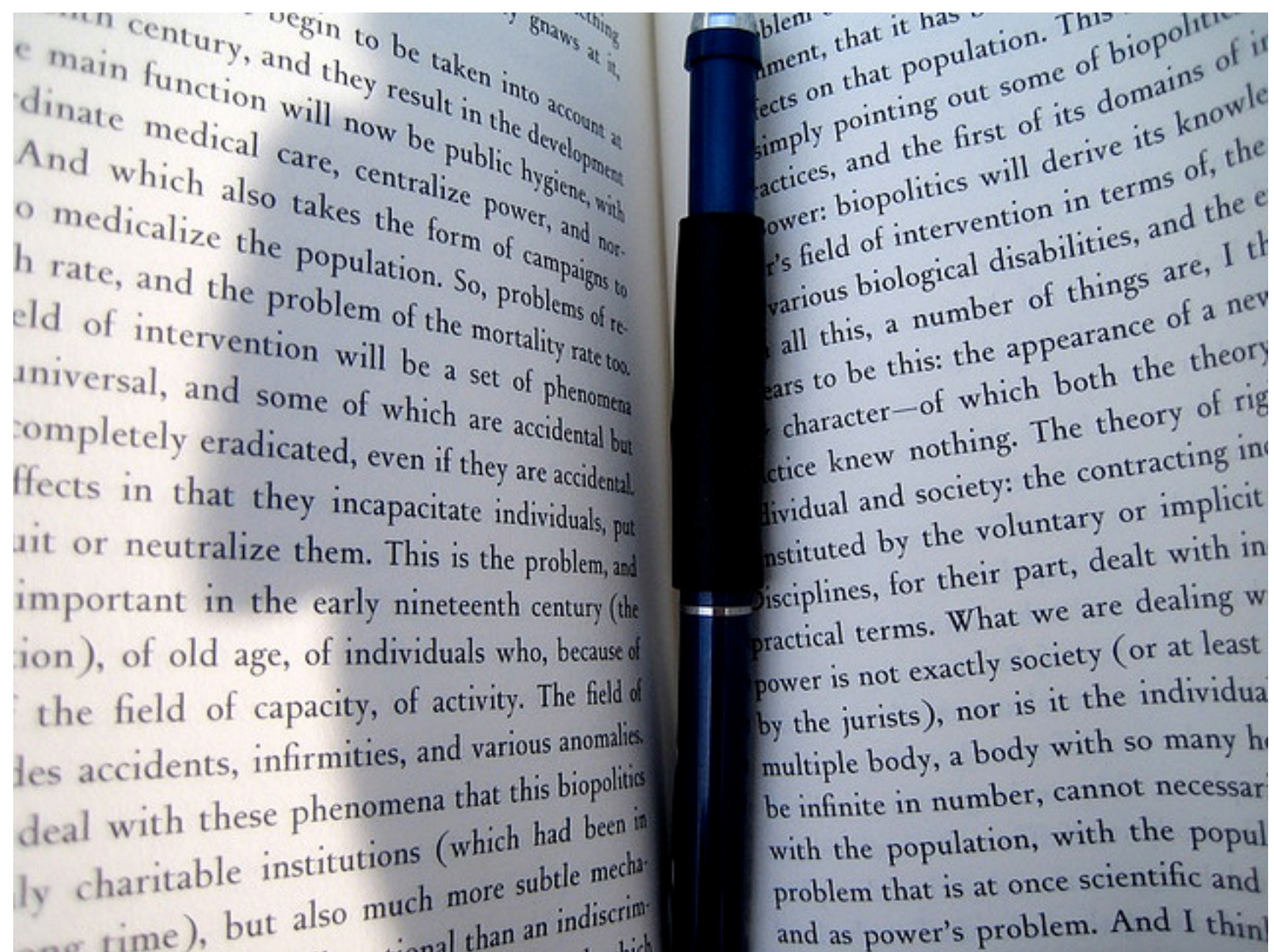
A book is not one thing



novels
non-fiction
reference books
comics
graphic novels
essays
short stories
instruction
how-to
cookbooks
art & design books



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A LEBANON WAR STORY

WALTZ WITH BASHIR

*"Realized with shattering
brilliance."* **GUARDIAN**

ARI FOLMAN AND DAVID POLONSKY

**"SPECIAL, STRANGE AND PECULIARLY
POTENT... EXTRAORDINARY."** **VARIETY**

ONE NIGHT IN BEIRUT In September 1982, while Israeli soldiers secured the area, Christian militia members entered the refugee camps of Sabra and Shatila and began to massacre hundreds, if not thousands, of Palestinians. Ari Folman was one of those Israeli soldiers, but for more than twenty years he remembered nothing of that night or of the weeks leading up to it. Then came a friend's disturbing dream, and with it Folman's need to excavate the truth of the war in Lebanon and answer the crucial question: what was he doing during the hours of slaughter?

Challenging the collective amnesia of friends and fellow soldiers, Folman painfully, candidly pieces together the war and his place in it. Gradually, the blankness of his mind is filled in by scenes of combat and patrol, misery and carnage, as well as dreams and hallucinations. Soldiers are haunted by inexplicable nightmares and flashbacks—snapping, growling dogs with teeth bared and eyes glowing orange; a recurring image of three young men rising naked out of the sea to drift into the Beirut battlefield. Tanks crush cars and buildings with lethal indifference; snipers pick off men on donkeys, men in cars, men drinking coffee; a soldier waltzes through a storm of bullets; rock songs fill the air, and then yellow flares. The recollections accumulate until Ari Folman arrives at Sabra and Shatila and his investigation reaches its terrible end.

The result is a gripping reconstruction, a probing inquiry into the unreliable quality of memory, and, above all, a powerful denunciation of the senselessness of all wars. Profoundly original in form and approach, *Waltz with Bashir* will take its place as one of the great works of wartime testimony.

LR 39

<http://www.flickr.com/photos/rhonddal/3814420742/>

東京

TOKYO, PRESENT TIME. 13 MILLION SOULS & A MIXTURE OF MODERN & ANCIENT TRADITION CONCENTRATED IN THIS MEGALOPOLIS. IF YOU WANT A PLACE TO DISAPPEAR OR BECOME A PHANTOM, THEN, THIS IS WHERE IT HAPPENS.



I WAS BORN THE DAY MY ADOPTIVE PARENTS CAME TO FETCH ME AT THE ORPHANAGE.

I HAD 2 YEARS AND I DON'T KNOW FROM WHERE I COME FROM.

I REALIZED I WAS DIFFERENT THE DAY OF MY 4 YEARS OLD WHEN MY HALF-SISTER ARRIVED IN THE FAMILY. YES, I WAS A NEKOBOY!

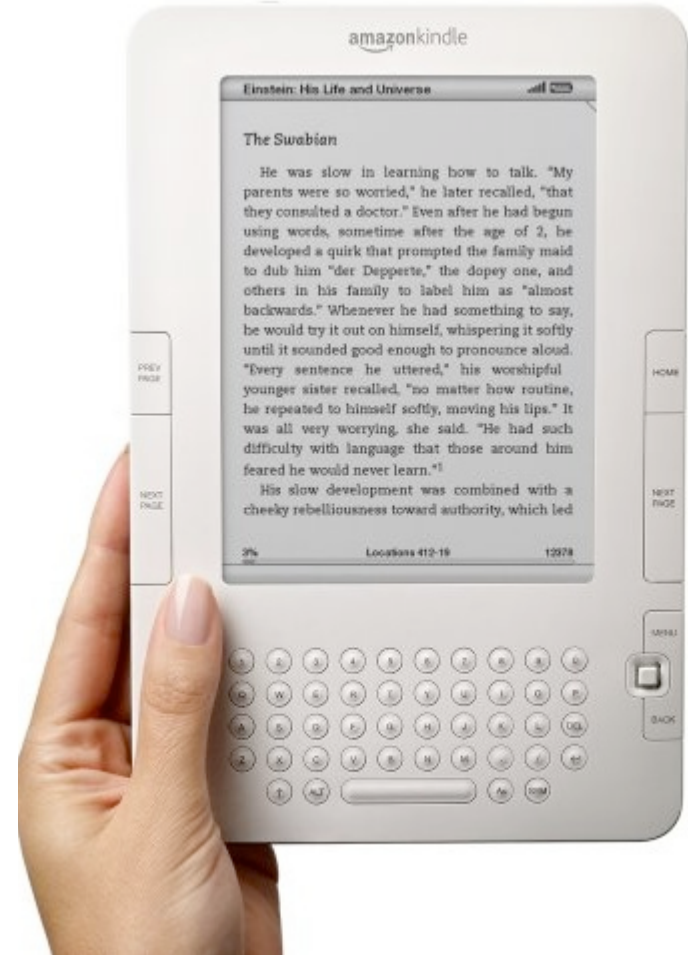
● AT FIVE YEARS OLD, I WAS ADMITTED TO THE SCHOOL FUCHU DAI NI CHUGAKKO, AND LEARNED FRENCH, WHICH FOR ME WAS A WASTE OF TIME. I UNDERSTOOD LATER WHY MY FATHER ENROLLED ME AT THIS SCHOOL.



E-readers today



<http://www.flickr.com/photos/jemimus/4824411391/>



<http://www.flickr.com/photos/43602175@N06/4069260433/>

Audience poll #1

Have you read at least one entire book (start to finish) on a mobile ereader?
(not on a desktop or laptop)

- Yes
- No

For those who have read an entire book, how many books have you read this way?

- 1 – 10
- 11 – 50
- over 50 ebooks

Audience poll #2

What ebook devices do you own or have you owned in the past: (check all)

- Amazon Kindle
- Sony Reader
- Nook
- iPad
- iPhone
- other smartphone, such as Android
- other

Selected devices

E-ink displays

- Amazon Kindle and Kindle DX
 - Sony Reader
 - Barnes & Noble Nook
- (many other e-ink based ereaders exist)

Tablets & smartphones (LCD screens)

- iPhone and other smartphones
- iPad and other tablets

Selected software

- Amazon Kindle
- Barnes & Noble
- Stanza
- Apple iBooks
- GoodReader

coming soon:

- Blio
- Copia

Audience poll #3

What do you like **most**
about your ebook reading experience?

- Convenience of having so many books with you in one small device (easy for travel, etc.)
- free samples to help decide on purchases
- ease of reading because of features such as increased font size, screen color and brightness
- immediate purchase & downloads of new books
- other

Audience poll #4

What do you like **least**
about your ebook reading experience?

- the content I want is often not available
- lack of ability to lend books to my friends and family
- not so easy to annotate, take notes, compare texts
- the illustrations, charts, diagrams, are not big enough or clear enough
- other

What works

- small lightweight, carry many books with you
- easy to get new books immediately
- many free books available
- many books are cheaper than print
- easy to customize views: larger font sizes, different background colors/fonts
- very long free samples available for most books
- quick dictionary lookups
- read same content on different devices for different situations & sync between devices

Not so great in current e-readers

- not every book you want is available
- annotating is awkward
- not easy to compare multiple books side by side
- limited by battery time
- lending to friends almost impossible (limited exceptions)

Not so great in current e-readers

- detailed or color illustrations not always easy to view
(except with iPad & some smartphones)
- hard to have a good feel for how far you are into the book, even with indicators or progress bar visible
- skipping around in the book may cancel out ability to synchronize where you left off between devices
- fragmentation of content between different vendors, i.e., much content only readable in one vendor's software (DRM)

The E-reader pilot at Princeton

Fall semester, 2009

www.princeton.edu/ereaderpilot

Their **favorite** features of the Kindle DX were

- The battery life, the wireless connection, and the portability of the Kindle.
- The fact that all the course reading was on one device
- The ability to search for content
- The legibility of the screen, and the fact it could be read in full sunlight

The areas in which they felt the Kindle **could be best improved** were:

- The ability to highlight and annotate PDF files
- Improving the annotation tools
- Providing a folder structure to keep similar readings together
- Improving the highlighting function
- Improving the navigation within and between Kindle documents

examples

Reading on Barnes & Noble Nook



Video:

<http://youtu.be/ezlLHKktf9I>

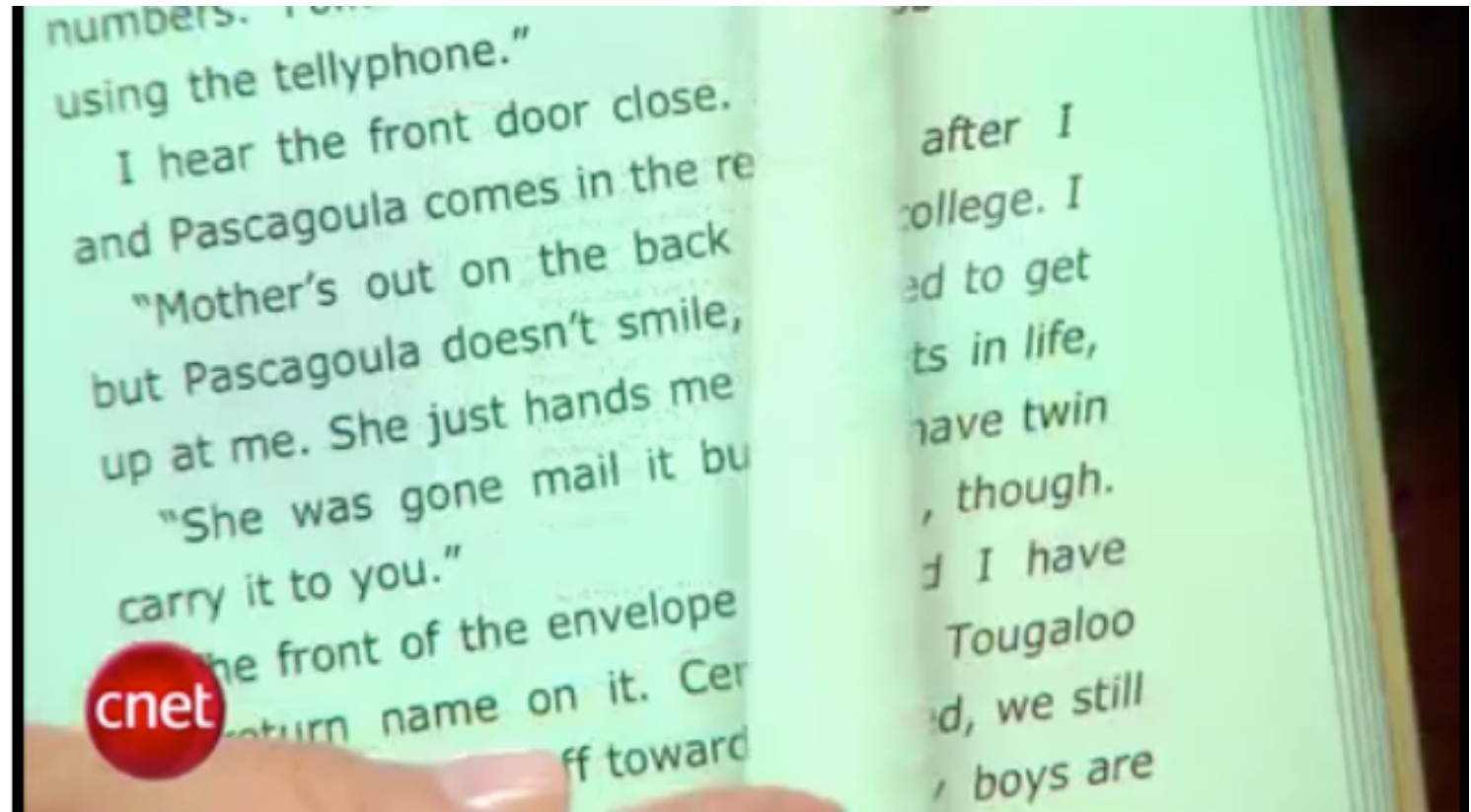
Reading on iPhone with Stanza



Video:

<http://youtu.be/SZmm8-8n3Tw>

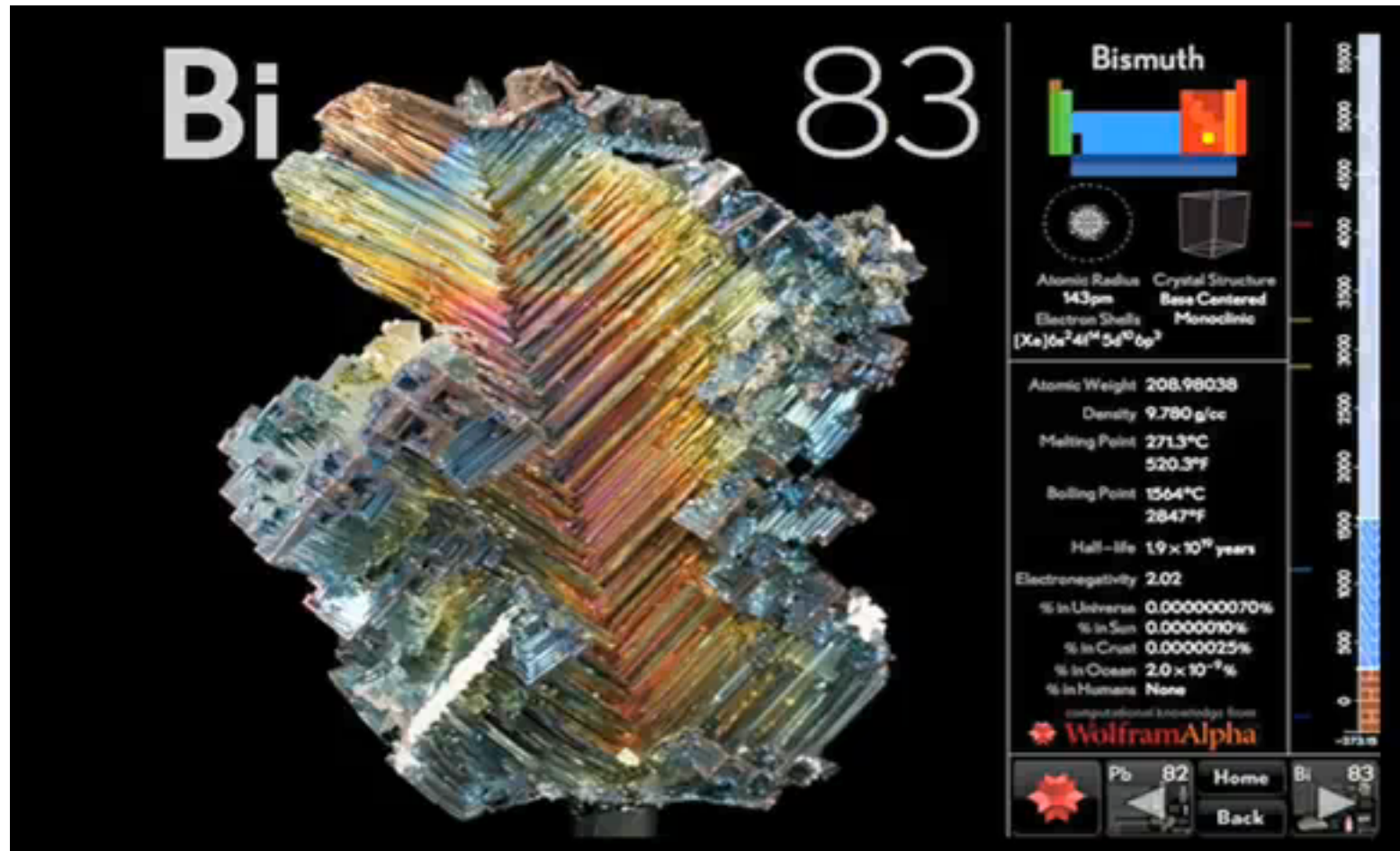
Reading on iPad with Apple iBooks and Amazon Kindle app



Video:

http://youtu.be/_x80sfCpwIY

Reading on iPad with specialized apps



Video:

<http://youtu.be/nHiEqf5wb3g>

start at 2:56, end at 5:00

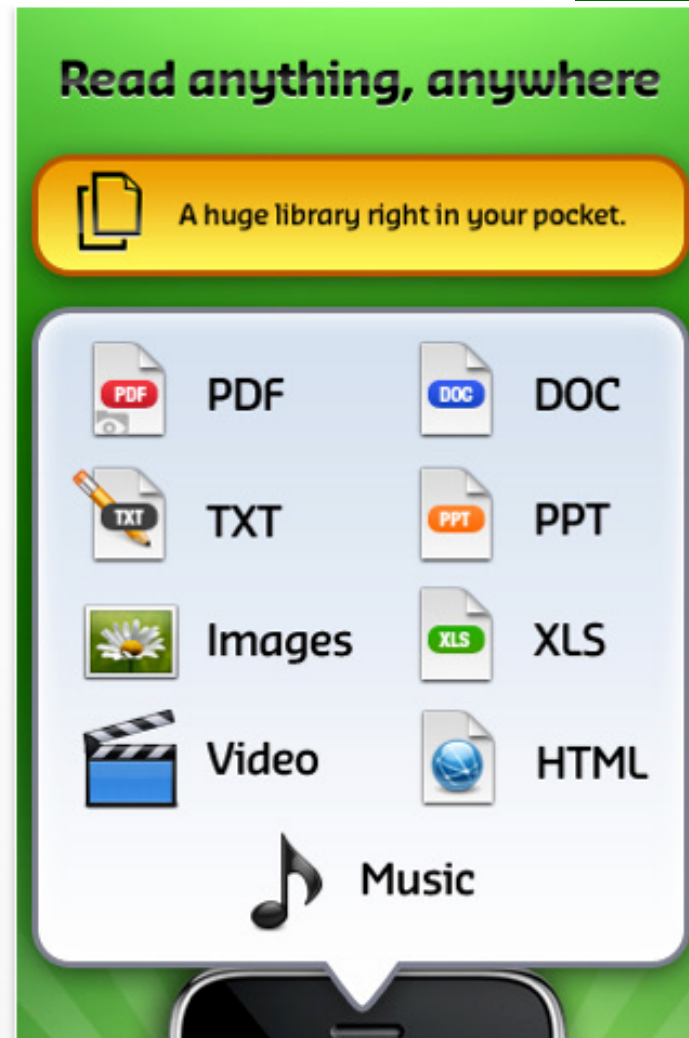
Comics on iPad are wonderful

Video

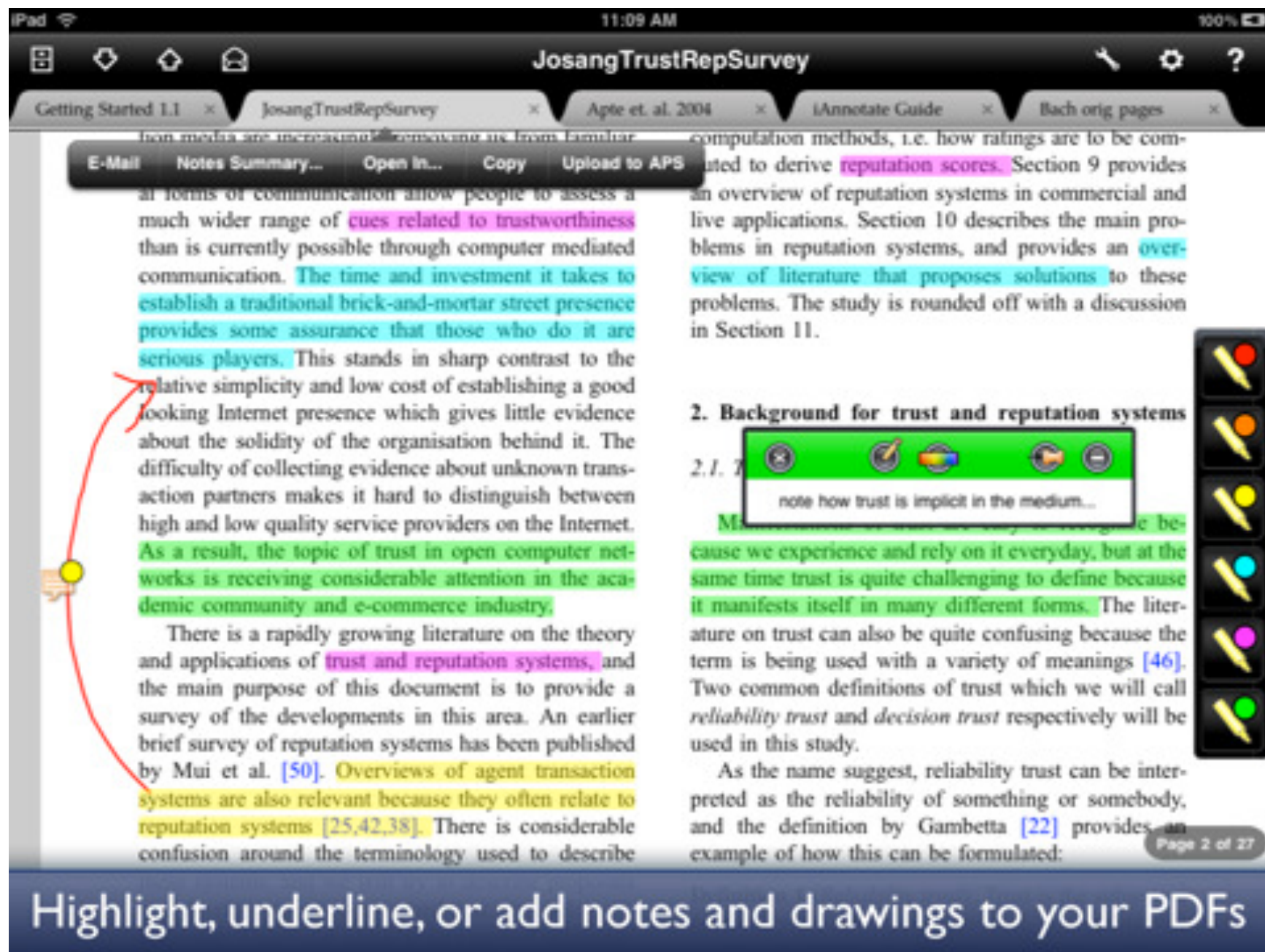
<http://youtu.be/uzCMDU10Hbg>
start at :42, end at 1:16



GoodReader iPhone and iPad



iAnnotate PDF for iPad





<http://www.flickr.com/photos/scottvanderchijs/4540606817/>

the “i-generation”



<http://www.flickr.com/photos/courosa/4686954754/sizes/l/in/photostream/>

Where we read



<http://www.flickr.com/photos/fuxoft/4586924006/in/photostream/>

Improvements on the horizon

- better ways to show detailed color illustrations
- more social features, more ways to discuss and collaborate
- more efforts made towards being able to buy once, read anywhere
- innovative ways to interact with books, taking better advantage of new media

examples

"Ray Kurzweil Vows to Right E-Reader Wrongs"

- New York Times, June 18, 2010

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blio Turn the Page

Human Anatomy

Blio is a state-of-the art eReader.

HOME ABOUT BLIO BOOKSTORE PARTNERING FAQ

Blio is FREE eReader software that presents eBooks like you've never seen them before!

The **FREE Blio eReader software** is the new touchstone for the presentation of electronic books & magazines. Stunning, full color pages come alive in brilliant 3D. Even image-rich books are...

Blio is Coming Soon

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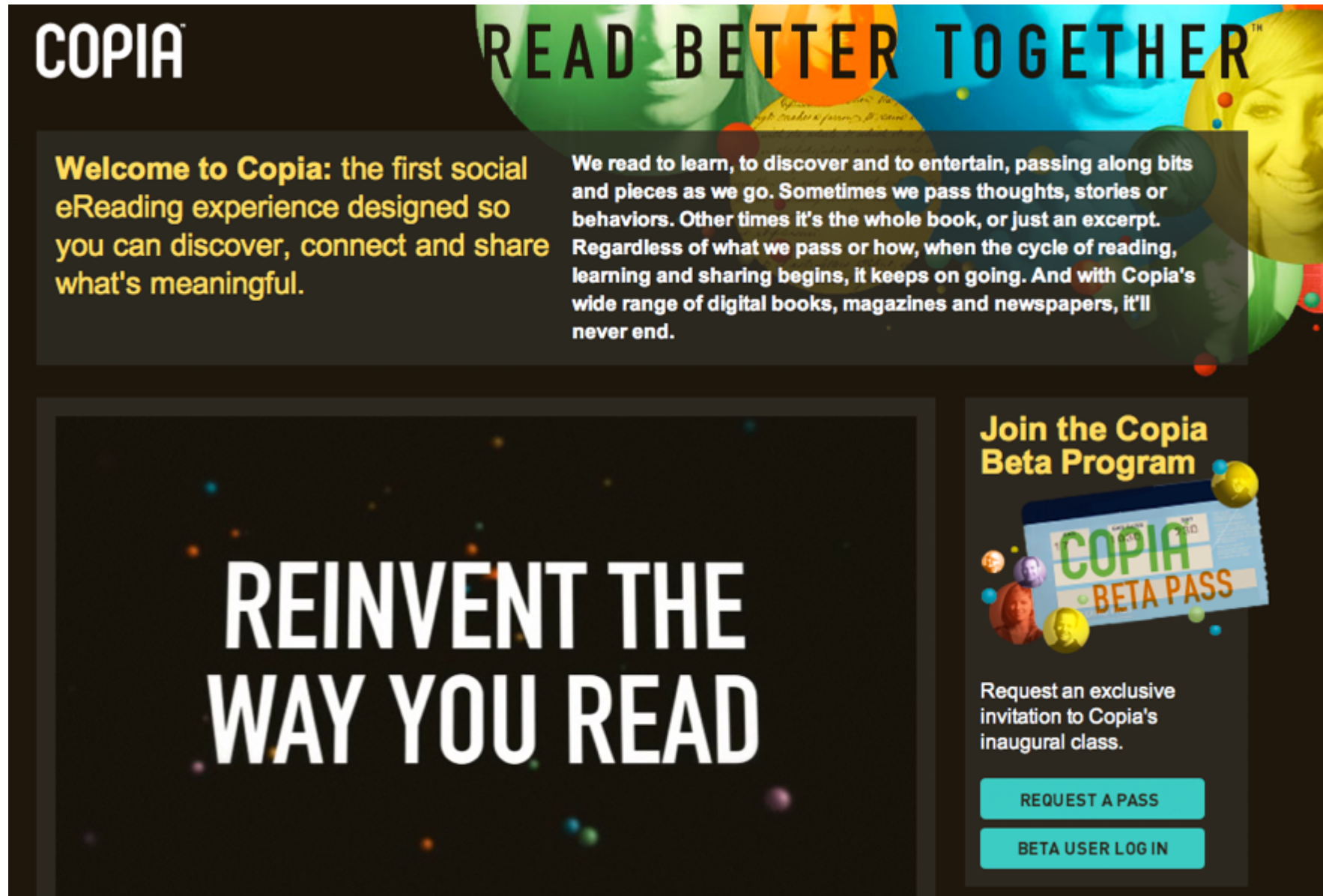
meld the reading experience with media

audio, video, and web content

device-agnostic

buy once, view anywhere

Copia - focusing on social aspects

The banner features a dark background with a collage of faces in various colors (green, orange, blue, yellow) and floating colorful spheres. The text is arranged in a clean, modern layout with a mix of white and yellow colors.

COPIA READ BETTER TOGETHER™

Welcome to Copia: the first social eReading experience designed so you can discover, connect and share what's meaningful.

We read to learn, to discover and to entertain, passing along bits and pieces as we go. Sometimes we pass thoughts, stories or behaviors. Other times it's the whole book, or just an excerpt. Regardless of what we pass or how, when the cycle of reading, learning and sharing begins, it keeps on going. And with Copia's wide range of digital books, magazines and newspapers, it'll never end.

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Eric Peterson



"The Road is such an ominous book but so compelling."

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At a glance:

Library: 212
People: 76
Discussions: 110
Notebook: 4
Reviews: 34
Groups: 25

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Search by title, author, tag, ISBN, etc.

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[Load Saved Searches](#) ?

My Dashboard

Radar


[Picked for You \(8\)](#) | [Your Followers are Reading \(25\)](#) | [Most Downloaded \(8\)](#) | [Recommended by Friends \(11\)](#)



Me Talk Pretty One Day

David Sedaris

By an ironic twist of fate, readers find present-day Sedaris in France, where only now after all these years, he [\(more\)](#) david, sedaris, this american life, NPR

Community Rating


Community Value
87

Copia Price \$6.99
[buy now](#) | [see all options](#)

[Add to Library](#)



Notifications

[All](#) | [Currently Reading \(8\)](#) | [Just Finished \(8\)](#) | [Notes & Highlights \(8\)](#) | [Groups \(8\)](#) | [Friends \(8\)](#)



Eat, Pray, Love
One Woman's...
Elizabeth Gilbert

love, food, travel





The Weight of Silence
Heather Gudenkauf

spiritual, wellness, help





Going Rogue
Sarah Palin

politics, palin, alaska





THE RAW FOOD DETOX DIET
Natalia Rose

food, diet, detox





New Moon
Stephenie Meyer

vampires, werewolves



Reader



Lindsey created a bookmark.

3 hours ago

connects with social networks, like Facebook

Eric
Peter"The R
an omi
so com

Update

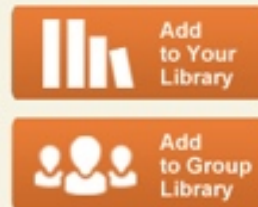
At a glance

Total it
Read:
Unrea
Readi
Review
5-Star

Manage



Eat, Pray, Love: One Woman's Search for Everything Across Italy, India & Indonesia

Author: **Elizabeth Gilbert**

Shop

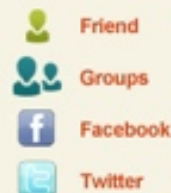
ISBN-13: 9780143038412

Copia Price \$8.99

Buy Now

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Info

Ratings & Review

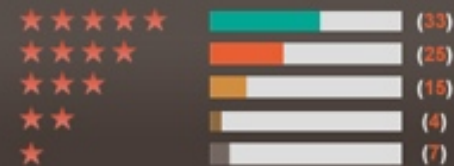
Community

Community Rating



Ratings (157)

Reviews (142)



Your Rating

★★★★★ "So good, I read it twice."

Your Review

Edit

33 out of 45 people found this review helpful

Early on in "Eat, Pray, Love," her travelogue of spiritual seeking, the novelist and journalist Elizabeth Gilbert gives a characteristically frank rundown of her traveling skills: tall and blond, she doesn't blend well physically in most places; she's lazy about research and prone to digestive woes. "But my one mighty travel talent is that I can make friends with anybody," she writes. "I can make friends with the dead... if there isn't anyone else around to talk to, I could probably make friends with a four-foot-tall pile of Sheetrock." [\(more\)](#)

Community Reviews



Your Friends (10)

Most Helpful (5)

Recent (56)

**Brent Jenkins**

133 Books | 23 Friends | 2 Groups

Eat Pray Awesome

20 Mins Ago

★★★★★

"If a more likable writer than Gilbert is currently in print, I haven't found him or her... Gilbert's prose is fueled by a mix of intelligence, wit and colloquial exuberance that is close to irresistible, and makes the reader only too glad to join the posse of friends and devotees who [\(more\)](#)

Was this review helpful?

Yes | No

**Jasmine Clark**

133 Books | 23 Friends | 2 Groups

Fantastic

40 Mins ago

★★★★★

"Gilbert's journey is full of mystical dreams, visions and uncanny coincidences... Yet for every ounce of self-absorption her classical

Eric Peterson



"The Road is such an ominous book but so compelling."

[Update status](#)

At a glance:

Total items: 255
Read: 55
Unread: 75
Reading: 5
Reviews: 15
5-Stars: 65

[Manage My People](#)



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Search by title, author, tag, ISBN, etc.

[Search](#)

Filter: [Genre](#) | [Tags](#) | [Time](#) | [Rating](#) | [Status](#) | [Other](#)

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My Library

255 items

View:

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Sort:

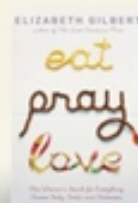
[Recent](#)



Current and Recent Reads

19

[Edit this Collection](#)
[See Collection as list](#)



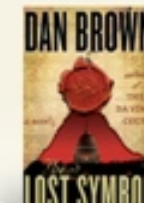
Eat, Pray Love
 Elizabeth Gilbert



The Divine Conspiracy
 Dallas Willard



The Imperial Cruise
 James Bradley



The Lost Symbol
 Dan Brown

8-12

I Want to Read

101

[Edit this Collection](#)
[See Collection as list](#)



Angels & Demons
 Dan Brown



How to Mess Up Your Child's Life
 Oliva and Kurt Bruner



The Weight of Silence
 Heather Gudenkauf



The Werewolf's Guide to Life...
 Rich Duncan & Bob Powers

55-59

My Reading Group

35



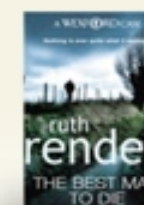
Under the Dome



Me Talk Pretty



Great Expectations



The Best Man to Die

TIDAL

Recent

John's Library

11:15 pm

Menu



Eat, Pray, Love: One Woman's Search for Everything Across Italy, India & Indonesia

Author: Elizabeth Gilbert
ISBN-13: 9780143038412

Shop

See All

Copia Price \$8.99

Buy Now

Gift

Info

Ratings & Review

Community

Community Rating



Ratings (157)

Reviews (142)



Community Reviews

Your Friends (10)

Most Helpful (5)

All (56)



Brent Jenkins

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2 Groups

Eat Pray Awesome

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20 Mins Ago

"If a more likable writer than Gilbert is currently in print, I haven't found him or her... Gilbert's prose is fueled by a mix of intelligence, wit and colloquial exuberance that is close to irresistible, and makes the reader only too glad to... (more)"



Jasmine Clark

133 Books
23 Friends
2 Groups

Fantastic

★★★★★

40 Mins Ago

"Spilling out of this funny (and profound) circus car of a book are dozens of mesmerizing characters, people you'll envy Liz Gilbert for finding, valuing, loving and, I couldn't help noticing, joining for irresistible meals. I've never read an... (more)"



8 (22)

3 (9)

4 (22)

4 (22)



what role for libraries?

UPDATE: Kindles, iPads, and Other eBook Readers Available for Loan from Public and Academic Libraries

A couple of months ago we compiled our first post on ResourceShelf with libraries (both academic and public) lending iPads, Kindles, Sony eBook Readers, and other electronic devices. We've collected even more since that first post so it's time for an update.

Public Libraries

+ [West Vancouver \(Canada\) Public Library](#)

First library in Canada to loan Kindles. They have five available and each one is loaded with fifty titles.

+ [Mentor Public Library in Ohio](#)

Two iPads and six Nooks are available.

We first posted [this item here](#).

+ [San Diego Public Library](#)

Sony Readers provided by Sony are available.

+ [Manitowoc, Wisconsin](#)

Sony Reader, Amazon Kindle, Barnes & Noble Nook
Loaded with approx. 75 titles.

More Additions to the Public Library Collection

+ [River Forest Public Library, IL](#)

[Sony Reader](#) and [Kindles](#)

MIT's Lewis Music Library Begins Lending iPad (with content and apps) to Students, Faculty, Staff

MIT's Lewis Music Library began lending an iPad for faculty, students, and staff use in the past couple of weeks [according to a post from MIT Libraries News](#).

At MIT, the iPad (they have one to lend) has a loan period of 4 hours. You can NOT renew the iPad and there is no overnight lending. All of this is done on a first come, first served basis.

What about software? Get ready and don't forget that this is a loan from the music library.

The iPad comes with more than 85 music apps. But, that's not all. It also contains a library with more than 3,000 tracks and music videos from CD's and DVD's that have been recently received by the Lewis Music Library.

That's quite a package especially if you want to see how the iPad deals with multimedia. It's also interesting that content and relevant software is included.

Although, MIT was the first library we have heard of loaning iPads they are not the only ones. We've learned that North Carolina State University and Fairleigh Dickinson University are also lending iPads.



Lewis Music Library at MIT

but what about all those frustrating ebooks we have that are difficult or impossible to read on mobile devices?

Engineering & Science E-Books

- Knovel (engineering and science) - [info](#) - [video](#)
- Books 24x7 (technical books in IT and engineering) - [info](#)
- O'Reilly Books / Safari Technical Books Online - [info](#)
- CRCnetBASE (engineering and science) - [info](#)
 - CHEMLIBnetBASE - [info](#)
 - CHEMnetBase - [info](#)
 - CivilENGINEERINGnetBASE - [info](#)
 - CLEANTECHnetBASE - [info](#)
 - ElectricalENGINEERINGnetBASE - [info](#)
 - ENGnetBASE - [info](#)
 - MATERIALSnetBASE - [info](#)
 - MATHnetBASE - [info](#)
 - MechanicalENGINEERINGnetBASE - [info](#)
 - NANOnetBASE - [info](#)
 - POLYMERnetBASE - [info](#)
 - TELECOMMUNICATIONSnetBASE - [info](#)
- Medical Books [StatRef Electronic Medical Library] - [info](#)
- Online Technical Reports at MIT
- National Academies Press (Reports issued by National Academies)
- EcoSal Online - [info](#)
- Food Chemical Codex
- NCBI Bookshelf - [info](#)
- NetLibrary - [info](#)
- MIT Theses in DSpace - [info](#)
- Springer Ebooks - [info](#)
 - Biomedical and Life Sciences
 - Chemistry and Materials
 - Computer Science
 - Earth and Environmental Science
 - Engineering
 - Mathematics and Statistics
 - Medicine
 - Physics and Astronomy
 - Professional and Applied Computing

Humanities E-Books

- Past Masters - [info](#)
- Early English Books Online (EEBO) - [info](#)
- Early English Books Online (EEBO) Text Creation Partnership - [info](#)
- Literature Online (LION) - [info](#)
- Gallica - [info](#)
- Oxford Reference Online - [info](#)
- Brown University Women Writers Project - [info](#)
- College Blue Book -- 33rd edition -- 33rd edition - [info](#)
- Women Writers Project - [info](#)
- NetLibrary - [info](#)
- MIT Theses in DSpace - [info](#)
- Springer Ebooks - [info](#)
 - Behavioral Science
 - Humanities, Social Sciences and Law

Management & Social sciences E-Books

- SourceOECD - [info](#)
- RAND Corporation reports
- NetLibrary - [info](#)
- MIT Theses in DSpace - [info](#)
- Springer Ebooks - [info](#)
 - Business and Economics
 - Humanities, Social Sciences and Law
- World Bank E-Library

Architecture & Planning

- NetLibrary - [info](#)
- MIT Theses in DSpace - [info](#)
- Springer Ebooks - [info](#)
 - Architecture and Design
- World Bank E-Library

General collections/mega-sites

- Online Books Page
- Internet Public Library Books
- Metronet E-Book Project
- Universal Library



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I am a frustrated eBook (non) user

June 14, 2010

I participated last week in an online [chat via Twitter about eBooks](#) put on by [Follow the Reader](#). Something I wrote then, and thought bore repeating is as follows, succinctly summarized in one '

I think w/o new ebook DRM, licensing, & copyright, library ebooks will continue to exist only in our communities' margins.

Publishers still must be convinced that
econtent in libraries is not a threat.

Publisher suggestion

“I personally would like to see a vibrant rental channel for ebooks. And I’d like to see both libraries and booksellers participating, perhaps with release dates delayed just as DVDs today follow cinematic release.”

Libraries and ebooks: tough issues that it’s time to debate

- Martin Taylor, New Zealand Digital Publishing Forum

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Skin Care Secret**ANDY IHNATKO**[Print Article](#) [Email Article](#) [Share / Bookmark](#) [Buz](#)

A movement toward reasonable DRM management?

[Comments](#)

July 25, 2010

By **ANDY IHNATKO** ai@andyi.com

"Why do I have to buy *three copies* of this movie, just to make sure I can watch it wherever I want?" I complain (to my goldfish).

Click and Drag have heard this before. I buy a movie on Blu-ray and it includes a digital copy via iTunes. So: I can watch it on my Blu-ray player and I can watch it on my iPad, but I can't put it on my Android phone and I can't stream it to the PC I've got in the living room that's plugged into an HDTV and runs Boxee.

» [Click to enlarge image](#)

Getting a movie you've purchased at the iTunes Store to play on all of your media devices might get a

"At some point," I continue, "a computer at the iTunes Store verified that I've already paid for this movie once, and allowed me to download this second copy. Couldn't that computer talk to the computers that all of my other media devices trust, and tell them 'It's cool ... Andy already bought this. Just let him have another copy'!?"

Historically, the digital content



a new standard for DRM and content-encoding

UltraViolet would allow users to amass a personal, online virtual library, where they can both share it with others, and view it on any device that supports the format.

"A movement toward reasonable DRM management?"

- Andy Ihnatko,

Chicago Sun-Times, July 25, 2010

What libraries can do

- Get ereaders for your staff to experiment with.
- Continue to experiment with loaning ebooks and ereaders to your users.
- Become experts who can advise your readers about reading hardware and software.
- Negotiate with publishers to make borrowing viable in this new world.
- Keep current with developments in this area.

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July 26th, 2010

DMCA court case optimism may be premature, but fair use is still very important

By [Chris Meadows](#)

In a follow-up to last night's story on the court case with implications for the DMCA, [lawyer Nilay Patel takes a look at the](#)

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