Reading on E-Book Devices: the User Experience

Nicole Hennig, MIT Libraries
Where we read

http://www.flickr.com/photos/seandreilinger/133370210/sizes/o/in/photostream/
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
He did not seem to have changed much.

After dinner, they made their way to the common room. He had been in a bad mood all day.

Ron, now had been in a bad mood all day.

“Anything new?” he asked.

“Nothing really,” said Harry.

“Yeah, mine!” said Harry.

“Yeah, mine!” said Harry.

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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 teletype 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 through the telephone lines. The modems convert these tones into binary 0s and 1s, which are sent to the user, with the modems to reassemble this stream.
http://www.flickr.com/photos/volavale/354005950/
A book is not one thing
novels
non-fiction
reference books
comics
graphic novels
essays
short stories
instruction
how-to
cookbooks
art & design books
http://www.flickr.com/photos/noahbulgaria/199834532/
http://www.flickr.com/photos/aufheben/494023168/
Visit any salad bar in America today and you'll find fruit salads chock full of kiwi, the pretty deep green fruit native to New Zealand, where it is known as the Chinese gooseberry. Because they've been so overexposed here, I've never been a big fan of these fuzzy-skinned oval-shaped fruits—until I found myself at a food stall on the beach in the city of Russell. There I discovered Kiwitini.

**KIWITINI**

SERVES 2

1 small ripe kiwi, peeled and sliced
1 teaspoon honey
2 1/2 ounces vodka
2 1/2 ounces Triple Sec
1 1/2 ounces white grape juice
2 teaspoons freshly squeezed lime juice

1. Set 2 slices of kiwi aside for garnish. In a small bowl, mash the rest with a fork, then combine with honey in a shaker and shake well.
2. Add vodka, Triple Sec, grape juice, and lime juice; shake well. Strain into a chilled martini glass and garnish each with a slice of kiwi.

http://www.flickr.com/photos/windompark/2324805959/in/photostream/
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 these 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, comically pieces together the war and his place in it. Gradually, the blankness of his mind is filled in by scenes of combat and patrol, rotiary 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. Trucks crush cars and buildings with lethal indifference; snipers pick off men on donkeys, men in cars, men drinking coffee; a soldier wanders through a store of bullet racks singing 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 war. Profoundly original in form and approach, Waltz with Bashir will take its place as one of the great works of wartime testimony.

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

http://www.flickr.com/photos/jamiecat/4496489989/
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
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/ezILHKktf9I
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/nHiEeq5wb3g

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

Unique PDF Reflow

Word-wrap PDF text to fit the screen, then auto-scroll and enjoy

Read anything, anywhere

A huge library right in your pocket.

PDF
DOC
TXT
PPT
Images
XLS
Video
HTML
Music
2. Background for trust and reputation systems

2.1. The need to consider trust

Many transactions in the digital environment are conducted without touch because we experience and rely on it everyday, but at the same time trust is quite challenging to define because it manifests itself in many different forms. The literature on trust can also be quite confusing because the term is being used with a variety of meanings [46]. Two common definitions of trust which we will call reliability trust and decision trust respectively will be used in this study.

As the name suggest, reliability trust can be interpreted as the reliability of something or somebody, and the definition by Gambetta [22] provides an example of how this can be formulated:
the “i-generation”
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

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
meld the reading experience with media

audio, video, and web content
device-agnostic

buy once, view anywhere
Copia - focusing on social aspects

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.

Request an exclusive invitation to Copia's inaugural class.

REQUEST A PASS

BETA USER LOG IN
connects with social networks, like Facebook
Eat, Pray, Love: One Woman's Search for Everything Across Italy, India & Indonesia

Author: Elizabeth Gilbert

Community Rating

Your Rating

Your Review

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

Brent Jenkins
133 Books | 23 Friends | 2 Groups

Eat Pray Awesome

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)

Jasmine Clark
133 Books | 23 Friends | 2 Groups

Fantastic

"Gilbert's journey is full of mystical dreams, visions and uncanny coincidences... Yet for every ounce of self-absorption her classical
“The Road is such an ominous book but so compelling.”

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

My Library
255 items

View: Collections List Expanded
Sort: Recent

Current and Recent Reads
19
- Eat, Pray Love
  - Elizabeth Gilbert
- The Divine Conspiracy
  - Dallas Willard
- The Imperial Cruise
  - James Bradley
- The Lost Symbol
  - Dan Brown

Edit this Collection
See Collection as list

I Want to Read
101
- 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

Edit this Collection
See Collection as list

My Reading Group
35
- Me Talk Pretty One Day
  - David Sedaris
- We Talk Pretty One Day
  - David Sedaris
- The Best Man to Die
  - John Grisham
- Stephen King Under the Dome
  - Stephen King

Manage My People
Community Rating

Community Reviews

Eat Pray Awesome
20 Mins Ago

Brent Jenkins
133 Books
23 Friends
2 Groups

*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)

Fantastic
40 Mins Ago

Jasmine Clark
133 Books
23 Friends
2 Groups

*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)
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.

+ Manitiwoc, 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.
the iPad is IN

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
  - MAGnetBASE - 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
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 phrase:

*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
A movement toward reasonable DRM management?

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.

“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.
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 currently disputed aspects and their implications.

http://www.teleread.com/
Resources and Readings

http://hennigweb.com/presentations/hhl3/resources.html

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