

Getting Mobile

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Presentation Outline

- Introduction
- Brief history of the mobile phone
- Shift from e- to m-learning
- Student Mobile Usage
- Mobile Services for Libraries
- Future Trends





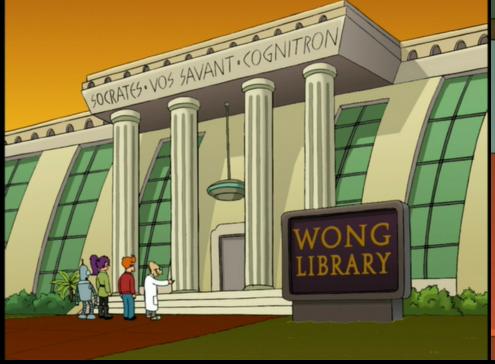
Sept 13th 1956 – IBM invents first Hard drive. Weighs a ton and costs \$250,000 USD (approx., in today's dollars) and stores a whopping **5MB** of information

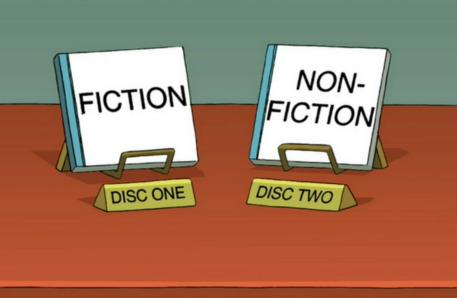


Jan 27th 2009 – single hard drive with largest capacity on the market sells for \$400 (approx.) holds **2TBs** (*Two Million MBs*) of information

Interesting Facts from "How much data is that?":

- Complete works of Shakespeare = 5MB
- Content in an Academic Research Library = 2TBs
- Library of Congress print holdings = 10TBs
- All printed material in the world = 200 Petabytes (204,800 TBs)





Don't worry, we are not going to get into a debate on digitization...

Concept to remember:

There has been a major change over the years in the way information has been acquired, stored and consumed.

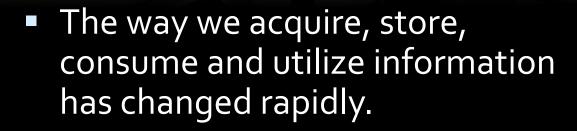


Wires no more.









- The desired content should seamlessly display on all device types
 - Emphasis on usability



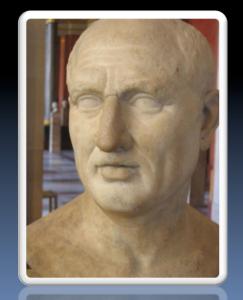


Before we continue...

A brief history of the mobile phone

Why?





"History is the witness that testifies to the passing of time; it illuminates reality, vitalizes memory, provides guidance in daily life, and brings us tidings of antiquity."

– Cicero



Marconi Wireless Telegraph.

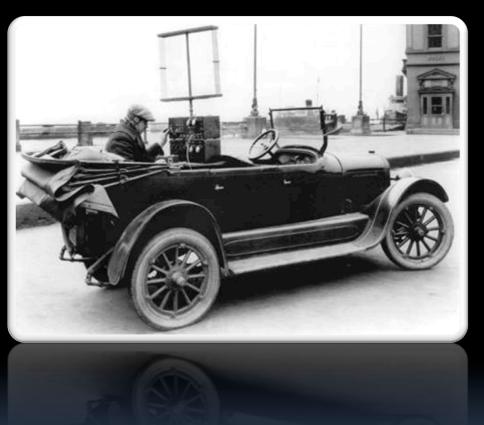
Created in 1896.

First Atlantic transmission in 1901.

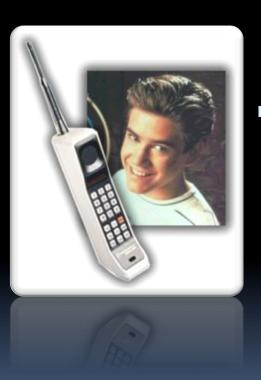
Mobile Telephone System

Created in 1946.





Improved Version released in 1960



- 1st Gen (80's) replaced the mobile radio phone.
 - Analog System
- 2G (Early 90's)
 - Introduced a Digital System
 - Included encrypted for enhanced security
 - Introduced data services including SMS text messaging

2.5 G

- Extension to the 2G standards (GPRS/ EDGE/HDCSD)
- Developed for companies who could not make the leap from 2G to 3G
- Provides additional features (some found in 3G)
 - MMS (Multimedia Messaging Service)
 - Sending images and video through mobile device
 - PTT (Push to Talk)
 - PTP (Point to Point)



- Early 2000's saw commercial release
- Buzz word used to sell iPhone and BlackBerry Bold smart phones
- Intended for applications other than voice
 - Video streaming
 - Video calling
 - High Speed Internet Access
 - Downloading Audio/Video/Pictures/ Applications

 This is where we are in 2009 in terms of our mobile telecommunications technology

- Other Mobile Technologies:
 - Laptops/Netbooks
 - E-Book Reader / Amazon Kindle







- 2010 release of 4G standard
- Next evolution in Wireless Communications Technology
- "Anytime, Anywhere" access to voice, data and streaming media services
- Services:
 - MMS (Multimedia Messaging Service)
 - DVB (Digital Video Broadcasting)
 - Video Chat
 - Mobile TV and HDTV
- Aiming to reach broadband speeds:
 - 100mb/s moving at high speeds (i.e. in a vehicle or on a train or plane)
 - 1gb/s in a fixed position

- Drastic changes in Communications Technologies
- Powerful technologies which can adapt to our mobile lifestyles

How does this fit within academic institutions and especially for libraries?

E-learning has become a substantial building block within higher education.

earning

Many benefits:

- 24 hour access to resources
- On or off campus access (as long as one has internet access)
- Distance Education



From "e-" to "m-" Learning

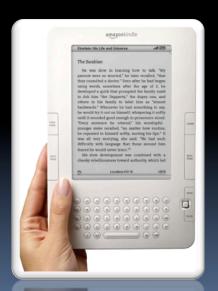
- m-learning extends the e-learning concept by adding the mobile computing element
 - Access to resources wherever you are
 - Strong searching capabilities
 - Rich User Interaction
 - Independence from a location in space and time





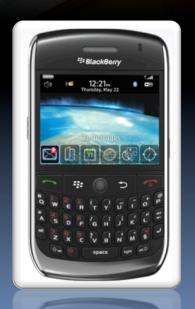


Students entering University have been exposed to an assortment of technological devices



• iPods and other MP3 players, iPhone and BlackBerry smart-phones, cell-phones, PDA's, personal gaming devices, e-book readers, GPS devices, DVD players, digital cameras and video cameras.







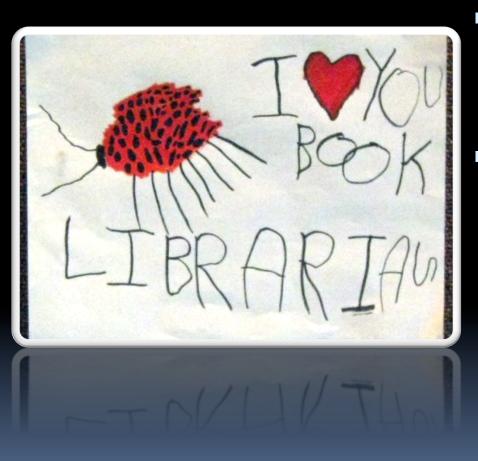
- Technologies cause problems:
 - Attention during lectures (i.e., web-surfing, gaming)
 - Disruptions (i.e., cell phones)
- Technologies assist in learning:
 - designing engaging learning experiences
 - Alternative teaching methods
 - Multi-media
 - Discovery of information from the internet

Library's Role in this shift

- Information needs of patrons are changing
- Library must cater to this adapting needs
 - No longer answering "Encyclopedia Style" questions.
 - Performing deeper levels of service
 - Comparing Strengths and Weaknesses of various resources for the patrons
 - Engaging in reference interviews about complex, often obscure topics not easily searchable on the internet



Library's Role in this shift



- Facilitate the delivery of these resources to patron devices
- Information needs to be formatted properly for that device and should be contextually relevant to their location in space and time.

Mobile Delivery of Library Services

- Sense of mobile environment
- Current mobile library services
- Future directions

Mobile Survey - Nov. 2008



811 responses, primarily undergraduate

Cell Phone Ownership



Smart Phone 21%

No Phone 3%





Cell Phone 76%

The Mobile Market

Increase between Jan 2008 and Jan 2009 of Mobile Phone Users Accessing the Internet for:

News and Information

Social Networking

107% change

427% change

comScore, Inc. Press Release March 2009

The Mobile Market

40 million active users of the mobile Internet (15.6% of cell phone subscribers)

144 million data users (SMS or internet) — 57% of subscribers

Nielsen Mobile, Worldwide State of the Mobile Web 2008

The mobile device will be the primary connection tool to the internet for most people in the world in 2020

Pew Internet & American Life, Future of the Internet III, Dec 2008

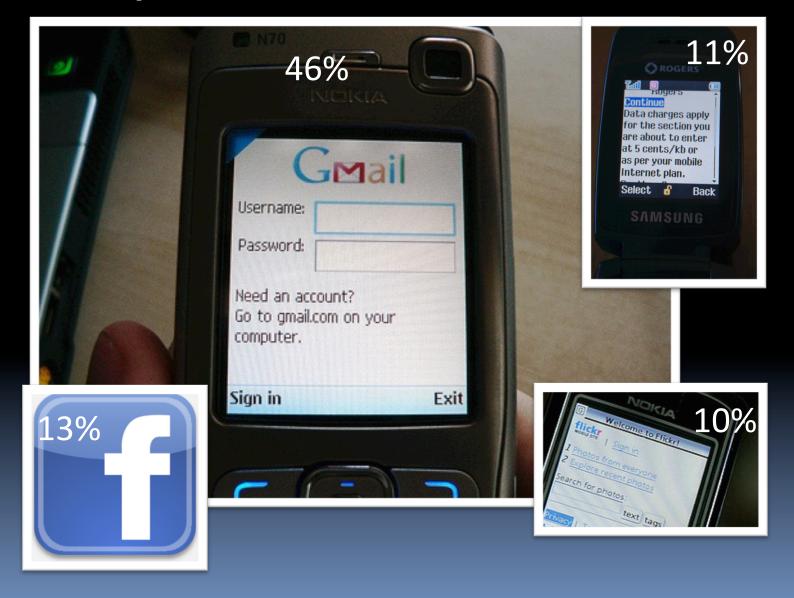
Top 4 Uses



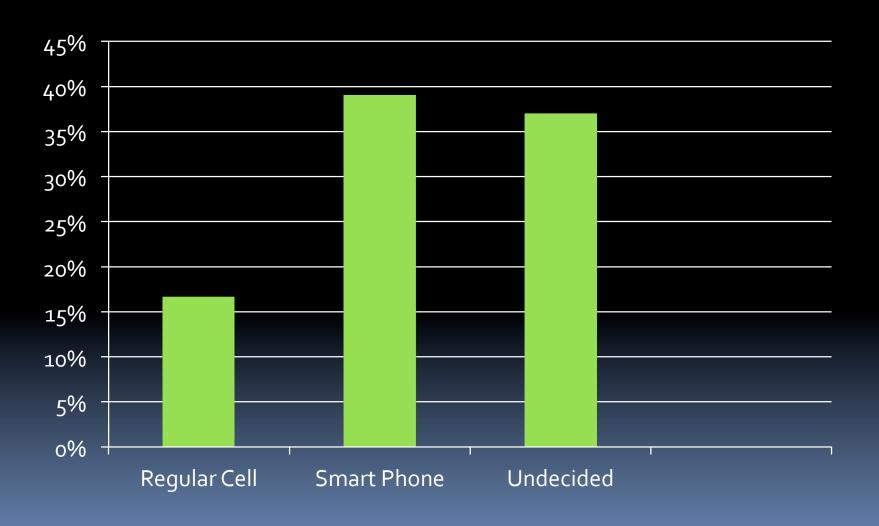
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ROGI

Top Internet Uses



What will your next phone be?



Other wifi enabled devices



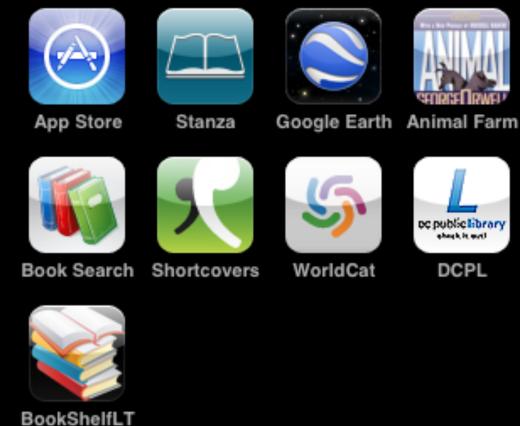
8.7% have

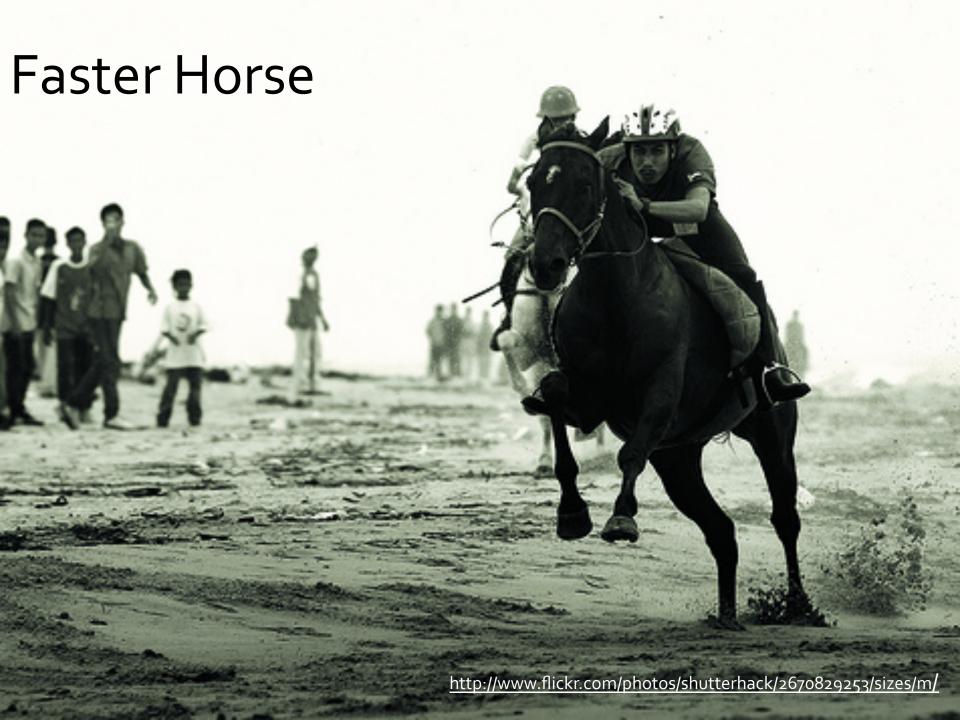
32% plan to buy

New features wanted



What Library Services do you want on your Phone?





Library Services for Phones

- Book Study Rooms
- Check hours
- Check borrower record
- Search Catalogue

- Over half wanted to search for articles
- Slightly less than half read ebooks

Other Suggestions

I already find that the library is not user friendly enough, being confined to a tiny box of text would only make matters much much worse.

Survey Summary

- In three years up to 80% with smart phones
- 85% of students are text messaging
- Environment ripe for some mobile library services

More Selected Survey Results http://www.ryerson.ca/library/msurvey/

Library Mobile Site - Fall 2008



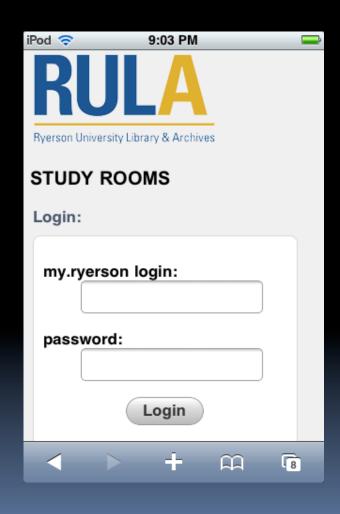
Ryerson Library

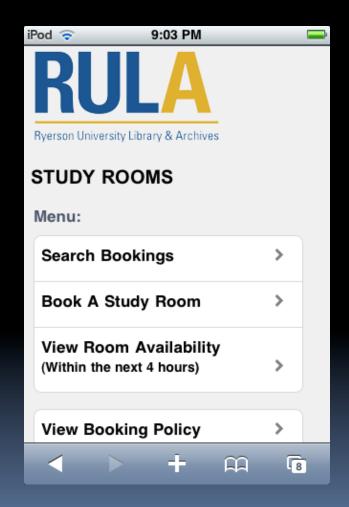
Mobile Pages

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Library News
Contact Us
Research Workshops

Home | 416-979-5055

Book Study Rooms

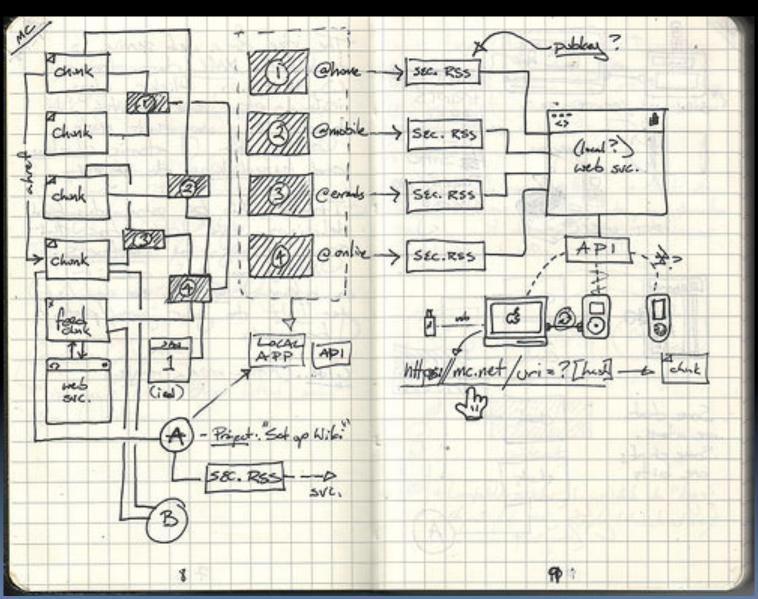




Mobile Catalogue

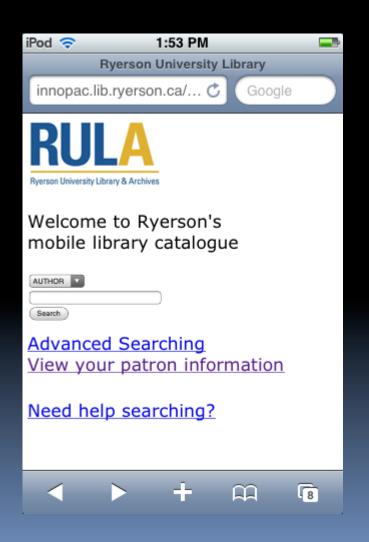
- Check Catalogue
- Check Borrower Record

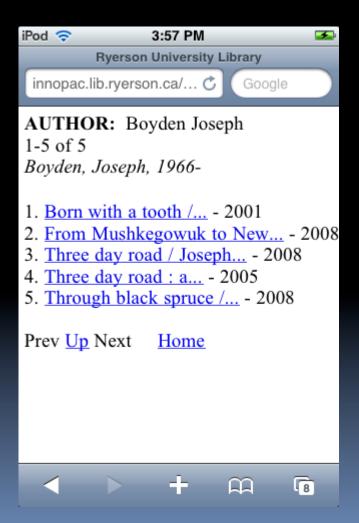
Build your Own





Ryerson Library's Mobile Catalogue http://innopac.lib.ryerson.ca/airpac





iPhone AirPAC

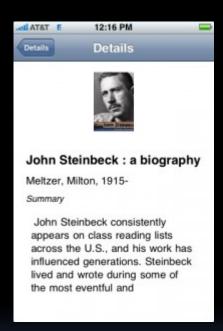


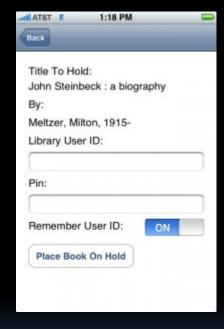
Beta March 2009

Orange County Library System, FL

http://iii.ocls.info:91/

DCPL iPhone Catalogue







DCPL iPhone app available from iTunes

Software for creating your own version – http://dclibrarylabs.org/projects/iphone/Code

Current Mobile Website

www.ryerson.ca/library/mobile/



Text Messaging from Catalogue



Title Atom Egoyan / Emma Wilson.

Publisher Urbana: University of Illinois Press, c2009.





Add to









 LOCATION
 CALL #
 STATUS

 9th Floor
 PN1998.3.E334 W55
 AVAILABLE

 2009
 PN1998.3.E334 W55
 AVAILABLE

Description xii, 161 p. : ill. ; 21 cm.

Title: Atom Egoyan / Emma Wilson.
Call #: PN1998.3.E334 W55 2009

Floor: 9th





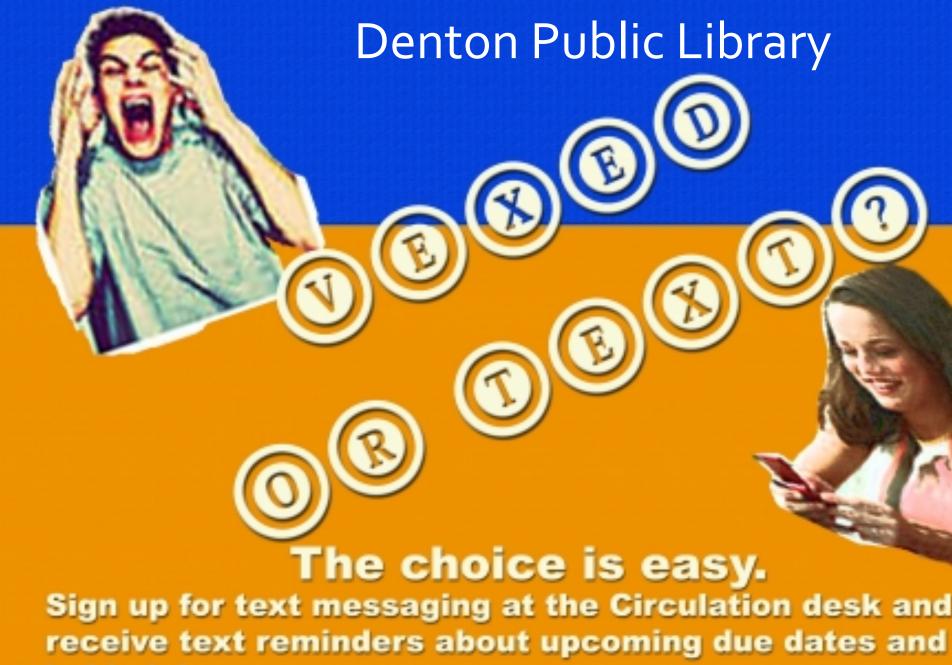
ctors

eferences (p. 153-158) and index.
[147]-151).
es -- Next of kin -- Family
s -- The adjuster -- Calendar -reafter -- Felicia's journey -h lies -- Interview with Atom



Send SMS Message

Title:	Atom Egoyan / Emma Wilson.		
Call #:	PN1998.3.E334 W55 2009		
Floor Location:	9th		
Select Service Provider:	v		
Cell Phone #:		eg. 4161231234	
NOTE: carrier charge	s may apply		
Send Message	Go Back		



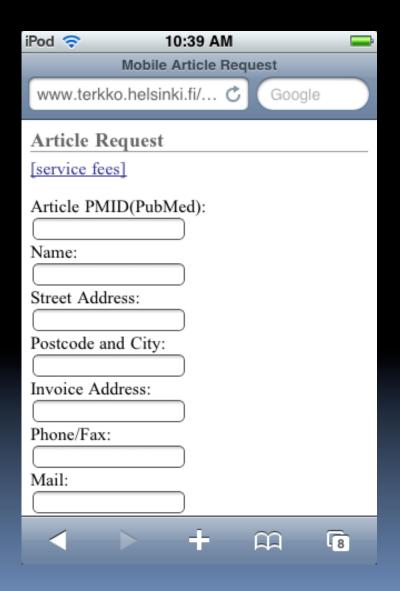
hold pick ups.

RefWorks Mobile



Available with April 2009 upgrade

Mobile ILL Requests



National Library of Health Sciences - Terkko, Finland

Payment by Phone



http://www.flickr.com/photos/livedigitally/104695005/sizes/m/



http://www.flickr.com/photos/mrfrosted/219575045/sizes/m/

MasterCard Trial

Just one tap of your phone and you're good to go.



 Look for this symbol and the PayPass logo at checkout.

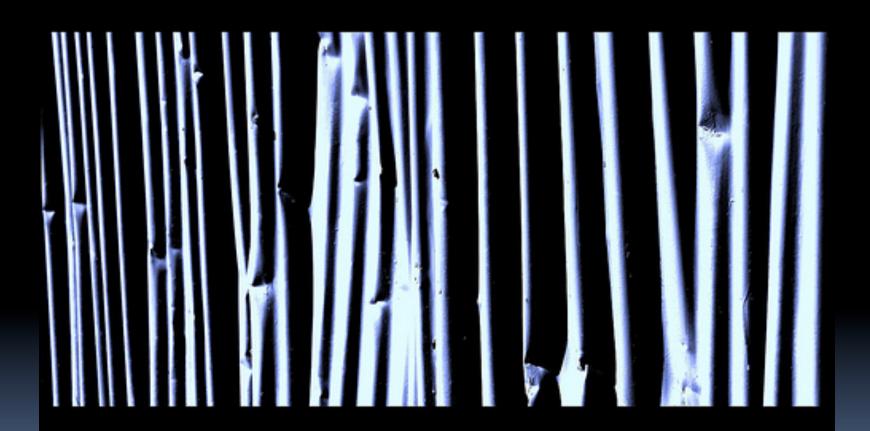


2. Make sure your PayPass application is activated. Then tap your phone on the PayPass reader.



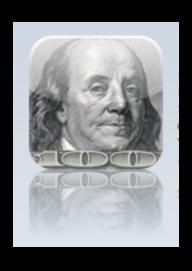
 When the PayPass Reader lights flash, you're all paid and off you go.

Barcodes



http://www.flickr.com/photos/paopix/2399524074/sizes/m/

Comparison Shopping



SaveBenjis

Search by product name, product number, Barcode (UPC,EAN, ISBN), manufacturer, etc



QR Codes





QR Codes in Catalogues

Library Services



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search



Catalogue About

Subjects

Online Resources

Your use of the Library

Help

result 1 of 1 for search "tradescant" in anywhere

The John Tradescants: gardeners to the rose and lily queen

Leith-Ross, Prudence.

Publisher: Owen,

Publication date: 1984. ISBN: 0720606128

1 copy on the shelves at Library & Learning Centre (Univ of Bath).

Copy details

Library & Learning Centre (Univ of Bath)

Shelf mark	No. of copies	Loan type	Location
635.09:920TRA	1	28 day loan	Level 4 (see floorplan)

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What's this?

