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Blurring the boundaries between our physical and electronic libraries

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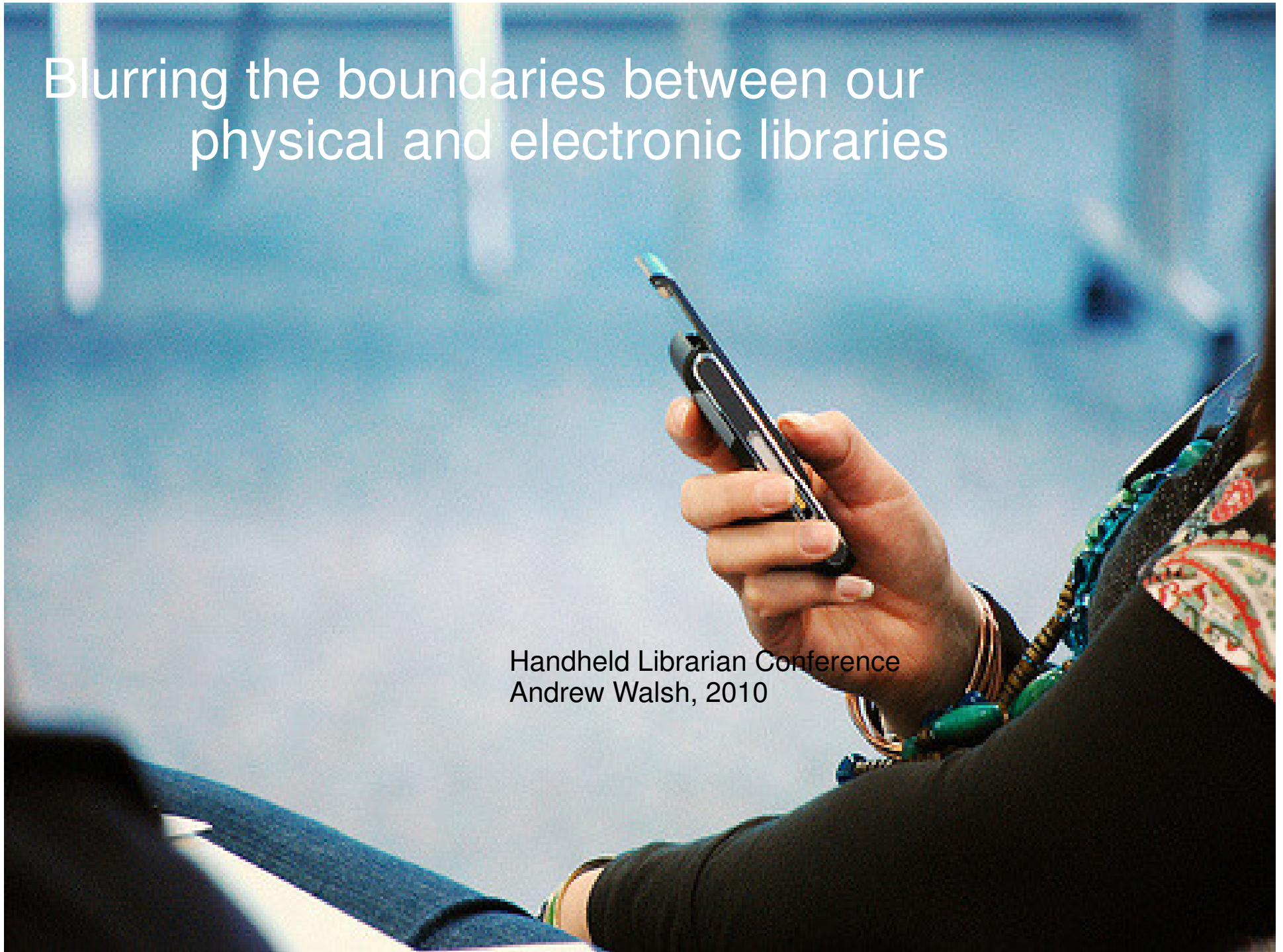
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Blurring the boundaries between our physical and electronic libraries

Handheld Librarian Conference
Andrew Walsh, 2010



The next 20 minutes



- .Why 'blur the boundaries'
- .Locating technologies
- .'Smarter' objects
- .RFID for more than just circulation

Why? A little bit of magic



<http://www.flickr.com/photos/7933170@N03/2631820657/> - by photographer padawan *(xava du).

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Why? To keep our physical libraries...



Are we becoming glorified computer labs and meeting places?

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Why? To keep our physical libraries...



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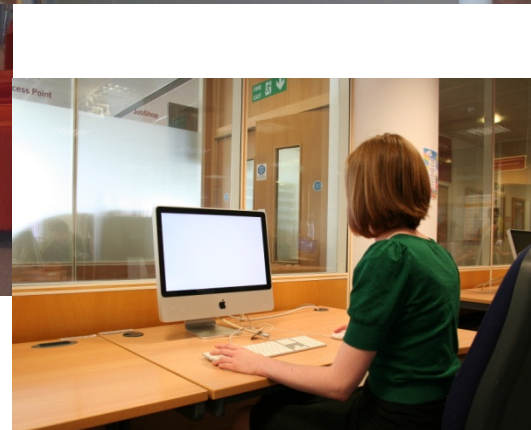
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Why? To keep our physical libraries...



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Are we becoming glorified c



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Why? To keep our physical libraries...



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HUDDERSFIELD



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Quick poll!

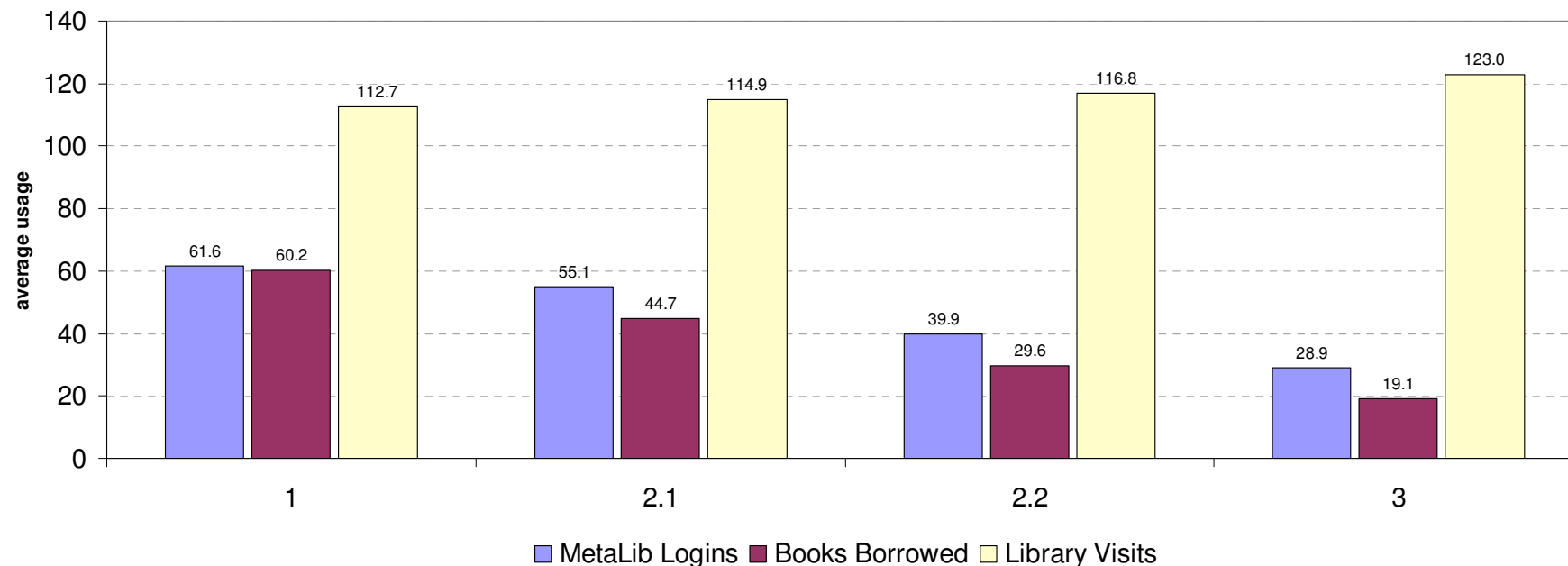


Do you think your physical library directly impacts on student achievement?

YES/NO

Why? To keep our physical libraries...

Library Usage v Final Award – All Honours Courses



What is the physical library for?



Click to edit Master text styles

Second level

• Third level

• Fourth level

• Fifth level

create

explore

inquire

learn

discover

About
Mills Learning
Commons

Library &
Research Help

Learning
Support

I.T. Support

your library just got better!

McMaster University Libraries | FAQ | Comments & Suggestions | Learning Commons News & Events

<http://www.flickr.com/photos/michaelsphotos/430442919/> - mstephens7

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Personalising the library environment

- .Typical 'mobile friendly' library services
- .Podcasts; SMS services; Mobile friendly web pages
- .What about the user moving through the library?
- .Annotating the physical resources;
- .Augmenting the physical reality;
- .And more....

Photo from <http://www.flickr.com/photos/przemion/296458630/> - przemion

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Locating technologies



- . GPS
- . WIFI / Bluetooth / Active RFID Triangulation

“...in large indoor environments such as libraries ... location awareness can become a crucial determinant of superior quality of service, deriving from the ability to locate the co-ordinates of a person or an object with reasonable accuracy at all time, and this provide spatially-aware services.”

Giaglis et al (2002) *On the potential use of mobile positioning technologies in indoor environments*. In: *ereality:constructing the eEconomy*, pp. 413-428. Bled: Slovenia

A few examples...

Erewhon
(Oxford)

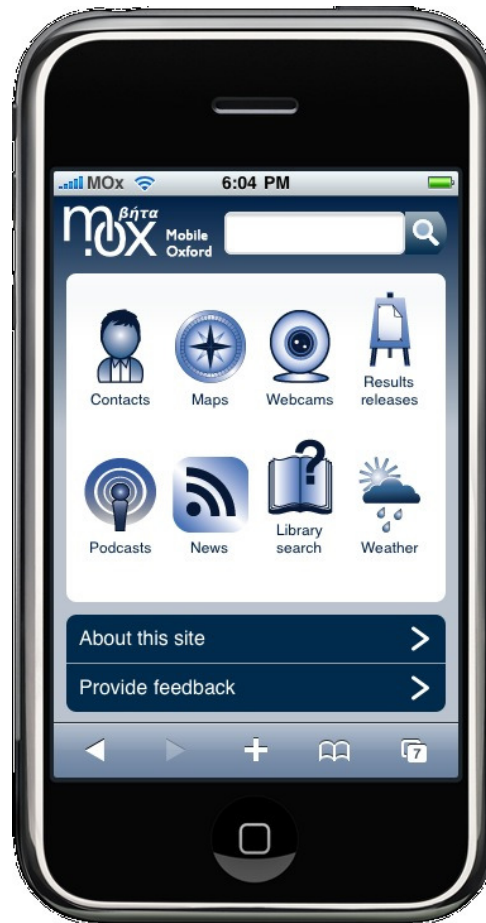


Image from <http://mobileoxford.posterous.com/>

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A few examples...

Technology enabled campus
(Durham)



Image from <http://tel1.dur.ac.uk/wiki/doku.php>

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-
- Click to edit Master text styles
- Second level
- Third level
- Fourth level
- Fifth level
- Library: Pegasus Library
 Floor: Pegasus Library, 1st floor
 Item: 100 methods for total quality management /
 Area: P 65 : Administration of companies. Manag...
 Circulation Desk
- Show landmark on map: Refresh map
- View map where the searched item is located
- [Back \(Exit SmartLibrary\)](#)
[Collection database](#)
[Pegasus Library](#)
[Oulu University Library](#)

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A quick poll...



Has anyone used these locating technologies within their own libraries?

If so, which?

- 1) GPS
- 2) WIFI mapping
- 3) Bluetooth
- 4) Something else...

'Smarter' objects?

- QR codes and similar
- RFID tags



QR codes

University of Huddersfield: M-libraries: libraries on the move to provide virtual access - Windows Internet Explorer

http://webcat.hud.ac.uk/jsp/session=125249805813.11383/profile=0&source=+horizonview=Item&id=3100001+580994+580=1&aspect=

File Edit View Favorites Tools Help

Google Search

University of Huddersfield: M-libraries: libraries on the move to provide virtual access

PRINT COPYHOLDING INFORMATION

Location	Collection	Class (Dewey) No.	Status
Huddersfield	Loan Collection Floor 6 - 2 wk loan	004 678 INT	Available

new item feed for Class 004

Virtual shelf browser:



Useful links:

Amazon UK: <http://library.hud.ac.uk/per/amazon.pl?1856046486>

Blackwell: <http://library.hud.ac.uk/per/blackwells.pl?1856046486>

del.icio.us: <http://del.icio.us/post?url=http://library.hud.ac.uk/atink/bib/580994/cis/>

Loan Stats: <http://library.hud.ac.uk/per/stats/stats.pl?bib=580994>

Permalink: <http://library.hud.ac.uk/atink/bib/580994/cis/>

QR Code:

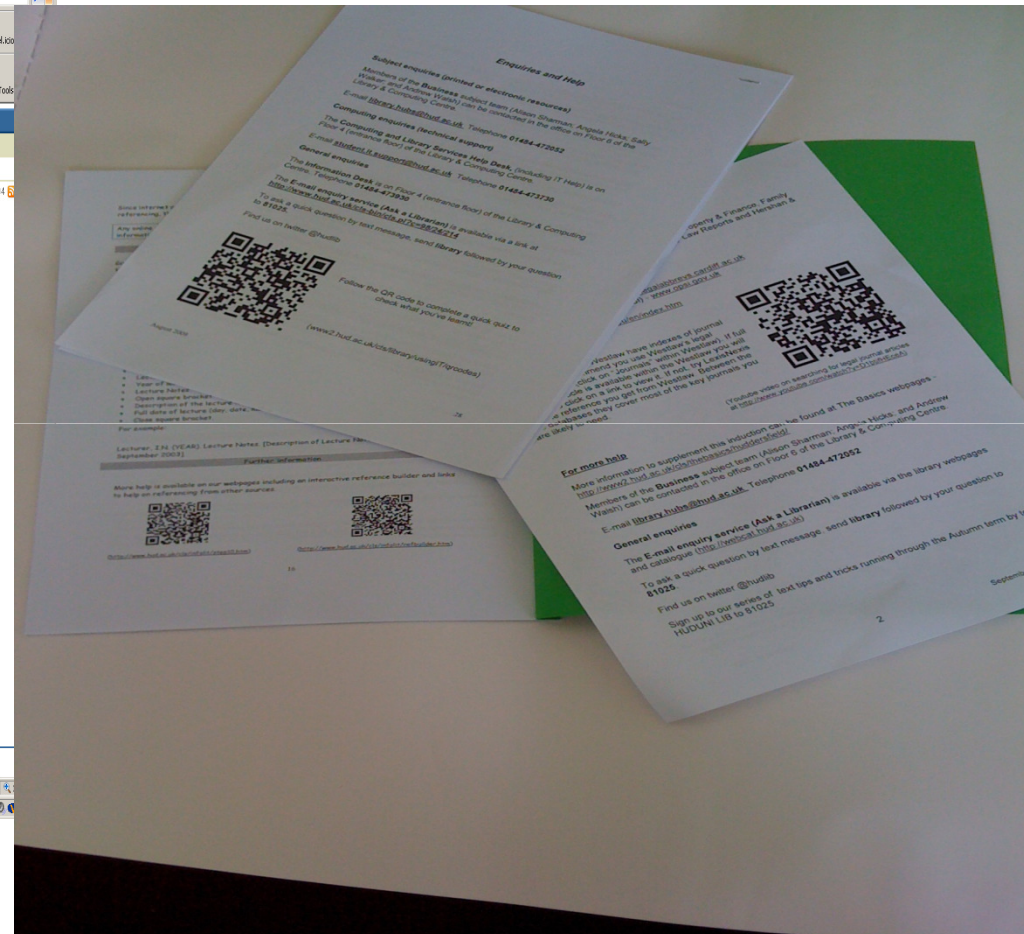


Search terms:

communication conference devices learning mobile shelf tools wireless

Done

Start iTunes Inbox - Microsoft Outlook mobile phone stuff Microsoft PowerPoint - University of Huddersfield



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QR codes



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QR codes



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Awareness of QR codes



.Before we started – 8% recognised a QR code

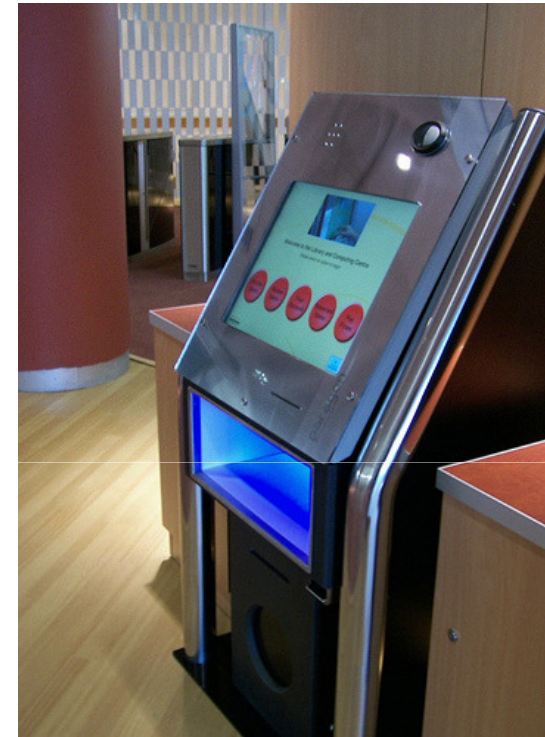
.After a full academic term – 22% recognised one.
(but another 11% volunteered they were familiar...)

RFID Tags

In our library, they're in:

- Every book
- Every DVD / Video
- In fact, almost all stock
- AND - every library card

But all we use them for is stock control and print credit.



RFID tags

Could be used for....

- Book recommendations
- Comments on books
- Recommend this book to others
- Personalised help
- Social Networking
- Directed messages from the University

Summary



So how can we bring that little bit of magic into the library?

- Could use software on handheld devices to locate users.
- Could use QR codes, or RFID tags to interact with users as they move around.

“Research which sought to make full use of all cell phone hardware and software capabilities in tandem would be creating a service which did not have a true analog in the physical library ... The development of such a platform provides the library with a way to be an instrumental part of the students' life.”

Hahn, J. (2008) Mobile learning for the 21st Century Librarian. *Reference Services Review*, 36(3), pp. 272-288.