



# MobiLIB:

# A Mobile Library Service at North Carolina State University



DLF Spring Forum 2008 April 29, 2008



# Why MobiLIB?

# More Phones on Campus



# More Phones ... Period

- Spread of mobile phones
  - By 2013: 1 mobile phone / U.S. citizen

[http://www.engadgetmobile.com/2007/08/26/study-suggests-100-mobile-phone-penetration-in-the-us-by-2013/]

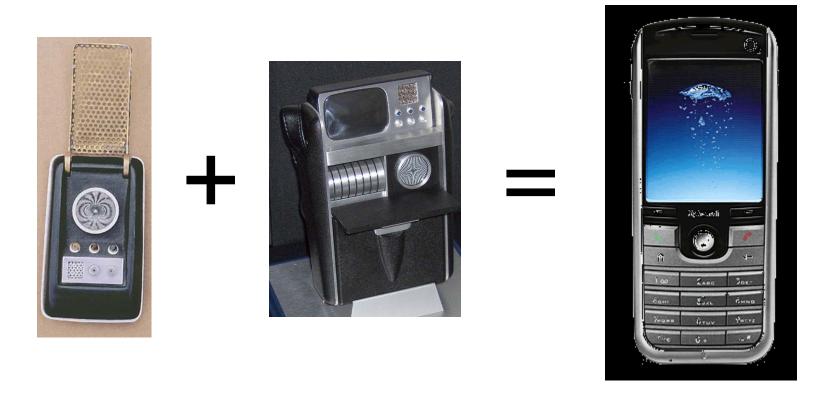
 -3.3 billion mobile phones world-wide as of November 2007

http://investing.reuters.co.uk/news/articleinvesting.aspx?type=media&storyID=nL29172095



Mobile phone kiosk in Cairo

# More Powerful Phones



[fiction] [science]

# Replacements for...

- Landlines
- Cameras
- PDAs
- Audio/Media Players
- GPS
- ...?



# More Services

### Commercial content providers

- Yahoo/Google/MSN/…
- Facebook/Flickr/MySpace/...
- Eric Schmidt, Google CEO:

"The biggest growth areas are clearly within the mobile space..."

[http://www.usatoday.com/tech/techinvestor/industry/2007-04-20-mobile-ads\_N.htm]



# Other Examples

- Educational institutions
  - Ball State University
  - Wake Forest University
  - University of Texas

# Don't want them?



[Record: over 311 feet...]

# **Choosing Services**

- No data on mobile phone usage at NCSU or what services students would like
- Start with small set of services
- Build on existing applications
- What could be useful in mobile environment

# <u>Design</u>

- Consider:
  - Variety of browsers
  - Variety of platforms
  - Small screens and input devices
  - Different usage scenarios for mobile applications
  - Mobile-device specific functions
    - Hotkeys
    - Clickable phone numbers

# **MobiLIB**

### Currently 7 services:

- 1. Catalog Search
- 2. Computers
- 3. Library Hours
- 4. Campus Directory
- 5. Contact Us
- 6. Links
- 7. Wolfline Status (external)

### MobiLIB

- 👺 <u>MobiLIB Home</u>
- 1. Catalog Search
- Computers
- 3. Library Hours
- Campus Directory
- 5. Contact Us
- 6. Links
- 7. Wolfline Status

# Catalog

- Driven by CatalogWS catalog API
- First implementation just XSLT
- Current implementation PHP and XSLT

# Catalog Search 1





# Catalog Search 2

MobiLIB Home

<u>New Search</u>

11 to 15 of 107795

ADC's map of

Washington,

D.C., & vi...

DH HILL

والملحداث سووها

MobiLIB Home

New Search

11 to 15 of 107795

ADC's map of Washington, D.C., & vi...
DH HILL

1 Available XX (852527 .1)

Proceedings of the ... annual meeti...

SATELLITE

5 Available

See holdings

Predation on sockeye salmon fry by ...
DH HILL

1 Available I 49.2:SA 3/8

Bell & Howell's newspaper index [to...

DH HILL

Capital speculations : writing and ...

DH HILL

1 Available

PS253 .D6 L87 2006

Previous | Next

# Catalog Search 3

Catalog Search

MobiLIB Home

Katharine

Graham's

Washington.

[Book]

(c2002.)

D.H. Hill Library,
Stacks (3rd floor)

8 MobiLIB Home

**Katharine Graham's Washington.** [Book] (c2002.)

D.H. Hill Library, Stacks (3rd floor)

F194 .K38 2002

- Available

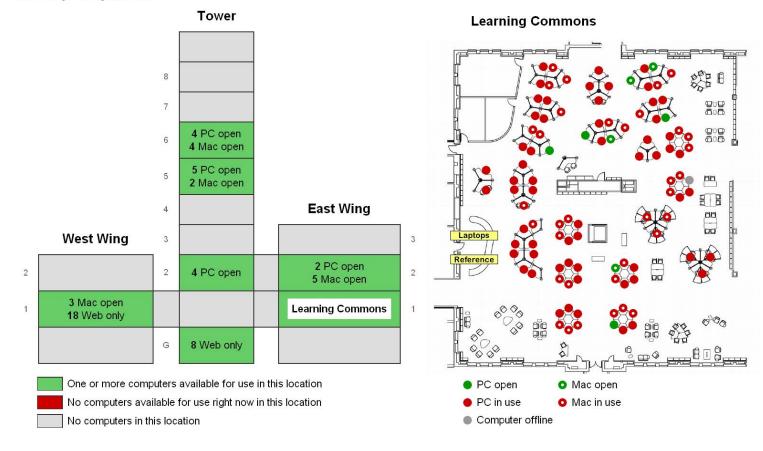
# Computers 1

Mobile version of existing computer availability map

# Computers 2

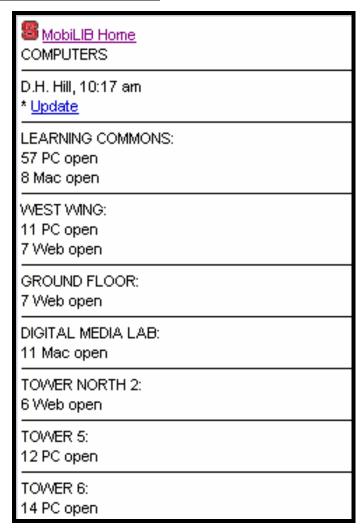
### Computers in the D. H. Hill Library

Tuesday 3:02pm, 4/22/08



# Computers 3

# Computers MobiLIB Home COMPUTERS D.H. Hill, 10:16 am \* Update LEARNING COMMONS: 57 PC open

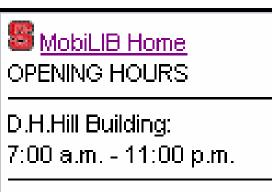


# Library Hours 1

Shows today's and tomorrow's hours

# Library Hours 2

# Hours MobiLIB Home OPENING HOURS D.H.Hill Building: 7:00 a.m. - 11:00 p.m. 1. D.H.Hill 2. Design



- 1. D.H.Hill
- 2. Design
- 3. Natural Resources
- 4. Textiles
- 5. Veterinary Medicine

# Library Hours 3





OPENING HOURS

### Design Library

Today:

7:30 a.m. - 9:00 p.m.

Tomorrow:

7:30 a.m. - 9:00 p.m.



🐸 <u>MobiLIB Home</u>

OPENING HOURS

### Design Library

Today:

7:30 a.m. - 9:00 p.m.

Tomorrow:

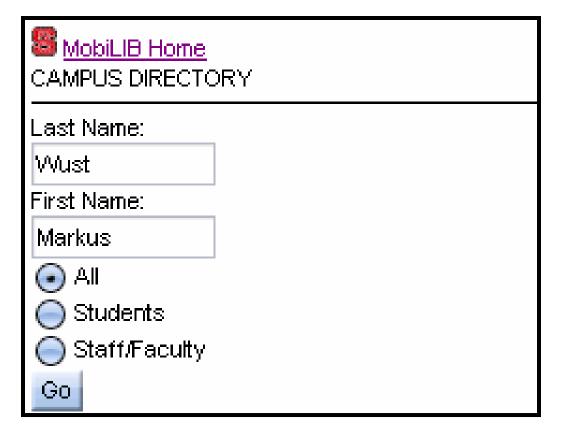
7:30 a.m. - 9:00 p.m.

# Campus Directory 1

- Started as library staff directory
- Connects to campus LDAP server

# Campus Directory 2





# Campus Directory 3



Markus Gerhard

Wust

NCSU Libraries

Librarian

919-513-0743

markus\_wust@ncsu

.edu



Markus Gerhard Wust

NCSU Libraries

Librarian

919-513-0743

markus wust@ncsu.edu

# Contact Us 1

 Contact information for selected library departments and services

# Contact Us 2

- MobiLIB Home
  CONTACT US
- 1. Ask a Librarian
- 2. Circulation
- 3. <u>Library Hours &</u>

Information

Media Center

- MobiLIB Home
  CONTACT US
- 1. Ask a Librarian
- 2. Circulation
- 3. Library Hours &

### <u>Information</u>

- 4. Media Center
- 5. <u>Digital Media Lab</u>
- 6. Individual Libraries

# Contact Us 3



ASK A LIBRARIAN

Phone:

(919) 515-2935

Toll-free:

1-877-601-0590

IM: nostatelib



Phone:

(919) 515-2935

Toll-free:

1-877-601-0590

IM: nostatelib

Email: libref@ncsu.edu

# Links 1

 Selection of links to external content and service providers

# Links 2

### MobiLIB Home

LINKS

- 1. Search
- 2. Services
- 3. <u>News</u>



LINKS

- Search
- 2. Services
- 3. <u>News</u>

# Links 3



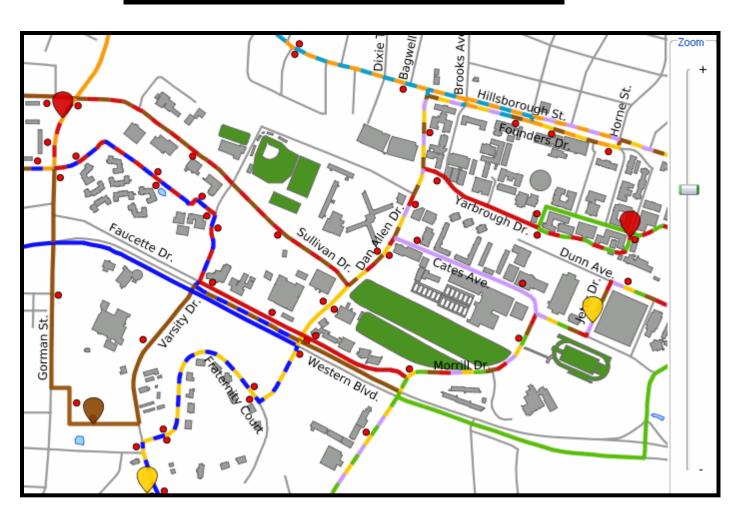
- 1. Google
- 2. Yahoo
- 3. <u>MSN</u>
- 4. White Pages
- Yellow Pages



- Google
- 2. <u>Yahoo</u>
- 3. <u>MSN</u>
- 4. White Pages
- 5. Yellow Pages

<u>Back</u>

- By TransLoc Inc.
- Shows current location of University buses
- Text-only version of graphic web interface



### TVS Text

As of 06/04/2007 11:14:29 AM Choose the route that you are interested in.

Engineering Rt#3

Fraternity Court Rt

#9

### TVS Text

As of 06/04/2007 11:15:33 AM

Choose the route that you are interested in.

- Engineering Rt #3
- Fraternity Court Rt #9
- Southeast Loop Rt #8
- Varsity Rt #5
- Vet School Rt #6
- Village Link Rt #11
- Westgrove Rt #4
- Wolflink Shuttle Rt #7.

### Announcements:

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### Engineering Rt#.

Back to route list

Refresh

As of 06/04/2007

11:17:05 AM

Bus 1: Heading

Northeast on Avent

Ferry Rd

Next stop is Stinson

### Engineering Rt #3

Return to the index of routes

As of 06/04/2007 11:17:07 AM

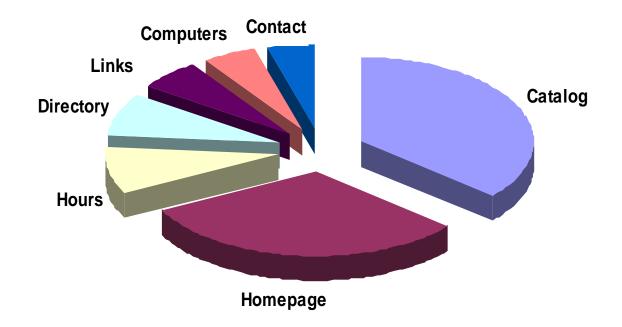
Bus 1: Heading Northeast on Avent Ferry Rd

Next stop is Stinson Dr at Harrelson Hall

Return to the index of routes

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# Statistics 1



Data gathered from November 16, 2007 to April 16, 2008

# Statistics 2

Homepage: 31.4%

Catalog: 36.2%

Hours: 8.9%

Directory: 8.3%

Links: 5.8%

Computers: 4.8%

Contact: 4.6%

# What to do better

- Cooperate with Campus IT
  - → Provide relevant content
  - → Integration with mobile infrastructure
- Advertise, advertise, advertise

# **Possibilities**

- Text-message search results
- Some services could be SMS-based
- → Both require SMS Gateway

# **More Information**

Find MobiLIB at:

http://www.lib.ncsu.edu/m

More information at:

http://www.lib.ncsu.edu/m/about.html

Markus Wust

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