Presentation URL:

http://tinyurl.com/jbchapf

Putting it All Together: using data for web design decisions

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Hello!

We are Scott, Michael, & Will

We work at Bethel and do reference.

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Agenda

- 1. What data sources do you/could you have?
- 2. How are they useful?
- 3. How do they compliment each other when making design decisions?



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DATA!!

Discovery Layer

Link Resolver

Databases

Social Media Chat Service

Calendar

Citation Manager

OPAC

Blog

LibGuides

DATA!!

LibGuides Analytics

Followers & Likes

Research Studies

User Testing

OPAC/Discovery usage

Chat transaction Logs

Surveys

Google Analytics



What questions do you have that data can help you answer?

- or -

What goals do you have that data can help you measure?

What can you actually change?

Other factors: Relationships

Communications / Web Services



Library



Users



Central IT



Data tools

What's in your arsenal and what's it good for?

	<u>User Testing</u>	Google Analytics	Click Tracker	Vendor Data
Cost	•	•	0	
Customization	•	•	0	0
Visualizations	0		•	
Cross-domain support	•	•		0
Ease of use	•	0	0	•
Setup difficulty (e.g., script installation, etc.)	•	0		
	•	,	Bei Mix	

Worse -or- not supported

User Testing

	User Testing
Free	
Visualizations	0
Cross-domain	•
Easy to use	•
Requires installing scripts on pages	0

Set Up

- Test multiple options
- Careful questions and scenarios
- Video if possible
- Small samples
- Use feedback, iterative approach
- Communicate feedback to stakeholders

Why User Test?

<u>Can</u> ,not will, people do what you hope they will do? E.g. can users find where to search for a video?

<u>How</u> will users think about your content? E.g. do they think journals mean articles?

Case Study: Homepage

```
Round 1
3 versions
Variables
Options on book search
Order/wording of the sections in
```

Bethel Libraries

My Library Accounts

Research

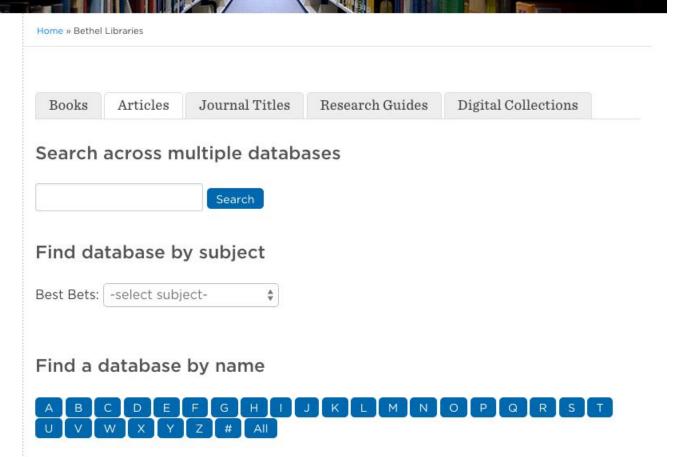
Services

About the Libraries

Libraries & Collections

News & Events

Get Help



Case Study: Homepage

How did it go?
Little difference in variables
Tabs required coaching to complete test

Case Study--Homepage

```
Round 2
Tabs
vs
single-page w/buttons
vs
single-page w/links
```

Home » Bethel Libraries My Library Accounts Quicklinks Summon | a new library search Research Reserve Study Room Services books, articles, videos & more RefWorks About the Research Guides Libraries search Renew Books Libraries & Interlibrary Loan Collections News & Events Hours Get Help Find Something Specific Today's Location books & eBooks scholarly articles theses Hours Bethel archives **Bethel University** music video journals 9am - 7p Library Seminary St. Paul 9am - 5p Library Seminary San Diego 10am -Research Databases Library 6pm JSTOR, CINAHL, ATLA Religion, Academic Search

...

Duamian

Case Study--Homepage

Results

Big difference between tabs vs. single-page Little diff. between single-page options

Take-aways

A lot of design is still up to you User testing is not small-bore Give away control of "hypothesis"

How Could User Testing Be Helpful

```
Case Study: FAQ and Chat
Problem: Low Use
Questions:
      How does our current design affect
usability?
   Do people see this part of page?
      What paths are people taking to get there?
      Why are some FAQs more successful?
```

LIBRARY SUPPORT

Self Help



Live Help



Start a Chat

Contact Us



Call, Text, or Email

Search Libraries Worldwide

- Search (nearly) all library catalogs using WorldCat.
- · Some libraries will not lend out their video material, but it is always worth a try.
- · Faculty can use the request video form, which lets you specify when you need to show it in class.

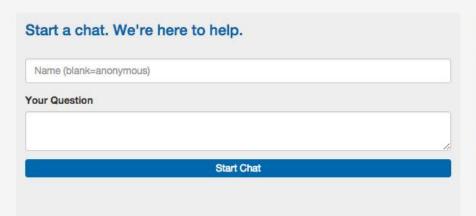
Search Now

Frequently Asked Questions

Does Bethel have a streaming video service?

How many DVDs can I check out at one time?

Contact Us





User Testing

What scenarios/questions uncover realistic interactions?

Try to stump someone?

Ask user to imagine needing help?

"Look at this page; tell me what you see?"

"Please find FAQ's and chat?"

Case Study: FAQ/Chat

Iterative Sampling
Use feedback from small samples
Test the test
Saturation?

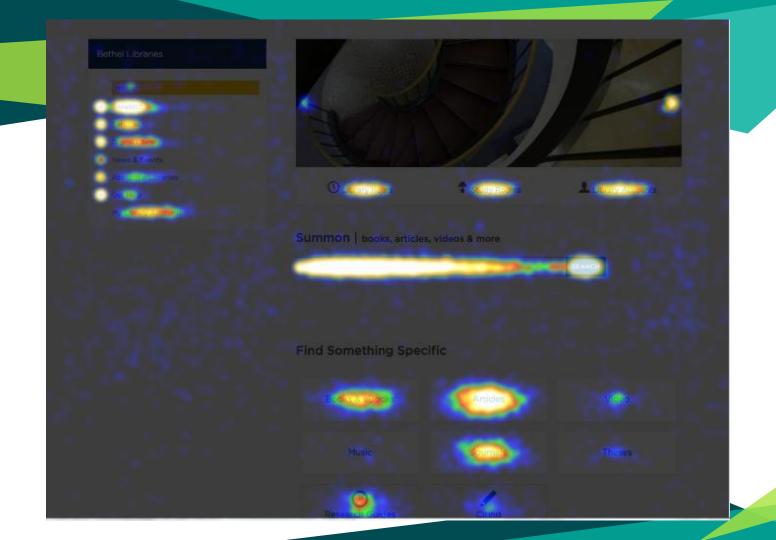
	Crazy Egg
Cost	
Customizations	
Cross-domain support	
Reports & Visualizations	
Ease of use	•
Setup difficulty	•

	Better
	Mixed
\circ	Worse -or- not supported

Good for:

Tracking interaction with specific pages (clicks & scrolling)

Visualizing data





	Crazy Egg
Cost	
Customizations	
Cross-domain support	
Reports & Visualizations	
Ease of use	•
Setup difficulty	•

	Better
	Mixed
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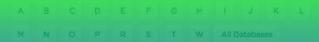
Currently using it for:

Tracking LibAnswers on library homepage
Do people scroll down far enough to see "Help"?
Are LibAnswers getting clicked on?



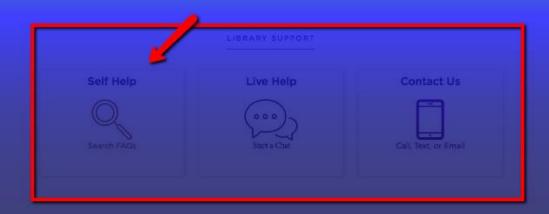
STORE CINARILI ATEA Religion, ERSCO MenGERIC.

by name



by subject

Best Bets: -select subject-





Click trackers: Crazy Egg

Potential future use:

Tracking LibAnwsers embedded in pages

	Google Analytics	
Cost		
Customization		
Cross-domain support		
Reports & Visualizations		
Ease of use	0	
Setup difficulty	0	

	Better
•	Mixed
0	Worse -or- not supported

Google Analytics: why use it?

Helps Establish:

1. What does normal site usage look like?

Example data points:

- pageviews
- landing pages
- exit pages
- mobile vs. pc traffic
- new vs. returning users
- location of users
- referral pages

Google Analytics: why use it?

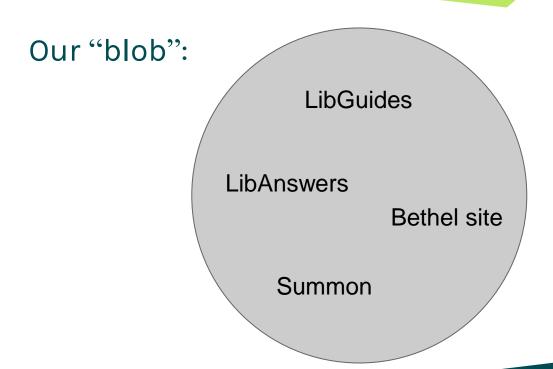
Helps Establish:

- 1. What does normal site usage look like?
- 2. How does traffic flow through your site? i.e., do people actually get places the way you anticipated?
- 3. Are specific goals being reached?
 i.e. are users reaching ___ page in 3 or fewer clicks?

	Google Analytics	
Cost		
Customization		
Cross-domain support		
Reports & Visualizations		
Ease of use	0	
Setup difficulty	0	

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Google Analytics - Cross-domain tracking



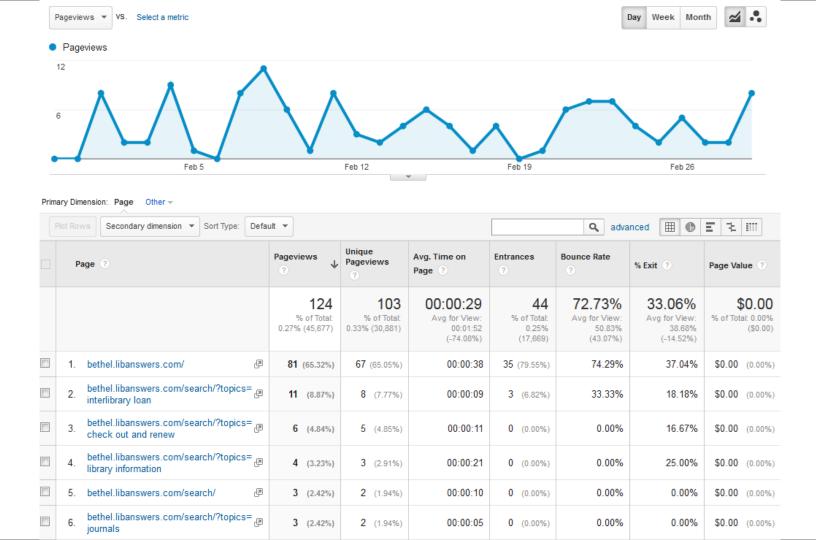
	Google Analytics	
Cost		
Customization		
Cross-domain support		
Reports & Visualizations		
Ease of use	0	
Setup difficulty	0	

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0	Worse -or- not supported

Currently using it for:

- Deciding where some new content will live
- St. Paul vs. San Diego behavior
- Assessing LibAnswers usage?





	Vendor Data
Cost	
Visualizations	
Cross-domain support	
Easy of use	•
Setup Difficulty	

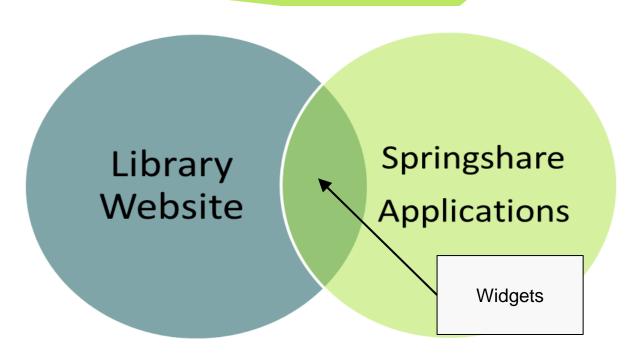
Better
Mixed
Worse -or- not supported

Advantages:

- Little set-up required
- Canned reports are ready for analysis

Disadvantages:

- Prescribed content
- Siloed



Question	Owner	Created
How can I find theses or dissertations to read online for free? Topics: Theses and Dissertations	Betsy Dadabo	Feb 01 12, 16:45
How do I request a book from a cooperating library (CLIC/CLICnet)? Topics: Books Interlibrary Loan	Lyndi Finifrock Fabbrini	Feb 23 10, 12:11
How can I renew an interlibrary loan item? Topics: Interlibrary Loan	Lyndi Finifrock Fabbrini	Mar 31 15, 17:21
How do I get an article that's NOT available through Bethel? Topics: Articles Interlibrary Loan	Betsy Dadabo	Feb 23 10, 12:05
How do I find a book in the library? Topics: Books	Lyndi Finifrock Fabbrini	Feb 23 10, 12:16
How can I get to the full text of an article? Topics: Articles Databases	Scott Kaihoi	Feb 23 10, 12:00
How do I request a book from libraries worldwide (WorldCat)? Topics: Books Interlibrary Loan	Lyndi Finifrock Fabbrini	May 15 14, 14:48
internibrary coan		

Interlibrary loan can seem complicated. Get an overview of Interlibrary loan or see our frequently asked questions below.

Use your account right now: Login to interlibrary loan

Don't have one yet? Find out how to create an account.

Overview of Interlibrary Loan (ILL)

Interlibrary loan simply means borrowing materials from other libraries outside of Bethel. Usually, this means you send a request for the item to the Bethel library you use, we find another library that has it, they send it to us, and we pass it along to you for check-out. You may even be eligible to have it mailed to you. It may come from our local consortium, CLIC, or from anywhere in the world.

If it's an article you're after, Bethel libraries have millions you can access online in one of our databases. Sometimes you'll find an article title in one database, but the document (a.k.a. full-text) is really available in another database. The database with just the article title will have a link to search Bethel Libraries for the article's full-text in another database. If that doesn't work, you'll have the option to request the article. And that request will be for, you guessed it, an interlibrary loan.

Information for libraries borrowing from Bethel

Frequently Asked Questions

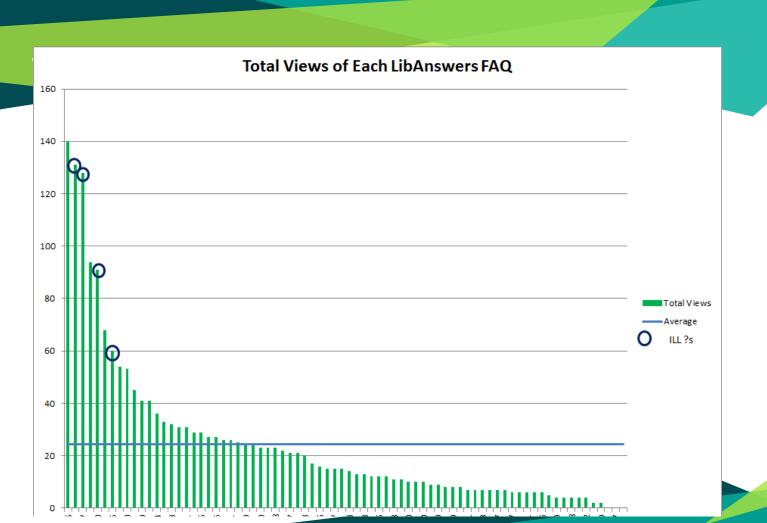
How do request a book from a cooperating library (CLIC/CLICnet)?

How can I renew an interlibrary loan item?

How do I get an article that's NOT available through Bethel?

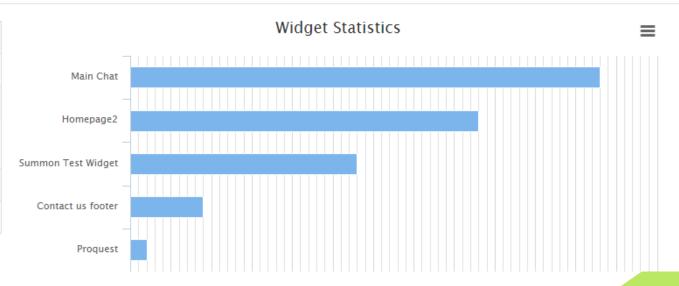
How do I request a book from libraries worldwide (WorldCat)?

What is CLIC/CLICnet?



Widget Statistics (which widget chat started from)

Widget	Count	%
Main Chat	58	41%
Homepage2	43	31%
Summon Test Widget	28	20%
Contact us footer	9	6%
Proquest	2	1%

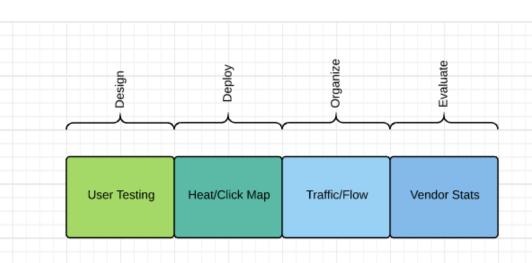


- How effectively are products/widgets incorporated into our web presence?
- Can the lessons from successful widgets be built upon elsewhere?

Big Picture

User Testing
Heat Maps & Click Maps
Crazy Egg
Traffic, trails, goals
Google Analytics
Product Usage

Vendor Stats



Case Study Wrap

If we know:

- Our users can understand, use, want to use
- Our users find the content
- How our users find the content
- Which content is used, from where

We have put the pieces together.

Attribution

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Resources

Free Silverback (2.0) User Testing Software - https://silverbackapp.com/

Crazy Egg - www.crazyegg.com

Google Analytics Support - https://support.google.com/analytics/

Google Developers - Google Analytics - https://developers.google.com/analytics/devguides

Springshare Lounge: http://springsharelounge.com/

Bibliography

Barba, I., Cassidy, R., De Leon, E., & Williams, B. J. (2013). Web Analytics Reveal User Behavior: TTU Libraries' Experience with Google Analytics. *Journal Of Web Librarianship*, 7(4), 389-400. doi:10.1080/19322909.2013.828991

Fagan, J. C. (2014). The Suitability of Web Analytics Key Performance Indicators in the Academic Library Environment. *Journal Of Academic Librarianship*, *40*(1), 25-34. doi:10.1016/j.acalib.2013.06.005

Farkas, M. G., Hinchliffe, L. J., & Houk, A. H. (2015). Bridges and barriers: Factors influencing a culture of assessment in academic libraries. *College & Research Libraries*, *76*(2), 150-169. doi: 10.5860/crl.76.2.150

Farney, T. A. (2011). Click Analytics: Visualizing Website Use Data. *Information Technology & Libraries*, *30*(3), 141-148.

Bibliography (contd.)

Farney, Tabatha, & McHale, Nina. (May/June 2013). Maximizing Google Analytics: Six High-Impact Practices. *Library Technology Reports* 49(4), 5-42.

Hiller, S., Kyrillidou, M., & Self, J. (2008). When the evidence is not enough: Organizational factors that influence effective and successful library assessment. *Performance Measurement and Metrics*, *9*(3), 223-230.

Koufogiannakis, D. (2015). Determinants of evidence use in academic librarian decision making. *College & Research Libraries*, *76*(1), 100-114. doi:10.5860/crl.76.1.100

Lakos, A., & Phipps, S. (2004). Creating a culture of assessment: A catalyst for organizational change. *portal: Libraries and the Academy, 4*(3) 346-361. doi: 10.1353/pla.2004.0052

Yang, L., & Perrin, J. M. (2014). Tutorials on Google Analytics: How to Craft a Web Analytics Report for a Library Web Site. *Journal Of Web Librarianship*, 8(4), 404-417. doi:10.1080/19322909.2014.944296