

Search Engine Optimization for Libraries

Day - 2

"We cannot call a digital-library or electronic publishing system a success if we cannot measure and interpret its use."

- Peterson Bishop 1998



"Getting Found" Research Team









Scott Young Digital Initiatives Librarian at Montana State University

- Jason Clark
 Head of Library Informatics & Computing at Montana State University Library
- Patrick OBrien
 Semantic Web Research Director at Montana State University Library
- Kenning Arlitsch

Dean of the Library at Montana State University. His book, co-authored with Patrick OBrien, is titled Improving the Visibility and Use of Digital Repositories through SEO, and was published in February 2013.





"Getting Found: Search Engine Optimization for Digital Repositories"

- IMLS 3 Year Research Grant



Homework

Traditional SEO

SEO Course Moodle instance

http://www.classes.ala.org/course/view.php?id=537



Recommendations & Priorities

1. Institutionalize SEO

- Strategic Plan
- Accurate Measurement Tools

2. Traditional SEO

- Get Indexed = Index Ratio
- Get Visible = Search Engine Results Page (SERP)

3. Semantic SEO

- Get Relevant = Click Through Ratios (CTR)
- Metadata
- Linked Open Data (LOD)
- Schema.org

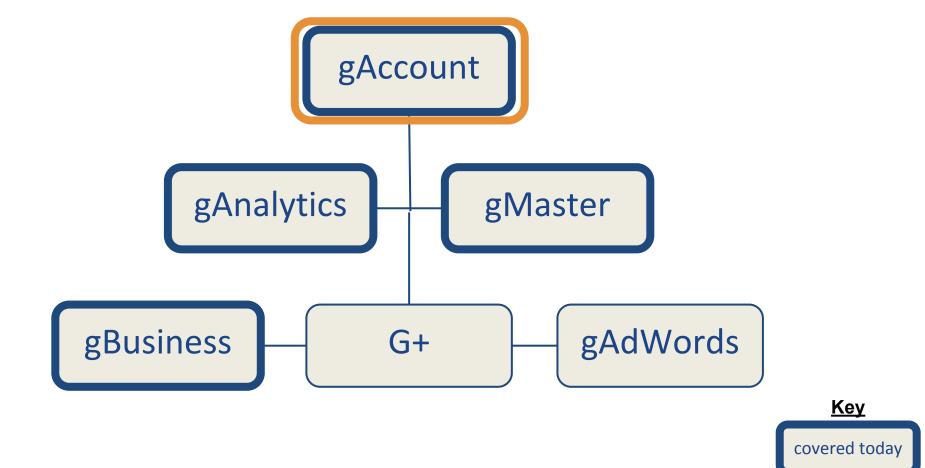


Recommended Process Measurement & Evaluation

- 1. Single Google Account for your Institution
- 2. Establish baseline metrics
 - Google Analytics (gAnalytics)
 - Google Webmaster Tools (gMaster)
- 3. Activate Google Services
 - Google MyBusiness (gBusiness)
 - Google+ (G+)
 - Google AdWords (gAdWords)



Google Platform



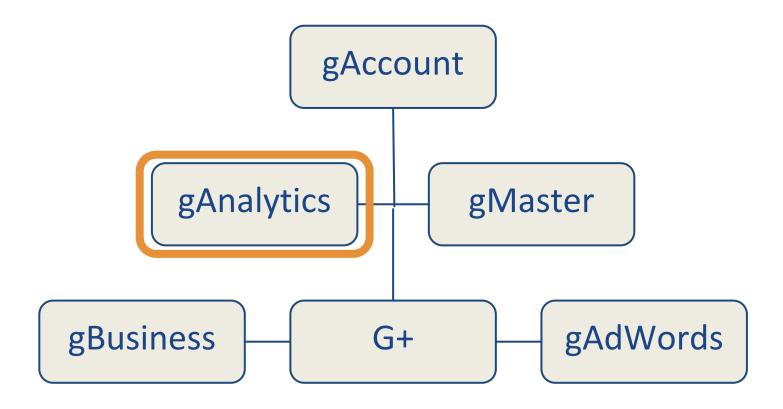


Recommendations for Institutional gAccount

- Name: founder / building name
 - Roland Renne
- UserName: unique & easy to remember
 - msu.renne.seo@gmail.com
- Password: <u>considerations</u>
 - Strong & <u>Two Step Authentication</u>
 - Recovery Email & Text
 - different Admin or an internal email list
- Birthday: easy to remember ideas
 - 18+ years old
 - Last Renovation, Addition, etc.

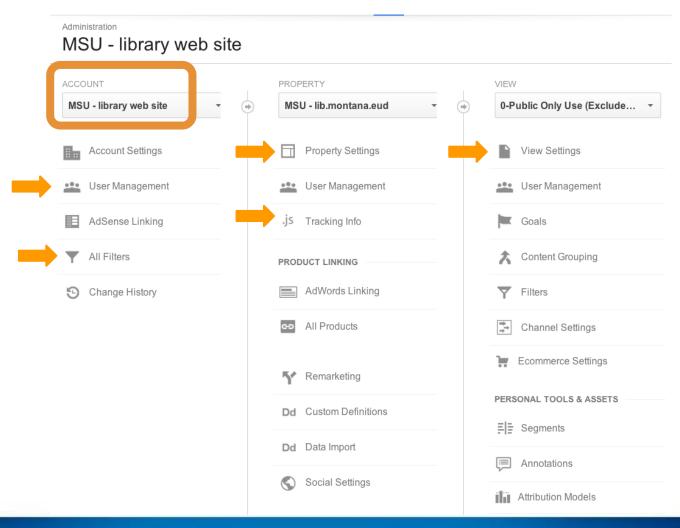


Google Platform



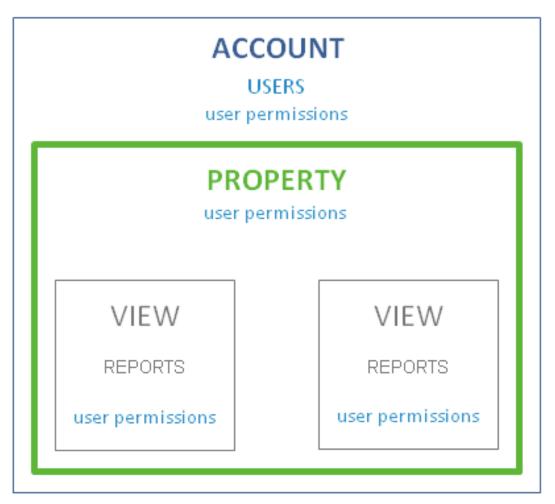


gAnalytics Key Admin Areas





gAnalytics Key Concepts



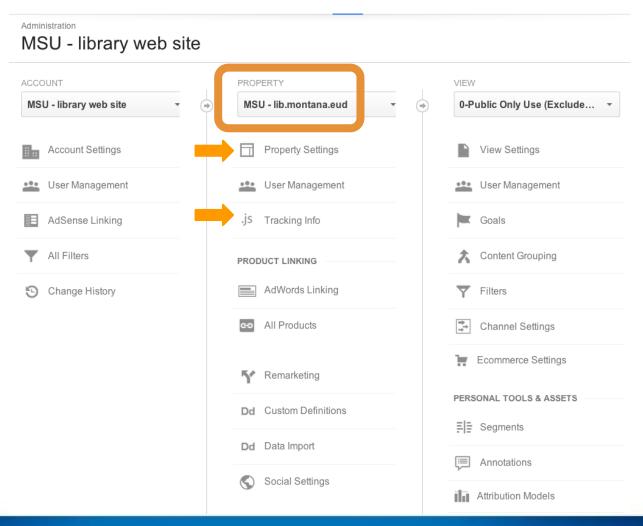
- Add Users to an Account
- Users get permissions
 - Account
 - Property
 - View
- Permissions flow down Account -> View

Account Filters Include or Exclude User Activity

- Key Points
 - Built at Account level
 - Applied at the View level
 - Once applied the data can not be recovered
- Recomended
 - Exclude Library Staff IP Address
- Suggested
 - Campus vs Non-Campus Access via IP



Google Analytics Key Areas





Property groups information

- Usually created for each domain
 - www.lib.montana.edu
 - arc.lib.montana.edu
 - scholarworks.montana.edu
- Best-practice
 - Don't use the www.
 - lib.montana.edu aggergates
 - www.lib.montana.edu
 - arc.lib.montana.edu
 - guides.lib.montana.edu



Property Settings

- Industry Category = Reference
- After gAnalytics Implemented
 - Activate Webmaster Tools site
 - Consider "enhanced link attribution" for <u>event</u> <u>tracking</u> of non-HTML downloads
- Privacy Issues Do NOT Use
 - Enable Demographics and Interest Reports



.js Tracking Info

- Upgrade to <u>Universal Analytics</u>
 - ga.js = legacy gAnalytics
 - analytics.js = Universal Analytics
- Improve Privacy
 - Add <u>IP Anonymization</u>
- Privacy Issues Do NOT Use
 - User-ID



Universal Analytics js. Tracking code

```
<script>
```

```
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=l*new Date();a=s.createElement(o),
  m=s.getElementsByTagName(o)[0];a.async=l;a.src=g;m.parentNode.insertBefore(a,m)
})(window,document,'script','//www.google-analytics.com/analytics.js','ga');
```

```
ga('create', 'UA-XXXX-Y', 'auto'); // Creates a tracker.

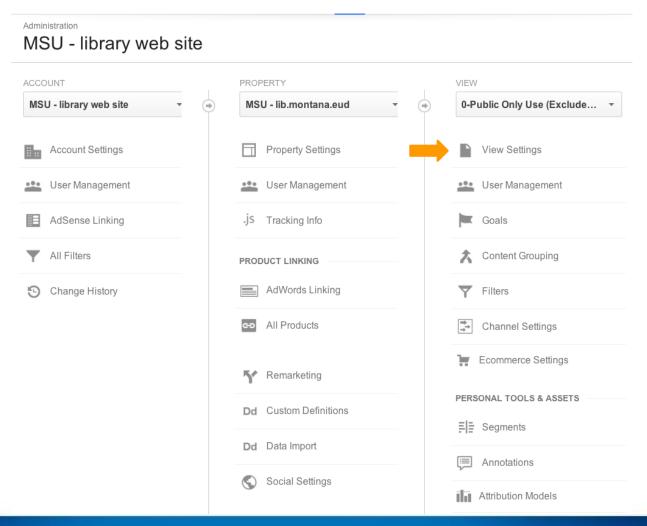
ga('set', 'anonymizeIp', true);
ga('send', 'pageview'); // Sends a pageview.

</script>
</head>
```



<body>

Google Analytics Key Areas





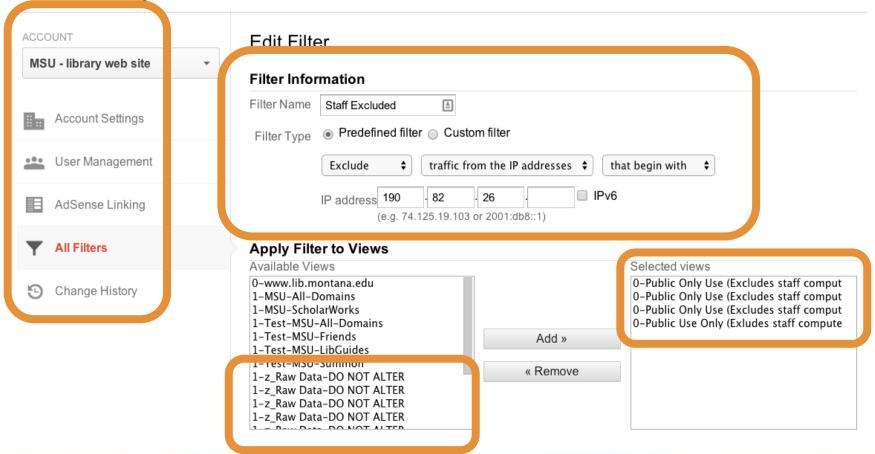
Views are applied to a **Property**

- Best-practice
 - Create 2 Views for each Property
 - Raw Data no filters Admin Access Only
 - Public Only Use (Excludes staff computers)
 - Site search Tracking = On
- 0-Public Only Use (Excludes staff computers)
 - Apply "Exclue Staff IP Filter" to View



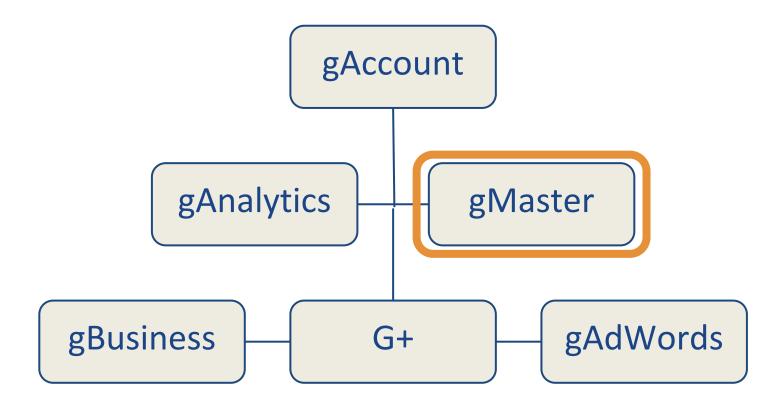
Administration > Global Filters > Edit Filter

MSU - library web site





Google Platform





Above All: Focus on user experience

- Descriptive Page Titles, anchor text, descriptions, etc.
- External linking
- Easy & Intuitive Site Navigation
- Submit sitemaps/configure robots.txt file
- Monitor & address errors
- Inform staff & assign ownership
- Upgrade repository software
- Optimize web server performance

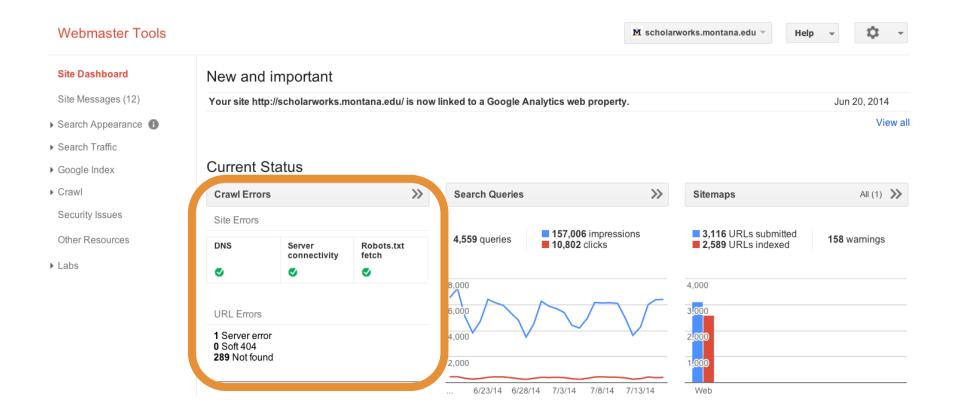


gMaster

- Activate gMaster via gAnalytics Verification
- Add / remove users to the gMaster account
- Focus on
 - Eliminating Crawl Errors
 - Improving Crawler Efficiency



gMaster Dashboard



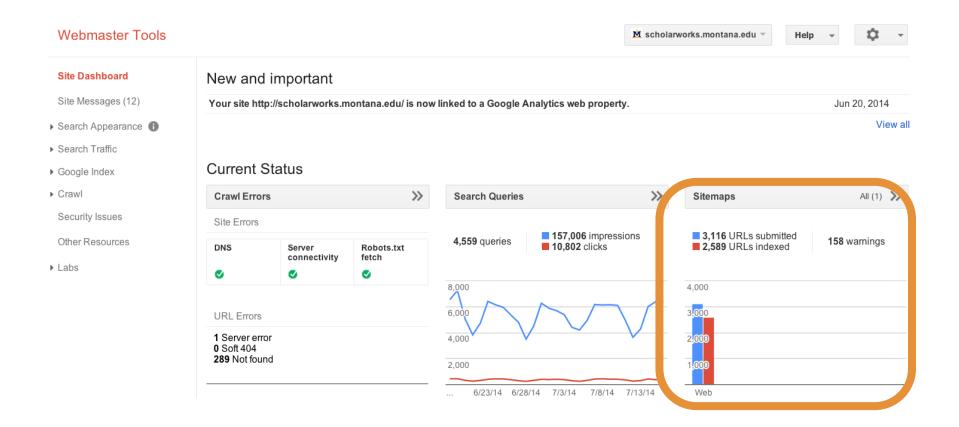


Eliminate Crawl Errors

- Server Errors
 - See <u>HTTP 5XX</u>
- Page Not found
 - HTTP 404
 - Provide a <u>useful 404 Page</u>
 - Use 301 Redirects
- * Soft 404



gMaster Dashboard



Does your Index Status Make Sense?

Site Dashboard

Site Messages (12)

- ▶ Search Traffic
- ▼ Google Index

Index Status

Content Keywords Remove URLs

Crawl

Security Issues

Other Resources

▶ Labs





Sitemaps Provide Inclusion Guidance

- Link a human readable HTML sitemap from homepage
- Implement machine-readable XML file(s) to provide SE content inclusion direction
 - "sitemapindex"
 - "sitemap" file(s)
- "Google adheres to Sitemap Protocol 0.9 as defined by sitemaps.org."

Robots.txt provide crawlers guidance to reduce Index "noise"

- Text file at top level / root of web site
- Provides SE exclusion guidance
- Test your robots.txt file

```
Disallow: /staff/
#allow primary mobile page
Allow: /finding-aids/m/index.php
Allow: /finding-aids/m/$
```



Canonicalization & HTML directive markup helps reduce duplicate content

- HTML <head> tags
 - Reduce duplication

```
<link rel="canonical" href="http://arc.lib.montana.
edu/finding-aids/item/23" />
```

Page Level Crawler Guidance

```
<meta name="robots" content="nofollow,noindex" />
```

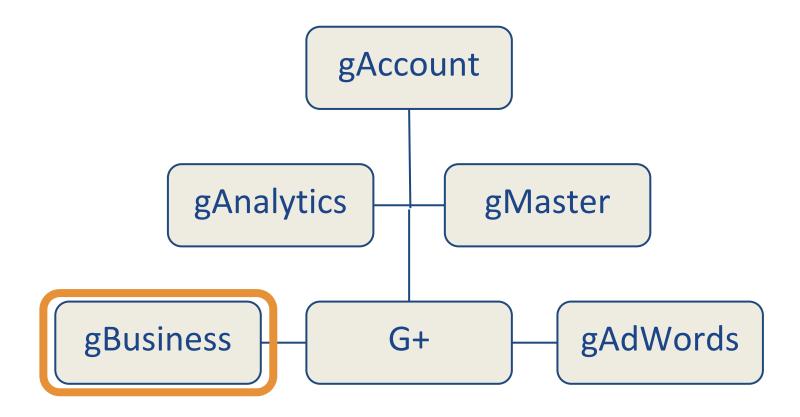
- HTML <body> tags
 - Improve Crawler Efficiency

```
<a rel="nofollow" href="http://www..lib.montana.
edu/login.html">User Login
```





Google Platform





One way of getting to gBusiness

Webmaster Tools

Site Dashboard Site Messages (12) Search Appearance Search Traffic Google Index Crawl Security Issues Other Resources Labs

Other resources Structured Data Testing Use the Structured Dat Tool Structured Data Markup Not sure how to start w Helper **Email Markup Tester** Validate the structured 97% of consumers sea Google Places platform from Google. Google Merchant Center The place to upload yo PageSpeed Insights Use PageSpeed Insigh Custom Search Harness the power of C

<u>A.K.A.</u>

- Google Business
- Google MyBusiness

Claim, consolidate and standardize listings

1. Create list for all variations

- a. Name of library
- b. Name of library building
- c. All library phone numbers

2. Search

- a. gMaps
- b. gBusiness
- c. G+

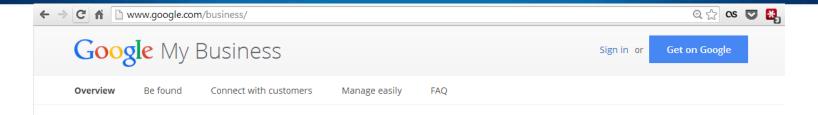
Claim, consolidate and standardize listings

- 3. Login gBusiness
 - a. Use Institutional gAccount
 - b. Claim ownership every variation found
- 4. Review each gBusiness listing
 - a. Find G+ "pre-approved custom URL"
 - b. Consolidate under gBusiness w/ "preapproved custom URL"



5. Complete and standardize consolidated gBusiness and G+ profiles

- a. Name
- b. Address
- c. Phone Number(s)



Get your business on Google for free

New – Google My Business connects you directly with customers, whether they're looking for you on Search, Maps or Google+.

Get on Google

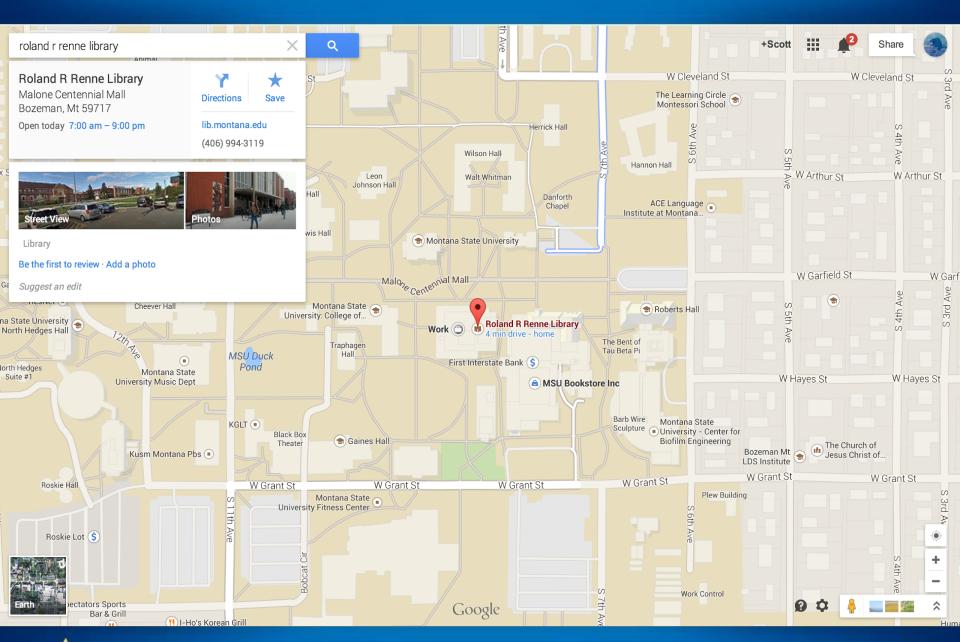


Show up across Google

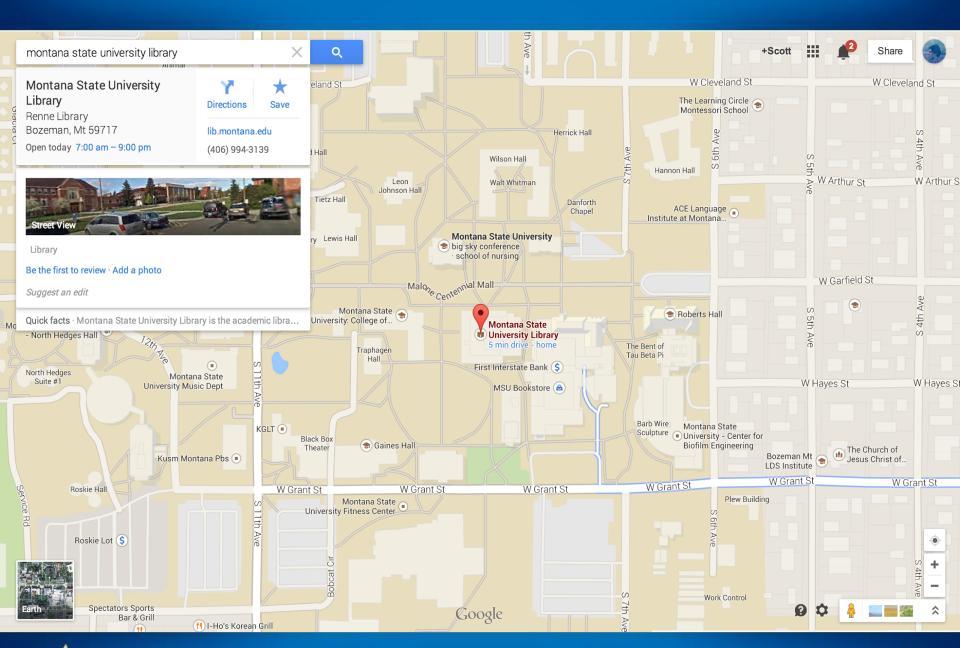
Give customers the right info

Build lasting relationships

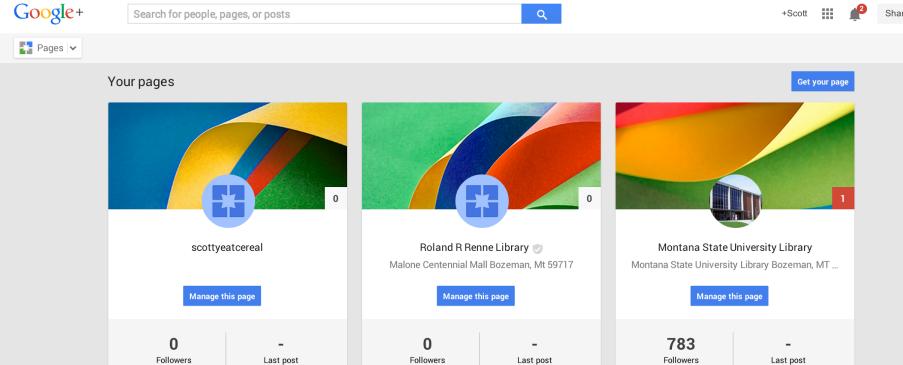
















Search for people, pages, or posts



msulibrary.all@gmail.com -



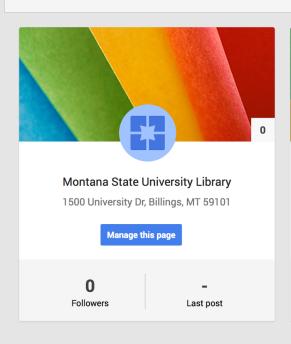
Pages 🗸

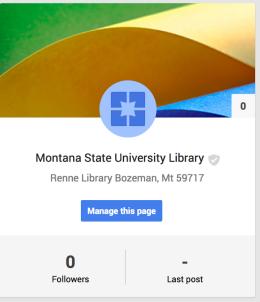


Get your page

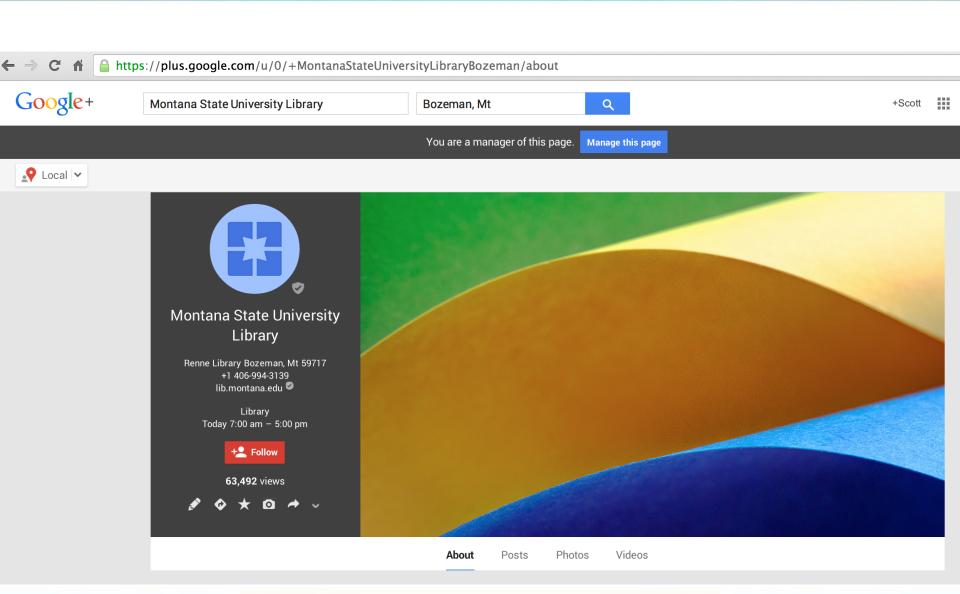
Create a personal Google+ profile to get the full Google+ experience.

Create profile

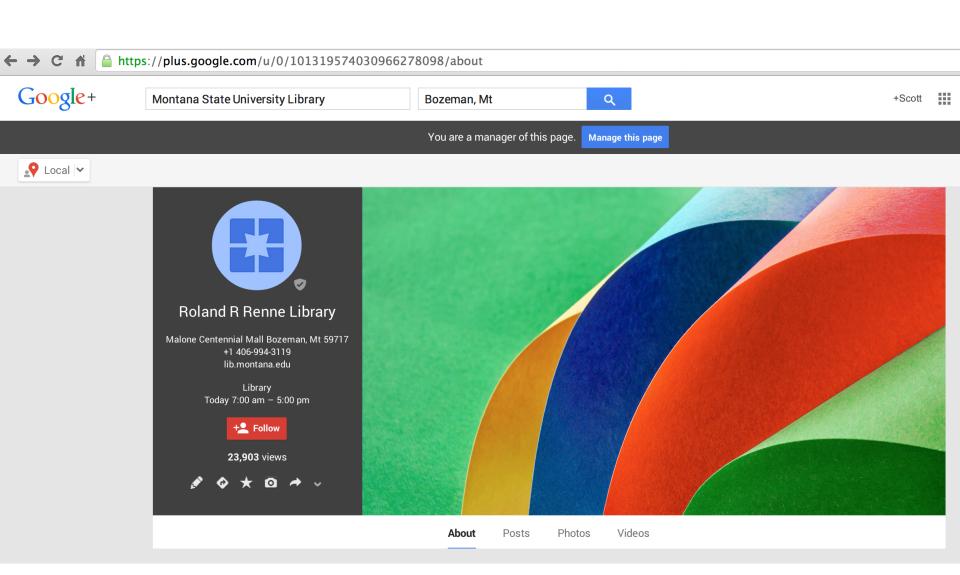






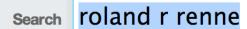








entity



\$ /common/topic Constrain results by type... any → | ✓ Prefixed **Options:** Scoring

Search Results



Montana State University Library /m/0j3y9r1

Land-grant university, Employer, Educational Institution, Organization, Location

alias: MSU Library, Renne Library

Montana State University Library is the academic library of Montana State University, Montana's land-grant university, in Bozeman, Montana, United States. It is the flagship library for all of Montana State University System's campuses. In 1978, the... [Wikipedia]

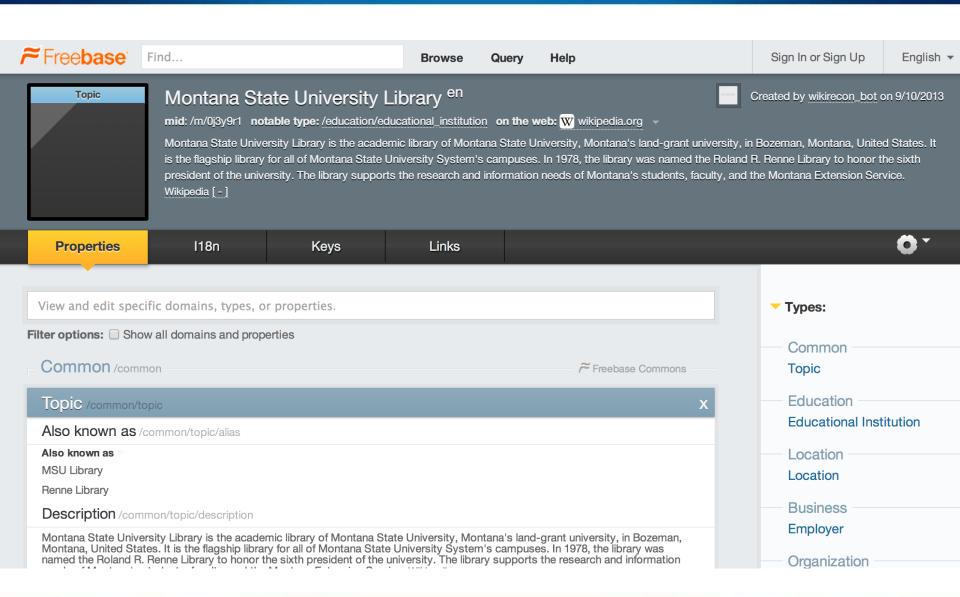


Roland Renne /m/0b76719

Deceased Person, Person

Roland R. Renne, an Agricultural Economics Professor, served as President of Montana State College from 1943-1964. Dr. Renne was also active in Washington D.C. and United States overseas agricultural economics work. He was the 1964 Democratic... [Wikipedia]









roland r renne library wiki



Q

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About 1,860 results (0.38 seconds)

Roland Renne - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Roland_Renne ▼ Wikipedia ▼

Roland R. Renne (1905–1989), an Agricultural Economics Professor, served as College, the Montana State University named Renne **Library** in his memory.

Montana State University Library - Wikipedia, the free ...
en.wikipedia.org/wiki/Montana_State_University_Library ▼ Wikipedia ▼
It is the flagship library for all of Montana State University System's campuses. In 1978, the library was named the Roland R. Renne Library to honor the sixth ...

Montana State University - Wikipedia, the free encyclopedia en.wikipedia.org/wiki/Montana_State_University ▼ Wikipedia ▼ These included the 1949 Library Building (now Renne Library), the campus' first dedicated University College; College of Graduate Studies; Roland R. Renne Library ... Center for Biofilm Engineering; Center for Bio-Inspired Nanomaterials ... You've visited this page 5 times. Last visit: 7/16/14



msu library



Q

+Scott



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About 3,790,000 results (0.20 seconds)

MSU Libraries

www.lib.msu.edu/ Michigan State University Libraries Research collections include Africana, fine arts, government documents and international studies, labor and industrial relations, agricultural economics, ...

Electronic Resources

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Library Hours. Be sure to check out the MSU Libraries' Event ...

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Problems? Your Library Account – Frequently Asked Questions ...

More results from msu.edu »

Catalog

Example : california near university. Field limits, A field ... Check ...

Find Books

What Can I Find in the Library Catalog? Books and e-books ...

Resources

Resources. This section contains links to Michigan State ...

Montana State University MSU Library

www.lib.montana.edu/ ▼ Montana State University Library ▼ Montana State University (MSU) Library is here to help students, faculty, and the people of Montana with their quest for information and research.

See results about

Montana State University Library

Montana State University Library is the academic library of Montana State University, Montana's land-...

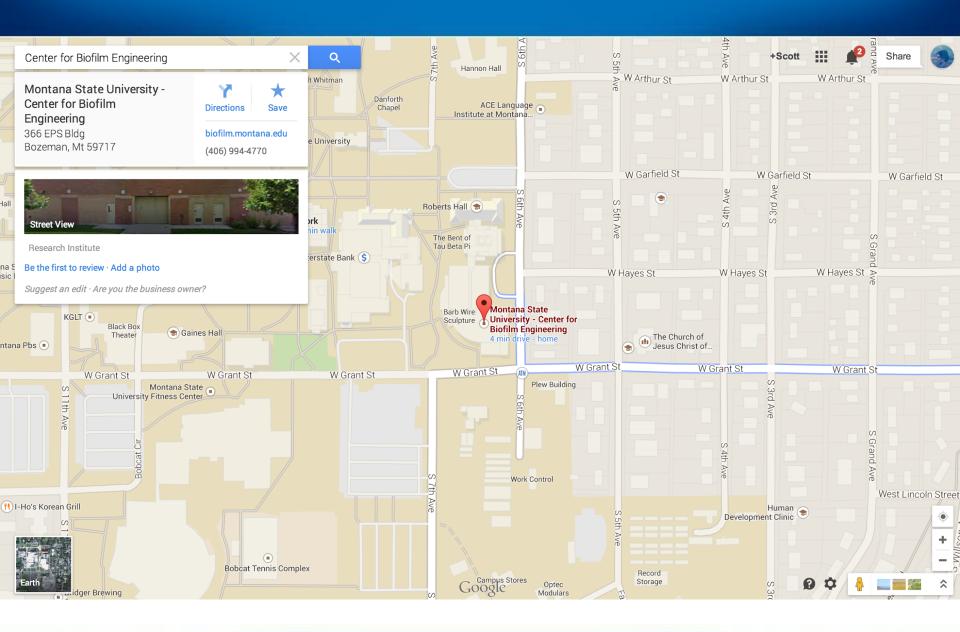


Michigan State University Libraries (Public Library)

Michigan State University Libraries comprise the 29th largest academic library system in North America ...

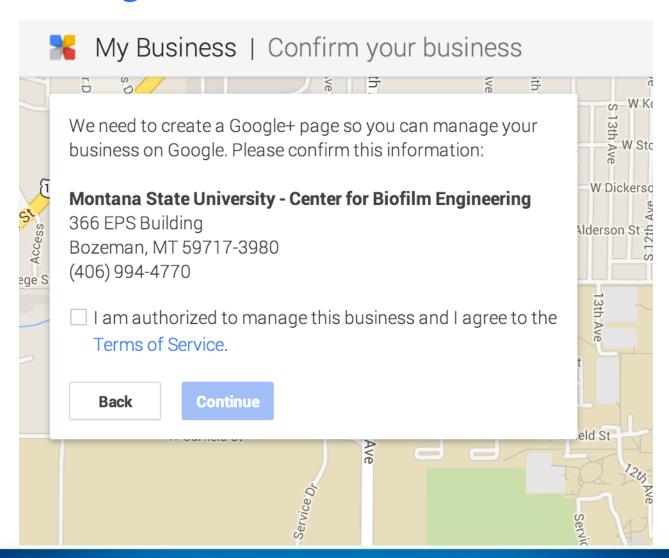
Feedback







Google





Homework

Institutional Setup & Identity

https://docs.google.com/document/d/1HWVOkPn9UJXLeY3CV14cEPQKQtvgh6y

SEO Course Moodle instance

http://www.classes.ala.org/course/view.php?id=537



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