## Google Analytics 101

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## What will be covered today

- Should I use Google Analytics?
  - Yes!

What are some things I can do with Google Analytics?

# Google Analytics at The Graduate School

#### My experience:

- I started using Google Analytics in 2007
- Only one user
- Various hurdles in achieving desired configuration
- Regularly tweaking strategy/configuration

#### Show of hands:

Regular users?

Have it installed, but rarely or never check?

Don't even know where to begin?

WordPress? Other platform?

## What questions can analytics answer?

• What.....?

· Which....?

• Where....?

How many....?

## What questions can analytics answer?

- How many people are visiting our website?
- Which pages on the website are the most popular?
- What content should have more prominence on the site?
- Which of two design alternatives has better results?
- What is the best time of day for website outages?

## What questions can analytics answer?

- Which browser/operating systems/mobile devices should be supported?
- How many visitors are international and what language do they speak?
- How many website visitors are using mobile devices?
- What other websites send traffic to our website?
- Which pages are the slowest to load and how can I speed them up?

## What else can analytics do?

- Report 404 pages and broken internal and external links
- Report user's search terms (internal and external)
- Track custom goal completions
- Measure campaign performance
- Generate and send automatic reports to your boss

# What questions can analytics *not* answer?

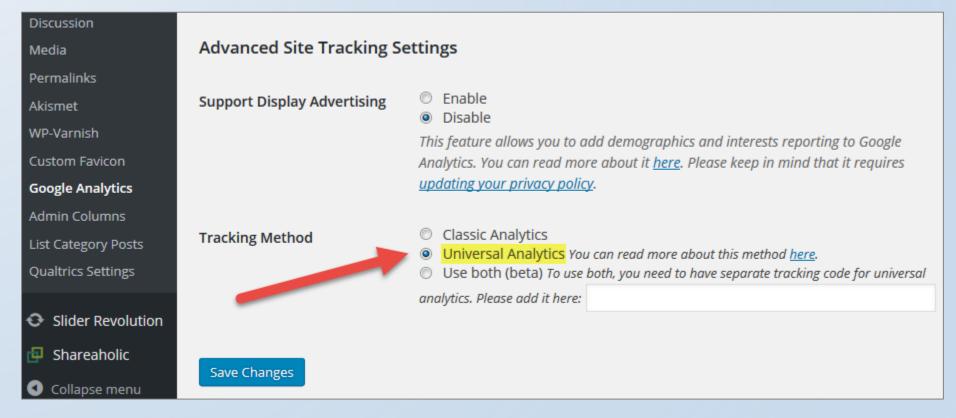
- Why.....?
- · GA cannot provide precise data on every visitor
  - Noscript/js turned off
  - Cookies get deleted
  - Best for trends, not exact numbers
- Problems with usability or poor content
- GA is one source of data, but other methods may be more appropriate to directly answer these questions (user observations, usability testing, surveys, etc).

## Installing Google Analytics

- · Tied to an individual's Google account
  - Make sure you have planned for long-term management of the account
  - Can grant edit or view permissions to other users
- Install using WordPress or insert directly into head of HTML pages
- Alternative: Use Google Tag Manager
- Google Tag Assistant (chrome extension) can help debug installation

## Installing Google Analytics

 Make sure you are using Universal Analytics (analytics.js), not Classic Analytics (ga.js)



## What does Google Analytics look like?

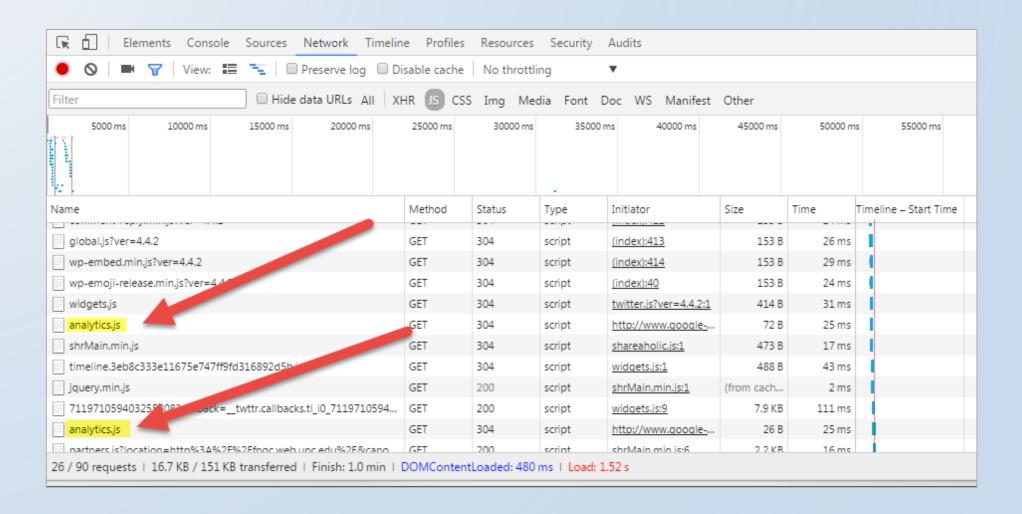
```
<script>
  (function(i, s, o, g, r, a, m) {i ['GoogleAnalyticsObject']=r; i [r]=i [r] ||function() {
   (i[r].q=i[r].q||[]).push(arguments)}, i[r].l=1*new Date(); a=s. createElement(o),
   m=s. getElementsByTagName(o)[0]; a. async=1; a. src=g; m. parentNode. i nsertBefore(a, m)
}) (window, document, 'script', '//www. google-analytics.com/analytics.js', 'ga');

ga('create', 'UA-xxxxxxxx-1', 'auto');
ga('send', 'pageview');
</script>
```

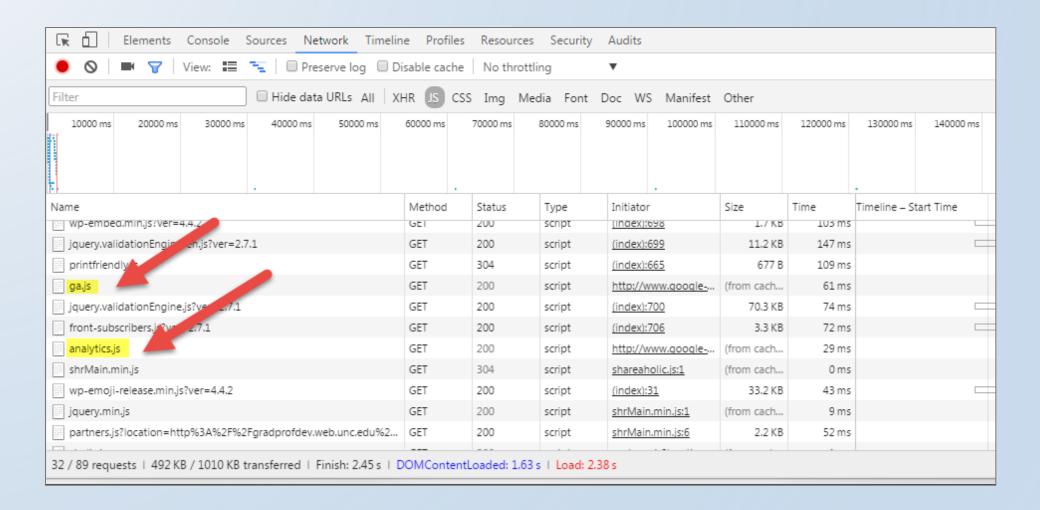
## Is Google Analytics already installed?

- Open browser developer tools
   [CTRL + SHIFT + I] or [COMMAND + OPTION+ I]
- Go to Network tab and refresh page
- Look for analytics.js or ga.js
- · If you see a ga.js, you should update your settings

## Is Google Analytics Installed?

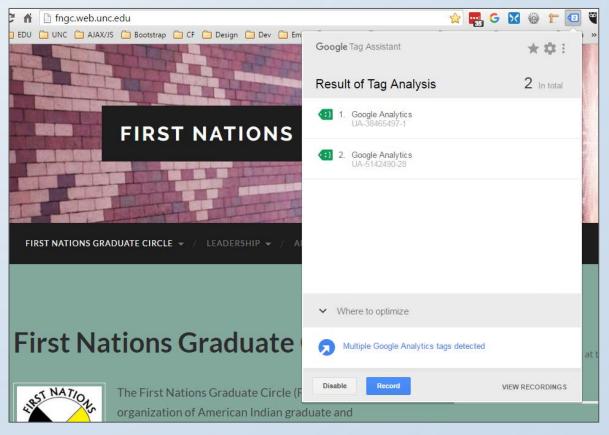


## Is Google Analytics Installed?



# Google Tag Assistant (chrome extension)

· Chrome extension that helps debug you tracking code



## Is Google Analytics Installed?

If your site is part of sites.unc.edu or web.unc.edu, you might see two tracking codes:

- 1. Tracking code for entire network
  - UA-5142490-28 (web.unc.edu)
  - UA-32420241-1 (sites.unc.edu)
- 2. Tracking code for just your site (if installed)

## Setup analytics account

Account → Property → View

- Views
  - Views changes are permanent, duplicate view before changing
    - One master view with all data
    - One with internal users filtered out
    - · Any other ways you want to break out data

## Campaign Tagging

#### Trace the actual source of "Direct Traffic"

► Mobile  ► Custom			Acquisition			Behavior		
▶ Benchmarking Users Flow		Source / Medium ?	Sessions ? ↓	% New Sessions	New Users ?	Bounce Rate	Pages / Session	Avg. Session Duration
Acquisition Overview			61,832 % of Total: 100.00% (61,832)	62.15% Avg for View: 62.08% (0.11%)	38,427 % of Total: 100.11% (38,386)	57.02% Avg for View: 57.02% (0.00%)	2.12 Avg for View: 2.12 (0.00%)	00:01:41 Avg for View: 00:01:41 (0.00%)
▼ All Traffic		1. google / organic	29,886 (48.33%)	64.83%	19,374 (50.42%)	64.10%	1.90	00:01:27
Channels  Treemaps	V	2. unc.edu / referral	11,795 (19.08%)	65.65%	7,743 (20.15%)	26.83%	2.97	00:02:15
Source/Medium		3. (direct) / (none)	6,982 (11.29%)	64.27%	4,487 (11.68%)	68.65%	1.81	00:01:44
Referrals		admissions.unc.edu / referral	1,820 (2.94%)	68.30%	1,243 (3.23%)	43.68%	2.58	00:01:32
▶ AdWords		5. bing / organic	1,504 (2.43%)	74.00%	1,113 (2.90%)	65.62%	1.81	00:01:14
➤ Search Engine Optimization		6. yahoo / organic	881 (1.42%)	74.23%	654 (1.70%)	69.35%	1.79	00:01:31
▶ Social		7. sph.unc.edu / referral	775 (1.25%)	39.35%	305 (0.79%)	56.39%	2.34	00:01:51
▶ Campaigns		8. stat-or.unc.edu / referral	729 (1.18%)	25.10%	183 (0.48%)	70.37%	1.65	00:01:28

#### What is "Direct Traffic"?

- Typed URL into browser
- Bookmarks
- Links in PDF or Word Doc
- Links in desktop email programs
- Links from mobile social media apps
- Some URL shorteners
- HTTP to HTTPS links

#### Google Analytics URL Tagging

Create a URL with special tags for tracking purposes:

- Campaign Source
- Campaign Medium
- Campaign Name

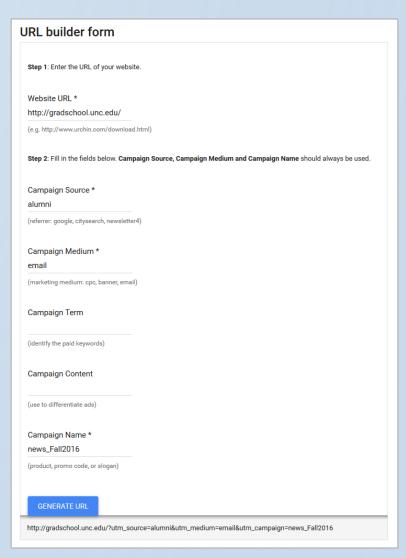
## Campaigns: URLs

```
http://gradschool.unc.edu/?
utm_source=alumni&
utm_medium=email&
utm_campaign=news_fall16
```

http://gradschool.unc.edu/? utm\_source=medschoolupdate& utm\_medium=twitter& utm\_campaign=socialmediaeffort

## Campaigns: <u>URL Builder</u>

Tool: URL Builder		
Google Analytics URL B	uilder	
Use this tool to create UR Generate URL button bel	100	paigns. Fill in the form information and click the
Step 1: Enter the URL of	your website.	
Website URL: * h	ttp://gradschool.unc.edu	u/
(e	.g. http://www.urd	chin.com/download.html)
Step 2: Fill in the fields be always be used.  Campaign Source: *	alumni	e, Campaign Medium and Campaign Name should  (referrer: google, citysearch, newsletter4)
Campaign Medium: *	email	(marketing medium: cpc, banner, email)
	eman	
Campaign Term:		(identify the paid keywords)
Campaign Content:		(use to differentiate ads)
Campaign Name*:	news_fall11	(product, promo code, or slogan)
Step 3 Generate URL Clea	ne.	
http://gradschool.unc.ed	du/?utm_source=alumni	&utm_medium=email&utm_c



#### Use URL shortener or 301 redirection

http://gradschool.unc.edu/?utm\_source=alumni&utm\_medium=email&utm\_campaign=news\_fall16



http://go.unc.edu/Ps79N

Use this shortcut link in communications/social media/print advertising

#### Use embedded link

http://gradschool.unc.edu/?utm\_source=alumni&utm\_medium=email&utm\_campaign=news\_fall16



This is a link in social media or HTML email

Marketing/communications/advertising strategies

Case study: Measure and compare effectiveness of communication methods for academic program

#### Communication efforts:

- Marketing emails
- Paid advertising on Google and LinkedIn
- Display ads on CH-Transit and on campus digital display screens

#### Measure effectiveness of campaigns/communications

٠						
	Medium	Sessions	Pages / Session	Avg. Session Duration	% New Sessions	Bounce Rate
		4,571 % of Total: 100.00% (4,571)	3.01 Avg for View: 3.01 (0.00%)	00:02:28 Avg for View: 00:02:28 (0.00%)	69.63% Avg for View: 69.53% (0.16%)	54.93% Avg for View: 54.93% (0.00%)
	1. email	52 (1.14%)	2.92)	00:03:15	<mark>42.31%</mark>	44.23%
	2. organic	909 (19.89%)	3.15	00:03:07	53.36%	48.95%
	3. referral	1,415 (30.96%)	3.73	00:03:02	73.71%	39.93%
	4. (none)	1,299 (28.42%)	3.22	00:02:44	67.13%	56.81%
	5. display	148 (3.24%)	1.91	00:01:05	73.65%	64.86%
	6. cpc	748 (18.38%)	1.36	00:00:24	87.17%	86.10%

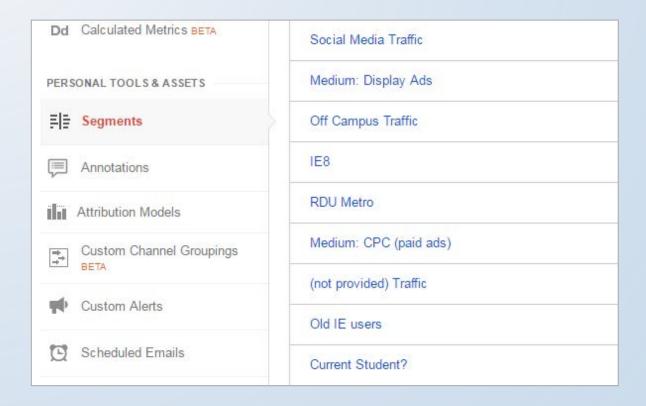
email = emails sent to GRE search service display = physical ads, digital signage or bus ads cpc = paid ads in Google and LinkedIn organic = regular (unpaid) search traffic Rows 1 - 6 of 6

## Custom Segments

## Custom audience segments

- Repeat visitors vs. first-timers
- Mobile vs. Desktop vs. Laptop
- Locations
- Technologies
- Types of visitors
- Visits from specific campaigns
  - Email vs. printed postcard

## Custom audience segments



Nam	9
Cam	pus and Local
(dire	ct)/(none)
IE 7	8, or 9
Des	ctop Only
On (	Campus Traffic
Med	um: Email
Med	ium: LI/FB referrals
Med	um: email
Soc	al Media Traffic

## Custom audience segments

Non-destructive filters

· Can be used to compare groups together

- Can combine criteria
  - On-campus visits from Android devices
  - Visits from China using IE9

## Annotations

#### Annotaations

Mark important events which can affect metrics

- · Publications, communications, media mentions
- Changes to analytics code
- Campaign events
- Departmental or campus events
- · Changes to technology (search provider, cms)

#### Annotations



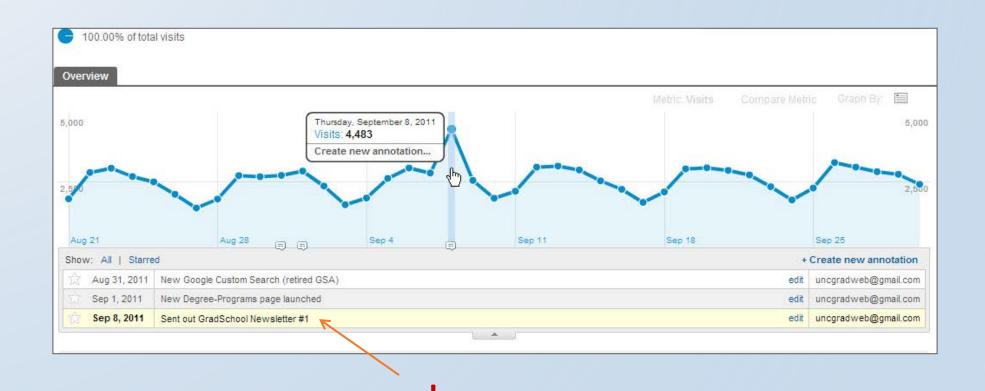
#### Annotations



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#### Annotaations



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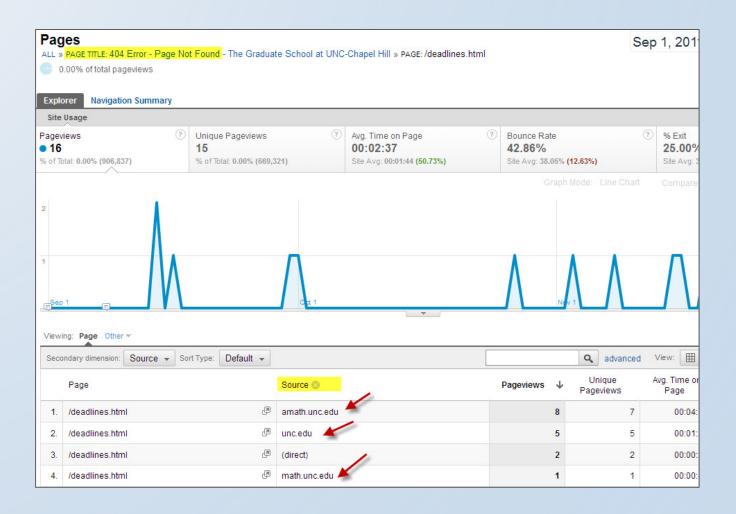


# Tracking 404s

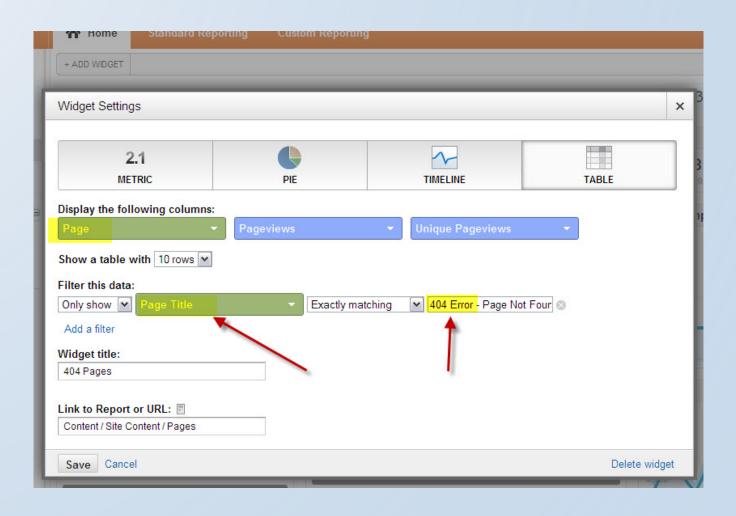
## Tracking 404 Errors

 Helps identify broken links on OTHER websites that point to your site

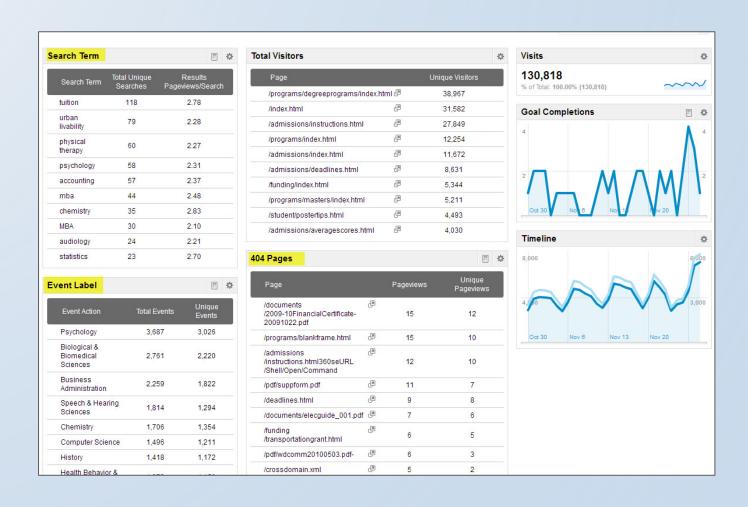
# Tracking 404 Errors



## 404 Dashboard Widget



# My Dashboard Display



## Tips

- Beware of referral spam
  - · Can be reduced with "valid hostname filter" and spam filter
  - · See resource list at end of presentation

Make sure analytics code is on EVERY page

# Google Analytics 201.....

- Tracking on-page events
  - Slideshow usage
  - Did user watch entire video?
  - Did user download pdf?
  - Did user interact with footer links or sidebar?
- Create custom reports
- Custom dashboards
- Autotracker add-on
- Debugging analytics configuration

## Google Analytics 201.....

- Setting and tracking goals in GA
- Internal site search analysis
  - Adjusting search results for key terms
  - Understanding the language of users
- Measuring SEO effectiveness
- Tracking form completions
- Tracking purchases/donations/registrations
  - · Can connect revenue in GA

#### Resources

- Google Tag Assistant
- Google Analytics URL builder
- <u>Definitive Guide To Campaign Tagging in Google Analytics</u> (<u>Annielytics</u>)
- Definitive Guide to Removing Google Analytics Spam (Analytics Edge)
- Higher Ed Analytics Blog
- Occam's Razor by Google's Avinash Kaushik
- Google Analytics Training from Lynda.com (free for UNC employees)

### Questions? Comments?

What do you want to learn to do with Google Analytics data?

Contact me:

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