# Data Analytics CS301 Google Analytics

Week 2
Fall 2018
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## Looking at Websites and Data

- The Internet is used to carry information to consumers.
- Websites used to display information
- Make sure web sites are doing what they should do
- Google Analytics
  - Free, easy to configure
  - Used by over half of all websites on Internet
- More than ten times more popular other analysis softwares
  - Yandex Metrics:
     https://metrica.yandex.com/dashboard?group=day&period=week &id=44147844
  - Piwik: https://matomo.org/
    - Demo: https://demo.matomo.org/

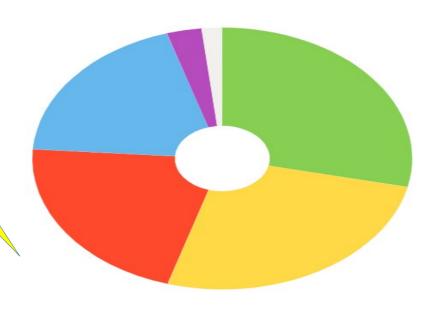


# Looking at Websites and Visit Data

Do these origins explain their interests?

Traffic source

Sessions



How can I use this information to get more visits?

How did users come to my site?

Direct traffic

28.5 %

Search engine traffic

26.2 %

Ad traffic

21.5%

Link traffic

19.2 %

Social network traffic

2.97 %

Other

1.74 %

Where did they come from?



## Google Analytics

- A service by Google to help users determine what is happening on their web sites.
- Allows users to analyze:
  - Website Traffic: User on your site.
  - Conversions: What the users do there?
  - E-commerce: What (financial) involvement the users have with your site



#### WebSite Traffic

Web traffic is the amount of data sent and received by visitors to a web site, necessarily not including traffic generated by bots. This is determined by the number of visitors and the number of pages they visit.

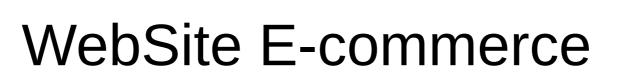
- Where are your users coming from?
- How did these users arrive here (direct searches, referrals from others to site?)
- What pages and for how long did they read?
- How much of the site did they read before leaving? (bouncing).

#### WebSite Conversions



The ability to get website visitors to do what you want them to do: buy products, sign up for your newsletters and communications, register for a webinar, or fill out a lead/contact form or survey.

- Page views?
- How many users clicked on purchase buttons?
- How many user downloaded (read, viewed) your hand-out newsletter?
- How long to land on "check-out" page? Time to decide to buy?
- Has a specific number of people done something in some allotted time on the site?





## The ability of a website to attract interest and transactions for business development online.

- Online shopping, retail sales directly to consumers
- Business to business buying and selling
- Gathering demographic data through web contacts and social media
- Marketing to specific populations
- Engaging in *pretail* for launching new products and services before general sales

## Online, Data Collection



- But people do not always complete surveys to provide enough information.
- Google Analytics allows web builders to enhance their existing web sites by watching how people use the site.
- Enhancements:
  - Productivity
  - Business development
  - Site intuition
  - How to Market the site?







#### Real-Time Usage

- Who is on your site now?

#### Audience

- What types of users tend to use you site?

#### Acquisition

- How do these users get to your site?

#### Behavior

- What did the users do? What pages are most popular?

#### Conversions

 How many of the users completed some specific task of the website? Overview

## Real-Time Usage

Right now
252
active visitors on site

NEW RETURNING
57% 43%

Pageviews

20

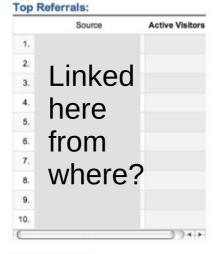
15

300

100

-25 min -20 min -15 min -10 min -5 min -40 sea -245 sea

Who is on your site now?



Keywords that \_ brought them here

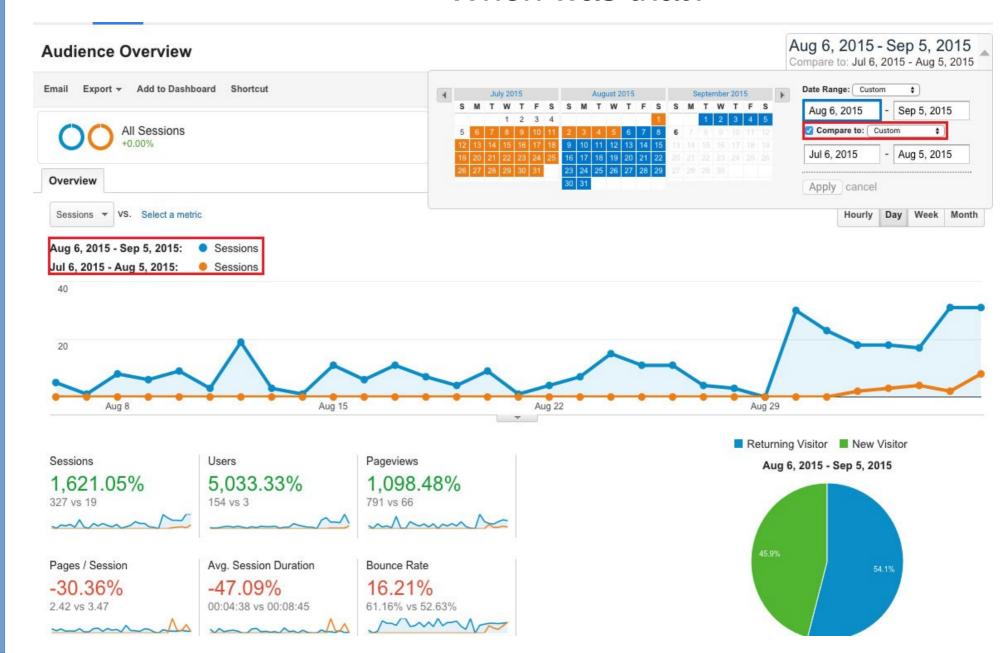






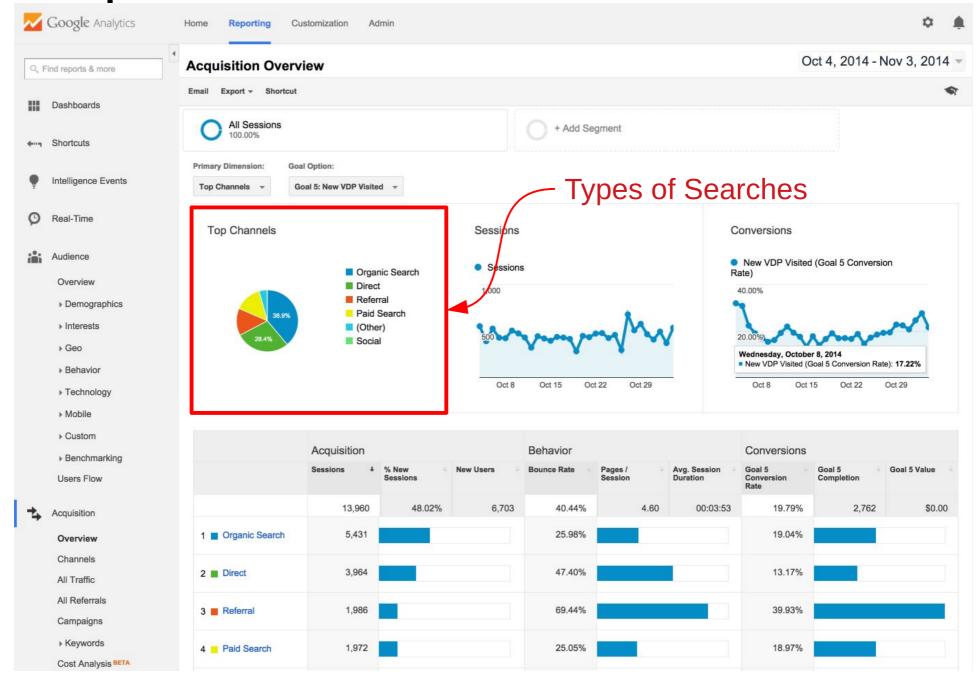
#### Audience

- Who are your users?
- When was that?



### Acquisition

How do these users get to your site?





#### Site Arrivals

- Organic Searches
   —Visitors who come to your website after searching Google.com and other search engines
- Paid Searches—Visitors who come to your website from an AdWords or other paid search ad
- **Direct**—Visitors who come to your website without a traceable referral source, such as typing your URL into their address bar or using a bookmark on their browser
- **Referrals**—Visitors who come to your website from another website by clicking on a link
- Social—Visitors who come to your website from a social network
- Other—If you use UTM parameters for custom campaign tracking, the traffic linked to those campaigns is listed here

### **Behavior**

What are the users doing on your site?



Site Content	
Page	+
Page Title	
Site Search	
Search Term	
Events	
Event Category	

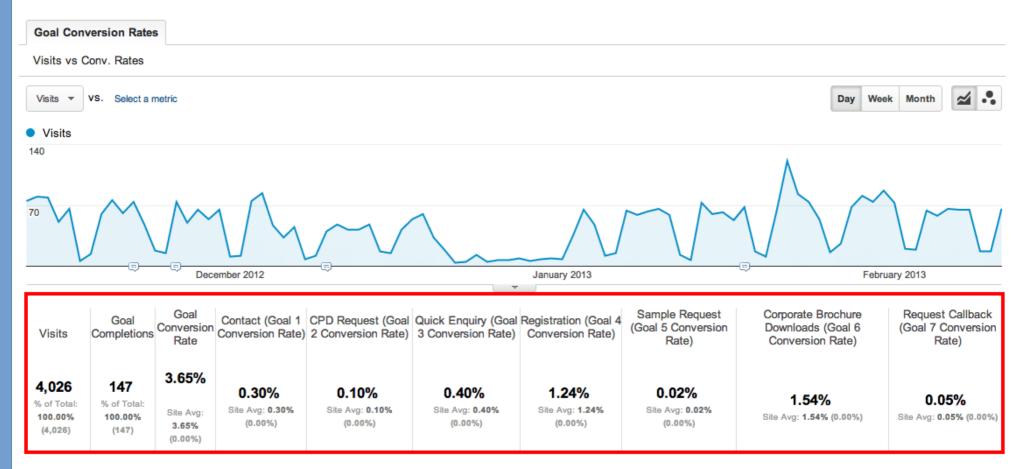
	Page		Pageviews	% Pageviews
1.	T	P	793	5.14%
2.	/lp/checklist-dm/2016-checklist.php	P	584	3.78%
3.	/blog/301-redirects-formatting-bulk-redirects-in-4-quick-steps/	P	480	3.11%
4.	/blog/onsubmit-onclick-goal-tracking-in-google-analytics/	P	455	2.95%
5.	/lp/checklist-dm/2016-checklist-ab.php	P	346	2.24%
6.	/guide/the-2016-digital-marketing-strategy-checklist/	P	310	2.01%
7.	/about-us/	P	282	1.83%
8.	/blog/extended-ad-headlines-in-adwords-are-they-really-worth-it/	P	278	1.80%
9.	/blog/behind-the-scenes-11-excel-functions-that-will-make-your-life-easier/	P	250	1.62%
10.	/pricing/	P	244	1.58%



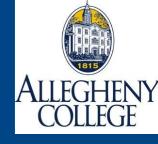


- **Pageview**: An instance of a page being loaded (or reloaded) in a browser. Pageviews is a metric defined as the total number of pages viewed.
- **Unique Pageviews**: The number of sessions during which the specified page was viewed at least once. A unique pageview is counted for each page URL + page Title combination.
- **Session**: The duration that a user is on a site. Inactivity of 35 mins ends a current session.
- Average Time: The average amount of time users spent viewing a specified page or screen, or set of pages or screens.
- **Bounce rate**: The percentage of single-page sessions in which there was no interaction with the page. A bounced session has a duration of 0 seconds.
  - Did visit your main site (providing direction to other site pages) and then leave it soon after without seeing other pages?
  - Are you running a blog with only one (main) page.
- **Exit**: It indicates how often users exit from that page or set of pages when they view the page(s).
  - For the page or set of pages,
    - percent\_Exit = (number of exits) / (number of pageviews)

#### Conversions • Have your site goals been fulfilled?

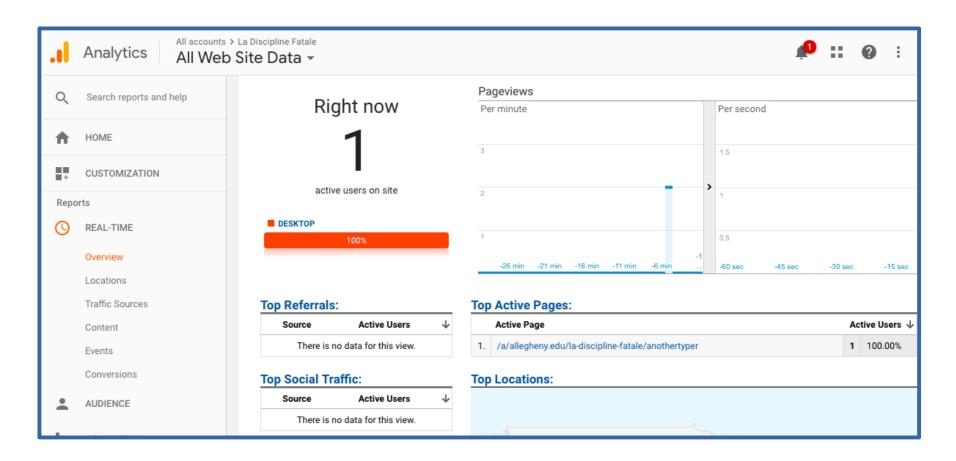


- Your website conversion rate is the ratio of visitors to your website that then go on to take your desired action (purchasing a product, signing up for a newsletter, etc).
- Goals must first be set:
  - Financial,
  - User activities



## Setting Up Analytics on Sites

- My site for the class (but you can make your own:
  - https://sites.google.com/a/allegheny.edu/la-discipline-fatale/home
- Let's see what Google Analytics looks like...



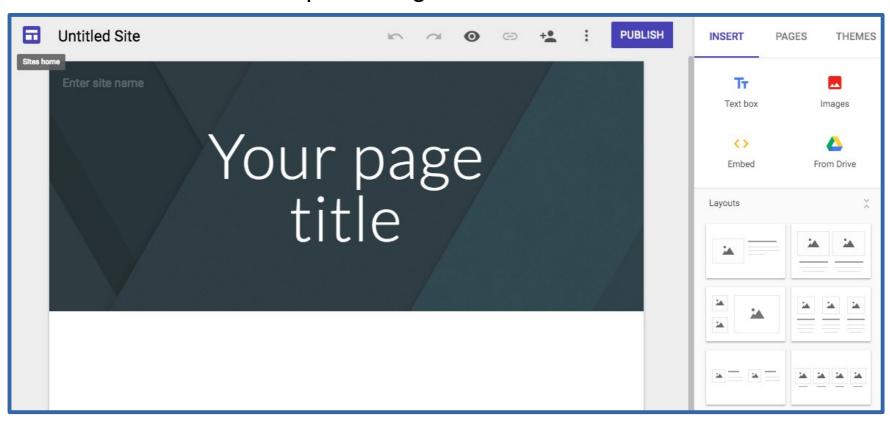
## ALLEGHE

## Setting Up Analytics on Sites

- Create a Google Sites website at "Google Sites"
  - https://sites.google.com/new/?authuser=0
- Already have a site?
  - https://sites.google.com/a/allegheny.edu



Give it a name now for publishing and add to it later!!



#### Create Google Analytics Account



- Go to Google Analytics at https://analytics.google.com/analytics/web/
- Or go directly: https://analytics.google.com/analytics/web/provision/? authuser=1#provision/SignUp/
- Note: If you have a Google account, and are not signed in, click Sign in. If you do not have a Google account, click Create an account.
- Once you have signed in to your Google account, click Access Google Analytics.
- Click "Sign up".
- Fill in your Account Name, Website Name, Website URL, and select an Industry Category and Reporting Time Zone
- Under Data Sharing Options, check the boxes next to the options that you want.
- Click Get Tracking ID (or JS code for your html pages, if necessary)
- From the Google Analytics Terms of Service Agreement that opens, click, "I Accept."
- Add the Tracking ID to your site.



#### Now Add your Tracking ID To Your Site



- With your tracking ID, go to the "Publish" page at Google Sites to find "Site Analytics"
- Add the ID and wait a day for it to begin working...

