GOOGLE ANALYTICS WORKSHOP



Carnegie Nellon University

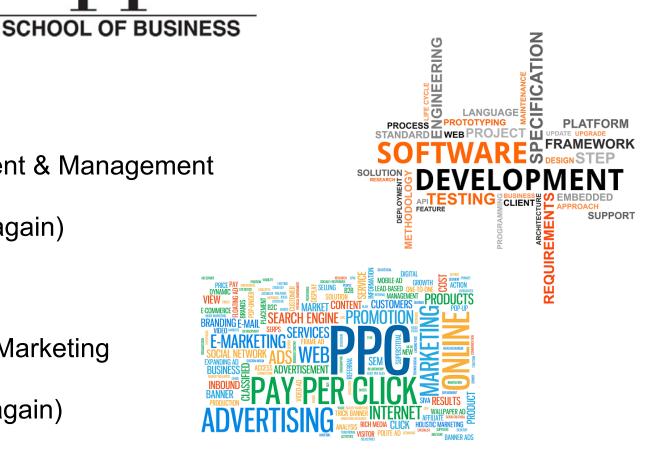




Carnegie Mellon



- B2C eCommerce
- Product Development & Management
- B2C eCommerce (again)
- B2B eCommerce
- B2B Global Digital Marketing
- B2B eCommerce (again)



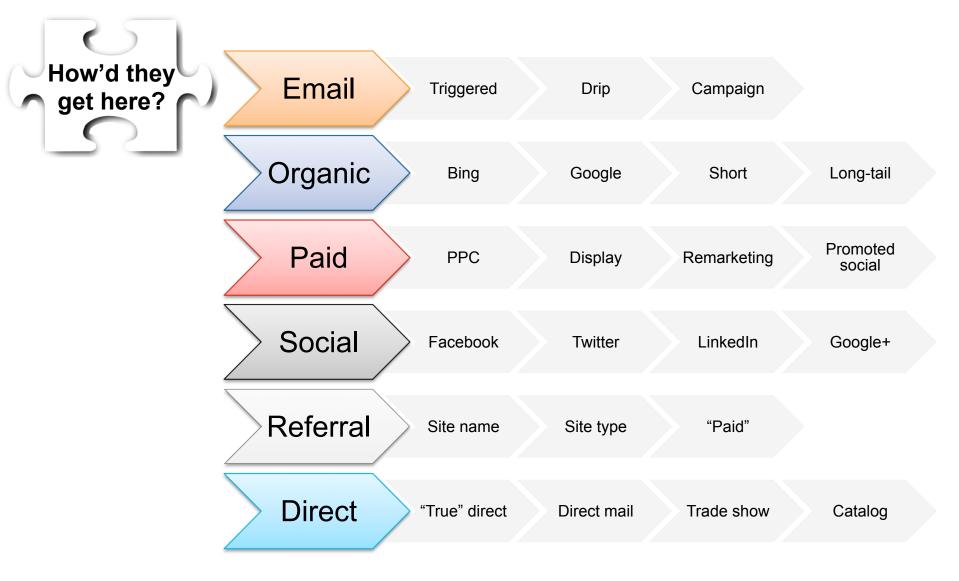
Agenda

- What to measure & why, how to identify your conversion metrics and setting up goals
- Overview of standard reports in Google Analytics, including how you can customize them to meet the needs of your site & metrics
- Custom reports & dashboards, Using Regular Expressions to get more specific information, & Advanced Reporting tips & tricks
- Working in Excel using key formulas & pivot tables to garner insights that Google Analytics can't do alone

BEHAVIORAL PERSONAS

What do these two have in common?

	John	Linda	
Age:	22	Age:	52
Occupation:	Student	Occupation:	Purchasing Manager
Annual Income:	\$15,000	Annual Income:	\$75,000
Gender:	Male	Gender:	Female
Location:	Chicago	Location:	Kansas City







Search

Navigation





Click banners

Watch videos





Read articles

Buy products





Fill out forms





Time

Browser



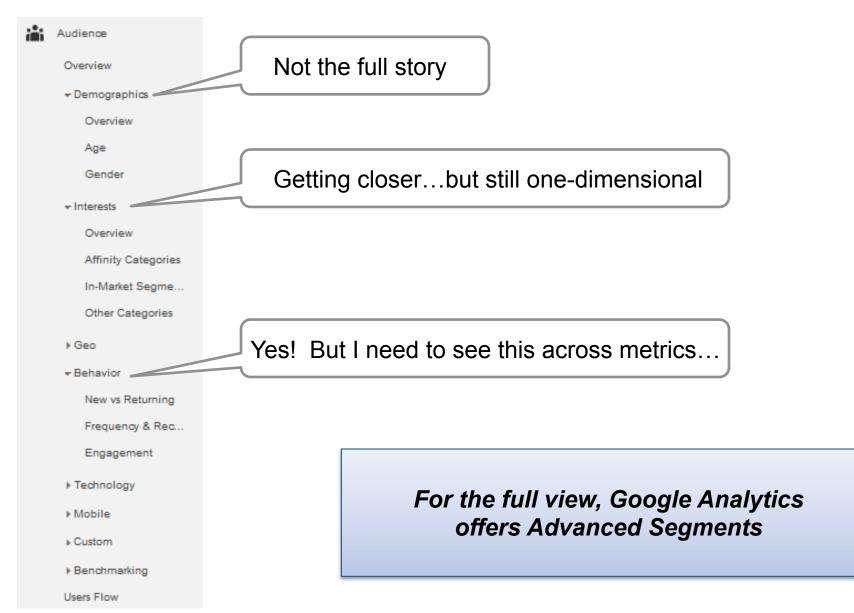
Day/Date



WHAT IS CONVERSION?

1 ADVANCED SEGMENTS

Google Analytics Provides Some Detail



The Standards

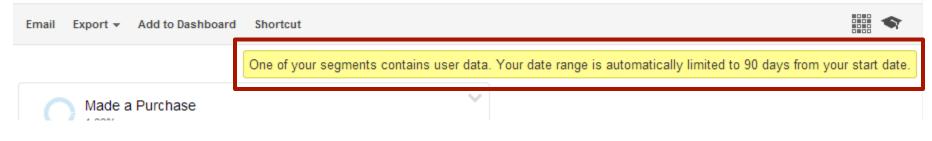
Segment Name	Created			
□ ☆ Mobile and Tablet Traffic		Segment Name		
□ ☆ Mobile Traffic		Demographics		Continent
	Mobile	Technology	Language 🕜	Sub Continent Region ⑦
		Behavior	Affinity Category	Country / Territory ⑦ Region ⑦
		Date of First Session	(reach) 🥡	City ⑦
		Traffic Sources	In-Market Segment ⑦	
Social Media		Visibility	Other	Local
Demographics	Conditions		Category 🥐	Display as alphabetical list
Technology	Segment your users and/or their	sessions according to single or multi-session	Location ?	Continent 👻 contains 👻
Behavior	Filter Sessions - Include -	-		
Date of First Session	Default Channel Grouping 👻	contains 👻 Social		
Traffic Sources		- C		
Ecommerce	+ Add Filter			
Advanced Conditions	· · · · · · · · · · · · · · · · · · ·	Social		
Sequences				

Make Your Own "Cart Complete"

Why? Well...

Audience Overview

Apr 1, 2014 - Jun 29, 2014 -



Might use sampling but should still provide solid data

Checkout Completion		Visibility	4
Demographics	Conditions		
Technology	Segment your users and/or their sessions according to single or multi-session	conditions.	
Behavior	Filter Sessions - Include -		8
Date of First Session	Page - contains - /checkout/orderConfirmation/	- OR AI	ND
T#- 0			

SEO + Behavior

Abandoned Carts, Source:Google or	ganic	Visibility
Demographics	Filter Sessions - Include -	8
Technology	Page 👻 contains 👻 /cart	- OR AND
Behavior	AND	
Date of First Session	Transactions ▼ per session ▼ ≤ ▼ 0	- OR AND
Traffic Sources	AND	
Ecommerce	Source 👻 contains 👻 google	- OR AND
Advanced	AND	
Conditions 1	Medium 👻 contains 👻 organic	- OR AND
Sequences		

Other Common Uses with Organic Traffic

- Completed carts
- Engaged customers
- Big spenders
- Frequent purchasers

- Bounces
- First Time users or buyers
- Repeat users or buyers
- Site search users

Keyword Group Performance using RegEx

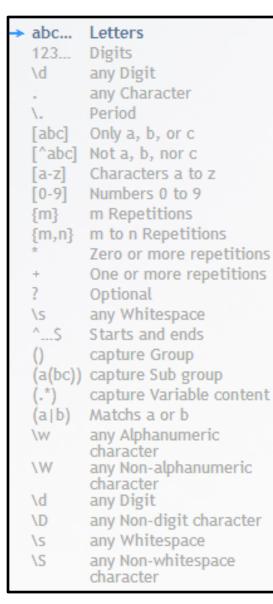
Mfg Part Numbe	ers		Visibility	<
Demographics	5	Conditions		
Technology		Segment your u	isers and/or their sessions according to single or multi-session conditions.	
Behavior		Filter Sessio	ons - Include - 🛞	
Date of First S	Session	Keyword	▼ matches regex ▼ [0-9]{8}	
Traffic Source	s	AND		
Ecommerce		Medium	vexactly matches vexactly matches	
	SEO: 4 Word O	rganic Keywords		Visibility
	Demographic	s	Conditions	
	Technology		Segment your users and/or their sessions according to single or multi-session	nditions.
	Behavior		Filter Sessions - Include -	
	Date of First	Session	Keyword - matches regex - ^\s*[^\s]+(\s+[^\s]+){3}\s*\$	- OR
	Traffic Source	S	AND	
	Ecommerce		Medium 👻 exactly matches 👻 organic	- OR

AND

AND

2 REGULAR EXPRESSIONS (REGEX)

Common RegEx Characters



For example:

To match a manufacturer part number with the format: **abcd-123456**

You could use : (a-z){4}\-(0-9){6}

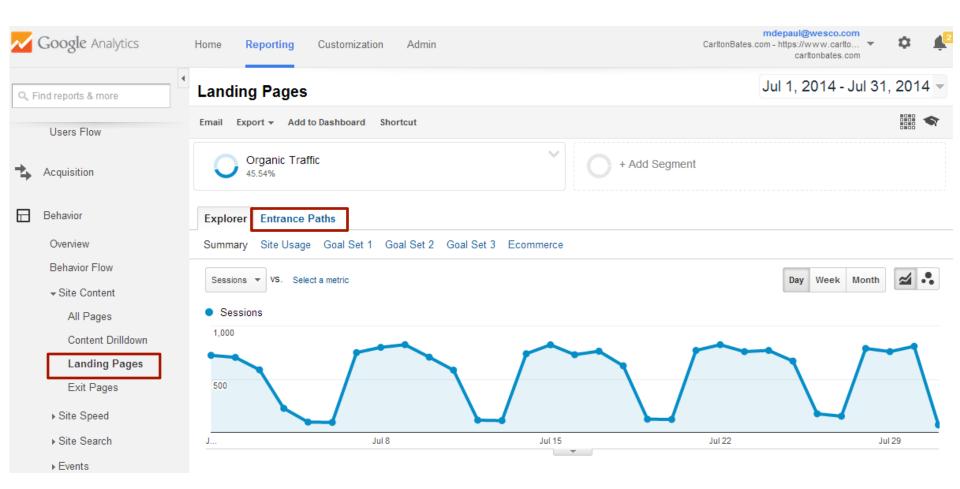
What if that hyphen could also be a white space? (a-z){4}(\-|\s)(0-9){6}

What if that first number can't be a zero? (a-z){4}(\-|\s)(1-9)(0-9){5}

What if there the number of digits varies? (a-z){4}(\-|\s)(1-9)(0-9)+

3 SITE NAVIGATION

Navigation After Landing Page



Navigation After Landing Page

User started at this landing page: / 🚽

then viewed these pages:

Second Page	Sessions	% Sessions
	146	8.53%
	108	6.31%
	85	4.97%
	62	3.62%
	50	2.92%
	26	1.52%
	21	1.23%
	19	1.11%
	19	1.11%
	18	1.05%
Search:		

and exited from these pages:

Exit Page	Sessions	% Sessions
	6	31.58%
	4	21.05%
	2	10.53%
	1	5.26%
	1	5.26%
	1	5.26%
	1	5.26%
	1	5.26%
	1	5.26%

Low Value Pages

Filter page views to show only those w/view above a reasonable value

Page ?	Pageviews	Unique Pageviews ?	Avg. Time on Page ?	Entrances	Bounce Rate	% Exit 💿	Page Value
	57,155 % of Total: 11.28% (506,743)	42,662 % of Total: 10.29% (414,563)	00:00:58 Site Avg: 00:01:13 (-21.31%)	23,727 % of Total: 11.65% (203,637)	41.82% Site Avg: 68.96% (-39.36%)	31.95% Site Avg: 40.19% (-20.50%)	\$2.9(% of Total, 50.72% (\$5.71)
1. ල	15 (0.03%)	13 (0.03%)	00:00:42	9 (0.04%)	11.11%	26.67%	\$0.00 (0.00%)
2.	596 (1.04%)	490 (1.15%)	00:01:28	174 (0.73%)	68.97%	61.07%	\$0.00 (0.00%)
ي	41 (0.07%)	32 (0.08%)	00:01:06	29 (0.12%)	75.86%	70.73%	\$0.00 (0.00%)
4. æ	133 (0.23%)	101 (0.24%)	00:00:44	0 (0.00%)	0.00%	23.31%	\$0.00 (0.00%)
5. [@]	166 (0.29%)	130 (0.30%)	00:00:46	16 (0.07%)	43.75%	21.08%	\$0.00 (0.00%)
6.	72 (0.13%)	54 (0.13%)	00:00:43	2 (0.01%)	50.00%	20.83%	\$0.00 (0.00%)

Sort ascending on page value OR Sort descending on Bounce

#4 SITE SEARCH

Search Start Pages

Start Page 🕐	Total Unique Searches ⑦	Results Pageviews / Search ?	% Search Exits	% Search Refinements ?	Time after Search ?
	4,465 % of Total: 30.94% (14,430)	1.65 Site Avg: 1.59 (4.29%)	30.88% Site Avg: 33.29% (-7.23%)	33.49% Site Avg: 34.64% (-3.33%)	00:02:18 Site Avg: 00:02:20 (-1.67%)
1.	730 (16.35%)	1.02	25.21%	42.28%	00:01:14
2.	420 (9.41%)	1.00	63.57%	14.05%	00:01:26
3.	284 (6.36%)	1.02	20.07%	42.41%	00:00:57
4.	69 (1.55%)	1.12	15.94%	16.88%	00:01:36
5.	47 (1.05%)	1.15	12.77%	35.19%	00:04:24
6.	45 (1.01%)	1.11	6.67%	24.00%	00:01:04
7.	23 (0.52%)	1.17	13.04%	40.74%	00:03:45
8.	18 (0.40%)	1.11	11.11%	40.00%	00:01:12
9.	16 (0.36%)	1.12	37.50%	33.33%	00:01:04
10.	14 (0.31%)	1.07	14.29%	53.33%	00:00:33

Searches & Exits

Include- Total Uniqu	e Searches 🔹	Greater than 👻 10	0		
and					
+ Add a dimension or me					

Apply cancel

Search Term (?)	Total Unique Searches 📀	Results Pageviews / Search	% Search Exits 💿 🛛 🗸	% Search Refinements	Time after Search (?)
	4,465 % of Total: 30.94% (14,430)	1.65 Silte Avg: 1.59 (4.29%)	30.88% Site Avg: 33.29% (-7.23%)	14.90% Site Avg: 34.64% (-56.98%)	00:02:18 Silte Avg: 00:02:20 (-1.67%)
1.	20 (11.36%)	1.00	100.00%	0.00%	00:00:00
2.	25 (14.20%)	1.60	92.00%	5.00%	00:03:09
3.	12 (6.82%)	2.67	66.67%	15.62%	00:02:20
4.	23 (13.07%)	1.70	34.78%	15.38%	00:02:25
5.	12 (6.82%)	2.00	33.33%	20.83%	00:01:51
6.	39 (22.16%)	1.92	23.08%	9.33%	00:01:43
7.	17 (9.66%)	1.94	11.76%	21.21%	00:01:43
8.	13 (7.39%)	1.31	7.69%	47.08%	00:02:21
9.	15 (8.52%)	1.47	6.67%	22.73%	00:01:38

Converting Searches

Search Term	Total Unique Search ?	Varieviewe	% Search Exits ⊘ ↓	% Search Refinements	Time after Search ?
Checkout Comp	oletion % of 0	204 Total: .30% ,069) 204 1.5 Site Avg: 1. (-7.34)	69 Site Avg:	43.29% Site Avg: 32.17% (34.57%)	00:07:06 Site Avg: 00:02:26 (191.12%)
1.	1 (0.	.54%) 2.	00 100.00%	0.00%	00:00:07
2.	1 (0.	54%) 1.	00 100.00%	0.00%	00:00:00
3.	1 (0.	54%) 1.	00 100.00%	0.00%	00:00:00
4.	1 (0.	54%) 1.	00 100.00%	0.00%	00:00:00
5.	1 (0.	54%) 2.	0.00%	100.00%	00:00:15
6.	1 (0.	54%) 1.	0.00%	0.00%	00:09:55
7.	1 (0.	54%) 1.	0.00%	100.00%	00:00:17
8.	1 (0.	.54%) 3.	0.00%	66.67%	00:01:45
9.	1 (0.	.54%) 2.	0.00%	50.00%	00:00:39
10.	1 (0.	.54%) 2.	00 0.00%	50.00%	00:08:31

5 ANALYZING REFERRAL SOURCES

Best Performing Referral Sites

	I .	Plot Rows Secondary dimension Sort Type:	Default 💌					Q advanced	E € 5
Q, Find reports & more			Acquisition			Behavior			Conversions eCom
▶ Custom Users Flow		Source	Sessions ? ↓	% New Sessions ?	New Users	Bounce Rate ?	Pages / Session ?	Avg. Session Duration ?	Transactions
Acquisition			242	50.41%	122	0.00%	12.67	00:14:46	248
Overview		Checkout Completion	% of Total: 0.09%	Site Avg: 67.62%	% of Total: 0.07%	Site Avg: 69.96%	Site Avg: 2.48	Site Avg: 00:01:46	% of Total: 12.43% (1,995)
Channels			(266,176)	(-25.44%)	(179,979)	(-100.00%)	(411.42%)	(739.74%)	
All Traffic		1.	66 (27.27%)	68.18%	45 (36.89%)	0.00%	10.68	00:10:38	66 (26.61%)
All Referrals		2.	19 (7.85%)	47.37%	9 (7.38%)	0.00%	19.58	00:23:49	19 (7.66%)
Campaigns		3.	19 (7.85%)	57.89%	11 (9.02%)	0.00%	10.68	00:13:46	19 (7.66%)
▶ Keywords		4.	17 (7.02%)	0.00%	0 (0.00%)	0.00%	12.24	00:16:08	17 (6.85%)
Cost Analysis BETA		5.	14 (5.79%)	85.71%	12 (9.84%)	0.00%	13.50	00:16:17	19 (7.66%)
▶ AdWords		6.	12 (4.96%)	16.67%	2 (1.64%)	0.00%	10.00	00:17:17	13 (5.24%)
▶ Social		7.	11 (4.55%)	54.55%	6 (4.92%)	0.00%	9.36	00:14:06	11 (4.44%)
 Search Engine Optimization 		8.	8 (3.31%)	75.00%	6 (4.92%)	0.00%	10.00	00:08:19	8 (3.23%)
E Behavior		9.	8 (3.31%)	0.00%	0 (0.00%)	0.00%	5.12	00:09:07	8 (3.23%)

So...are you paying for this placement? Is it hitting a high enough ROI?

Top Performing Referral Landing Pages

			Acquisition			Behavior		
Landing Page 🕜		Medium 🕐 🔍	Sessions ?	% New Sessions ?	New Users	Bounce Rate ?	Pages / Session	پ د
С	heckout Completion		232 % of Total 0.09% (266,208)	Site Avg: 67.62%	115 % of Total: 0.06% (179,999)	0.00% Site Avg: 69.96% (-100.00%)	13.25 Site Avg: 2.48 (434.80%)	C
1.		referral	55 (23.71%	43.64%	24 (20.87%)	0.00%	12.98	
2.		referral	11 (4.74%	0.00%	0 (0.00%)	0.00%	13.36	
3.		referral	7 (3.02%	0.00%	0 (0.00%)	0.00%	14.29	
4.		referral	4 (1.72%	0.00%	0 (0.00%)	0.00%	1.50	
5.		referral	4 (1.72%	0.00%	0 (0.00%)	0.00%	15.25	
6.		referral	3 (1.29%	0.00%	0 (0.00%)	0.00%	23.33	
7.		referral	2 (0.86%	0.00%	0 (0.00%)	0.00%	13.50	
8.		referral	2 (0.86%	0.00%	0 (0.00%)	0.00%	6.00	
9.		referral	2 (0.86%	50.00%	1 (0.87%)	0.00%	15.50	

Two things here:

- 1. Is that the right page for that referrer?
- 2. Is this an organic or paid placement?

"Stitching" Information Together with Excel

PageList.csv

Landing Page	Medium	Referrer	Sessions	% New Se	New User
Page1	referral		25	36.00%	9
Page2	referral		7	0.00%	0
Page3	referral		4	0.00%	0
Page4	referral		3	33.33%	1
Page5	referral		3	0.00%	0
Page6	referral		2	0.00%	0
Page7	referral		2	0.00%	0
Page8	referral		2	0.00%	0
Page9	referral		2	0.00%	0
Page10	referral		2	0.00%	0

ReferralNames.csv

-	-	_
Full Referrer	Sessions	% New Se
sitenameA	40	65.00%
sitenameB	28	28.57%
sitenameC	15	60.00%
sitenameD	8	62.50%
sitenameE	6	0.00%
sitenameF	3	33.33%
sitenameG	2	0.00%
sitenameH	2	100.00%
sitenamel	2	0.00%
sitenameJ	2	50.00%
	sitenameB sitenameC sitenameD sitenameE sitenameF sitenameG sitenameH sitenameI	sitenameA 40 sitenameB 28 sitenameC 15 sitenameD 8 sitenameE 6 sitenameF 3 sitenameG 2 sitenameH 2 sitenameI 2

Column 1 Column 2

VLOOKUP(A2, ReferralNames.csv!\$A:\$B, 2, 0)



My Favorite Excel Formulas

 Find/Replace 	ЭС	
• VLOOKUP	Find and Replace	? ×
• IF	Find Replace Find what: */p/	v
COUNTIF	R <u>e</u> place with:	V
• TRIM	Replace <u>All</u> <u>Replace</u> Find All <u>F</u> ind N	Options >>
• ISNA		

- LEFT/Panel-PC-Board-Enclosure-Fittings/HEYCO-PRODUCTS/Hole-Plug-Dome-Style-Nylon-Push-In/2723/p/78311392041-1 /Terminal-Clips/MUELLER/General-Purpose-Alligator-Spring-Clip-Steel/BU-65-0/p/01012399238-1
- Text //Terminal-Blocks/PHOENIX-CONTACT/Terminal-Block-Center-Jumper-20-Pole-FBS-Series/3030365/p/78037396168-1
- Remove Duplicates
- PivotTables

78311392041-1	
01012399238-1	
78037396168-1	

Fun with Recursion

Page /categoryURL/p/78071647517 /categoryURL/p/78667982586 /categoryURL/p/78071698806 /categoryURL/p/78040001720 /categoryURL/p/78040001720?mkwid=sxhN1ZiV8&pcrid=25542056	78071647517 78667982586 78071698806 78040001720	Multiply by 1 Sort Ascendin		
/categoryURL/p/66248826835	66248826835	100.0%	2	
/categoryURL/p/66248826835?mkwid=DeCvXIKH&pcrid=&pkw=ba	66248826835	66.7%	2	
/categoryURL/p/78311392041	78311392041	66.7%	3	
/categoryURL/p/01012399238	1012399238	66.7%	3	
/categoryURL/p/78037396168	78037396168	66.7%	3	
/categoryURL/p/78071698861	78071698861	66.7%	3	

SUM	Ψ.	:	\times	\checkmark	<i>fx</i>	=IF(\$B2=
					А	

=IF(\$B2=\$B1,AVERAGE(C2,E1),C2)

	А	В	С	D	E	F
				Unique		Unique
1	Page	SKU as #	Conv Rate	Pageviews	Conv Rate	Pageviews
2	/categoryURL/p/78071647517	78071647517	100.0%	2	=IF(\$B2=\$B1	,AVERAGE(C2,E1),C2)
3	/categoryURL/p/78667982586	78667982586	100.0%	2	100%	2
4	/categoryURL/p/78071698806	78071698806	100.0%	3	100%	3
5	/categoryURL/p/78040001720	78040001720	100.0%	2	100%	2
6	/categoryURL/p/78040001720?mkwid=sxhN1ZiV8&pcrid=25542058	78040001720	83.0%	2	92%	4
7	/categoryURL/p/66248826835	66248826835	100.0%	2	100%	2
8	/categoryURL/p/66248826835?mkwid=DeCvXIKH&pcrid=&pkw=ba	66248826835	66.7%	2	83%	4
9	/categoryURL/p/78311392041	78311392041	66.7%	3	67%	3
10	/categoryURL/p/01012399238	1012399238	66.7%	3	67%	3

Fun with Recursion cont.

SU	SUM ▼ : 🗙 ✓ fx =IF(\$B2=\$B1,SUM(D2,F1),D2)									
	А	В	С	D	E	F	G			
				Unique		Unique				
1	Page	SKU as #	Conv Rate	Pageviews	Conv Rate	Pageviews				
2	/categoryURL/p/78071647517	78071647517	100.0%	2	100%	=IF(\$B2=\$B1,SUM(D2,F1),D2)			
3	/categoryURL/p/78667982586	78667982586	100.0%	2	100%	2				
4	/categoryURL/p/78071698806	78071698806	100.0%	3	100%	3				
5	/categoryURL/p/78040001720	78040001720	100.0%	2	100%	2				
6	/categoryURL/p/78040001720?mkwid=sxhN1ZiV8&pcrid=25542058	78040001720	83.0%	2	92%	4				
7	/categoryURL/p/66248826835	66248826835	100.0%	2	100%	2				
8	/categoryURL/p/66248826835?mkwid=DeCvXIKH&pcrid=&pkw=ba	66248826835	66.7%	2	83%	4				
9	/categoryURL/p/78311392041	78311392041	66.7%	3	67%	3				
10	/categoryURL/p/01012399238	1012399238	66.7%	3	67%	3				

SUM

-

× ✓ f_x =IF(B2=B3,"No","Yes")

	А	В	С	D	E	F	G	н
				Unique		Unique		
1	Page	SKU as #	Conv Rate	Pageviews	Conv Rate	Pageviews		
2	/categoryURL/p/78071647517	78071647517	100.0%	2	100%	2	=IF(B2=B3	,"No","Yes")
3	/categoryURL/p/78667982586	78667982586	100.0%	2	100%	2	Yes	
4	/categoryURL/p/78071698806	78071698806	100.0%	3	100%	3	Yes	
5	/categoryURL/p/78040001720	78040001720	100.0%	2	100%	2	No	
6	/categoryURL/p/78040001720?mkwid=sxhN1ZiV8&pcrid=25542058	78040001720	83.0%	2	92%	4	Yes	
7	/categoryURL/p/66248826835	66248826835	100.0%	2	100%	2	No	
8	/categoryURL/p/66248826835?mkwid=DeCvXIKH&pcrid=&pkw=ba	66248826835	66.7%	2	83%	4	Yes	
9	/categoryURL/p/78311392041	78311392041	66.7%	3	67%	3	Yes	