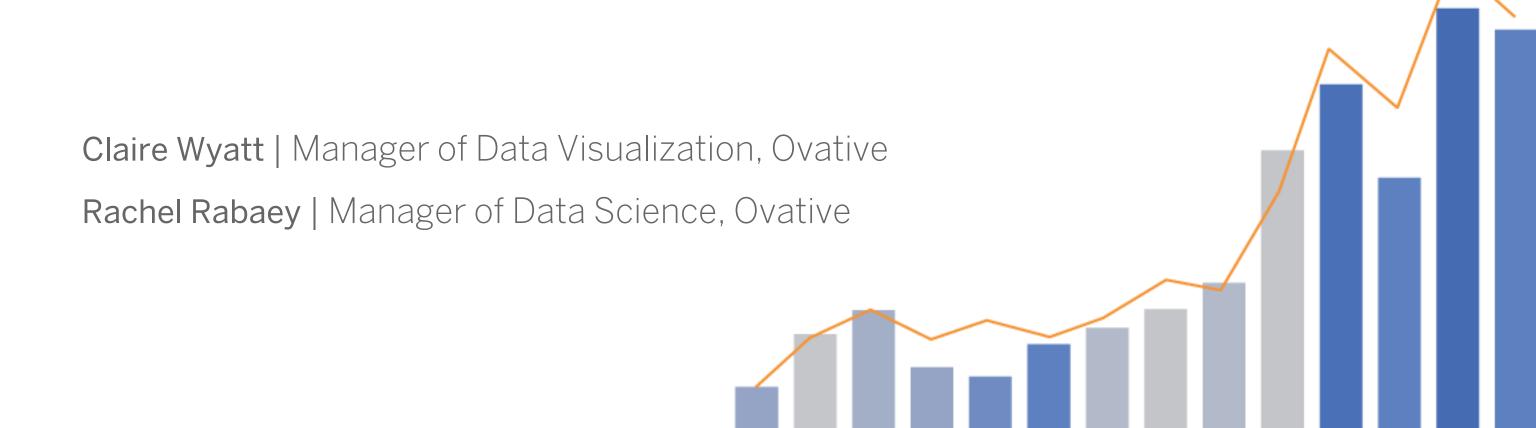


Ovative: Measuring marketing impact from online-to-store



Thank you for attending today's webinar

Jeff Huckaby

Global Segment Director, Retail and Consumer Goods, Tableau

Twitter: @huck5

Email: jhuckaby@tableau.com

- 20 years in retail and advanced analytics.
- Passionate about driving business value and efficiencies with data.
- Experience within retail consulting, convenience stores/travel centers, specialty retail, department stores, quick serve restaurants,





Claire Wyatt

Manager of Data Visualization, Ovative

Claire is a data evangelist and proud nerd. A graduate of the University of Wisconsin Madison, Claire majored in Finance, Investments & Banking as well as History. After 3 years in the Financial Industry, Claire transitioned her analytical skills to the Marketing Technology world where she spends her days making big data look super sexy. Say "parameter" and her knees are going to get a little weak (she loves them). Also, make sure to ask her about her space helmet or where she got her shoes.





Rachel Rabaey

Manager of Data Science, Ovative

Rachel holds a Masters of Predictive Analytics from DePaul University and has over 15 years of experience in marketing and loyalty program analytics, wrangling data even before it was "big." As a Manager of Data Science at Ovative/group, she conducts a variety of analyses including predictive modeling, customer segmentation, forecasting and campaign measurement. Her favorite Tableau feature is level-of-detail calculations.

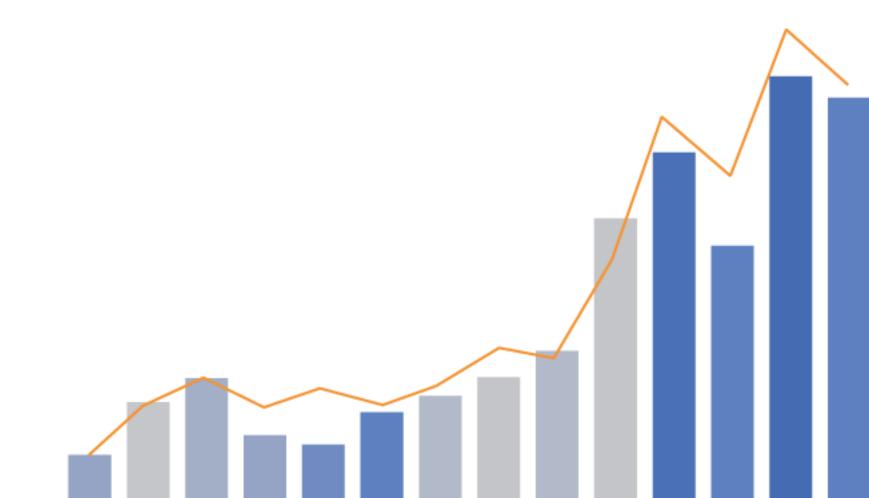




Agenda

- The Context:
 - Online-to-Store A/B Testing
 - Why Didn't Other Calculators Work?
- What Makes the Sexy Calculator so Sexy?
 - How it Works
 - What it Does
- The Sexy Calculator
- Results

The Context



Ovative/group | Introduction

A new type of integrated marketing partner

Mission

fearlessly unlock potential

Founded Location **Employees**

2009 Minneapolis 120+









Practice Areas

advanced marketing measurement & platform | site optimization | digital marketing

Clients



















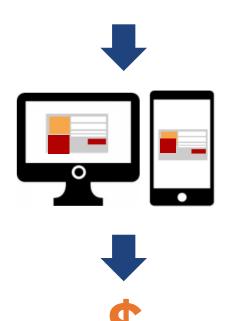


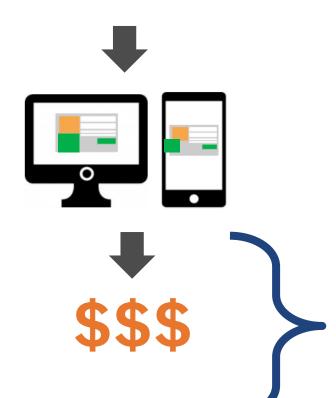


What is A/B Testing?









Comparing two versions of a web page to see which one performs better

You compare two web pages by showing the two variants (let's call them A and B) to similar visitors at the same time

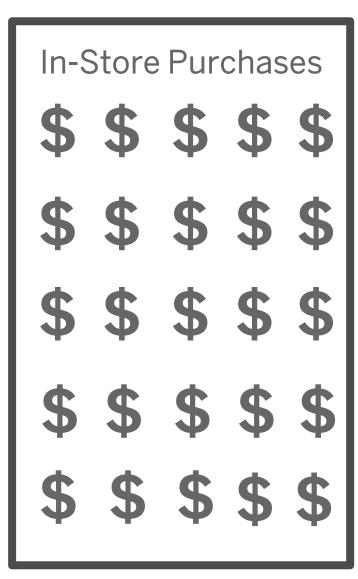
The one that performs better for your defined success metric wins

traditionally, these tests are measured using ecommerce metrics only

Why Enterprise Measurement?

Online Purchases

\$



While website optimization undoubtedly influences online sales, websites also play a role in driving sales to a store

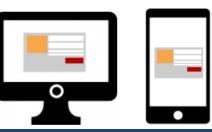
For many retailers, the percentage of online sales is only a small fraction of total enterprise sales

As a result, website optimizations need to focus on an enterprise view of the store versus just an online focus



Why Enterprise Measurement? (cont.)





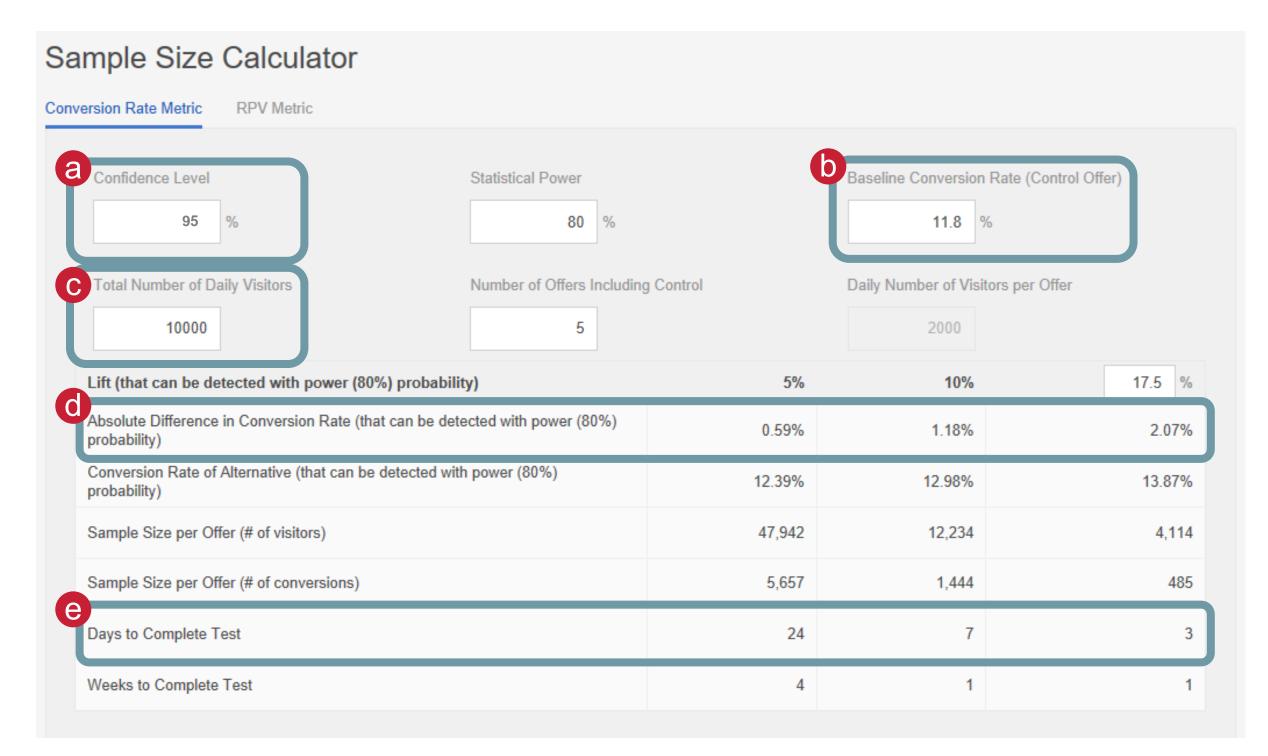


Test Type	Effect on Ecommerce Sales	Effect on Enterprise Sales
ecommerce metrics	(+) positive results	(-) negative or (+) positive results possible, but <i>unable</i> to measure
enterprise metrics	measurable (-) negative or (+) positive results possible	(+) positive results and optimizations; any negative ecommerce results could be offset by positive store results

Measuring tests at the enterprise level allows a business to make the best choice for a company as a whole



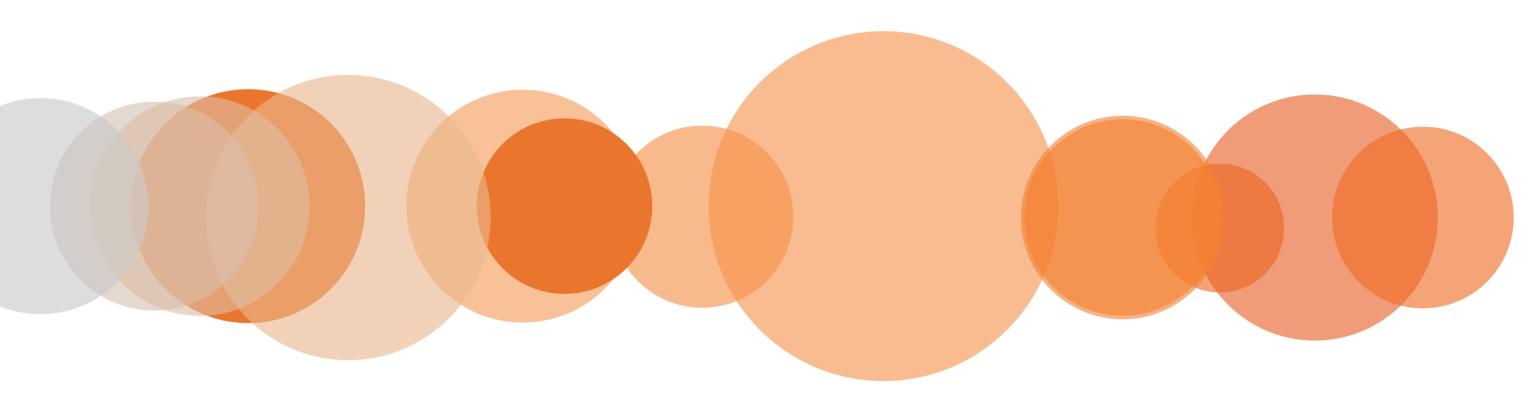
Existing Sample Size Calculators



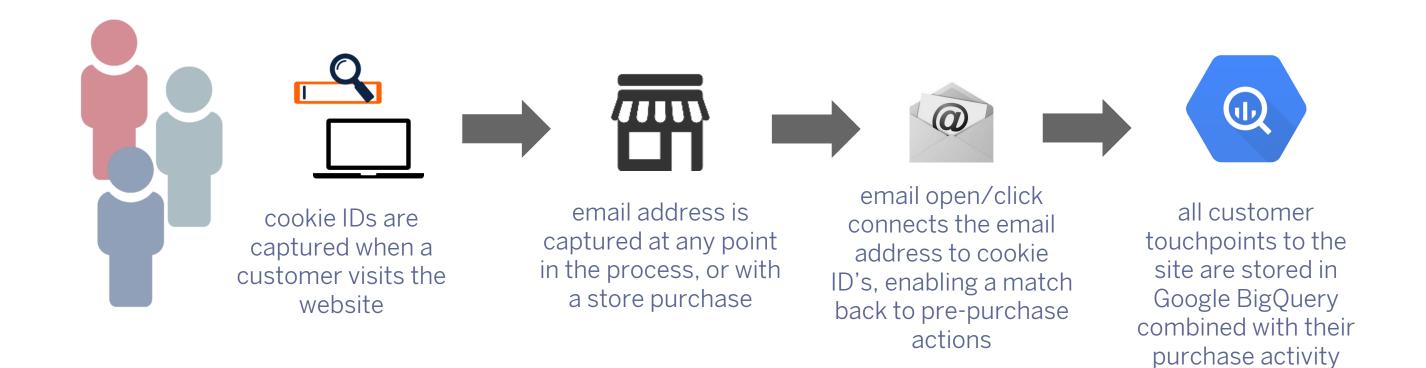
Why Didn't Other Calculators Work?

Capabilities Required for Enterprise Measurement	Other Sample Size Calculators	The Sexy Calculator
Helps us to understand the number of days needed to run a test		
Measures purchases	online only	in-store
Connects to business specific data	X	
Allows for additional levels of customization	X	
Shows results in terms of incremental conversions	X	
Incorporates business specific metrics that serve as a proxy for in-store conversions	X	

So What Makes it Sexy?



Online Site Visits are Tied to In-Store Conversions





Connects to Business Specific Data

Google BigQuery

Allows us to capture media impressions, data touches, site activity and conversions

Summarize massive amounts of data in seconds

within one place

Dynamically pass through parameter values through Tableau reporting to pull test results

Used to calculate significance of test results and confidence intervals



Customization, Incrementality & Proxy Metrics

What	ls	It?

Why Do We Care?

Customization	Incrementality	
Business specific factors	Additional conversions because of an action	Online activities correlated to in-store conversions
Business specific factors can have a significant impact on conversion rates and site activity	Did our change drive additional conversions?	Generating actual in-store results can take time Using proxy metrics helps us run more tests in less



Customization, Incrementality & Proxy Metrics

	Customization	Incrementality	
What Is It?	Business specific factors	Additional conversions because of an action	Online activities correlated to in-store conversions
	Business specific factors can have a significant	Did our change drive	Generating actual in-store results can take time
Why Do We Care?	impact on conversion rates and site activity	additional conversions?	Using proxy metrics helps us run more tests in less time



Customization, Incrementality & Proxy Metrics

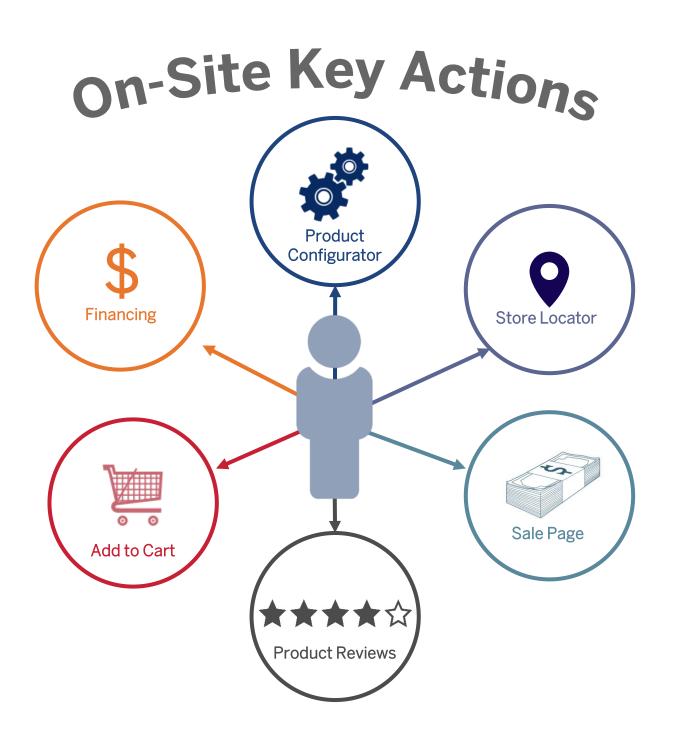
What Is It?

Why Do We Care?

Customization	Incrementality	Proxy Metrics
Business specific factors	Additional conversions because of an action	Online activities correlated to in-store conversions
Business specific factors can have a significant	Did our change drive	Generating actual in-store results can take time
impact on conversion rates additional conversions and site activity		Using proxy metrics helps us run more tests in less time



Proxy Metrics to In-Store Sales



Just getting customers to go to the website isn't enough to drive in-store conversions

We did additional analysis on on-site activity (i.e. looking at product reviews) and compared this activity to converting and non-converting customers in-store

In the end, we found certain "Key Actions" that buyers are more likely to take than non-buyers

These Key Actions become the main levers we can adjust to drive in store sales

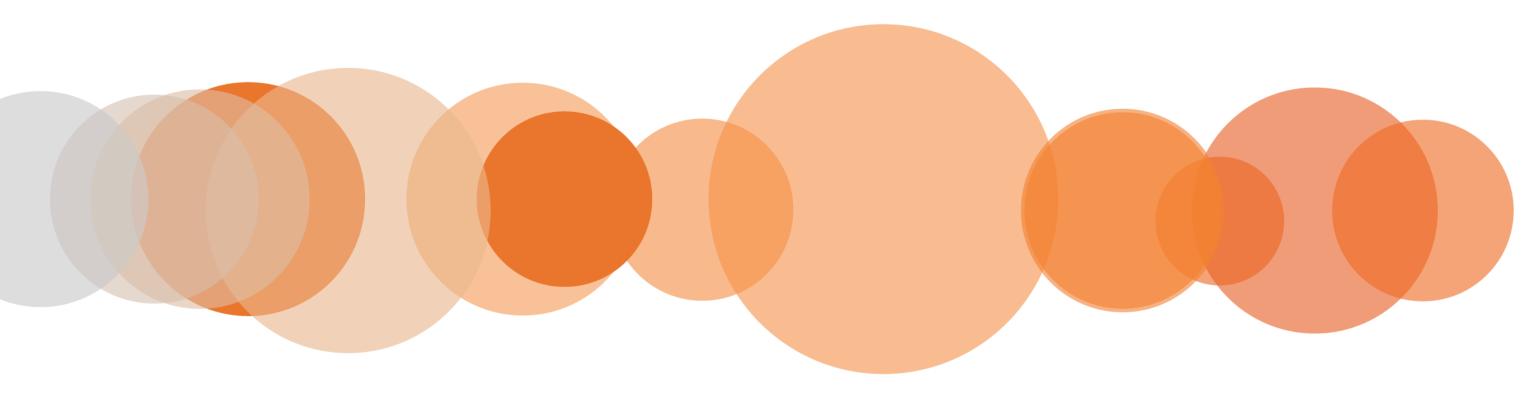
Use Proxy-Metrics to Measure Earlier

not all site sections drive conversions at the same rate they drive visits; it's important to understand both metrics

site sections as a % of total site visits and purchases

		% of visits	conversion rate
finance	\$	2%	15%
cart view		15%	10%
reviews page visit	****	7%	14%
product configurator usage	©	40%	4%
store locator - navigation	9	18%	12%
sale page visit		54%	6%

The Sexy Calculator

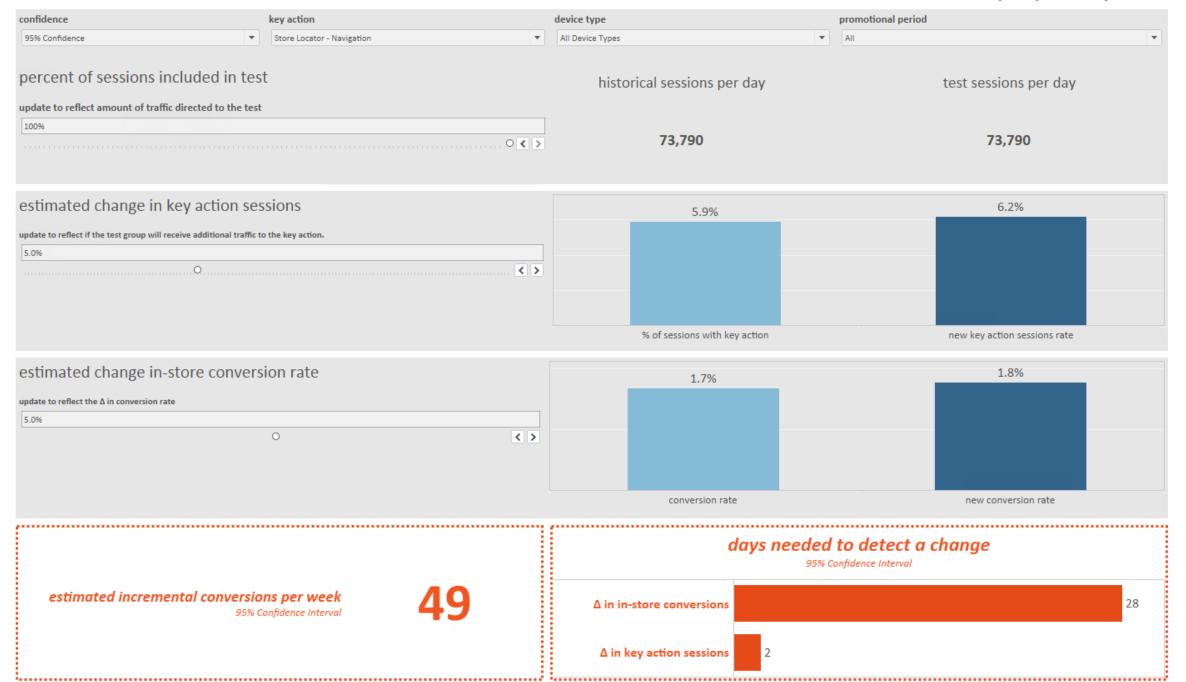




the A/B testing calculator provides an estimate of the following metrics:

- 1. days needed to reach statistical significance to read a change in EITHER key action sessions or conversion-rate of in-store units
- 2. weekly impact of that change if rolled out to all users in terms of in-store conversions

historical data from January 2017 through June 2017 incremental conversions assumes only one key action is modified at a time





Fill out the following:

Test Name
Review Link in Global Navigation
Browse Start Date
4/5/2017
Browse End Date
5/6/2017
Order Start Date
4/5/2017
Order End Date
5/20/2017
Panel A Name
Control
Panel B Name
Review Link in Global

Report Header Preview:

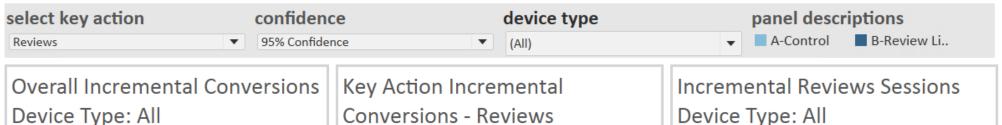
A/B Test Results: Review Link in Global Navigation

Browse Dates: 4/5/2017 - 5/6/2017 Order Dates: 4/5/2017 - 5/20/2017



A/B Test Results: Review Link in Global Navigation

Browse Dates: 4/5/2017 - 5/6/2017 Order Dates: 4/5/2017 - 5/20/2017



406

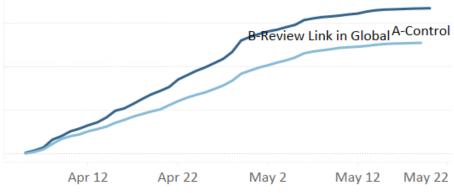
Key Action Incremental
Conversions - Reviews
Device Type: All
61

Incremental Reviews Sessions
Device Type: All

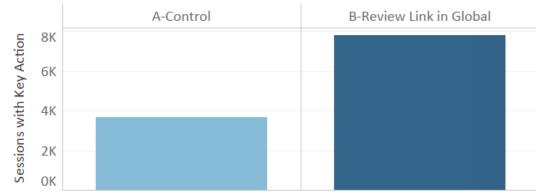
4,111

Cumulative Conversions

Device Type: All



Sessions with Key Actions Device Type: All



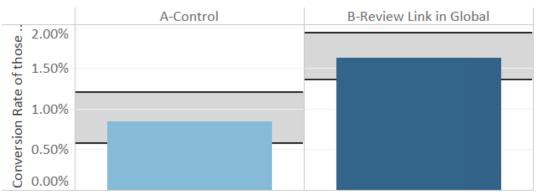
Overall Conversion Rate

Device Type: All



Key Action Conversion Rate: Reviews

Device Type: All





Browse Dates: 4/5/2017 - 5/6/2017 Order Dates: 4/5/2017 - 5/20/2017

select key action select confidence level Reviews ■ 95% Confidence ▼

Overall Results

Results by Device Type

		B-Review	Desktop		Desktop Mobile		Multi	
		Link in		B-Review		B-Review		B-Review
	A-Control	Global	A-Control	Link in Glo	A-Control	Link in Glo	A-Control	Link in Glo
Sessions	655,946	658,911	211,452	212,257	441,707	443,159	2,787	3,495
In-Store Conversion Rate	0.16%	0.22%	0.22%	0.26%	0.11%	0.18%	2.12%	2.86%
Incremental In-Store Conversion Rate		0.06%		0.04%		0.06%		0.74%
In-Store Conversions	1,030	1,441	467	562	504	779	59	100
Incremental Conversions		406		93		273		26
Are the results significant?	~	,	•	,	•	,	•	/

Key Action Results - Reviews

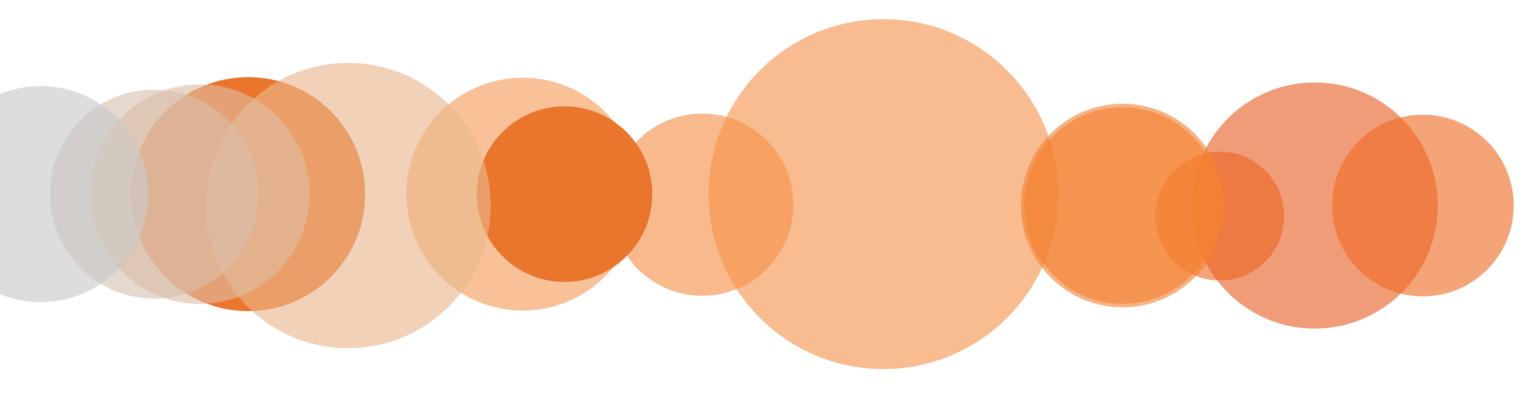
Key Action Results - by Device - Reviews

			Desl	ctop	Mo	bile	Mu	ılt i
		B-Review		B-Review		B-Review		B-Review
	A-Control Lin	ık in Global	A-Control	Link in Glo	A-Control	Link in Glo	A-Control	Link in Glo
Sessions w/ Key Action	3,662	7,790	1,629	4,445	2,018	3,274	15	71
Pct of Sessions with Key Action	0.56%	1.18%	0.77%	2.09%	0.46%	0.74%	0.54%	2.03%
Incremental Key Action Session Rate		0.62%		1.32%		0.28%		1.49%
In-Store Conversions - with Key Acti	31	127	10	70	17	40	4	17
Key Action Session Buy Rate	0.85%	1.63%	0.61%	1.57%	0.84%	1.22%	26.67%	23.94%
Incremental Buy Rate of those w/ K		0.78%		0.96%		0.38%		-2.72%
Incremental Units		61		43		12		0
Are the results significant?	~		·	,	>	<	>	<

"That's pretty f*cking badass"

An Actual Satisfied Client... in a meeting ...

Results



Case Study: I want it measured now

Question: what is the effect of the addition of a "find-a-store" pop up on an item detail page?

Hypothesis: adding the "find-a-store" pop up will increase customer store visits and overall revenue

Problem: reading a test with purely store sales metrics would take 8 weeks or more – this is way too long





Site Action Data Predicted Test Winners

Site tests are read using in-store conversion rates, but it can take time to achieve significance. 02S data allows us to predict and read test results more quickly.

Test Read 1

use key action conversion rates to more quickly read test results

 Δ key action conversion rate

+370 bps (store locator)
-132 bps (unit configurator)

Incremental annualized revenue

\$4m

Test Read 2

wait for sufficient data to achieve significance and use in-store conversion rate to read test results

Δ in-store conversion

+34 bps

Incremental annualized revenue

\$4.5m

both test read options give directionally the same results!



Problem: we have a ton of data

The data needed for the Sexy Calculator comes from our tagging solution which gathers all owned-media touches for our clients

for one client, 10 months of data is ...

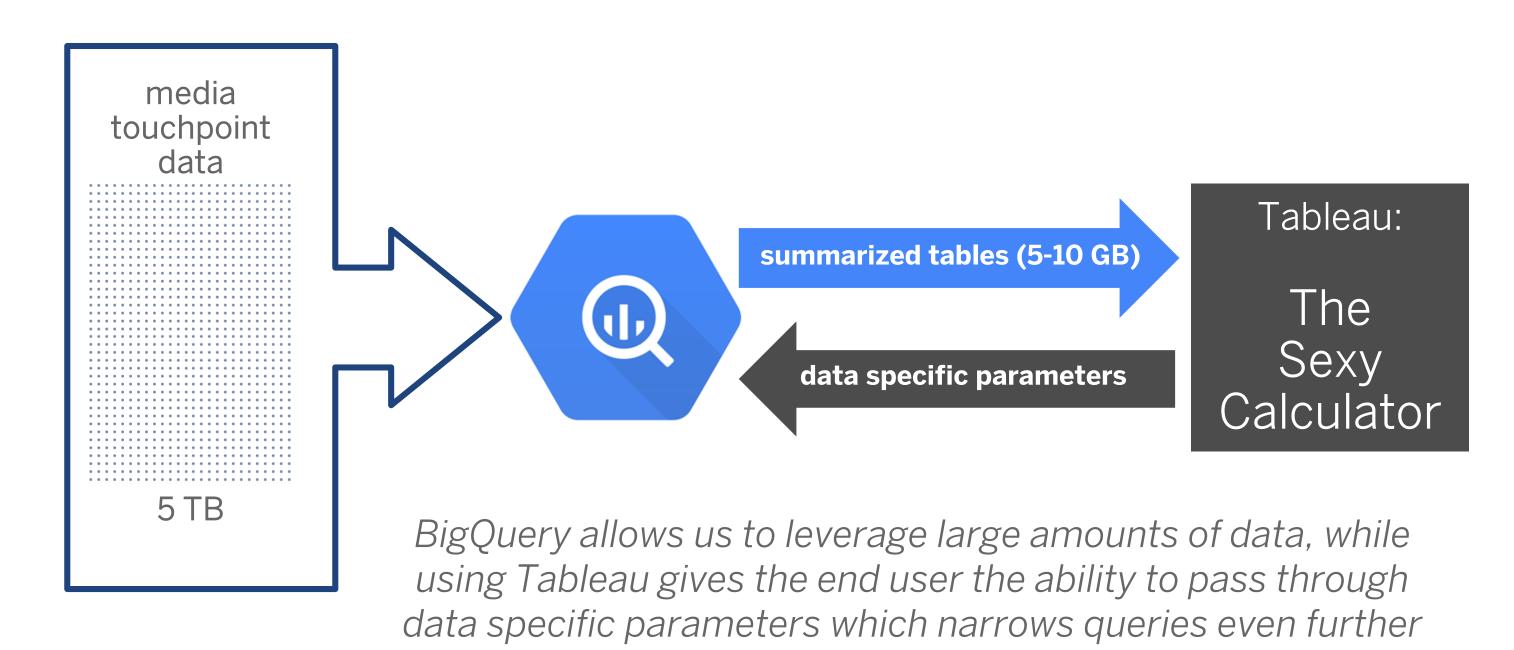
10 terabytes which is equivalent to ...

about 2.8 million songs, (assuming 3 minute song length and average quality)...

which, if stored on a 64g iPod touch without any cat videos or pictures would require ...

200 iPods!

Solution: Google BigQuery & Tableau



More Benefits: TIME

The Sexy Calculator has saved 30+ hours per month, leading to the question, "what can you do with an extra 30 hours?"

play 120 games of ping-pong

Watch all of the "Star Wars" films

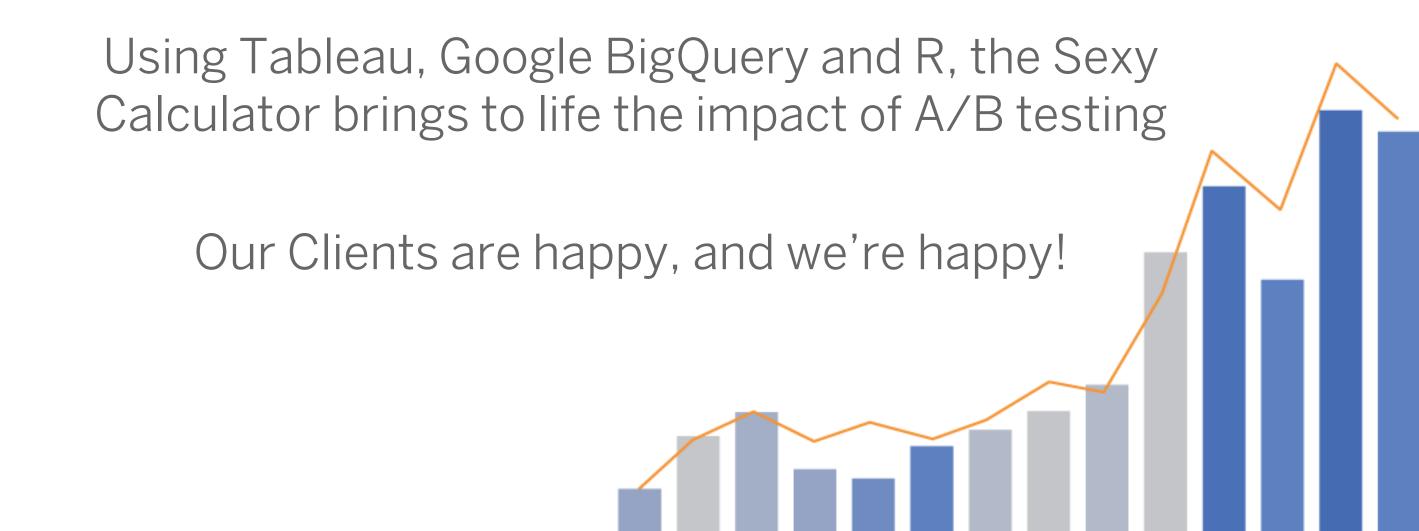
... twice

180 Totino's Pizza Rolls using a microwave

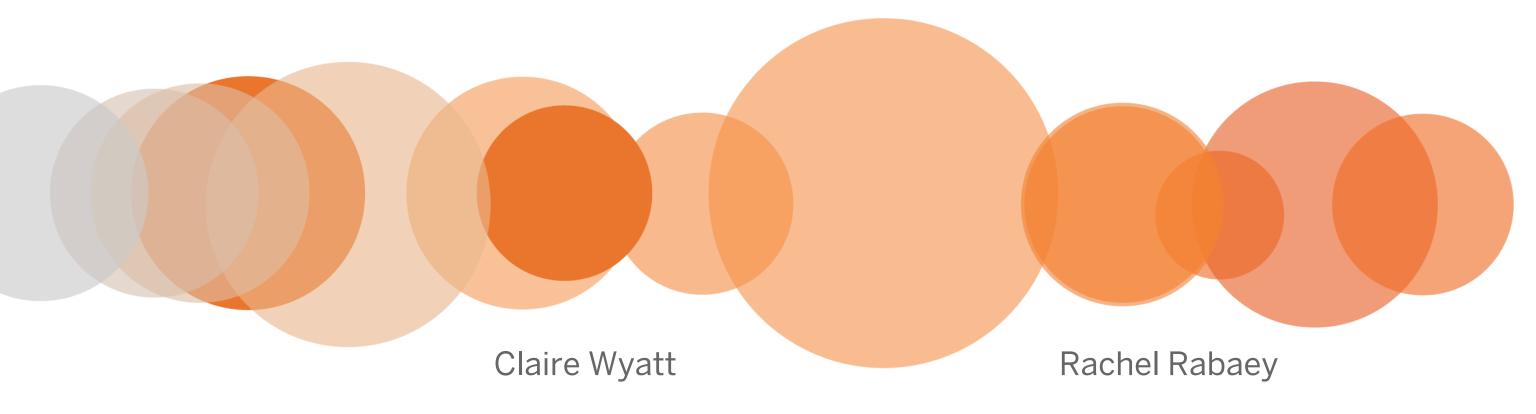


Summary

Site optimization to enterprise revenue is a musthave for retail clients



Q&A



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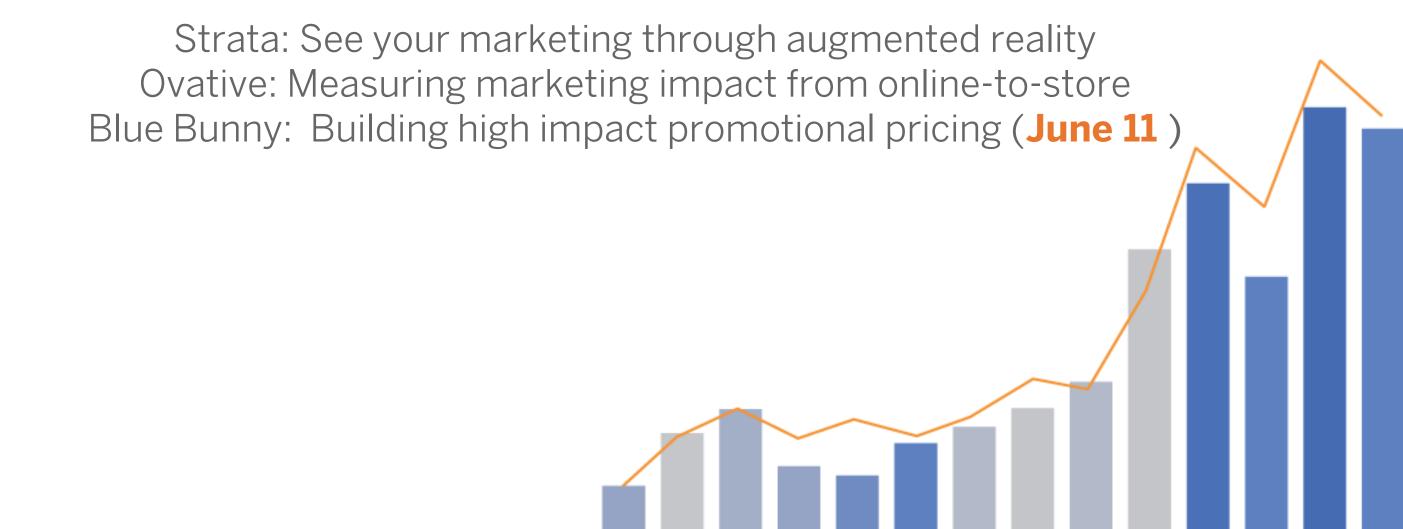




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