think2012 with Google

Greater with data

Joan Arensman

What we're NOT going to do





What we ARE going to do

1. What has changed?

2. What can you do?

3. How can Google help?





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What has changed?

from small samples to full datasets

Vier uur nieuws 4 542 2 As the world turns 4 593 22 Vijf uur nieuws 3 456 1 Tonu and Giarpio 2 539 11 Bold and the beaut 4 603 1 Zes uur nieuws 7 1000 22 Editie NL 7 1048 24 Ril boulevard 7 1042 24 Half acht nieuws 8 1152 24 Hae schenn is jauw 8 1214 15

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	\$19.10	11,36%	\$95,49	\$2.17	0,18%	23,879	44
	\$0.00	0.00%	\$111.84	\$1.53	0.14%	53,149	73
	\$0.00	0.00%	\$0.00			0	0
	\$33.42	7.97%	\$1,604.39	\$2.67	0.82% ()	73,392	602
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from single datasets to combinations of datasets





database software to scalable, cloudbased data analysis

from

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from reviewing past data to examining real-time data





BigQuery: analyzing massive datasets

Search

Google code labs e.g. "adwords" or "open source"

Google BigQuery Service (Labs)

A SQL-like tool for analyzing massive datasets

Google BigQuery Service is a web service that enables you to do interactive analysis d Scalable and easy to use. BigQuery lets developers and businesses tap into powerful

Features

- · Speed Analyze billions of rows in seconds
- Scale Terabytes of data, trillions of records
- · Simplicity SQL-like guery language, hosted on Google infrastructure
- · Sharing Powerful group- and user-based permissions using Google accounts
- Security Secure SSL access
- · Multiple access methods Can be used by REST API, a command-line tool, a Apps Script

Uses

- Ad-hoc analysis
- Standardized reporting
- Data exploration
- App prototyping

Note: BigQuery is currently in preview and open to a limited number of enterprises and be notified when you can start using BigQuery. For more information, take a look at the

What's New in V2?

Bigguery V2 has many exciting new changes from V1:

- A new <u>REST API</u>
- · A new web user interface
- Support for JOIN statements
- · Ability to export a table or query result to a CSV file in Google Cloud Storage
- Support for ACLs on collections of tables
- · A new object architecture describing tables, groups of tables, and queries. This new architecture is described under Main Concepts below.

BBC

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15 November 2011 Last updated at 07:34 ET

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Google's BigQuery service challenges analytics industry

Google has offered businesses the chance to use its servers to crunch huge amounts of their raw information.

The firm's BigQuery service is designed to help organisations identify and analyse trends from their datasets.

Google said small businesses struggled to access such tools in the past.

Experts said that the service had the potential to



Google says high volume data analysis traditionally cost businesses "tremendous" sums

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BigQuery: analyzing massive datasets

Google code labs e.g. "adwords" or "open source"	Search	
Google BigQuery Service (<u>Labs</u>)		
A SQL-like tool for analyzing massive datasets	BBC	
Google BigQuery Service is a web service that enables you to do interactive analysis of Scalable and easy to use, BigQuery lets developers and businesses tap into powerful of		NOLOGY

Rapidly crunching terabytes of big data can lead to better business decisions, but this has traditionally required tremendous IT investments. Imagine a large online retailer that wants to provide better product recommendations by analyzing website usage and purchase patterns from millions of website visits. Or consider a car manufacturer that wants to maximize its advertising impact by learning how its last global campaign performed across billions of multimedia impressions. Fortune 500 companies struggle to unlock the potential of data, so it's no surprise that it's been even harder for smaller businesses.



Two recent McKinsey reports

Big Data The next frontier for innovation, competition and productivity

"The use of Big Data is becoming a key way for leading companies to outperform their peers"

"The United States alone faces a shortage of 140,000 to 190,000 people with deep analytical skills as well as 1.5 million managers and analysts to analyze Big Data and make decisions based on their findings"

Big data: The next frontier for innovation, competition, and productivity

think2012 with Google <u>Granularity of growth</u> How to identify the sources of growth and drive enduring company performance

"Increased market share is seldom a driver of growth. Growth is driven mainly by where a company chooses to compete"

"The key is to focus on granularity: to breakdown bigpicture strategy into its smallest relevant components to uncover pockets of opportunity"

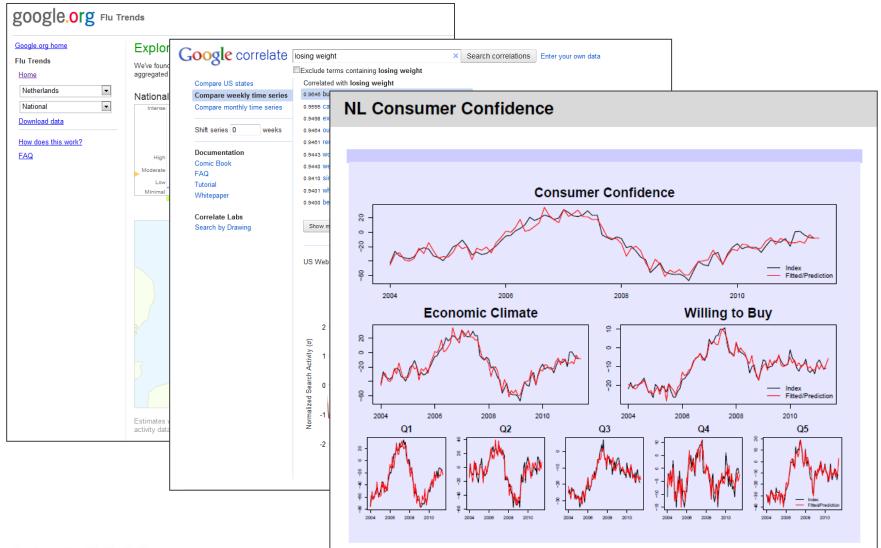
ATRICK VIGUERIE + SVEN SMIT + MEURDAD RAG

GRANULARITY

GROWTH

Enduring Company Performa

Predicting the present





What we ARE going to do



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What best-in-class looks like (our perspective)

FOCUS

- Continuously striving to reduce complexity (even at the cost of some minor business gain)
- Clear (and rarely changing) attribution model, to provide direction for all Sales/Marketing efforts

TECHNOLOGY

- Close cooperation between IT and Sales/Marketing (with dedicated developers in Sales/Marketing)
- Conversion rate of the website ultimately drives all Sales success online (and requires permanent testing / improvement above all else)

MINDSET

- Willing and able to test every new product, feature or idea fast and at scale, with a true testing culture in place
- Centrally organized, with only a few key decision-makers who can react quickly

DATA

• Always looking for new ways to slice and dice ever-increasing amounts of data



Attribution model



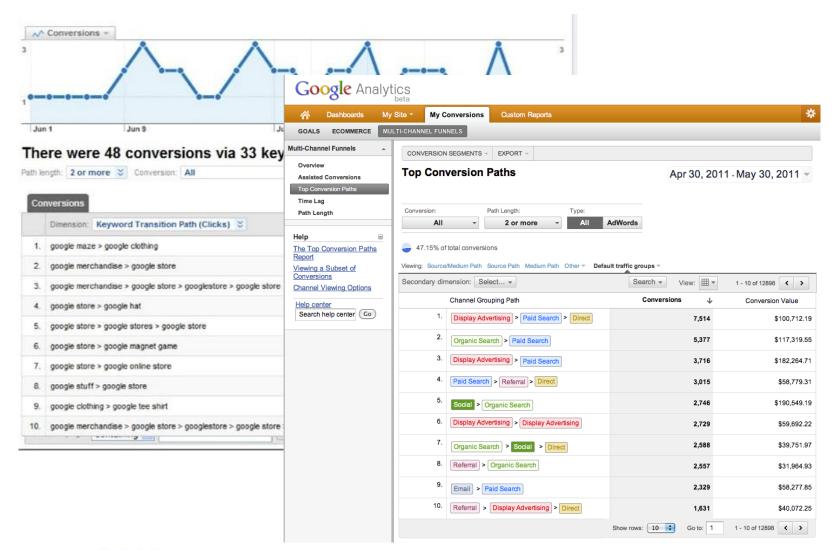
 Attribution model based on search funnel and crosschannel funnel analysis

 Continuous discussion on best attribution model One agreed attribution model, which is up for discussion only once a year



Google Confidential and Proprietary 12

Clear attribution model





Dealing with complexity

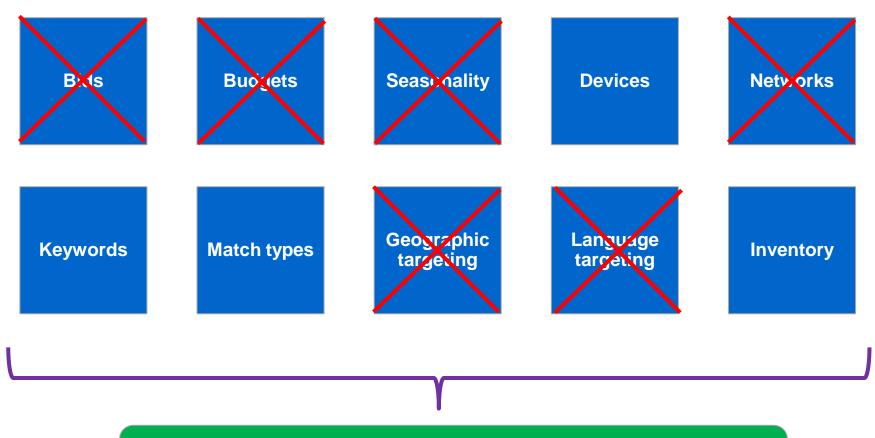
• Trying to capitalize on every single opportunity

Lightning focus on the top-x value-driving opportunities

 Adding new features / solutions / systems, while leaving all predecessors in place Actively working to reduce complexity as a goal in itself (even at the cost of some minor business gain)



Overriding goal: reducing complexity



The smartest companies consciously try to eliminate variables – even at the loss of some conversions



Cooperation between IT and Sales/Marketing

No IT expertise or resources in Sales/Marketing

 Dedicated developers assigned to Sales/Marketing teams

 Strictly formal relationship between IT and Sales/Marketing ("change requests") Shared goals and fluid exchange of ideas between IT and Sales/Marketing



Landing pages that work: the BIG ten







Website conversibility

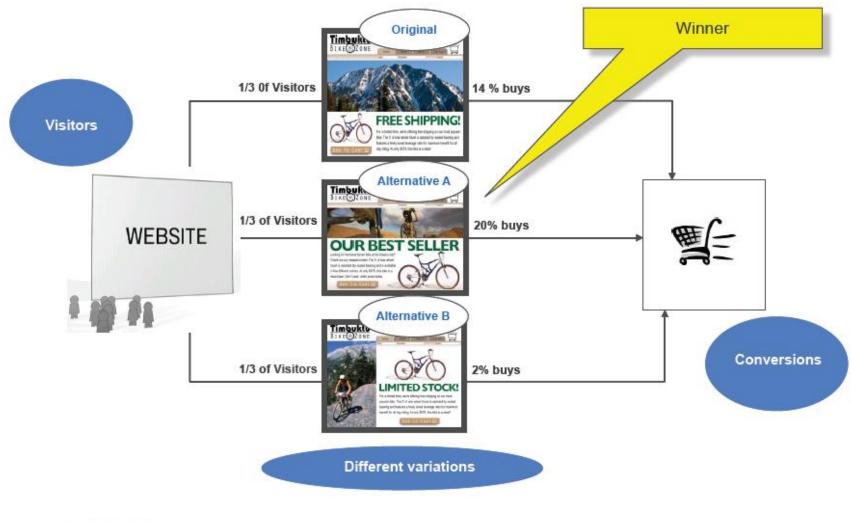
Optimizing landing pages
only

 Continuous website optimization, including landing pages, checkout process, on-site search, etc.

 Single-minded focus on driving more traffic to website, rather than converting existing traffic • Realization that opportunity through website improvement is (far) larger than driving more traffic



Testing, testing, testing





Testing

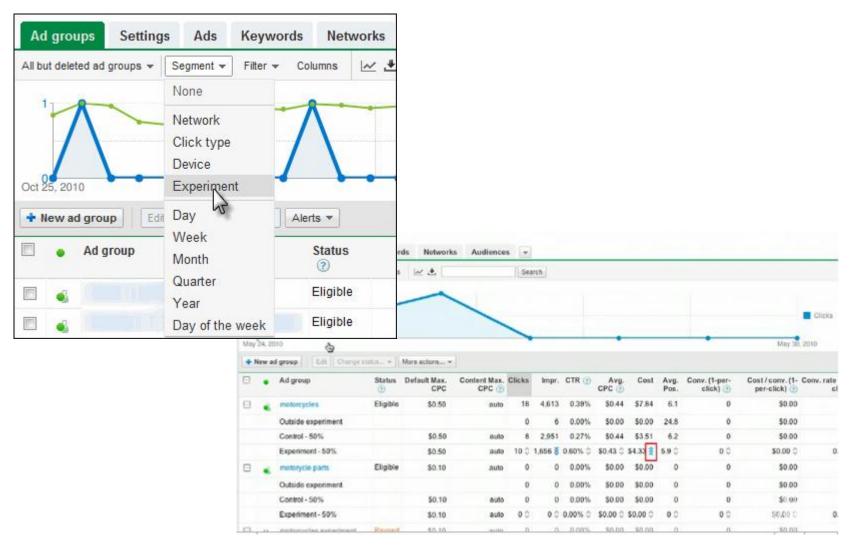
Occasional testing of new features / products

• Continuous testing, engrained as a culture

 No testing at all for fear of tampering with the "moneymaking machine" • Test on small samples of your core revenue-driving systems (1%, 20%, etc.)



AdWords Campaign Experiments





Few key decision-makers

 Limited freedom of movement for online Sales/Marketing staff Allowing online Sales/Marketing staff the freedom to capitalize on opportunities quickly

 Never-ending discussions based on yet more data Having a clear decisionmaker in the room, who charts the course



Single decider



"All meetings should have a single decider"



What we ARE going to do

1. What has changed?

2. What can you do?

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Lots (lots!) of tools/resources

Externally available:

- Google Analytics
- BigQuery
- Prediction API
- Insights for Search
- Google Correlate
- Google Refine
- Keyword Tool

Google internal:

- Benchmarking
- Query categorization
- Destination analysis
- Top queries
- Top rising queries
- Query volumes
- Auction metrics

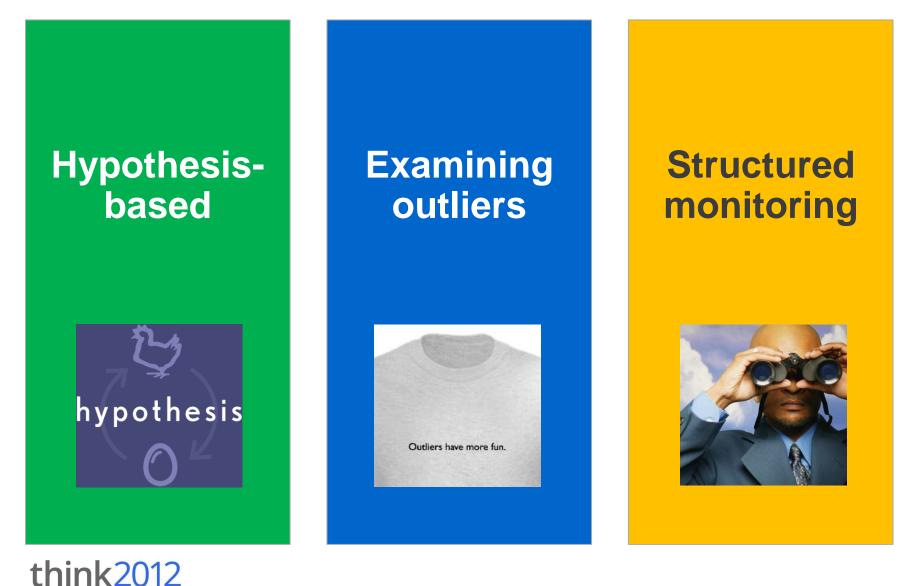
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Three ways to analyze data

with Google



Which combinations of data add most value?

Data usually accessible to **agency** only

Data usually accessible to <u>company</u> only

- ROI
- profit
- inventory

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Data usually accessible to <u>all</u> (AdWords)

- impressions
- clicks
- conversions
- CTR
- CPC

. . .

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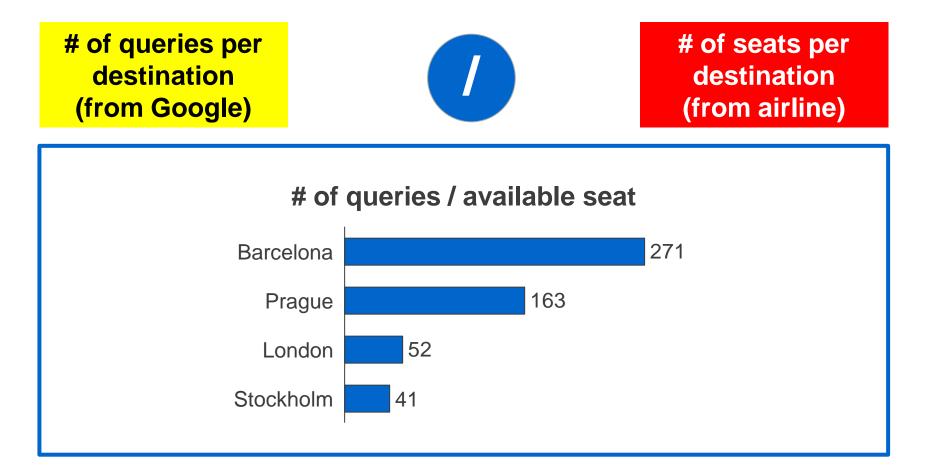
Data usually accessible to <u>Google</u> only

- market size
- top queries
- query coverage
- auction depth
- ...

Third party data



Example: airline seats

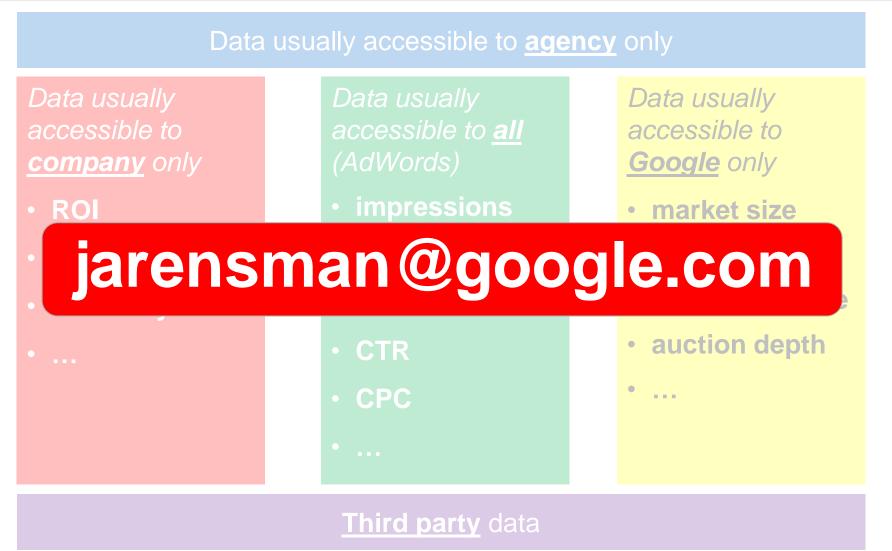


We have now combined demand (queries) with supply (seats)



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Let's continue the conversation...





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