evener Meaning and Insight Through Search Analytics

Adobe purchased the stock media provider Fotolia in 2015 for \$800m

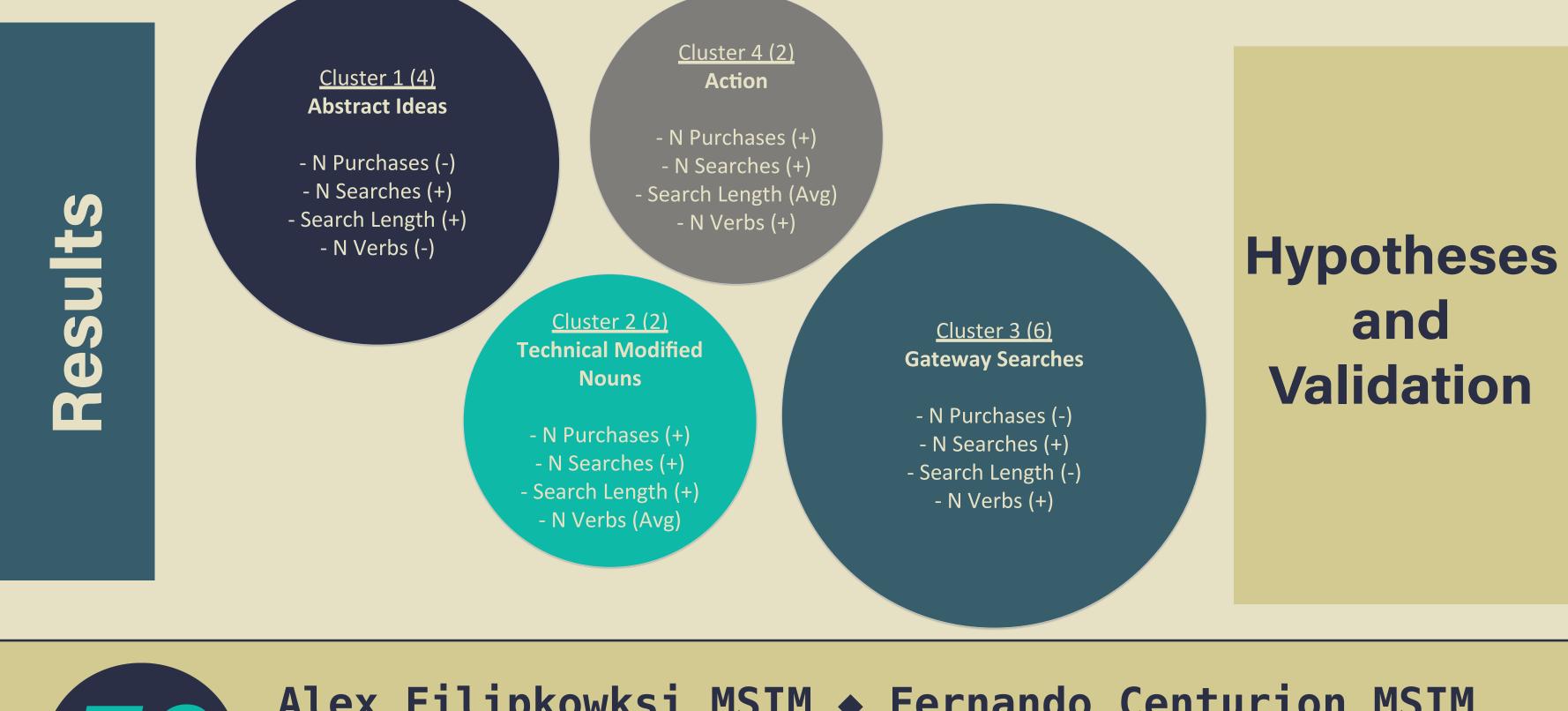


Context

Approach

Problem

- Raw query data aggregated in Hive
- Content engagement variables generated
- Query variables generated using natu processing
- K-means clustering algorithm performed i
- Process refined and repeated until meaning are formed





Adobe wants to know how their customers interact with this new service, but users generate massive amounts of data that can be difficult to understand.

50 Million 3 Million 80 Million Interacting With Performed By mages and Video. Searches

	Query	Purchase Rate	Number of Searches	 Search Length	Number of Verbs	Clustering
	Bird	9%	14K	 4	0	
d	Working Out	13%	15 K	 11	1	
	Backgroung Logo	24%	5 K	 15	0	
	Theater	14%	13 K	 7	0	
tural language	Yoga Silhoute	27%	5 K	 14	0	
	Student Loans	12%	15 K	 13	0	
	Perfect Day	11%	13 K	 11	0	
	Strategy	3%	14 K	 8	0	
l in Python	Man Fishing	31%	16 K	 11	1	
	Flying Plane	26%	17 K	 12	1	
	Skyline	6%	15 K	 7	0	
ningful clusters	Job Interview	17%	15 K	 13	0	
	Commerce	15%	15 K	 8	0	
	Cloud	18%	13 K	 5	0	

Example Hypothesis:

Cluster 3: Gateway Queries represent short and simple queries where a user is beginning a search use a generic term, and looking at results to help formulate their subsequent searches. Gateway searches are common but are rarely result in purchases.

Validation:

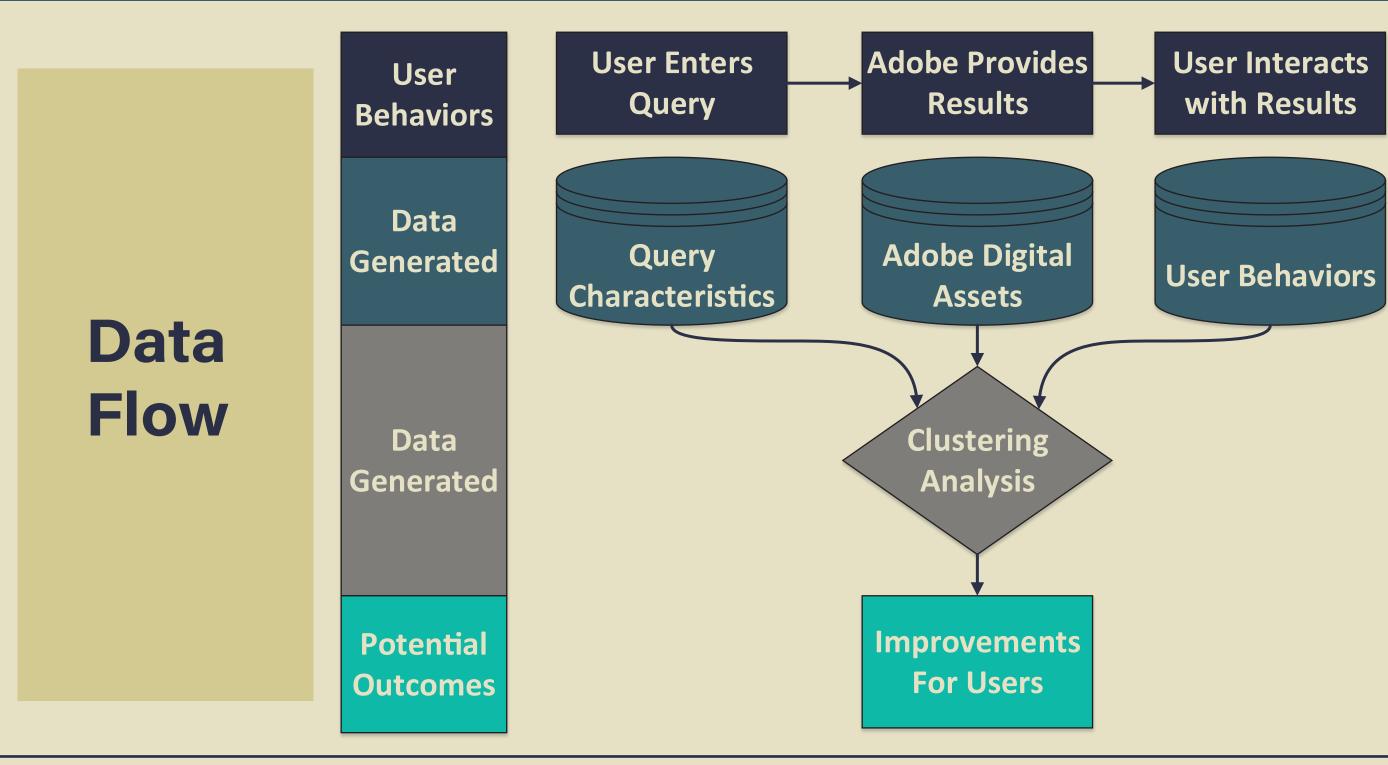
Hypotheses are validated using "user traces" where a customer's pruchasing and download history is viewed in conjunction with their movement from one search to another.

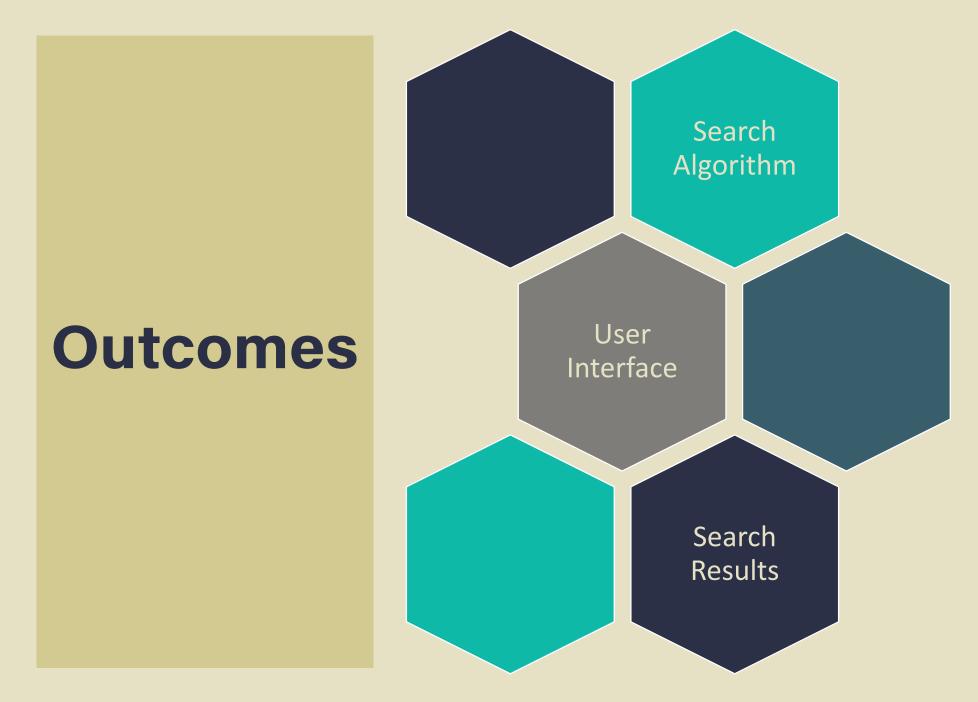
Andy Edmonds

Project Sponsor









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