



Crystal Semantics

semantic advertising solutions

Crystal Semantics overview



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Crystal Semantics' semantic advertising and brand safety
platform automatically categorizes, classifies and extracts
concepts from Web content in real-time with greater than 94%
accuracy, enabling Real-Time Bidding and delivery of highlyrelevant advertising that achieves significant campaign CTR /
effective CPM increases compared to keyword-based targeting
methods (e.g. AdSense)

History



- Founded in 2001, based in London and Copenhagen, spin-out of ad pepper media International N.V
- FY2012/13 revenue \$3.2M
- Professor David Crystal, recognized expert in linguistics and semantic classification, remains active member of team in advisory role
- # IP represents 435 man-year, \$44.3M R&D investment
- US & UK patents for 'Apparatus for classifying or disambiguating data'













OmnicomGroup



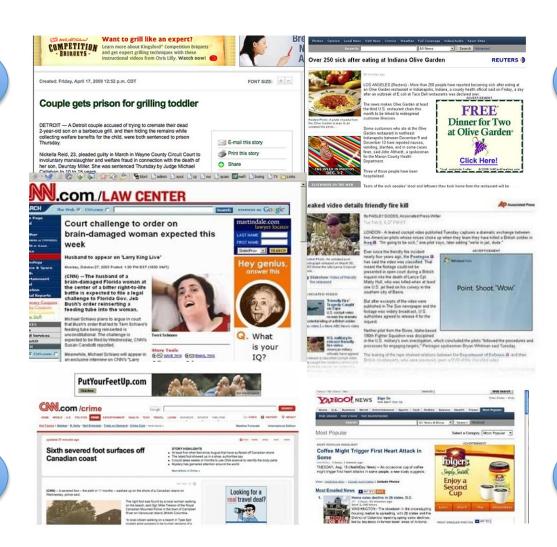
Problem Overview

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Low Relevance

Limited

Insights



Poor Response

Brand Damage

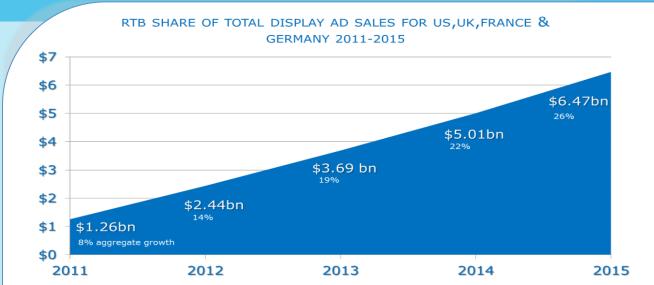
Big data problem

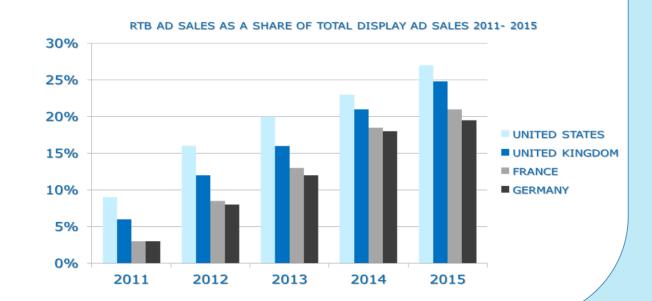




Why online advertising?

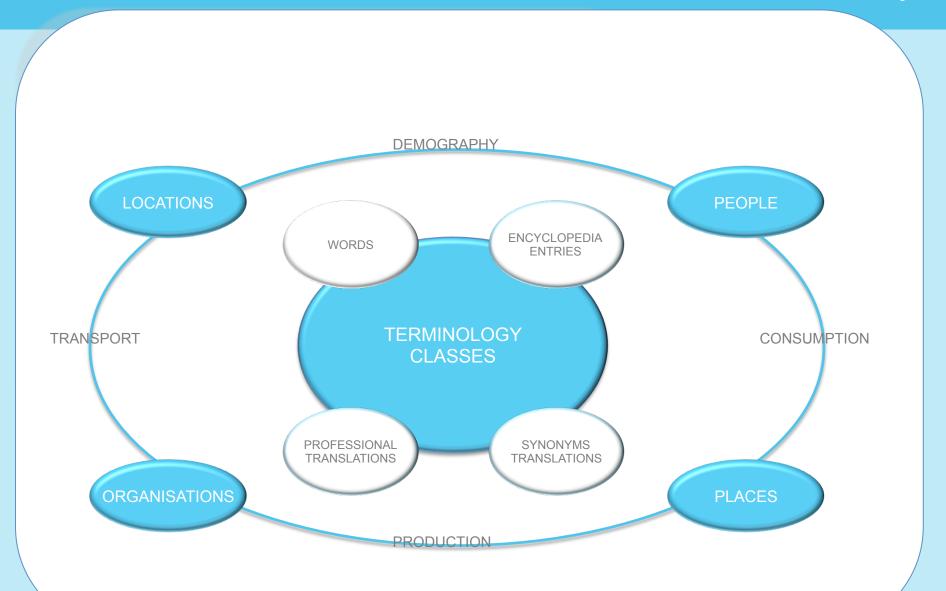




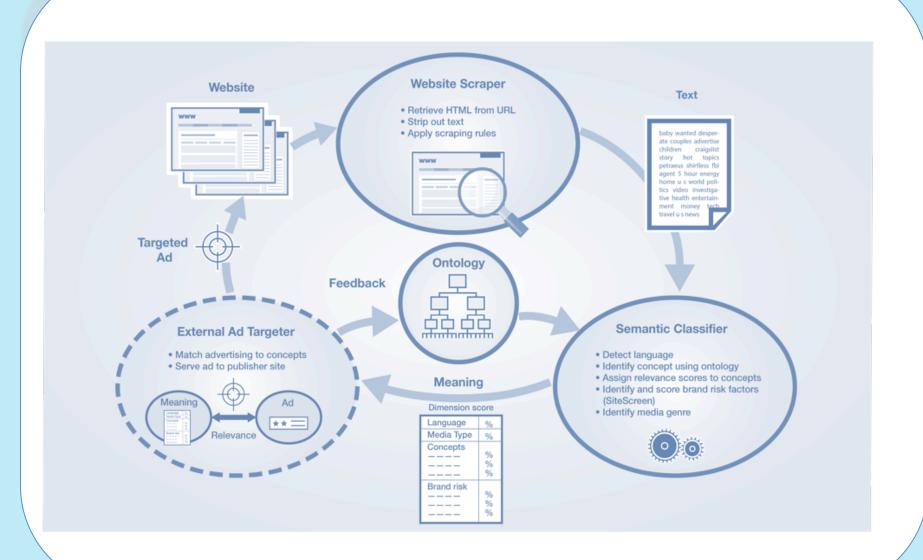


Global Data Model

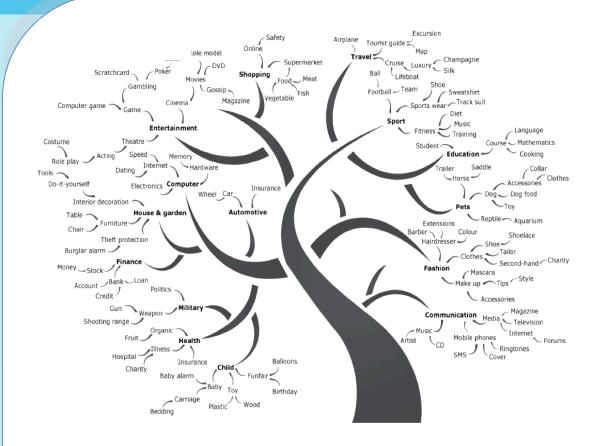




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Sense Engine™ Taxonomy



- Language
- Category
- **Media Genre**
- **Sentiment**
- **Brand unsafe content** & other data points

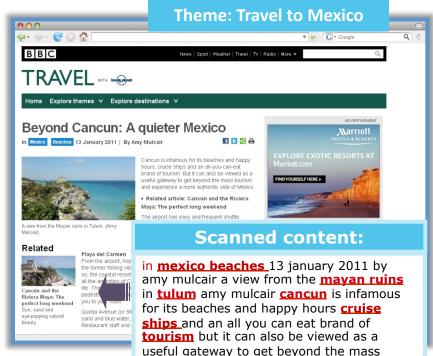
In 12 languages

- English
- French
- German
- Dutch
- Danish
- Spanish
- Italian
- Finnish
- Swedish
- Norwegian
- Portuguese
- Turkish



Efficient Positioning





tourism and experience a more authentic

the airport has easy and frequent shuttle

service to alternative destinations such as

playa del carmen and tulum where you

can be on a crowd free beach

side of mexico related article cancún and the riviera mava the perfect long weekend



Theme: Pregnancy and birth

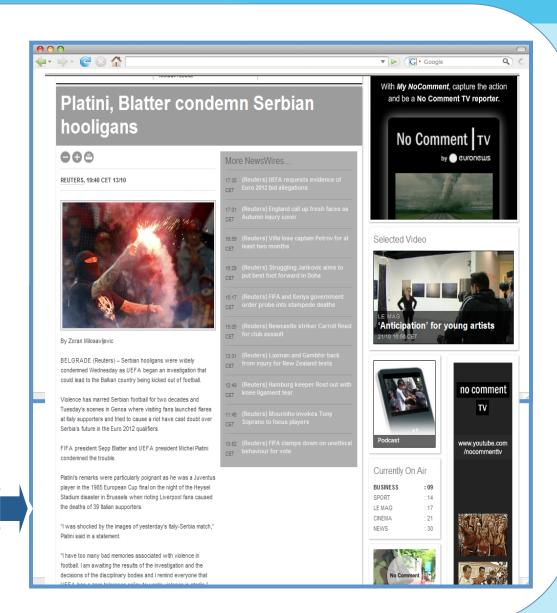
Avoiding damaging placement

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The night of scandal in Genoa. 400 Serbian hooligans threw fireworks, torches and smoke bombs. "Only with a kalashnikov would we have been able to get this under control, said Italian official Marcello Nicchi. The Serb is apparently the hatchet man for a right-wing extremist fan group of Red Star Belgrade (Ultra Boys). At least 16 people were injured. The police arrested 17 rioters.

Screening content



Campaign Performance Optimization

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semi	antic :	adver	tisina	solution	

Customer	Target Audience	iSense Performance
T··Mobile·	Tech savvy, ABC1, early adopters, male predominant	CTR of 1.1% vs. 0.15% for search advertising (700% higher); CPA 300% lower
BDO Stoy Hayward	CXOs and BDMs	CTR of 2.6% vs. 0.4% for search advertising (650% higher)
EMI	Tailor-made categories specific to each artist	CTR 500% higher than competing keyword-based targeting solutions
TOYOTA	Hybrid car owners, green / environmentally friendly, checking out competitors	CTR 600% higher than competing keyword-based targeting solutions
Johnson Johnson	Highly-specific interests such as 'quit smoking', 'cholesterol'	CTR 500% higher than competing keyword-based targeting solutions

Value Proposition

STRATEGIC

- Lead in ad targeting / relevance; own most accurate semantic context classification tech. in the industry
- Contextually decode, evaluate entire Media Network / Ad Exch. inventory to optimize targeting, monetization
- Offer industry-leading intelligent brand protection far more scalable than rules and white / black listing

COMPETITIVE

- Deliver most relevant inventory and precisely targeted ads with >94% contextual classification accuracy
- Enhance remessaging, behavioral and category targeting with real-time context classification
- Roll out cookie-less context-based targeting / content analysis at scale, 100% compliant with privacy laws

INTELLECTUAL PROPERTY

- Pure linguistics-based hierarchical model of >1M concepts, 4M words in 3,800+ thematic categories
- Patented algorithm disambiguates word senses in multiple languages with greater than 94% accuracy
- Architected for massive scalability; leverages global content delivery networks for <5ms response time

MONETIZATION

- Increase advertising ROI / eCPM via enhanced visibility of audience, greater relevance and better optimization
- Grow Ad Exchange customer base via enhanced realtime bidding precision, automated brand protection
- Price-optimize inventory faster, more effectively via automated fine-grained classification



Thank you

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