





Speaker:

Dr. Aaron Reid

Ph.D. Founder and CEO

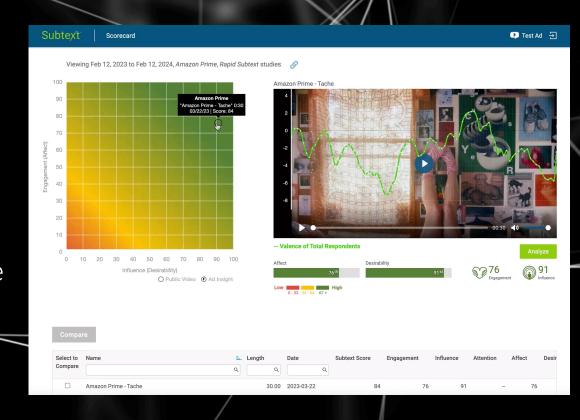
Sentient Decision Science



Evaluating the Performance and Future of Emotion Al

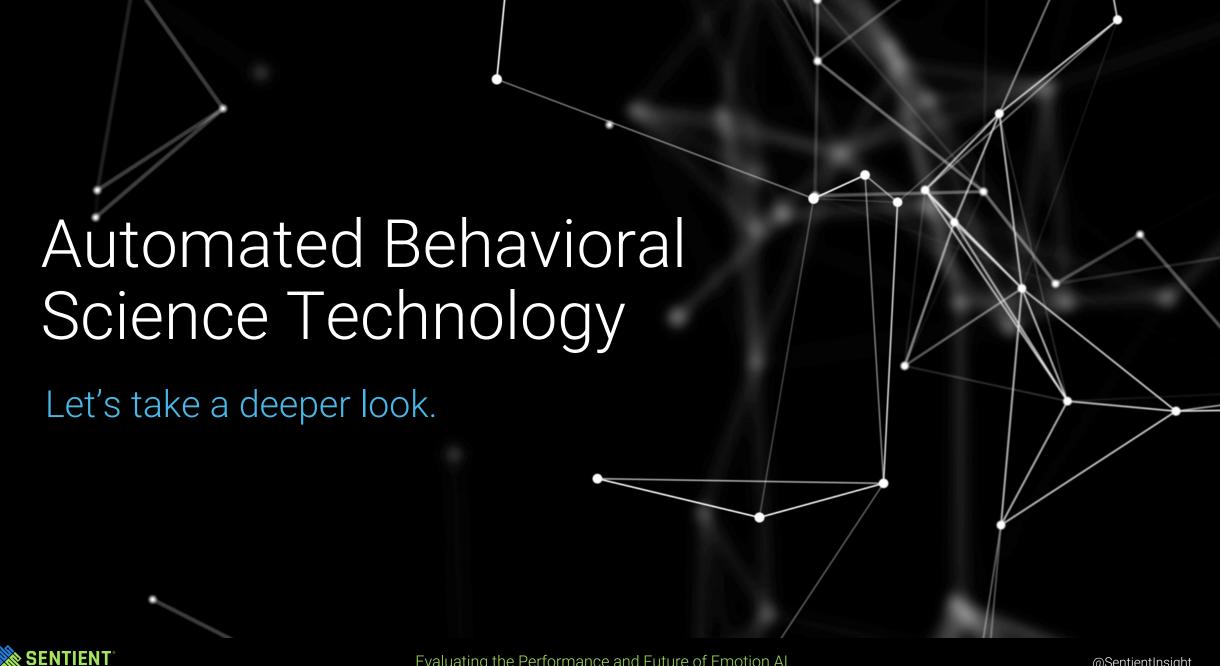
SENTIENT INSIGHTS®

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Evaluating the Performance and Future of Emotion Al





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Sentient Expression is a deep learning Emotion AI technology that quantifies the human emotional experience.

Sentient Expression leverages respondents' webcams, making it a globally scaled, efficient measure for investigating natural responses to your media under real-world conditions.

- Capture moment by moment expression of emotions like happiness, sadness, disgust, fear, & surprise
- Filter how engaged your key segments are, and where you're losing them
- Reveal positive and negative emotional responses, overall emotional engagement and valence
- More accurate detection of emotions with validation by multiple Emotion Als







Sentient Prime is a scientifically valid and patented implicit association technology used to reveal the subconscious associations which influence behavior.

- Measure Emotional Appeal to reveal preference and purchase intent
- Uncover Self-ID to measure the consumer's sense of self and overall brand loyalty
- Discrete Association results provide the equities and attributes that are true, ownable or valuable
- Reveal what was encoded in memory
- Reliable correlations to bio-metrics and works on any device!





The Sentient Eye platform deploys Al-powered eye tracking technology at scale, integrated with Sentient Expression to deliver a complete picture of real-time audience response to media.

- Measure attention to static or dynamic media
- Document comprehension of advertising narratives
- Identify visual storytelling design elements that are effective or ineffective at focusing audience attention on your narrative



Subtext®

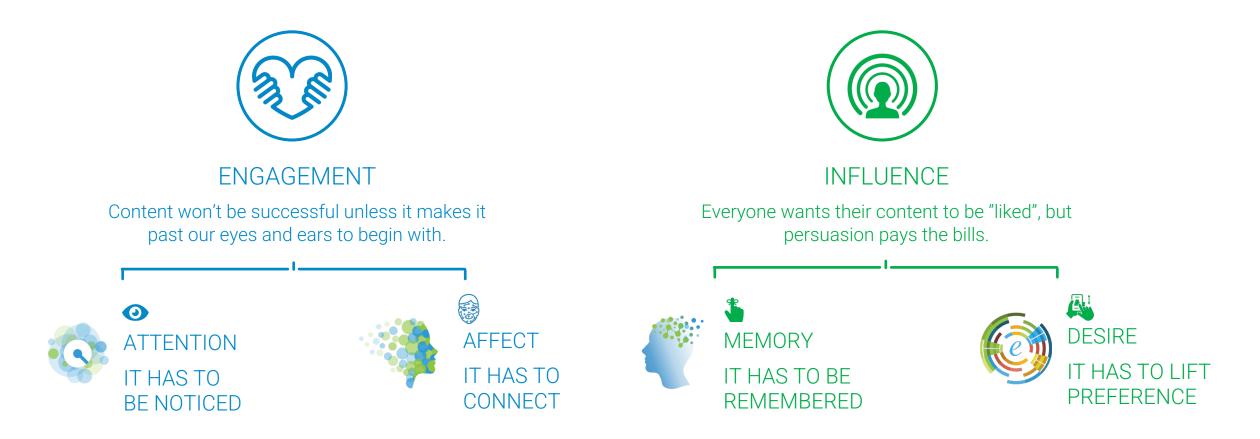
EMOTIONAL INTELLIGENCE FOR ADVERTISERS

Pinpoint the Moments
That Change Attitudes
with Subtext Emotion Al





Subtext is based on a fundamental model of psychological persuasion.



The best behavioral science methods are then attached to each pillar of that model and scaled for global measurement.



Performance results are visualized within the Subtext Scorecard and optimization diagnostics within the online Analysis Tool.



The degree of emotion (Affect) expressed by the audience moment by moment during ad exposure. Greater degrees of emotion, positive or negative, equate to higher scores (0-100 normative scale).



Evaluates ad performance according to its ability to drive System 1 implicit emotional brand appeal, influencing the audience positively toward the brand.



Subtext® Scorecard. Media in the High Engagement & High Influence area are the best in the marketplace. These ads breakthrough, captivate, maintain attention and improve demand for the brand.

Engagement and Influence summary.



Subtext is applied at all stages of creative development.



Creative Ideas



Storyboards



Animatics



Rough Edits



Final Cuts



Enabling consumer insight at each of these creative development steps empowers us to shape campaigns according to fundamental human motivation insights. This results in more emotional advertising and breakthrough creative campaigns.



Sentient's ad testing product Subtext combines Automated Behavioral Science with Emotion AI to validate performance across all stages of creative development

TVCs



Social









Outdoor



Audio







Evaluating the Performance and Future of Emotion Al

Maximize Volume Response & Efficiency: Third Party Validation Case Study

Objective

A global alcoholic beverage company wanted to validate Sentient's automated behavioral science measure's ability to predict in-market advertising performance.

Solution

The customer conducted an independent analysis examining the relationship of of Sentient's combined System 1 & System 2 behavioral science measures known as the "Influence Score" to GRP (Gross Rating Point) performance on campaigns tested by Sentient over two years.

Results

The learning was to prioritize creative with high Influence scores to maximize volume response and efficiency. Sentient's automated behavioral science measures demonstrated a robust ability to forecast in-market performance. Correlating to how often someone must see the ad before they can recall it and how many ad exposures does it take before the desired outcome occurs.

Influence Correlation to GRP Over 2 Years



Incremental Volume / 100 GRPs

Source: Customer third party research company applying Sentient's neuroscience capabilities to GRP performance over two years (2021).



Evaluating the Performance and Future of Emotion AI



Optimizing Creativity: Emotion AI Cut Downs Case Study

Objective

A global alcoholic beverage company sought to enhance the effectiveness of its advertising for a new campaign. Initial testing revealed subpar performance in the :15 version, prompting a need to diagnose issues and refine the creative accordingly.

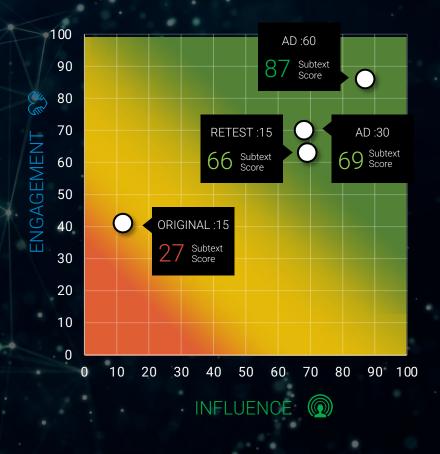
Solution

Sentient's Subtext product was utilized to conduct System 1 and System 2 testing, gathering comprehensive diagnostics to analyze audience engagement and influence more thoroughly.

Results

In this a retest of a :15 ad, the brand effectively addressed issues from the original cutdown, restoring narrative clarity akin to longer versions. Confidence in placement stemmed from high scores, culminating in an esteemed Cannes Lions award. Utilizing Subtext consistently demonstrated alignment with optimization diagnostics, resulting in year-over-year improvements in creative performance.

Creative Retest Results



Source: Applying Sentient's neuroscience capabilities to enhance creative. (2023)



Evaluating the Performance and Future of Emotion AI





Unlocking Sales Potential: A Case Study on Emotion Al's Predictive Power

Objective

Meta engaged Sentient to test the ability of Emotion AI to predict sales within social media advertising in comparison to current market survey tools.

Solution

We tested over 500 ads to validate the accuracy of Sentient's automated behavioral science methods for future large-scale research projects.

Results

The year-long study conclusively demonstrated that Sentient's Emotion AI measures outperformed Meta's previously utilized tools and was 3X more accurate. Sentient's methods out outperform traditional explicit measures of purchase likelihood & indices of explicit questions in predicting sales.



84.3%

28.6%

CURRENT MARKET SURVEY TOOLS



SENTIENT INSIGHTS EMOTION AI PLATFORM

Source: Facebook Measurement Council at Meta: Applying neuroscience to brand measurement 10,000 consumers, 53 products, IRI Sales data (2019).



Evaluating the Performance and Future of Emotion AI

Sentient's 15-Year Validation Journey: Building Trust Through Evidence



Reliable

- Largest global neuro-reliability study
- 510 ads with 40,000 consumers
- Published at Neuromarketing World Forum in Singapore 2019



Sales Prediction

- Consumer brand preference validated for over 10 years with hundreds of thousands of consumer judgments correlated with brand sales data (e.g. P&G, Heineken, Abbott)
- Proportion of emotion model (POE) outperforms the industry standard choice based-conjoint in accurately predicting product sales



Sensitivity

- Sensitivity of the Subtext implicit measure of emotional appeal has been validated to detect the implicit impact of 600 millisecond ad exposures on Instagram.
- Published data of 50 studies demonstrated the Subtext POE model captured significant brand influence 2.5X more often than explicit measures in both social media and TVC tests.



Brand Loyalty

- Implicit self-identification measure of long-term brand attachment and loyalty has been validated in the Sentient Labs and by third party client data.
- Emotional engagement and implicit influence on brand predicted social sharing and views of online ads at a rate of more than 5X industry paststandard Likert Scales of ad effectiveness.



Third-Party Validation

- Independently validated by clients in the top 200 advertisers in the US
- Correlate to in-market brand success metrics including top-of-mind brand awareness
 & brand preference in-market







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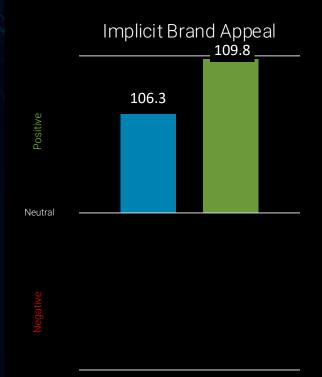
SCORE 82

ENGAGEMENT 94

influence 69

Moment by Moment Facial Expression Analysis







Implicit Lesting

■ Pre-Exposure



--- Valence Ratio



Positive



Negative



■ Post-Exposure

Moment by Moment Facial Expression Analysis



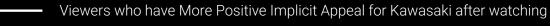




Positive



Negative



Viewers who have More Negative Implicit Appeal for Kawasaki after watching









SCORE 67

ENGAGEMENT 98

influence 36



EMOTIONAL ENGAGEMENT

Automated Facial Action Coding

Moment by Moment Facial Expression Analysis



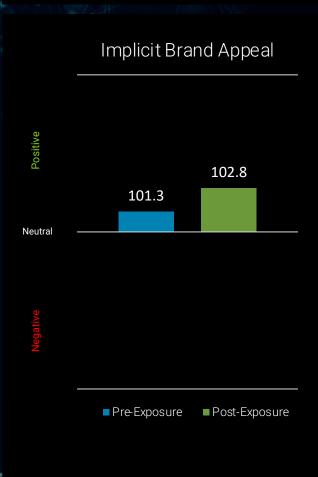
Valence Ratio



Positive



Negative





Implicit Testing









Automated Facial Action Coding

Moment by Moment Facial Expression Analysis

EMOTIONAL ENGAGEMENT



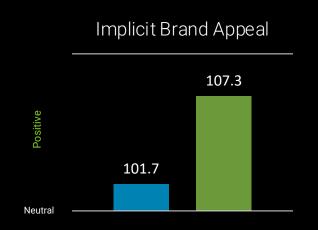
Valence Ratio



Positive



Negative









* Significant difference 95% confidence level

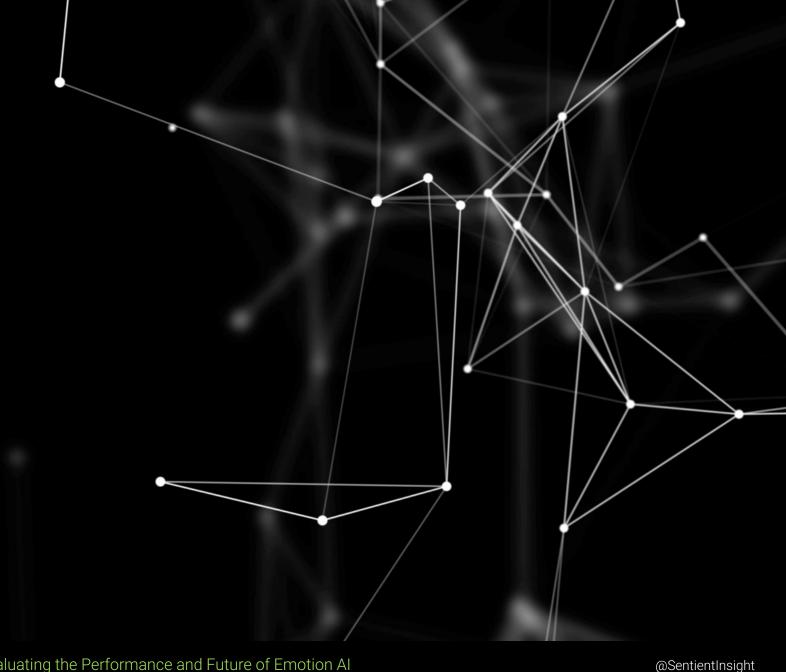


Implicit Testing



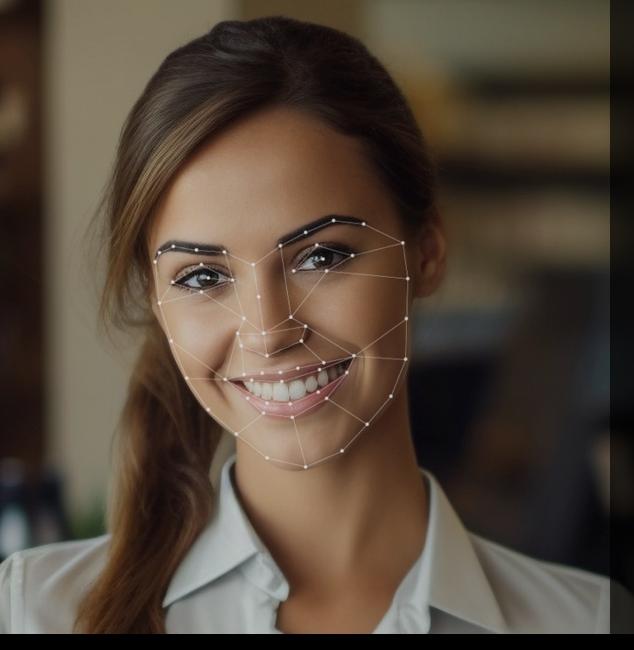
Emotion Al

A look at the future.





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Emotion Al in Market Research

Opportunities to Improve Communications:

Real World, Real-Time Emotional Responses to Marketing

- Natural viewing environment using cameras at POP
- Passive measurement captures valence of customers

Emotion AI and Experiential Testing Are the Perfect Match

- Determines whether and how audiences engage with experiential content
- Can pinpoint moments that connect with audiences



Evaluating the Performance and Future of Emotion Al



Emotion AI will change everything from marketing and innovation to customer experience management to the future of machine/human interaction.

The data we continue to collect will provide a human element to the future of generative Al.



72 Unique identifiers mapped on the human face



15,120 measures of emotion per second



.5 Billion parameter deep learning neural network Al



Millisecond precision response time measurement



1.5B subconscious association database



SENTIENT INSIGHTS®

Discover how our Emotion AI platform reveals the transformative impact of emotions on perceptions of your creative.

- Weekly advertising case studies within Subtext Scorecard
- Performance diagnostic tools
- Meta-analyses for advanced understanding of engagement and influence
- Category level insights on creative effectiveness
- Direct competitor insights on:
 - Creative tactics
 - Successes and failures
 - Competitive emotional positioning
- Demo Our Platform

VISIT: BOOTH 403 or Online: bit.ly/sds-quirks-dallas

- Asset comparison tool
- Quarterly best practices
- Special content releases including Super Bowl, Social Cause, Inclusivity insights
- Data safe and secure
- Expert analysis



