



CONTENT

- Key Question and Hypothesis
- Methodology
- Data Structure
- Current & Potential Analyses

The question we set out to answer: How does customer attribution from digital media impact the brand recommendation and favorability?

@nd who are they?

The hypothesis is that the probability of favorability will reach 80% when the subjects selected and are in favor of 50% of the attribution questions (binary).



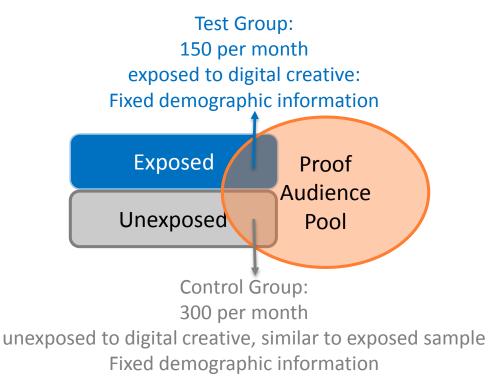


Data Collection Journey

- How did I set it up?
- Who did I partner with?
- What did I provide to our partner and our prospects?
- What is the current data?

Test/Control Setup

- We tracked digital ad exposure and delivered exposed respondents to their online survey instrument.
- A quota of the exposed respondents that are matched to proof audience pool were then provided with the known demographic information
- A control group of matched, unexposed respondents was also collected.



Strategy, Sites, & Tech Stack

Awareness

- **Brand Building**
- **Destination Awareness**
- **New York Times**
- Food & Wine

Direct Response

- **Destination Direct Response**
- **Promotions**

The New Hork Times





















Undertane.



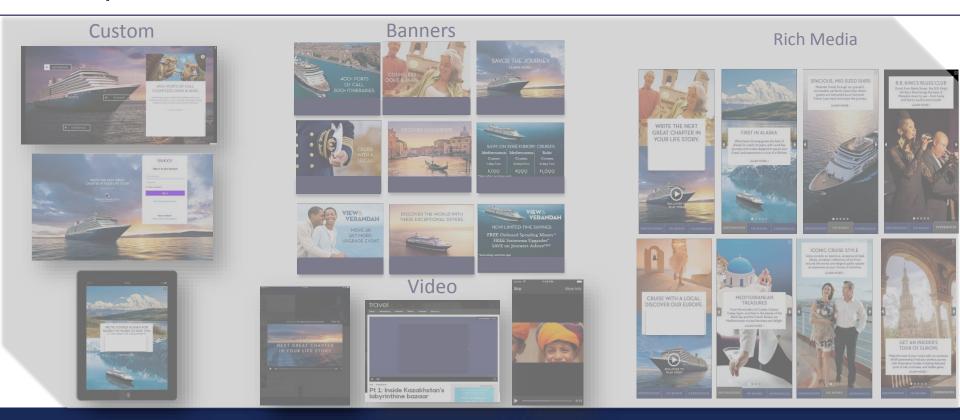




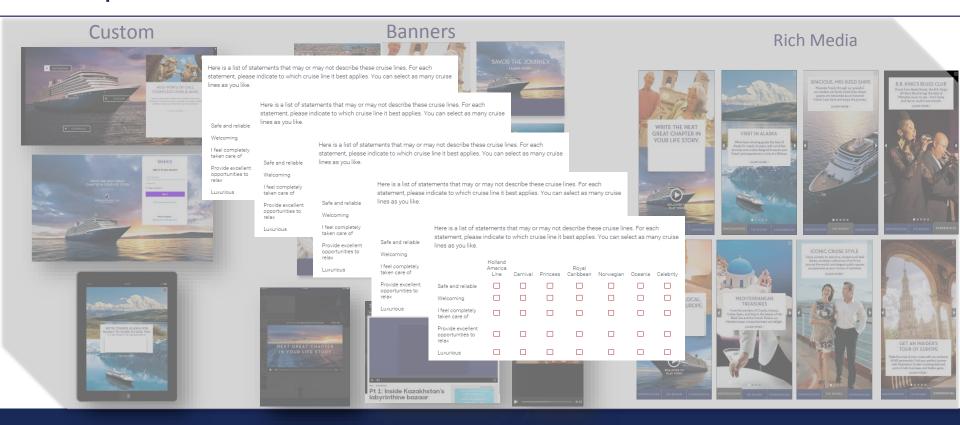




Exposed Ad Creatives



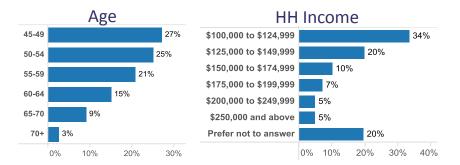
Exposed Ad Creatives



Overview of Respondents

Test Group

- Exposed to the ads
- Sample Size = 1468
- Median Age: 54
- Median HHI: \$125,000 to \$149,999
- 65% Female



Control Group

- Not exposed to the ads
- Sample Size = 990
- Median Age: 57
- Median HHI: \$125,000 to \$149,999
- 59% Female







Data Structure

Demographic Information (Age, Income, Career, etc)

The data is mostly on a scale either 0-5 or 0-10

- Demand Generation Question (1 question)
- Attribution Questions (10 Questions)
- Overall Consideration and Recommendation Questions (5 questions)
- Competitor Benchmarking Questions
- Current Data Structure: (2454,93)

Current State of Data

Pros:

- The data does not have a whole lot of missing data due to the force function.
- API has been setup to fetch data.

Cons:

- The data needs transformation from number scale to binary at the adequate level.
- The data needs to be matched up with the reference table, and make it meaningful.
- Not all the data is statistically significant yet @ 90%
- Can not change survey questions anymore.



Current Analysis

- The initial analysis would be logistic regression on the possibility of recommending the brand.
 - Transform the data into binary form.
 - Run logistic regression and fit the model.
 - Perform prediction based on the new survey data.
 - Train the model again.
- The subsequent analysis can be a supervised classification among demographic and psychographic attribution.

Balance the bias and variances, and run through the # of K.

New survey data will be coming in on a weekly basis. I can use the new data to "classify" the potential customers.

Potential Analysis and Moving Forward

- Segmentation by Clustering
 - Normalize the data by utilizing standard scaler among demographic data and attribution data (not binary)
 - Perform K mean clustering to find out the hidden segmentation.
 - Conclude the audience in a limited group by utilizing