

Validating the Brand Personality Appeal Framework in a QSR Context: Multiple Regression and Confirmatory Factor Analysis

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This is the fourth in a series of in-depth reports from the Zion & Zion market research team that have sought broad understanding about how consumers perceive a brand's personality. The first wave of studies focused on the quick service restaurant (QSR) industry. The previous studies on this topic conducted by Zion & Zion are:

- Utilizing Stanford professor Jennifer Aaker's widely accepted brand personality measurement framework to study the nation's largest QSR brands. The study—found here—reveals how each restaurant chain ranks on Aaker's five dimensions of brand personality: Sincerity, Competence, Excitement, Sophistication, and Ruggedness.
- An exploratory factor analysis (EFA) and confirmatory factor analysis (CFA) that verify the efficacy of using Aaker's framework to study QSRs, and reveals a potential new dimension of Authenticity—<u>read the study here.</u>
- Studying QSRs via Brand Personality Appeal, first identified and studied by Traci Freling, Jody Crosno, and David Henard in their well-regarded 2010 research, "Brand Personality Appeal." The report reveals how the 26 QSRs rank for brand Clarity, Favorability, and Originality.

In this study, the Zion & Zion market research team performs both confirmatory factor analysis (CFA) and multiple regression analysis to assess how well the three dimensions of Brand Personality Appeal (Clarity, Favorability, and Originality) apply to QSR brands and the role of Clarity and Originality in Favorability ratings.

EXECUTIVE SUMMARY The Zion & Zion market research team undertook a confirmatory factor analysis (CFA) and multiple regression analysis to better understand the

application of Traci Freling, Jody Crosno, and David Henard's Brand Personality Appeal dimensions (Clarity, Originality, and Favorability) to quick service restaurant (QSR) chains. For both the CFA and regression, our research team surveyed 4,363 adults 18 years of age and up. Each respondent was asked to rate one of 26 QSRs on each of 16 brand personality appeal semantic differential scales. Our research team only included data from respondents who were at least somewhat familiar with the particular QSR they were being asked to rate. That resulted in a usable data set of 3,205 responses. Our CFA reveals that the Brand Personality Appeal three-factor framework is remarkably valid for measuring QSR brand personalities. The regression analysis indicates that Clarity and Originality together explain 75.8% of Favorability. Of the two factors, Clarity has 2.4 times the effect on Favorability than Originality in a QSR context. This suggests that while Originality is important, restaurant chains should consider spending more time on ensuring that consumers have a clear understanding of the QSR's brand.

ANALYSIS) The original Freling/Crosno/Henard research (2010, Journal of the Academy of Marketing Science), which developed a measurement framework for Brand Personality Appeal, began with an initial pool of 75 nonredundant characteristics which were evaluated by a series of focus groups. These were

DOES THE FRAMEWORK FIT? (CONFIRMATORY FACTOR

then converted into 49 word-pairs. Following a series of additional focus groups and interviews with adult consumers, as well as a review of existing literature, an additional 26 word-pairs were added, resulting in 75 contrasting word-pairs. Subsequent testing (i.e., confirmatory factor analysis, internal scale reliability, and convergent validity), analysis, and categorization eventually reduced the items to the final 16 word-pairs to establish the Brand Personality Appeal framework: Favorability (seven word-pairs), Originality (four), and Clarity (five). The Zion & Zion market research team conducted a confirmatory factor analysis (CFA) on our data in order to verify that, for the QSR industry, the three factors of Brand Personality Appeal exist as demonstrated by Freling/Crosno/Henard and that their 16 word-pair analysis can be reliably used to rate

study does not disclose if any (or how many) restaurants were included in the framework's creation and testing, thereby making our exploration of the three dimensions of Brand Personality Appeal in a QSR context particularly meaningful. Our CFA analysis demonstrates that the Brand Personality Appeal framework is indeed highly applicable in a QSR context, with all three factors coming back very clean.

and compare the Brand Personality Appeal of QSR brands. In this case, one of the reasons for conducting a CFA is because the Freling/Crosno/Henard

All five word-pairs used to assess Brand Personality Appeal Clarity loaded above .800.

Figure 1

Component 1

Component 1

Component 1

.836

Std.Error of the Estimate

.7868844530

Extraction Method: Principal Component Analysis.

Component Matrix*

*1 component extracted.

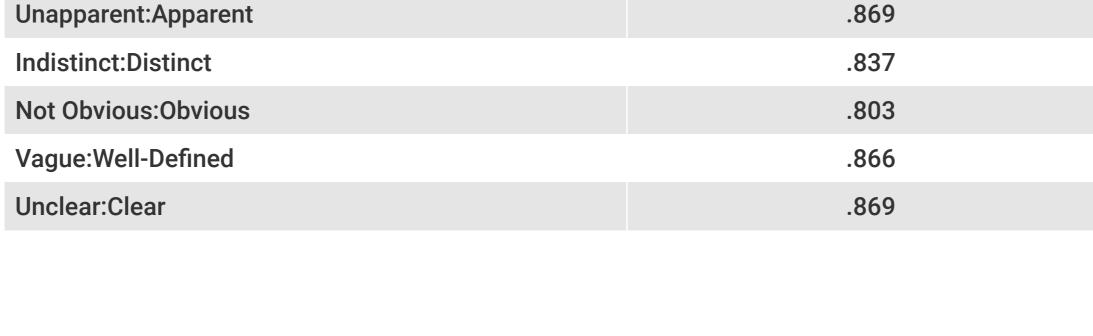


Figure 2

The Brand Personality Appeal factor of Favorability also comes out extremely clean, with all seven word-pairs loading well above .800.

Component Matrix* Extraction Method: Principal Component Analysis.

Unsatisfactory:Satisfactory

*1 component extracted.



Figure 3

Extraction Method: Principal Component Analysis. *1 component extracted.

Component Matrix*

Common: Distinctive

Ordinary:Novel

ANALYSIS)



interested in increasing how consumers rate the Favorability of its Brand Personality Appeal, would its resources be better spent focusing on Clarity or Originality? This investigation was undertaken via multiple regression analysis that used Clarity and Originality as independent variables and Favorability as the dependent variable. The Model Summary (Figure 4) and ANOVA (Analysis of Variance, Figure 5) address whether Clarity and Originality together drive

WHAT PREDICTS FAVORABILITY? (MULTIPLE REGRESSION

Favorability. The significance value in Figure 5 of .000 validates the model. The .758 R Square value (Figure 4) means that Clarity and Originality together explain 75.8% of the Favorability.

We sought to understand whether Brand Personality Appeal Clarity or Originality (or both) predict Favorability. For example, if a restaurant chain was

Figure 4 **Model Summary**

*Predictors: (Constant), BPA: ORIGINALITY, BPA: CLARITY Adjusted R Square

.758

<u>Model</u> <u>R</u> .871*

Figure 5

**Predictors: (Constant), BPA: ORIGINALITY, BPA: CLARITY

stronger? This is answered by looking at Figure 6's Coefficients, which indicates:

Of the two factors, Clarity has a 2.4 times greater effect on Favorability than Originality in a QSR context.

change), it's Favorability will rise by .722.

Model

Favorability will rise .297.

R Square

.758

ANOVA* *Dependent Variable: BPA: FAVORABILITY

<u>Model</u>		Sum of Squares	<u>df</u>	Mean Square	E	<u>Sig.</u>
1	Regresssion	6203.795	2	3101.898	5009.629	.000*
	Residual	1982.637	3202	.619		
	Total	8186.433	3204			

Figure 6 (Coefficients) answers the next questions: Do Clarity and Originality by themselves predict and explain Favorability? And which (or both) is most

important? Both Clarity and Originality show a significance value of .000, meaning that they independently explain and predict Favorability. But which is

• If a QSR's Brand Personality Appeal Clarity rating goes up by one unit on the 1-to-7 survey scale (assuming that its Originality rating does not

• If a QSR's Brand Personality Appeal Originality goes up by one unit on the 1-to-7 survey scale (assuming that its Clarity rating does not change), it's

Coefficients*

Figure 6

*Dependent Variable: BPA: FAVORABILITY

Std. Error

.053

.013

.012

Standard Coefficients

Beta

.662

.278

Standard Coefficients

Sig.

.005

.000

.000

2.834

57.338

24.127

.406

-.841

.325

1.771

.005

-.010

.004

.019

.685

.400

.745

.007

Unstandardized Coefficients

A final analysis sought to understand if variability between restaurants explains Clarity's strength over Originality as a predictor of Favorability. The

analysis in Figure 7 shows that even when controlling for individual differences between restaurants, the resulting coefficients are virtually identical to

those in Figure 6 (.724 compared to .722, and .293 compared to .297). This confirms the 2.4 times strength of Clarity over Originality as a predictor of

Figure 7

<u>B</u>

.149

.722

.297

BPA: ORIGINALITY

(Constant)

BPA: CLARITY

Favorability.

Regression Coefficients*

*Dependent Variable: BPA: FAVORABILITY

Model

Std. Error Sig. <u>B</u> **Beta** (Constant) .084 1.511 .131 .127

Unstandardized

Coefficents

(Constant)	.12/	.004		1.511	.131
BPA: CLARITY	.724	.013	.663	57.260	.000
BPA: ORIGINALITY	.293	.012	.275	23.689	.000
Restaurant=Burger King	.032	.093	.004	.340	.734
Restaurant=Carl's Jr	076	.107	008	714	.475
Restaurant=Chick-fil-A	018	.098	002	189	.850
Restaurant=Chipotle	058	.104	006	564	.573
Restaurant=Dairy Queen	.104	.097	.013	1.079	.281
Restaurant=Domino's	.063	.094	.008	.662	.508
Restaurant=Dunkin' Donuts	.115	.096	.014	1.200	.230
Restaurant=Five Guys	.260	.106	.027	2.441	.015
Restaurant=Hardee's	.019	.105	.002	.178	.859
Restaurant=Jack in the Box	002	.106	.000	023	.982
Restaurant=Jimmy John's	039	.108	004	357	.721
Restaurant=KFC	016	.093	002	177	.859
Restaurant=Little Caesars	024	.096	003	251	.802
Restaurant=McDonald's	144	.092	020	-1.562	.118
Restaurant=Panda Express	.105	.101	.012	1.037	.300
Restaurant=Panera Bread	.288	.099	.034	2.906	.004
Restaurant=Papa John's	.006	.095	.001	.059	.953
Restaurant=Pizza Hut	.100	.093	.013	1.067	.286
Restaurant=Popeyes	.036	.101	.004	.352	.725
Restaurant=Sonic Drive-In	.053	.099	.006	.535	.593
Restaurant=Starbucks	045	.098	005	460	.646

Restaurant=Wingstop .119 .210

PUTTING THE DATA TO WORK

illustrates how Favorability can be impacted.

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Restaurant=Subway

Restaurant=Taco Bell

Restaurant=Wendy's

.093

.093

.095

.038

-.078

.031

Brands put a tremendous amount of emphasis on being original. Think of the efforts taken by Jack in the Box, Burger King, Chick-fil-A, etc., in order to stand out and differentiate themselves in consumers' minds. The phrase, "we have to cut through the clutter" and "we have to rise above the noise," resounds in QSR corporate headquarters across the land. However, our study shows that Clarity is more than twice as impactful on Favorability than is

Our CFA illustrates that measuring the three dimensions of Brand Personality Appeal in a QSR context is a straightforward exercise, and our regression

This suggests that while QSRs should indeed focus on Originality, as it does impact Favorability, they should also spend at least as much time making sure that their expression of Originality is clear and well-understood by customers.

Originality. References: Freling, Crosno, and Henard (August 2010), "Brand Personality Appeal: Conceptualization and Empirical Validation," Journal of the Academy of Marketing