Graphic Design Effects on Consumer Online Purchase and Referral Intentions in Ghana’s Hospitality Industry: The Connections and the Mediating Role of Consumer Website Visit Satisfaction

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Abstract:
The Mehrabian and Russell’s Stimulus-Organism-Response model was used to link and test the relationship between the predictor external variables (i.e., website artistic design (WAD), quality of information (QI)) as stimuli and the online purchase intention (PI) of consumers and referral intention (RI) as responses. The hedonic factor in this model was the satisfaction derived by consumers as a result of visiting the website. A test of the relationship between the WAD (stimulus), QI influenced by the design and text (organism) and the PI and RI (responses) was carried out using multiple regression analysis. Also, the Hayes’ Process macro tool-pack of IBM-SPSS (Version 25) was used to assess the potential mediation function of consumer website visit satisfaction (CWVS) (measured by likeability and comfort) on the relationship between WAD or QI and PI and RI. Findings showed a strong positive relationship between WAD and PI ($r^2 = 0.550$) and RI ($r^2 = 0.491$) and between QI and PI ($r^2 = 0.421$), but not RI ($r^2 = 0.194$). CWVS successfully mediated the relationships between WAD and PI, but not between WAD and RI. It also successfully mediated the relationships between QI and PI and RI. Results have shown that the satisfaction of consumers online was significantly dependent on WAD and QI and was needed for sustained PI and RI.

Keywords: Website graphic design, consumer satisfaction, social media marketing, online marketing, online purchase, purchase intention, referral intention

1. Introduction

Graphic design is a user-centered subject related to the aesthetic characteristics of any form of art, and is used to beautify and make websites and other platforms appealing to consumers while enhancing information quality (Frascara, Meurer, van Toorn, & Winkler, 1997). Graphic design is closely linked with communication as designs always carry peculiar messages (Frascara et al., 1997). In the tourism industry such as hotels, the aesthetic characteristics of properties (i.e., buildings, landscapes, facilities, etc.) are mostly used to market them (Alfakhri, Harness, Nicholson, & Harness, 2018; Witz, Warhurst, &Nickson, 2003; Xu &Schrier, 2019). According to studies, the aesthetic features of hotels and tourist sites are key determinants of consumer choice for recreational venue (Breiby &Slåtten, 2018; Kirillova, Fu, Lehto, & Cai, 2014; Kirillova &Lehto, 2015; MacKay &Fesenmaier, 1997). The recent trend of digital marketing has compelled many hospitality organizations to adopt the use of the internet such as websites and other online social media platforms for marketing and selling their services (Chan &Guillet, 2011; Tatar &Eren-Erdöğmuş, 2016). It is difficult to discuss the use of digital marketing in the hospitality industry without mentioning the role of graphic design (Kasavana, 2000; Kasavana, Knutson, &Polonowski, 1998). Not only is graphic design used to make websites and online platforms attractive, but also used to convey varying information useful to consumers in decision and choice making processes (Cao, Zhang, &Seydel, 2005; Eppler, 2006; Rieh, 2002). Most of these mobile applications and the use of the internet and websites cannot be done without graphic design to convey the right information while ensuring aesthetics and consumer entertainment through nerve-calming images and designs, hence the need to study the effects of graphic design on business sustainability through online PI and RI.

Since the 2000s in Ghana and in many other developing countries, the use of digital platforms and internet for business is becoming the norm and consumers are getting used to the change (Akomea-Bonsu &Sampong, 2012). Although there are still challenges, the positive effects cannot be overlooked (Ewusi-Mensah, 2012). Many mobile application platforms are being customized for organizations in the hospitality industry for the purposes of marketing and booking or reservation of spaces and services of varying characteristics (Dayour, Adongo, &Ageyiwaah, 2020; Mahmoud, Kastner, &Lartey, 2017). Consumers no longer travel to venues to be able to make reservations and payments due to the
availability and the operability of these online platforms such as Facebook, Instagram, WhatsApp and organizational websites (Perrin, 2015). These features, now available at the fingertips of consumers, make it convenient in difficult times such as in dealing with the covid-19 and other pandemics (Gentilini, Almenfi, Orton, & Dale, 2020) for consumers to buy, reserve or even cancel transactions with minimum risk and with financial security (Shaw, Kim, & Hua, 2020). Other scholars are even advocating for electronic tourism (E-tourism) (Gretzel et al., 2020).

Apart from the aesthetic and other marketing functionalities that graphic design can enhance, it also has a significant influence on information seeking behaviour and information use among consumers. Interactive information seeking behaviour and retrieval are influenced by design of website (Ruthven & Kelly, 2011). Also, among children and the youth, graphics are used to focus attention and induce interest in online and hard information (Dresang, 2005). The graphic design of user-interfaces for online databases has been shown to significant influence information seeking behaviour of users (AAZAMI & Fatahi, 2010). The design of websites, for example, affects the comfort level (Currie, McGrath, & Day, 2010), interest (Collins, 2018), ability to capture relevant information (Marchionini& Komlodi, 1998), filtering, and even the length of time spent seeking information. It can also influence consumer satisfaction with information seeking and encourages word-of-mouth (WOM) referrals (Duarte, e Silva, & Ferreira, 2018). Attractive designs with concise and relevant information attract more traffic than those which are less attractive and with either too much, too little or irrelevant information. The blend of colors in designs is relevant for consumer comfort and emotion, considering the psychological connection between colors and mood (Cheng, Wu, & Yen, 2009). Another study has also shown that colors affect consumer mood, memorization of information and online purchase intention (Pelet & Papadopoulou, 2012). The importance of graphic design in social media and digital management of businesses cannot be overemphasized, especially in the hospitality industry in Ghana. However, little information is available about its effects in this sector in the country.

2. Conceptual Framework and Study Hypotheses

The concept and the theory of this study is based primarily on the Stimulus-Organism-Response model of Mehrabian and Russell. It is understood that stimuli from the environment and the inherent nature of an individual, when mixed with emotional and /or cognitive features which define that individual as an organism, result in a response. In this context, WAD and QI (stimuli) can influence the level of satisfaction of a consumer (organism) and may lead to the intention of purchasing an item online (PI) and /or referring others to do same (RI) (Figure 1).

The hypotheses of this study are based on literature and the expectations of the authors and are considered the potential outcomes of the study unless disproved. WAD is a variable that directly relates with how aesthetic a website looks based on its graphic design, and it is expected that it will positively correlate and significantly influence the level of satisfaction a consumer derives from online visits (CWVS). According to a study, an online website visitor's first impression based on page design, layout and color influence satisfaction significantly (Liu, He, Gao, & Xie, 2008).

![Conceptual Framework Based on the Stimulus-Organism- Model (Mehrabian&Russell, 1974)](image)

In the e-banking sector, graphic design was shown to influence customer satisfaction (Ahmad & Al-Za’bi, 2011). Base on these confirmatory reports from other scholars, it is the expectation of the authors that WAD will significantly and positively influence CWVS (H1).

- **H1:** WAD will significantly and positively influence CWVS.

On another hand, PI and RI can be said to be influenced significantly by customer satisfaction. It is logical and natural that customers only purchase online after their expectations are met or when they are satisfied. This has been proven by many studies done by other scholars (Ali, 2016; Hasanov & Khalid, 2015; Hsu, Chang, & Chen, 2012; Jiradilok, Malisuwon, Madan, & Sivaraks, 2014). It is also reasonable that they only recommend a product or service to others based on the satisfaction they derive from doing same online (Wangenheim&Bayón, 2007) (H2). Although these connections are confirmed, they may vary from setting to setting based on cultural differences and the ability of customers to appreciate the effect of graphic design in online marketing and purchasing (Lee, Joshi, & Bae, 2009).

- **H2:** CWVS will successfully mediate the relationship between WAD and PI and RI
- **H3:** QI will significantly and positively influence CWVS
- **H4:** CWVS will successfully mediate the relationship between QI and PI and RI
3. Methodology

3.1. Data Collection

A cross-sectional online survey was used to administer questionnaires to individuals who use digital platforms and the internet to seek information, make choices about products and services in the hospitality industry, make reservations and payments. These individuals were contacted through emails and social media platforms. These were the most appropriate means to use during the covid-19 pandemic to limit risk to both researchers and respondents. A total of 1500 electronic questionnaires were sent out through the earlier mentioned platforms and data were quantitatively assessed for 1283 responses. The Mehrabian and Russell's Stimulus-Organism-Response model was used to link and test the relationship between the predictor external variables (i.e., website artistic design (WAD), quality of information (QI)) as stimuli and the online purchase intention (OPI) of consumers and referral intention (RI) as responses.
3.2. Data Analyses

A test of the relationship between the WAD (stimulus), the cognitive ability of synthesizing information (QI), influenced by the design and text (organism) and the PI and R intention (I) (responses) was carried out using multiple regression analysis. Also, the Hayes’ Process macro tool-pack of IBM-SPSS (Version 25) was used to assess the potential mediation function of consumer website visit satisfaction (CWVS) (measured by likeability and comfort) on the relationship between WAD and PI and RI. Multiple collinearity tests measured by variance inflation factor (VIF) was used to test the statistical validity of the model for mediation analysis. Statistical significance was measured at a CI of 95%.

4. Results and Discussion

4.1. Descriptive Statistics and Model Fitness

Normality of data was checked for statistical fitness for regression assessment confirmed with correlation matrix for collinearity checks between variables (Table 1) as well as VIF. Residual plot of data was also used to confirm adequacy of the statistical method used (Figure 4). Mean values for variables were 16.83 ±3.78, 17.05 ±1.41, 19.44 ±2.02 and 19.70 ±1.93 for WAD, QI, PI and RI respectively.

4.1.1. Correlational Analysis

According to the rules for data fitness for multiple regression analysis, significant correlations between response and predictor variables are good whereas low or poor correlations between predictor variables alone show no multicollinearity. Table 1 shows a strong positive relationship between WAD and the response variables, PI (r² = 0.550, p<0.01) and RI (r² = 0.491, p<0.05). Further a significant positive relationship was observed between QI and PI (r² = 0.421, p<0.05). QI and RI did not correlate strongly (r² = 0.194, p>0.05) (Table 1).

|        | WAD    | QI     | PI     | RI     | CWVS   |
|--------|--------|--------|--------|--------|--------|
| WAD    | Pearson Correlation | 1      |        |        |        |
|        | Sig. (2-tailed)      |        |        |        |        |
|       | N      | 1283   |        |        |        |
| QI     | Pearson Correlation | 0.246  | 1      |        |        |
|        | Sig. (2-tailed)      | 0.720  |        |        |        |
|       | N      | 1283   | 1283   |        |        |
| PI     | Pearson Correlation | 0.550**| 0.421* | 1      |        |
|        | Sig. (2-tailed)      | 0.013  | 0.029  |        |        |
|       | N      | 1283   | 1283   | 1283   |        |
| RI     | Pearson Correlation | 0.491* | 0.194  | 0.200  | 1      |
|        | Sig. (2-tailed)      | 0.018  | 0.811  | 0.771  |        |
|       | N      | 1283   | 1283   | 1283   | 1283   |
| CWVS   | Pearson Correlation | 0.602**| 0.498* | 0.394* | 0.211  | 1      |
|        | Sig. (2-tailed)      | 0.004  | 0.012  | 0.447  | 0.703  |        |
|       | N      | 1283   | 1283   | 1283   | 1283   | 1283   |

** and * show significance at the 0.01 and 0.05 levels, respectively (2-tailed).

Table 1: Correlation Matrix Depicting the Relationship between Study Variables

H₁, which stated that WAD will positively and significantly influence CWVS, can be assessed using Table 1. A strong and positive correlation (0.602) between the two terms showed that H1 was accepted as was confirmed in earlier studies done by others (Ali, 2016; Hasanov& Khalid, 2015; Hsu et al., 2012; Jiradilok et al., 2014). The link between WAD, consumer comfort, mood, emotions, and the effects of WAD on the aesthetic properties of a website confirms this observation which was confirmed in several other studies.

H₃ stated that QI will significantly and positively influence CWVS, and according to a correlation coefficient of 0.498 (Table 1) confirmed it as was observed in other studies. A correlation of 0.380 was observed between the quality of website information and customer satisfaction in a similar study (Liang & Chen, 2009). Therefore, H3 was accepted as well.

4.1.2. Residual Plot of Normality

This plot is an expression of the closeness of observed values to their true values and how much they deviate from their means. It also helps identify extraneous variables that make the data unfit for statistical exploration. Figure 4 shows that the data for this study are fit for purpose, backed by a proof of normality of distribution.
4.2. Regression Analyses

The regression model was significant and suitable for the objective of establishing the relationship between either WAD or QI and PI and RI, considering the mediating roles of CWVS (Figure 3). Summary data for the WAD-PI model and analysis of variance (ANOVA) confirmed statistical significance (p<0.05). Test statistics show R² and adjusted R² values of 0.797 and 0.635 respectively, which showed that predictor variables were capable to predict up to 79.7% of the variability observed in the response variable, which is good for the analysis. The R² and adjusted R² values of the WAD-RI model were 0.664 and 0.593 respectively. For the QI-PI and QI-RI models, the respective R² and adjusted R² values were 0.601 and 0.565 and 0.710 and 0.648. All models of the study were statistically significant (p<0.05). The regression analyses followed Equation 1.

\[ y = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \varepsilon \]

where \( \beta_0, \beta_1 \) and \( \beta_2 \) are the regression coefficients for the constant, WAD or QI and CWVS respectively, and \( \varepsilon \) the error term.

For the WAD-PI model, Equation 1 becomes \( \text{PI} = \beta_0 + \beta_1 \text{WAD} + \beta_2 \text{CWVS} \) considering no errors. From the regression coefficients in Table 2, \( \text{PI} = 6.227 \pm 1.201 + 0.514 \pm 0.091 \text{WAD} + 0.381 \pm 0.136 \text{CWVS} \). This meant that for every unit increase in WAD, there is a 51.4% chance of increasing PI, holding all other variables constant. Also, for every increase in CWVS, there is a 38.1% chance of increasing PI.

| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
|-------|-----------------------------|---------------------------|---|------|
| 1 (Constant) | 6.227 | 1.201 | 2.361 | 0.012 |
| WAD | 0.514 | 0.091 | 0.495 | 3.442 | 0.002 |
| CWVS | 0.381 | 0.136 | 0.275 | 4.003 | 0.001 |

Dependent Variable: PI

Table 2: Model Coefficients for WAD-PI

For the WAD-RI model, \( \text{RI} = \beta_0 + \beta_1 \text{WAD} + \beta_2 \text{CWVS} \). From Table 3, \( \text{RI} = 5.395 \pm 2.099 + 0.402 \pm 0.130 \text{WAD} + 0.397 \pm 0.055 \text{CWVS} \). This meant that for every unit increase in WAD, a 40.2% chance of increasing RI exists, ceteris paribus. Also, for every increase in CWVS, a 39.7% chance of increasing RI exists.

| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
|-------|-----------------------------|---------------------------|---|------|
| 1 (Constant) | 5.395 | 2.099 | 2.273 | 0.010 |
| WAD | 0.402 | 0.130 | 0.388 | 2.752 | 0.000 |
| CWVS | 0.397 | 0.555 | 0.174 | 3.301 | 0.001 |

Dependent Variable: RI

Table 3: Model Coefficients for WAD-RI

For the QI-PI model, \( \text{PI} = \beta_0 + \beta_1 \text{QI} + \beta_2 \text{CWVS} \). From Table 4, \( \text{PI} = 5.111 \pm 2.003 + 0.488 \pm 0.227 \text{QI} + 0.300 \pm 0.102 \text{CWVS} \). Holding all variables constant, a unit increase in QI has a 48.8% chance of increasing PI and every unit increase in CWVS gives a 30.0% chance of increasing PI.
4.3. Mediation Effects of CWVS

4.3.1. Mediation Role of CWVS on the WAD-PI and WAD-RI Relationships

Using the PROCESS macro application of Hayes (2018), the mediation effect of CWVS on the relationship between WAD and PI was tested according to the conceptual framework and study hypothesis (H₂: CWVS will successfully mediate the relationship between WAD and PI and RI).

For the QI-RI model, \( RI = \beta_0 + \beta_1QI + \beta_2CWVS \). From Table 5, \( RI = 4.990 \pm 1.344 + 0.337 \pm 0.103QI + 0.151 \pm 0.096CWVS \). Holding all variables constant, a unit increase in QI has a 33.7% chance of increasing RI and every unit increase in CWVS gives a 15.1% chance of increasing RI. The effect of CWVS on RI was not significant (p>0.05). This was reflected in its poor correlation with RI in Table 1 although a positive relationship was observed, contrary to observations made in some earlier studies (Wangenheim & Bayón, 2007). However, CWVS has positively and significantly influenced both PI and RI when considering the effect of WAD as shown in Tables 2, 3 and for QI in Table 4, all confirming H₁.

The model for assessing mediation was significant (p<0.05). CWVS successfully mediated the WAD-PI relationship with an indirect effect coefficient of 0.332 with lower and upper CI being 0.0077 and 0.2198 respectively, higher than a direct effect correlation of 0.319 (Figure 5). However, CWVS did not mediate the effect of WAD on RI, having a lower indirect effect \( r^2 = 0.147 \) than a direct WAD-RI coefficient of 0.330 (Figure 5). Therefore, H₂ can only be partially accepted because the WAD-RI relationship was not significantly mediated by CWVS.

### Table 4: Model Coefficients for QI-PI

| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
|-------|-----------------------------|---------------------------|---|-----|
| 1 (Constant) | 5.111 | 2.003 | 2.551 | 0.000 |
| QI  | 0.488 | 0.227 | 0.405 | 3.029 | 0.003 |
| CWVS  | 0.300 | 0.102 | 0.280 | 4.014 | 0.001 |

### Table 5: Model Coefficients for QI-RI

| Model | Unstandardized Coefficients | Standardized Coefficients | t | Sig. |
|-------|-----------------------------|---------------------------|---|-----|
| 1 (Constant) | 4.990 | 1.344 | 3.128 | 0.032 |
| QI  | 0.337 | 0.103 | 0.320 | 3.000 | 0.013 |
| CWVS  | 0.151 | 0.096 | 0.122 | 2.564 | 0.061 |

Figure 5: Mediation Test of CWVS on the WAD-PI/RI Models.
* Shows Significance at a 95% CI.
4.3.2 Mediation Role of CWVS on the WAD-PI and WAD-RI Relationships

Figure 6: Mediation Test of CWVS on the QI-PI/RI Models

* Shows Significance at a 95% CI

The mediation role of CWVS on the relationship between QI and PI/RI was significant for both models. Although QI did not significantly influence RI, it indirectly did through the mediation effect of with a coefficient of 0.176 higher than a direct effect coefficient of 0.159 (Figure 6). From this test, it was shown that CWVS is important to enhance PI and RI even when there is good QI on websites of marketing organizations. This analysis confirms the acceptance of Hs.

Online purchase within the tourism sector was found to be mediated by customer satisfaction in determining the e-loyalty of customers (Pereira, de FátimaSalgueiro, & Rita, 2016). Another study examined the determinants of repeat purchase intention, considering the mediating effect of customer satisfaction. Results revealed that customer satisfaction significantly mediated the relationship between product attribute and online repeat purchase intention among Malaysians (Goh, Jiang, Hak, & Tee, 2016). Moreover, the satisfaction of customers online has been shown in some other studies to mediate the relationship between website service quality and repurchase intention, in agreement with the observations made in this study (Shukla, Sharma, & Swami, 2010; Tandon, Kiran, & Sah, 2017).

5. Conclusion

The effect of WAD and QI on CWVS, PI and RI were measured, and the mediating effects of CWVS on the relationships between the predictor and response variables were also assessed. The entire concept of the study was based on the Mehrabian and Russell's Stimulus-Organism-Response model. Findings showed a strong positive relationship between WAD and PI and between WAD and QI, but not RI. CWVS successfully mediated the relationships between WAD and PI, but not between WAD and RI. It also successfully mediated the relationships between QI and PI and RI. Results have shown that the satisfaction of consumers online was significantly dependent on WAD and QI and was needed for sustained PI and RI.

The importance of customer satisfaction for online marketing and tourism organizations cannot be overemphasized, given the backings from other literature on the subject. Although, WAD and QI were able to influence PI and RI, their influences were amplified when online customers are satisfied with what they see and what information they read on the websites of tourism organizations in this context. Future studies can consider the effect of gender, geographical location, and socio-economic factors on online purchase and referral intentions of customers in the hospitality and tourism industries.

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