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The Visual Typicality of Non-Alcoholic Beverage (NAB) Package Forms in Akure, Nigeria

E. Bankole Oladumiye* Department of Industrial Design, School of Environmental Technology, Federal University of Technology, P.M.B. 704 Akure, Ondo State

Ayorinde S. Oluyemi Oluwafemi S. Adelabu Department of Industrial Design, School of Environmental Technology, Federal University of Technology, P.M.B. 704 Akure, Ondo State

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Abstract

This study identified the popularity of Non-Alcoholic Beverages (NAB) package forms in Akure for the purpose of exploring the possibility of creating visual code for easy product categorization and nomenclature in the nonalcoholic beverage product category. The research methodology involved collection, observation, and recording of the selected NAB through purposive sampling. A total of 218 product names of NABs were collected from the Akure Shopping Mall. By using Microsoft excel and SPSS 17 for analysis, the findings show that there is increase in multiple uses of NAB package forms.

Keywords: NAB, Visual code, typicality, product identification, nomenclature, form, Package Design

1. Introduction

Attractiveness as well as visual typicality is probably influential for product acceptance. When a product is difficult to be identified based on its appearance, consumers may not regard the product as a purchase alternative. It is not doubtful to assume that package forms that are initially get acquainted with earlier in life will be much more identifiable than those currently and more recently or newly exposed in the market. In this type of situation, consumers will not have to go through the onerous mental task of thinking whether they are seeing the right product or about to select the appropriate product. Thus, present study examines the visual typicality of NAB package form by identifying the popularity of NAB (Non-alcoholic beverages) package.

By assumption, thousands of new products are introduced every year in which a lot of them may not be accepted if consumers find it difficult to identify their preferred product (Fasolo, Hertwig, Huber, Ludwig, 2009). An example could be a situation whereby intending consumers experience reluctance or inability to spend time and effort on the processing of the uncertainty in such NAB package; thus, reducing favorability of their evaluations. Creusen & Schoormans (2005) suggest that future research may give more insight into this issue especially in food products. Example of research already giving insight to such issue is the predictive packaging design by Velasco, Salgado-montejo, A., Marmolejo-ramos, F., & Spence, C. (2014). Thus, present study build on this already existing body of knowledge by identifying the popularity of NAB Package Design's Form in Akure so as to contribute to knowledge in terms of package design specification for new product development, especially for the purpose of exploring the possibility of creating visual code for easy product categorization and nomenclature in the NAB product category.

2. Literature Review

Present study considers Non Alcoholic Beverage (NAB) as a popular product that has utilized multifarious packaging forms. Velasco, et al (2014) embarked on predictive package design by using form, sound, taste, typeface, and product name as elements that identify the characteristics of beverage product. Fishel (2003) in Celhay, Folcher, & Cohen (2013) report that product designers and marketing managers agree that there are visual codes, in terms of package design, that typify certain product categories. These are design elements (specific form, shapes, colors, materials, typefaces, layouts, and illustrations) most frequently seen in a given product category. Garber (1995) in Creusen & Schoormans (2005) Celhay & Trinquecoste, (2014) defines visual typicality as "the look or appearance that most consumers would associate with a product category, and by which they identify brands that belong to the category".

According to Schueneman (2010), typical early packages are animal skins or clay pots which are only delivery devices to get product from one place to another. Today, we are living in a consumption-driven society where branding of a product through the use of distinctive package form are now common. For example, in Europe and developing countries consumers are accustomed to finding their dairy products packaged in Tetra Paks®, an aseptic package system that provides ambient storage conditions for liquid products (Tetra Pak® Group, 2013). In the United States consumers find their dairy products packaged in cartons or high-density polyethylene bottles (Abdullahi & Yakubu, 2013; Lal, Yambrach, & Mcproud, 2015). reported that there are

four different types of packaging in which juice and soda are commonly sold in Sokoto metropolis, namely, Tetra Pak, bottles, cans and plastic pets. Based on aforementioned, what are Non-Alcoholic Beverages (NAB) product packages locally available within Akure, Nigeria?

3. Methodology

This study adopts purposive sampling and naturalistic observation method to explore the different forms of package design peculiar to a particular NAB type common in Akure. The research entails visitation to the Akure shopping mall for the observation of the displayed NAB package design (Figures 2, 3 4 and 5). After collection, observation, and recording of the selected NAB, a quantitative analysis follows. Below is a chart showing the order of the methodology (Figure 1).



Figure 1. Chart showing the order of the study.

Source: Researchers' Field Work, 2018.

The research objective adopts Microsoft Excel 2010 for sorting the categories according to package form. Hence, the frequencies and percentages of the variation are pictorially and statistically represented with the aid of bar chart and cross-tabulation by using SPSS 17.0.



Figure 2. Examples of Displayed NAB Package Design at the Akure Shopping Mall. Source: Researchers' Field Work, 2018.



Figure 3. Examples of Displayed NAB Package Design at the Akure Shopping Mall. Source: Researchers' Field Work, 2018.



Figure 4. Examples of Displayed NAB Package Design at the Akure Shopping Mall. Source: Researchers' Field Work, 2018.



Figure 5. Examples of Displayed NAB Package Design at the Akure Shopping Mall. Source: Researchers' Field Work, 2018.

4. Result and Discussion

From the result in Table 1 various package forms are used for branding a particular beverage. Package forms identified are PB (Plastic Bottle), CWO (Can With Opener at its lid), GB (Glass Bottle), FC (Folding Carton),

TWRL (Tin With Replaceable Lid), PPSP (Primary Pillow Shaped Pouch), SP (Spout Pouch), TCA (Tetra Classic Aseptic), TBA (Tetra Brik Aseptic), TWFL (Tin With Fixed Lid), FTFPP (Flexible Thin Film Polyethylene Pouch), TPA (Tetra Prisma Aseptic).

 Table 1: Package Forms Used For Branding a Particular NAB

FTFPP (Flexible Thin Film	Bisco Flavoured Fruit Drink	Fruit Drink	
Polvethylene Pouch)	Feotamy Flavoured Fruit Drink	Fruit Drink	
i olyculylene i ouelly	Tisco Flavoured Fruit Drink	Fruit Drink	
-	Fonyonillo Vonillo Flovourod	Milk Based	
and the second se	Piko Flavourod Milk Drink	Milk Based	
		WIIK Dascu	
Cup / Tub	Mr. Fruts Flavoured Milk Drink	Milk Based	
F	Nutriday Yoghurt	Milk Based	
	Glova Sweetened Yoghurt	Milk Based	
	Dannon All Natural Yoghurt	Milk Based	
	Dolait Yoghurt	Milk Based	
	Doluit Toghult	Wilk Bused	
	Fanice	Milk Based	
No. of Concession, Name of			
and the second se			
TWFL (Tin With Fixed Lid)	Three Crowns Evaporated Milk	Milk Based	
	Nestle Dessert Cream	Milk Based	
	Ideal Evaporated Milk	Milk Based	
	Popular Filled Evaporated Milk	Milk Based	
	Peak Evaporated Milk	Milk Based	
	Lunar Full Cream Evaporated	Milk Based	
	Olympic Evaporated Milk	Milk Based	
	Coast Full Cream Evaporated	Milk Based	
	Nunu Filled Evaporated Milk	Milk Based	
Secondary and Primary PSP	Nescafe 3-In-1	Coffee	
(Pillow–Shaped Pouch)	Peak456	Milk Based	
· - · ·	Eve Flavoured Drink	Soft Drink	
	Kaldi African Coffee	Coffee	
and the second design of the s	Cadbury Chocolate	Cocoa Based	
	Real Milk	Milk Based	
	Soya Plus	Milk Based	
	Trinco Tea	Теа	
	Bournvita	Cocoa Based	
	Cowbell Chocolate	Cocoa Based	
	Jago D Lite Instant Filled Milk Powder	Milk Based	
	Activa Choco Drink	Cocoa Based	
	Good Morning Choco	Cocoa Based	
	Miksi Instant Filled Milk Powder	Milk Based	
	Citrus Orange Flavour Instant Drink	Fruit Drink	
	Dano Milk Instant Full Cream Powder	Milk Based	
	Tang Instant Fruit Flavoured Drink	Fruit Drink	
	Milo Activgo	Cocoa Based	
	Ritebrand Tagless Teabags	Теа	
	Glen Tea	Tea	
12.00 million and 1	Nutri-C Instant Fruit Flavoured Drink	Fruit Drink	
have been a second seco			
TBA (Tetra Brik Aseptic)	Emborg Skimmed Milk	Milk Based	
	Alpro Šoya	Milk Based	
	Soy Good Apple Drink	Fruit Drink	
	Chi Exotic Pineapple And Coconut Nectar	Fruit Drink	
	Crystal Valley Low Fat Milk	Milk Based	

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_	Tropicana 100%	Fruit Drink	
	Dansa Fruit Juice	Fruit Drink	
	Happy Delight Juice Drink	Fruit Drink	
	Happy Hour	Fruit Drink	
	Chivita 100% Fruit Juice	Fruit Drink	
TPA(Tetra Prisma Asceptic)	5alive Pineapple Punch Fruit Nectar	Fruit Drink	
	Chi Soya Milk	Milk Based	
-	Fumman Apple Fruit Juice	Fruit Drink	
TD(Totra Dov)	Maggany Cooktail Fruit Drink	Fruit Drink	
1 N(1 CH a NCX)	Frutta Natural Orange Juice	Fruit Drink	
	Fruita Natural Oralige Juice Farmfresh Vanilla Vashurt Drink	Mille Based	
TCA (Tetra Classic Aseptic)	Fantastic Yoghurt Drink	Milk Based	
	Hollandia Evaporated Full Cream	Milk Based	
	Ribena Blackcurrant	Fruit Drink	
	Frumil Fruit Milk Drink	Milk Based	
	Lucosade Boost Energy	Soft Drink	
	Superyogo Sweetened Yoghurt	Milk Based	
	Fanchoco Chocolate Drink	Cocoa Drink	
	Freshyo Drinking Yoghurt	Milk Based	
	Fandango Citrus Drink	Fruit Drink	
Box /FC (Folding Carton)	Oldenburger Full Cream Milk	Milk Based	
	Ricchoco	Cocoa	
	Nescafe Classic	Coffee	
	Colcafe Cappuccino Classic	Coffee	
	Blue Boat Full Cream Milk Powder	Milk Based	
	3 Ballerina Herbal Tea	Теа	
	Five Roses Superior Cevion Blend	Теа	
	Lovd Blackcurrant and Blueberry Tea	Теа	
	Typhoo Farl Grey Tea	Тер	
	Lipton Clear Green		
	Lipioli Cical Oleell My Choop Albaling Chocolata Drink	Ita Cooon Based	
	Tan Tan		
	Iop Iea	Iea	
	Hot Chocolate Drink	Cocoa Based	
	Natural Ceylon Green Tea	Tea	
	Liven Alkaline Coffee Cappuccino	Cottee	

			Hot Cocoa	Cocoa Based
			Hillway Golden I shel Fresh Ceylon Teo	Teo
			Piehmond Tee	Tea
			Dilmah Elayourad Caylon Plaak Taa	Tea
			Diffiant Flavoured Ceylon Black Tea	I ca Soft Drivel
			Vital Chinage Crean Tag	Solt Drink Т
			Vital Chinese Green Tea	Tea
			Green Tea	Tea
			Moringa Tea	Tea
			Joko Strong Quality Tea	Tea
GB	(Glass	Bottle)	Four Cousins Sweet Sparkling Wine	Wine
			Don Simon Sparkling Red Grape	Wine
	612		St. Eve Nonalcoholic Cocktail	Wine
			Don Vino Nonalcoholic Sparkling Drink	Wine
			Damas Wine	Wine
			Chamdor Sparkling Red Grape	Wine
			Don Morris	Wine
			Robby Rubble Apple Cherry	Wine
			Saint Celine Natural Sweet Red	Wine
			Andries Family Wine	Wine
			St.Lauren White Grape	Wine
			J.C. Leroux Naturally Elegant Rose	Wine
			Eva Nonalcoholic Sparkling Grape Fruit	Wine
	11		Just Shiraz Natural Sweet	Wine
			Just Rose Natural Sweet	Wine
			Red Grape Juice	Wine
			Vitamilk	Milk Based
			Glamour	Wine
	Constanting of the		Senac Snarkling Red Grane	Wine
			Elemish Cocktail Wine	Wine
			Maracana Sparkling Red Grane	Wine
			Walab's Red Grane	Wine
			Class V Sperking Emit Drink	Wine
			Glace-A Sparking Fluit Dillik	Wine
			Pestiliant Sans Alcool	Wine
			Devalin Apple Fruit Drink	Wine
			Venel Pineapple Fruit Drink	Wine
			Veleta Sparking Fruit Drink	Wine
			Bonne Nouvelle Sans Alcohol	Wine
			Vini Vici Alcohol Free Sparkling Wine	Wine
			Ginger Wine	Wine
			J&W Sparkling Red Grape	Wine
SP (Spout Pouch)			Ben 10 Baniaz Apple Drink	Fruit Drink
			La Casera Apple Drink	Soft Drink
			Barney Baniaz Fruit Punch	Fruit Drink
			California Sun Fruit Drink	Fruit Drink
			Caprisonne Pineapple Drink	Fruit Drink
			Yojus Natural Fruit Drink	Fruit Drink
			Yugovy Fruit Shoot Orange Flavoured Drink	Fruit Drink
			Popcy Flavoured Drink	Fruit Drink
	1000		Frootzy Fruit Drink	Fruit Drink
			Frootz Fruit Nectar	Fruit Drink
			Fruit Drink	Fruit Drink
			Supami Banana Milk Drink	Milk Based
PR (Placti	c Rottle)		H2ohl	Soft Drink
1 D (1 1850)	(Dottle)		Don Finest Vogburt	Milk Based
			Wilson's Lemonade	Fruit Drink
			Panha Vaghurt	Voghurt
Ra Ka To			Kapila Togiluli Kally Appla Dita	r ognun Erwit Drink
			Kally Apple Dite Tannu Tima Oranga Elavour Cardial	Fruit DIIIK
Tonny Time Orange Flavour Cordial				
			ыg Orange	Son Drink

	Farm Pride Guava	Fruit Drink	
	Mirinda Orange	Soft Drink	
	Nirvana Bitter Lemon Bold	Soft Drink	
	Savana Lemon Drink	Soft Drink	
	Moon Orange Squash	Fruit Drink	
	Sahwannaa Sada Watar	Soft Drink	
	Schweppes Soda water		
	Popcy Flavoured Drink	Fruit Drink	
	Basako Yoghurt	Yoghurt	
	Pepsi	Soft Drink	
a second s	Vimto Flavoured Drink	Soft Drink	
	Smoov Chapman	Soft Drink	
	Incolac Chocolate Drink	Cocoa Based	
	Cedaa Yoghurt	Yoghurt	
	Teem Soda	Soft Drink	
	Supershake Voghurt	Voghurt	
	Pons Pineannle Drink	Fruit Drink	
	Climax Enorgy Drink	Soft Drink	
	View Disin Milli Disint		
	Yugo Plain Milk Drink	Milk Based	
	Nutri-Milk	Milk Based	
	Swan Orange	Soft Drink	
	Bigi Cola	Soft Drink	
	Cici Orange Fruit Drink	Fruit Juice	
	Vilko Cola Drink	Soft Drink	
	Malta Guinness Herbs	Soft Drink	
	Bien Banana Lime Flavoured Drink	Fruit Drink	
	Bobo Flavoured Milk Drink	Milk Based	
	Auki Yoghurt	Milk Based	
	I & 7 Voghurt	Milk Based	
	Chh Iuice	Fruit Juice	
		Soft Drink	
	Lloop L root L room Nodo		
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	Tiger Spices Health Drink	Soft Drink				
	Sprite Soft Drink Lactogen 2 Milk Based					
TWRL (Tin With Replaceable	Lactogen 2	Milk Based				
Lid)	Peak 123	Milk Based				
	Holicks Food Drink	Cocoa Based				
	Marvel Original Skimmed Milk	Milk Based				
	Thrive	Milk Based				
	Oluji Pure Cocoa Powder	Cocoa Based				
	Frisco	Coffee				
	Ricoffy Decaf	Coffee				
	Ovaltine Food Drink	Cocoa Based				
	Lactel	Milk Based				
	Bournvita	Cocoa Based				
	Koffienhuis	Coffee				
	Prey	Cocoa Based				
	Cocoa Powder	Cocoa Based				
	Strawberry Flavoured Instant Powdered	Fruit Drink				
	Nido Milk Based					
	Kerrygold Instant Full Cream Milk Powder Milk Based					
	Loyal Instant Full Cream Milk Powder	Milk Based				

Source: Researchers' Field Work, 2018

Table 2: Percentage Distribution of the Pa	kage Form in respect of the Identified NAB
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Package	Soft	Fruit				Cocoa	Milk	
Form	Drink	Drink	Wine	Coffee	Теа	Based	Based	Total
PB	7.4%	4.6%	0.0%	0.0%	0.0%	0.5%	4.1%	16.6%
CWO	12.9%	0.0%	0.9%	0.5%	0.0%	0.5%	0.5%	15.3%
GB	0.0%	0.0%	13.0%	0.0%	0.0%	0.0%	0.5%	13.4%
FC	0.5%	0.0%	0.0%	0.5%	6.5%	1.4%	0.0%	8.8%
TWRL	0.0%	0.5%	0.0%	1.4%	0.0%	2.8%	3.7%	8.3%
PPSP	0.0%	1.40%	0.0%	0.9%	0.5%	3.2%	1.8%	7.8%
SP	0.5%	4.6%	0.0%	0.0%	0.0%	0.0%	0.5%	5.5%
TCA	0.5%	0.9%	0.0%	0.0%	0.0%	0.5%	2.3%	4.1%
TBA	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	1.4%	4.1%
TWFL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%	4.1%
FTFPP	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.9%	2.3%
Box	0.0%	0.0%	0.0%	0.9%	0.0%	0.5%	0.9%	2.3%
Cup	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	2.3%
TPA	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.5%	1.9%
SPSP	0.0%	0.5%	0.0%	0.0%	0.9%	0.0%	0.0%	1.4%
TR	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.5%	1.0%
Tub	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%
others	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
Total%	21.8%	18.4%	13.8%	4.1%	7.8%	9.2%	24.7%	100.0%

Source: Researchers' Field Work, 2018

From Table 2, 16.6% of the identified NAB is packed in plastic bottles; in which 7.4% are found to be more peculiar to soft drink. For soft drink, 12.9% of the identified NAB is packed in CWO. Fruit drink and tea are 0.0% in terms of use of CWO while wine, coffee, and tea are 0.0% in terms of plastic bottles. Wine is peculiar to glass bottle with 13%. Fruit drink is peculiar to SP with 4.6% of the identified NAB. 4.1% of the identified NAB is packed in TCA; in which only milk base drink represents 2.3%. TBA is peculiar to fruit drink with 2.8% while TWFL is entirely peculiar to milk based drink. Out of 8.3% of the identified NAB 3.7% milk based drink are packed in TWRL. Only wine and tea are 0.0% in terms of use of TWRL. 8.8% of the identified NAB is packed in FC; in which only tea represents 6.5%. The summary of the Table 2 can be more understood with reference to Figure 6.



Figure 6. Bar chart showing the percentage distribution of available package form common to the identified NAB.

Source: Researchers' Field Work, 2018.

There is increase in multiple uses of these package forms. It seems reasonable to assume that they are not fixed categorically or stereotyped for particular NAB. However, TWFL and cup package forms seem to be strictly peculiar to the packaging of milk based products. Though GB is highly peculiar to wine, some milk based product also uses it. TBA, FTFPP, and TPA, are peculiar to fruit drink and milk drink respectively. It is interesting to identify that multifarious package forms are found to be used for the packaging of NAB. This findings reiterate Khadse (2010) in a paradoxically similar way that one come to only one conclusion that food drink industries has a great scope in future because they utilize more of multifarious package form.

5. Conclusion

The focus of this paper is to identify the popularity of NAB package design's form in Akure so as to contribute to knowledge in terms of package design specification for new product development, especially for new product development, especially for the purpose of creating visual code for easy product categorization and nomenclature in the NAB product category. From the findings, it seems there are visual codes that typify the NAB product categories. However, it becomes humanly difficult to separately categorize the package form for a single NAB type. The findings support that, there is still need for improvement of product package system for the purpose of creating visual code for easy product categorization and nomenclature in the NAB product type. This is will go a long way in improving predictive package design as examined in the study of Velasco, Salgado-montejo, Marmolejo-ramos & Spence, (2014).

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