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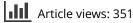
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#### ARTICLE



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# Music logos drive digital brands: an empirical analysis of consumers' perspective

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#### ABSTRACT

Universally digital music is believed to be the most appealing, and relaxing experience generator for the human mind. Different brands use music as a strategic tool for gaining consumer attention by providing a sense of association, loyalty, and assurance of quality to connect with brands. Fewer studies have focused on music logos, start-up chyme, and sonic logos, with very little information on the practical aspects of adopting digital tunes. The authors employed structural equation modeling to analyze data for the moderation effect of awareness, loyalty, and association on brand equity of prominent brandsin this study. Results of the study reveal that consumers showed high brand recognition awareness and positive associations regarding the brands which employed digital music logos in their promotions. This study suggests a new digital transformation or repositioning of promotional campaigning with music logos thatcan help in enhancing brand equity with help of these digital tunes.

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# 1. Introduction

Digitalization transformed brand-consumer behavior. Brand marketing is tricky which affected buyers' habits (Waqas et al., 2022). It ensures brand content is market-relevant and media frequency matches recognized content (Sreejesh et al., 2020). Sonic branding produces marketable brand assets. Perception and usage experiences affect brand attribute weights (Park & Chang, 2022). Despite music's relevance, consumers do not perceive audio branding. Lack of awareness of client interactions with digital platforms causes complexity of solutions. It suggests examining their digital viewpoints (Duan et al., 2022). Digital networks improve music's marketing relevance (Grünewald-Schukalla, 2019). Digital cinema lets theaters build digital identities by responding to audience demand (Yang et al., 2021). Client targeting affects digital platforms (Hyun et al., 2022). Companies adjust their corporate identities and rebrand their websites and apps to engage customers. Visual closure and openness are linked to Digital music logos, which try to attract clients to the digital realm (Chen, 2019). Sensory aspects affect consumer experience. These cues thrill and relax customers, affecting customer loyalty and satisfaction (Zha et al., 2022).

Sonic branding connects a brand's audience with sound. Brand management and consumer perception of non-digital companies changed digital music logos for new goods. This study assesses digital music trademarks' impact on consumers and brands digitally. Munsch (2021) argues that sonic branding harnesses consumers' musical instincts to create quick, comical digital marketing. Digital music advertising promotes nostalgia. According to studies, music increases social cohesion (Costa Gálvez, 2020). Group music socializes and improves communication and teamwork, and music can fulfill many social purposes. It meets consumer needs and strengthens ties; human evolution may have required social cohesion, depicting Digital Music Logos. This study examines digital music's effectiveness on millennial brand equity and the role of digital music-induced on brand equity.

# 1.1. Research gap

Digital music-induced brand recall has not been studied, and perception-induced brand identity and consumer nostalgia are not considered. Digital music and distinctive melodies have given new customers brand ownership. This study explores this brand's memory and nostalgia. Many sectors have investigated digital music's effects on brands. The music and sound brand equity study are fragmented. Their judgments lack brand characteristics. It is unclear how music affects perceptions and experiences. Although music boosts brand recall and loyalty, it is unclear how it increases brand equity (Keylin, 2020). Digital music logos (DML) do not have adequate studies on Brand Equity (BE), Brand Awareness (BAW), Brand Loyalty (BL), Brand Association (BAS), and Brand Quality (BQ).

This study adds to digital music logo research; the analysis lacks empirical data to examine sonic branding. This study builds music logo-based and consumer-based brand equity models. It assesses digital music logos' brand equity. The focus is on identifying brand value through music consumption at the managerial level. Digital music has helped advertisers reinvent themselves and gain a competitive edge.

# 2. Literature review

Digital music logos have been studied. Sound's impact on brand equity is not welldocumented. Researchers study sound effects on perceptions, but not brand qualities. Grünewald-Schukalla (2019), researched musical branding and brand memory, while Kelly (2017) focused on consumer experience.

# 2.1. Sonic logo

Music and sound express emotions (Bazi et al., 2020), and message-related brand assets can be created. Visual effects were used in movies and TV shows. Sonic branding is new despite sound's growing prominence as a marketing tool. With an unknown impact on customers. sonic logos (Sogos) have increased brand awareness & promotes strong brand positioning. Brand goals maintain brand equity.

# 2.2. Branding by sonic effect

Sonic branding identifies a brand through sound. Brand-consumer interactions increases brand loyalty that connects consumers emotionally like brand jingles. It helps start-ups but can affect psychics by evoking memories with pleasant sensation (Park & Chang, 2022). Donthu et al. (2020) argued that memorable brands use all five senses. Customers can respond emotionally to a brand's messaging and communicate through audio branding by their pleasant experience (Mamun et al., 2020; Martin & Strong, 2015).

# 2.3. Sonic brand equity

Acoustic branding helps boost unique brand equity. Sonic branding may inspire, different form of brand equity & boosts brand awareness in consumers' minds. Sonic branding is underutilized despite its potential. Digital technology helps promote music and sound (Grünewald-Schukalla, 2019). Few understand how this affects brand recognition. Datta et al. (2018) suggest that digital music consumption has shifted music. It investigates elements that affect innovation. Interconnected are music, design, and technology (Martin et al., 2018). Digital Music's expansion has resulted in online-distributable genres. In this research researchers concentrate on some prominent brands like Apple, MacDonald's, etc. which demonstrate their associated digital music logos prominently. Marketing psychology can control these cognitive impacts. This study concerns marketing psychology, which companies utilize to improve brand recognition. Jackson (2003) deems sound a storytelling method, while Pathak et al. (2019) calls a logo a brand metaphor. Brand sounds can affect consumer impression as websites with CRM and personalization enhanced revenue, study-ing digital sound's business ramifications (Hyun et al., 2022; Singh et al., 2020).

# 2.4. Digital music logos

Logos identify products and services. Branding's effect on purchasing is uncertain. Music streaming's impact on individual consumption is unstudied. Digital music branding should complement brand graphics (Grünewald-Schukalla, 2019). Music starts feelings and recollections where brands benefit from music logos (Moreira et al., 2017). Acoustic branding emphasizes trust, touchpoints, and emotions. Effective communication requires acoustic listening since music affects moods and purchases.

## 2.5. Brand equity

Brand equity is a marketing priority. Controversy surrounds brand equity's meaning and content. Music and education can build brand recognition (Kim & Manoli, 2020). Brand architecture and association can help customers value it. Researchers claim brand equity can compensate for a product's services or goods (Riedel et al., 2021). Brand equity and consumer-based principles boost engagement; Social media brand promotion might be affected services (Imaningsih & Vega, 2020). Awareness, quality, loyalty, affiliation, and

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distinctive assets establish brand value (Lan & Giang, 2021). Entrepreneurial orientation, unlike market orientation, drives new-age brands' high brand equity (Anees-Ur-Rehman & Johnston, 2018). They develop customer-focused policies (Tsordia et al., 2017) for sports events.

# 2.6. Brand awareness

Brand awareness helps shoppers recognize a brand where class and involvement are linked (Imaningsih & Vega, 2020). It connects a brand to different memories. Learning about the brand's beginnings and building brand associations can help (Kaytaz Yigit & Tigli, 2018). It influences consumers' decisions and impressions. Pranata and Permana (2021), linked brand awareness with loyalty, and found that brand awareness influences brand loyalty.

# 2.7. Brand association

Brand association is a consumer-brand link. It differentiates a brand, explains its stance, and builds positive brand views (Doyle et al., 2021). Brand associations boost a brand's reach and goodwill (Erjansola et al., 2021). Brand associations inform customer decisions. They aid in sensible buying (Chen, 2019). Imaningsih and Vega (2020), states that a brand association can help a company create lasting distinctiveness by connecting emotionally with people. Brand-consumer ties can be built. Brand image comprises associations (Muhammad & Muath, 2018). According to Kelly (2017), like-minded people create good brand associations. Optimistic brand associations boost client loyalty and brand equity (Severi & Ling, 2013).

# 2.8. Brand loyalty

Brand loyalty is how a brand's image affects buying decisions (Sharma, 2017). It allegedly leads to brand repurchase. Brand loyalty is how a brand's image affects buying decisions (Singh et al., 2019). Creating a unique and authentic brand experience improves brand loyalty. Brand managers seek substantive, emotional, and practical consumer loyalty.

# 2.9. Brand quality

Chen (2019) indicated that buyers prioritize quality. Brand success depends on appearance, taste, and marketing (Chen & Bei, 2018). These affect brand image. Brand quality influences loyalty and equity. Buyers respect quality that measures the influence of loyalty and equity (Terason et al., 2021).

# 3. Theoretical model and hypotheses development

Digital music logos are brand-equity-related. Digital music logos and brand equity were moderated by brand awareness, loyalty, quality, and association. The following section demonstrates how relationship hypotheses were made.

# 3.1. Digital music logo and brand equity

Today's consumers are more sensitive to sound's brand image as they want nice sounds (Bose et al., 2016). Sensory inputs affect brand impressions and engagement. According to Kim and Manoli (2020), Sonic's logo tones can affect consumer buying. Sensory stimulation can increase brand experience and equity, suggest (Moreira et al., 2017). This concept can improve various hospitality and tourism domains. Music creates a memorable brand experience (Costa Gálvez, 2020).

**Hypothesis 1** (H1): Digital music logo has a positive and robust effect on related brand equity

# 3.2. Brand awareness as a moderator for digital music logo and brand equity

Profitability and brand value depend on brand awareness. The customer-focused practice uses logos as brand identity. A well-designed logo can boost brand recognition (Correia, 2017). Brand equity is used to study consumer buying habits. It reveals the worth of products & services. Time affects consumers' decisions in digital markets (Pinar et al., 2020). Brand loyalty, perceived quality, and awareness influence brand equity; these factors raise a company's brand equity by increasing its effectiveness. According to this study, brand awareness influences digital music-induced brand equity and moderates the digital music logo's brand equity.

**Hypothesis 2** (H2): Brand awareness has a positive and robust effect on digital musicrelated brand equity

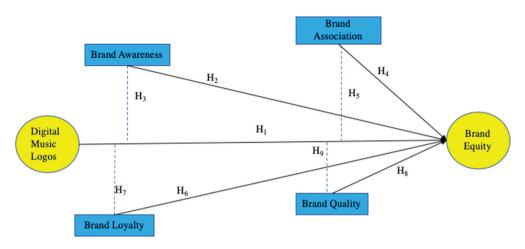
**Hypothesis 3** (H3): Brand awareness modifies the relationship between digital music logo and brand equity.

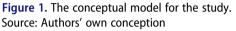
# 3.3. Brand association as a moderator for digital music logo and brand equity

Recognizability generates brand loyalty and increased brand awareness (Jain & Bagdare, 2011); Studies demonstrate that musical company logos can quickly influence purchasing decisions (Moreira et al., 2017). Experts say that branding can moderate digital music's brand equity. Researchers infer that brand association boosts digital music-induced brand equity and alters the connection between digital music logos and brand equity.

**Hypothesis 4** (H4): Brand association has a positive and robust effect on digital music-related brand equity

**Hypothesis 5** (H5): Brand association modifies the relationship between digital music logo and brand equity.





# 3.4. Brand loyalty as a moderator for digital music logo and brand equity

Brand loyalty comes from solid consumer relationships. Associating products and services with a musical genre shows it with music, and brands are remembered. Brand loyalty shows a company's market position and customer retention. Good brand perceptions boost brand loyalty. According to studies, brand loyalty is people's attachment to a company's brand; core Brand values (Das et al., 2019). Researcher finds that Brand loyalty may moderate digital Music logo-induced brand equity.

**Hypothesis 6** (H6): Brand loyalty has a positive and robust effect on digital music-related brand equity

**Hypothesis 7** (H7): Brand loyalty modifies the relationship between digital music logo and brand equity.

# 3.5. Brand quality as a moderator for digital music logo and brand equity

Subjectively, brand quality affects equity which determines value. Purani and Jeesha (2021), said that consumer-brand interactions affect brand quality. Brand quality may be positively associated with digital music-induced brand equity and moderate the link between digital music logos and brand equity (Schivinski et al., 2019; Veritonic Audio logo survey, 2016). Figure 1 shows our theoretical model.

**Hypothesis 8** (H8): Brand loyalty has a positive and robust effect on digital music-related brand equity

**Hypothesis 9** (H9): Brand quality modifies the relationship between digital music logo and brand equity.

# 4. Research methodology

This study examines customer perceptions of brand equity and digital music logos. As the sample size is undetermined, the study used convenience questionnaires. Nearly 4000 consumers of trustworthy companies were asked to rank the top 25 digital music logos. This letter questions digital music logo brand equity. WhatsApp, Messenger, and other apps collected data from January-May 2019. We analyzed 2632 responses (65.8%) from 4000 individuals. Internet, Phone, Mail, and Mixed-Mode Surveys: the customized design method (Dillman et al., 2014) and SurveyMonkey, which participants can use on smartphones and other devices (e.g. tablets, laptops, and desktops).

# 4.1. Research components, survey instrument, and measures

The study is based on data obtained through an online poll of 25 reputable businesses or organizations' consumers. Using previous literature and Likert scale, researchers measure primary data where respondents provide responses to the questionnaire as per their knowledge where '1" signifies strongly disagree, and'5" implies strongly agree. Data analysis uses correlation and regression. Researchers used common method bias (CMB) to arrange items, reverse code, and explain their function and relationship (Podsakoff et al., 2003). Harman's single-factor approach for CMB showed 39.2% variance below 50% and eliminated CMB. Table 1 explains the research constructs for this study.

# 5. Results

# 5.1. Research model assessment for reliability and validity

The study model has an adequate fit index ( $\times^2$ /df = 2.225, p < 0.001, RMSEA = 0.035, GFI = 0.93, AGFI = 0.91, CFI = 0.98) based on Hair et al. (2016) recommended threshold values as shown in Table 2.

The authors employed outer loadings, composite reliability, average variance extracted, convergent validity, and discriminant validity to understand the model's reflective measurement and internal consistency (Table 3). First, factor loadings, CR, and AVE examined convergent validity with all crossroads above 0.7 (Hair et al., 2016). Cronbach's alpha explains item impacts on the latent construct. AVE shows latent concept variance above 0.5 (Shiau et al., 2019).

Discriminant validity is established by (Table 4) low correlations between focus and construct measurements. Each construct's AVE (diagonal value) is more prominent than its correlation coefficient, showing discriminant validity (Hair et al., 2016).

Skewness tested data normality, and correlation measured the relationship between digital music logos and brand equity characteristics and determinants. Consumers knew the brands based on brand awareness and brand connection. They like the musical logos.

# 5.2. Descriptive data analysis

The digital survey was designed for usability. The sample includes 24-to-40-year-old postgraduates working in universities and colleges (Table 5).

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Construct		ltems	Source from Previous Researchers' study
Brand Awareness		Do you identify the brand lined with this sound? I can identify this brand in comparison with other brands.	(Correia, 2017; Pinar et al., 2020)
		I can identify this sound but do not recall the brand name.	
		I know this brand has appeared in my media. I can quickly identify and recall the brand name.	
Brand Loyalty		I refer to the product or brand in all my social media interactions.	(Severi & Ling, 2013; Waqas et al., 2022
		I love to use this product or brand	
	(c)	I will never switch to another product or brand shown on my social media.	
	(d)	l get satisfaction from this brand/product.	
		I shall recommend others try this.	
Brand		I trust the organization that owns this brand or product.	
Association		This brand has a personality that appeals to me.	Moreira et al., 2017)
		This brand caters to my interests.	
	(d)	I am confident that this company has an excellent corporate image.	
	(e)	This product is different in comparison to its rivals.	
Brand Quality		This brand handles customer complaints effectively.	(Purani & Jeesha, 2021; Zha et al., 2022
		This brand provides prompt services and excellent	
		products.	
		This brand gives individual customer attention.	
	(a)	I can vouch for the superior product quality offered by this brand.	
	(e)	I am confident in getting absolute value for money	
	(-)	regarding this brand's products.	
Brand	(a)	You quickly identify the brand after listening to its	
Equity	4.5	digital tune.	Bose et al., 2016)
	(b)	You always remember the digital tune and its associated brand.	
	(c)	You often feel happy to listen to the digital tune or	
	(-)	music of the brand and its products.	
	(d)	You always feel optimistic about the attraction of the	
	, .	brand and its digital music.	
	(e)	You encourage others to use the brand whose digital	
		tune is attractive.	

Table 1. Survey	instruments	developed	from the	comparative	research literature.

Source: Authors' presentation of construct table from previous studies.

-1 to + 1 skewness indicates typical data. Digital music logo, brand recognition, brand loyalty, brand association, quality, and equity have substantial connections. The high correlation is above 0.50 to 0.75. All *P*-value-significant relationships. Table 6 indicates a strong positive association between the four brand equity components.

# 5.3. Structural model evaluation and main findings from hypothesis testing

Bayesian structural equation modeling tests hypotheses and explores assumptions (SEM). The Bayesian analysis combines initial distribution data to build a model-parameter posterior distribution. Bayesian estimating has advantages over structural equation modeling, including explicit adjunction of preliminary data with current model parameter data, a remarkable performance for small samples, and testing hypotheses and estimates with any model parameter function. Table 7 compares regression coefficients; the

Model fit Criterion	Acceptable Level	Actual Value In this Analysis	Internetation
Model III Chienon	Acceptable Level	Analysis	Interpretation
Chi-square	2.0 to 5.0	2.225	Accepted
Goodness of fit index (GFI)	0.90-0.95	0.93	Accepted
Adjusted Goodness of fit index (AGFI	0.90-0.95	0.91	Accepted
Comparative Fit Index (CFI)	>= 0.95 or Closure to	0.98	Accepted
Root mean square error of approximation (RMSEA)	0 to 0.08	0.035	Accepted

Table 2. Model fit	criteria and	acceptable fi	r interpretation	for this study.

Source: Hair et al. (2016).

Construct	ltems	Loadings
Brand Awareness - $\alpha = 0$ .	869; CR=0.930; AVE=0.66	58
	BAW1	0.823
	BAW2	0.861
	BAW3	0.872
	BAW4	0.863
	BAW5	0.832
Brand Loyalty - $\alpha = 0.813$	; CR=0.881; AVE=0.671	
	BL1	0.734
	BL2	0.783
	BL3	0.871
	BL4	0.868
	BL5	0.738
Brand Association - $\alpha = 0$	.752; CR=0.891; AVE=0.6	25
	BAS1	0.734
	BAS2	0.768
	BAS3	0.811
	BAS4	0.879
	BAS5	0.869
Brand Quality - $\alpha = 0.834$	; CR=0.879; AVE=0.754	
	BQ1	0.798
	BQ2	0.799
	BQ3	0.812
	BQ4	0.823
	BQ5	0.765
Brand Equity - $\alpha = 0.814$ ;	CR=0.864; AVE=0.683	
	BE1	0.798
	BE2	0.799
	BE3	0.812
	BE4	0.823
	BE5	0.765

Table 3. Research model assessment: factor loading, average variance extracted (AVE), constructed reliability (CR), and alpha

Source: Authors' presentation of survey data.

Table 4. Discriminant Vall	aity				
	BAW	abb5569">BL	BAS	BQ	BE
Brand Awareness (BAW)	0.838 <sup>b</sup>				
Brand Loyalty (BL)	0.497	0.792			
Brand Association (BAS)	0.567	0.544	0.864		
Brand Quality (BQ)	0.501	0.642	0.612	0.858	
Brand Equity (BE)	0.791	0.787	0.783	0.779	0.813

# Table 4. Discriminant validitv<sup>b.</sup>

<sup>b</sup>square root of AVE for every multi-item construct (Diagonally shown the first and Second order)

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Demographic variables	Categories	Frequency	Percentage
Age	<25 Yrs.	528	20.1%
5	24–40 Yr.	1778	67.6%
	40–55 Yr.	326	12.4%
Gender	Male	757	28.8%
	Female	1875	71.2%
Education	Graduate	897	34.1%
	Post-Graduation	1196	45.4%
	Professionals/Ph.D.	126	4.8%
	Doctoral students	413	15,7%
Occupation	Govt. Employees	1126	42.8%
	Private Employees	1387	52.7%
	Semi Govt./Contractual	119	4.5%
Sector of Job	Academician	958	36.4%
	Banking and Insurance	465	17.7%
	and Telecom	688	26.1%
	Hospitality and Tourism	521	19.8%

Table 5. Consumers demographic profile (N = 263
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Source: Authors' presentation of survey data.

Table 6. Descriptive statistics and result of correlation analysis.

Variables	Mean	Standard Deviation	Skewness	DML	BAW	BL	BAS	BQ	BE
DBL	3.57	1.185	0.12	1					
BAW	3.92	1.225	0.27	0.73	1				
BL	3.17	1.311	0.165	0.71	0.66	1			
BAS	3.88	1.282	0.207	0.74	0.69	0.64	1		
BQ	3.02	1.12	0.055	0.7	0.69	0.72	0.63	1	
BE	3.12	1.214	0.135	0.72	0.71	0.68	0.74	0.69	1

Source: Authors' presentation of survey data.

hypothesis is accepted with standard regression coefficients below 0.05 and rejected above. Figure 2, illustrating each hypothesis's path validation where non-zero confidence intervals points out that the hypotheses are supported.

# 5.4. Moderation effect of regression analysis

Table 8 shows moderating effects of BAW, BAS, BL, and BQ. The moderated regression analysis evaluates moderating variables' influence on DBL and BE. This study includes DBL, BAW, BAS, and BL. Sixthly, they use the brand name DBL & BQ. All BE constructions repeat this. BAW moderates DBL and brand equity. BAW, BAS, BL, and BQ moderate the digital music logo's brand equity in H3, H5, H7, and H9. According to the data, BAW, and BAS moderate DBL-induced brand equity more than BL and BQ.

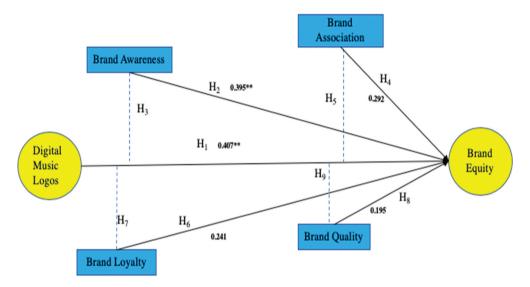
Four brand equity variables are studied. Multiple regression measures brand equity's four components. Four alternative models were developed at four levels of regression analysis; final regression model 4 was chosen as the best-suited model based on significant loadings and explained variance, 64.9%. Brand awareness, connections, loyalty, and quality account for 64.9% of brand equity variation. The corresponding regression equation is given below.

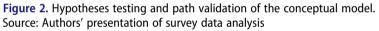
$$\mathsf{BE} = 0.302 + 0.396(\mathsf{BAW}) + 0.195(\mathsf{BL}) + 0.293(\mathsf{BAS}) + 0.242(\mathsf{BQ}) + \in \quad (1)$$

Hypotheses	Standard regression Co-efficient	Standard Error	Standard deviation	Lower Band	Upper Band	Outcome
H1	0.407**	0	0.022	0.746	0.832	Supported
H2	0.395**	0.002	0.044	0.351	0.525	Supported
H4	0.292**	0.002	0.039	0.462	0.615	Supported
H6	0.241**	0.002	0.051	0.084	0.285	Supported
H8	0.195**	0.001	0.034	0.159	0.292	Supported

#### Table 7. Hypotheses outcome after testing.

Source: Authors' survey data analysis. p < 0.05.





All four brand equity components have robust and positive route analysis regression coefficients. According to the regression coefficient, brand awareness contributed most to brand equity, whereas brand quality contributed less.

# 6. Discussion and implications

Millennials prefer online, social media, and smartphone brand awareness (Meier, 2017). To boost brand revenue, they picked digital music logos over brand equity. The study shows how digital music logos affect brand equity. Brand awareness and affiliation showed higher mean values (3.92 and 3.89), indicating better brand recognition and association with respectable enterprises. The study suggests a good correlation between digital music logos and brand equity, suggesting a more significant influence on customers' perception of digital music logos. Findings indicates regression study indicated digital music branding' positive impact on brand equity and consumer perceptions (Waqas et al., 2022).

Positive and significant core element intercorrelation; Brand awareness, loyalty, association, and quality have alpha values over 0.70, making them reliable.; These four factors influence brand equity by 64.9%. These four factors affect brand equity. Brand

Study Varia	bles	β	Т	F	R <sup>2</sup>	Adjusted R <sup>2</sup>
Step 1				444.558**	0.389	0.342
•	DML	0.267	3.272**			
	BE	0.287	3.891**			
Step 2				382.81**	0.523	0.408
	BAW	0.487	9.523**			
	BAS	0.472	9.428**			
	BL	0.391	8.665**			
	BQ	0.351	8.164**			
Step 3				350.544**	0.537	0.526
•	DBL* BAW	0.262	3.564**			
	BE* BAW	0.249	3.345**			
Step 4				320.924**	0.602	0.508
-	DBL * BAS	0.292	3.875**			
	BE*BAS	0.275	3.896**			
Step 5				301.118**	0.612	0.563
	DBL * BL	0.262	3.336**			
	BE*BL	0.204	3.891**			
Step 6				289.558**	0.649	0.582
	DBL * BQ	0.241	3.301**			
	BE*BQ	0.236	3.698**			

Table 8. Moderating effect of brand awareness (BAW), brand association (BAS), brand loyalty (BL), and brand quality (BQ) on digital music logo (DML) induced brand equity.

Source: (Authors' presentation of survey data analysis \*\*p<0.01.

awareness (0.395), brand association (0.292), brand loyalty (0.241), and brand quality (0.195) are positively associated with brand equity comparable to study of Hoffman et al. (2021).

This study presents audio branding for brand Equity. Findings reveal that companies should study digital music logos to gauge client response. Marketing affects activities differently than practitioners expect (Biyalogorsky et al., 2022). Poor digital music branding can hurt brand equity. Digital music logos could pose brand equity issues. Current music sounds will be used even if their effect on brand equity has not been examined. Hoffman et al. (2021) say new technology creates new marketing tools and techniques. These resources give the best brand-building ROI, leading to innovation. Strategic marketers lack a branding view for digital music logos.

# 6.1. Suggestions & limitations

This research can help organizations envision digital music logos in different brandbuilding stages. Customers will be drawn to this acoustic event, and music branding can be memorable since it affects the senses and the brain, costing-effective sonic branding (Doan, 2020; Erjansola et al., 2021). This study suggests digital-age managers to take benefit of audio branding for increasing brand equity. Here researchers also indicated that mediocre, inconsistent digital music might lead to forgettable brand equity. Digital music moderates brand recognition, affiliation, loyalty, and quality in web 4.0 and 5.0 service industries (Duy et al., 2020; Van et al., 2020). This study helps to manage digital music logo concept production and execution for retaining consumerbased brand equity acoustically. This study only looks at music-based electrical and digital products. Other dimensions do affect brand equity and vary. Research frameworks on digital platforms and their effect on customer behavior need further exploration.

## 6.2. Future research orientations

Digital marketing must assess how successfully digital music logos can sell products/ services with 'high appeal' to consumers (Schivinski et al., 2019). Future studies should examine digital brand slogans, characters, and color. The same question applies to other updated digital symbols. Future researchers should validate these results in digital situations where digital music branding is used for products/services. Interviews, focus groups, and case studies will strengthen the empirical analysis for further exploration. This study reveals digital natives' brand equity; examines how digital music logos affect brand knowledge and repurchase decisions. It helps digital business owners, managers, policymakers, marketers, and other practitioners learn about customer perceptions of digital music logos and brand equity.

# 7. Conclusion

Studies show that digital music branding affects product/service purchases and expands on traditional brand equity models. The research shows that enterprises embracing digital music and brands' sensory aspects need brain simulations to transcend customers' ideological changes. Digital technological developments have led to digital music logos and light music tones when making purchasing decisions, boosting consumer awareness, and influencing social indices. These strategies would connect stakeholders. Everyone enjoys music. It identifies with the brand, drives consumer desire for it, and sustains buying intent. This research could be used to boost brand health and capitalize on brand equity's many dimensions. This survey found that companies and brands focus more on brand equity and breathing brands. Digital music branding controls consumer excitement. The results help firms to boost digital brand product customers' profitability, stability, and sustainability.

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# References

- Anees-Ur-Rehman, M., & Johnston, W. J. (2018). How multiple strategic orientations impact brand equity of B2B SMEs. *Journal of Strategic Marketing*, 27(8), 730–750. https://doi.org/10.1080/0965254x.2018.1482943
- Bazi, S., Filieri, R., & Gorton, M. (2020). Customers' motivation to engage with luxury brands on social media. *Journal of Business Research*, 112(5), 223–235. https://doi.org/10.1016/j.jbusres. 2020.02.032
- Biyalogorsky, E., Heiman, A., & Muller, E. (2022). The differential effects of time and usage on the brand premiums of automobiles. *International Journal of Research in Marketing*, 39(1), 212–226. https://doi.org/10.1016/j.ijresmar.2021.06.007
- Bose, S., Roy, S. K., & Tiwari, A. K. (2016). Measuring customer-based place brand equity (CBPBE): An investment attractiveness perspective. *Journal of Strategic Marketing*, 24(7), 617–634. https://doi. org/10.1080/0965254x.2016.1148766
- Chen, Y. S. A., & Bei, L. T. (2018). Free the brand: How a logo frame influences the potentiality of brand extensions. *Journal of Brand Management*, *26*(4), 349–364. https://doi.org/10.1057/s41262-018-0142-0
- Chen, C. T. (2019). The mediating effect of brand identity on brand knowledge and the operational development of universities. *South African Journal of Business Management*, *50*(1), 1-11. https://doi.org/10.4102/sajbm.v50i1.416
- Correia, F. M. D. A. T. P. (2017). Audio branding empowerment: a dissertation proposal about the interactive process between brands and consumer behaviour [Doctoral dissertation].
- Costa Gálvez, L. (2020). 'Audio branding': Spotify en el escenario COVID-19. COMeln, 103(2), 14-25. https://doi.org/10.7238/c.n103.2070
- Das, S., Nayyar, A., & Singh, I. (2019). An assessment of forerunners for customer loyalty in the selected financial sector by SEM approach toward their effect on business. *Data Technologies and Applications*, 53(4), 546–561. https://doi.org/10.1108/dta-04-2019-0059
- Datta, H., Knox, G., & Bronnenberg, B. J. (2018). Changing their tune: How consumers' adoption of online streaming affects music consumption and discovery. *Marketing Science*, 37(1), 5–21. https://doi.org/10.1287/mksc.2017.1051
- Dillman, D. A., Smyth, J. D., & Christian, L. M. (2014). *Internet, phone, mail, and mixed-mode surveys: The tailored design method* (4th ed.). Wiley.
- Doan, T. T. T. (2020). Factors affecting online purchase intention: A study of Vietnam online customers. *Management Science Letters*, 2020(10), 2337–2342. https://doi.org/10.5267/j.msl.2020.3.001
- Donthu, N., Kumar, S., Paul, J., Pattnaik, D., & Strong, C. (2020). A retrospective of the journal of strategic marketing from 1993 to 2019 using bibliometric analysis. *Journal of Strategic Marketing*, *30*(3), 1–21. https://doi.org/10.1080/0965254x.2020.1794937
- Doyle, J. P., Kunkel, T., Kelly, S. J., Filo, K., & Cuskelly, G. (2021). Seeing the same things differently: Exploring the unique brand associations linked to women's professional sport teams. *Journal of Strategic Marketing*, 1–15. https://doi.org/10.1080/0965254x.2021.1922489
- Duan, C., Kotey, B., & Sandhu, K. (2022). The effects of cross-border E-commerce platforms on transnational digital entrepreneurship: Case studies in the Chinese immigrant community. *Journal of Global Information Management (JGIM)*, 30(2).
- Duy, N. T., Mondal, S. R., Van, N. T. T., Dzung, P. T., Minh, D. X. H., & Das, S. (2020). A study on the role of web 4.0 and 5.0 in the sustainable tourism ecosystem of Ho Chi Minh City, Vietnam. *Sustainability*, 12(17), 7140. https://doi.org/10.3390/su12177140
- Erjansola, A. M., Lipponen, J., Vehkalahti, K., Aula, H. M., & Pirttilä-Backman, A. M. (2021). From the brand logo to brand associations and the corporate identity: Visual and identity-based logo associations in a university merger. *Journal of Brand Management*, 28(3), 241–253. https://doi.org/ 10.1057/s41262-020-00223-5
- Grünewald-Schukalla, L. (2019). Leslie M. Meier: Popular music as promotion. Music and branding in the digital age. In In: Ahlers, M., Lücke, M., Rauch, M. (eds)*Musik und Straße*. Jahrbuch für Musikwirtschafts- und Musikkulturforschung . Springer VS, Wiesbaden. https://doi.org/10.1007/ 978-3-658-26101-6\_14

- Hair, J. F., Jr., Hult, G. T. M., Ringle, C., & Sarstedt, M. (2016). A primer on partial least squares structural equation modeling (PLS-SEM). Sage publications.
- Hoffman, D. L., Moreau, C. P., Stremersch, S., & Wedel, M. (2021). The rise of new technologies in marketing: A framework and outlook. *Journal of Marketing*, 86(1), 1–6. https://doi.org/10.1177/ 00222429211061636
- Hyun, H., Park, J., Hawkins, M., & Kim, D. (2022). How luxury brands build customer-based brand equity through phygital experience. *Journal of Strategic Marketing*, 1–25. 16 March 2022. Taylor and Francis Online. https://doi.org/10.1080/0965254X.2022.2052937
- Imaningsih, E. S., & Vega, Y. (2020). Toward brand equity: The effect of brand awareness, perceived quality, brand association, and brand loyalty in boutique bakery company. *Journal of Marketing* and Consumer Research, 10(3), 12-23. https://doi.org/10.7176/jmcr/67-06
- Jackson, D. (2003). Sonic branding: An essential guide to the art and science of sonic branding. Springer. Jain, R., & Bagdare, S. (2011). Music and consumption experience: A review. International Journal of Retail & Distribution Management, 39(4), 289–302. https://doi.org/10.1108/09590551111117554
- Kaytaz Yigit, M., & Tıgli, M. (2018). The moderator role of brand awareness and brand loyalty on consumers' online impulse buying behavior. *International Journal of Research in Business and Social Science (2147–4478)*, 7(1), 35–48. https://doi.org/10.20525/ijrbs.v7i1.834
- Kelly, M. (2017). Analysing the complex relationship between logo and brand. *Place Branding and Public Diplomacy*, *13*(1), 18–33. https://doi.org/10.1057/pb.2016.3
- Keylin, V. (2020). Crash, boom, bang. SoundEffects an Interdisciplinary Journal of Sound and Sound Experience, 9(1), 98–115. https://doi.org/10.7146/se.v9i1.118243
- Kim, S., & Manoli, A. E. (2020). Building team brand equity through perceived CSR: The mediating role of dual identification. *Journal of Strategic Marketing*, 30(3), 1–15. https://doi.org/10.1080/ 0965254x.2020.1795912
- Lan, V. T. P., & Giang, N. T. (2021). Bank's brand, social influence, and its impact on the decision on using mobile banking services of individual customers: An empirical study. *Accounting*, 20(3), 925–932. https://doi.org/10.5267/j.ac.2021.1.015
- Mamun, M. A. A., Strong, C. A., & Azad, M. A. K. (2020). Islamic marketing: A literature review and research agenda. *International Journal of Consumer Studies*, 45(5), 964–984. https://doi.org/10. 1111/ijcs.12625
- Martin, B. A. S., & Strong, C. A. (2015). The trustworthy brand: Effects of conclusion explicitness and persuasion awareness on consumer judgments. *Marketing Letters*, 27(3), 473–485. https://doi.org/10.1007/s11002-014-9343-9
- Martin, B., Strong, C., & O'Connor, P. (2018). How psychologically entitled shoppers respond to service recovery apologies. *European Journal of Marketing*, 52(9/10), 2173–2190. https://doi.org/ 10.1108/ejm-02-2017-0165
- Meier, M. L. (2017). Popular music as promotion: Music and branding in the digital age. *European Journal of Communication*, 32(5), 506. https://doi.org/10.1177/0267323117730203g
- Moreira, A. C., Fortes, N., & Santiago, R. (2017). Influence of sensory stimuli on brand experience, brand equity and purchase intention. *Journal of Business Economics and Management*, 18(1), 68– 83. https://doi.org/10.3846/16111699.2016.1252793
- Muhammad, S. A., & Muath, L. S. (2018). Impact of brand elements on brand equity: An applied study on Jordanian corporations. *African Journal of Marketing Management*, *10*(3), 17–27. https://doi. org/10.5897/ajmm2016.0493
- Munsch, A. Millennial and generation Z digital marketing communication and advertising effectiveness: A qualitative exploration. (2021). *Journal of Global Scholars of Marketing Science*, 31(1), 10–29. Marketing Management in International Contexts. https://doi.org/10.1080/21639159.2020.1808812
- Park, H. Y., & Chang, S. R. (2022). When and how brands affect importance of product attributes in consumer decision process. *European Journal of Marketing*, 56(13), 1–25. https://doi.org/10.1108/ EJM-09-2020-0650
- Pathak, A., Velasco, C., & Spence, C. (2019). The sound of branding: An analysis of the initial phonemes of popular brand names. *Journal of Brand Management*, 27(3), 339–354. https://doi. org/10.1057/s41262-019-00183-5

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- Pinar, M., Girard, T., & Basfirinci, C. (2020). Examining the relationship between brand equity dimensions and university brand equity. *International Journal of Educational Management*, 34 (7), 1119–1141. https://doi.org/10.1108/ijem-08-2019-0313
- Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: A critical review of the literature and recommended remedies. *The Journal of Applied Psychology*, 88(5), 879–903. https://doi.org/10.1037/0021-9010.88.5.879
- Pranata, Z., & Permana, D. (2021). Identifying the role of brand loyalty in the relationship between brand awareness, brand association and repurchase intention. *European Journal of Business and Management Research*, 6(1), 129–133. https://doi.org/10.24018/ejbmr.2021.6.1.704
- Purani, K., & Jeesha, K. (2021). Community based brand equity as brand culture: Advancing brand equity conceptualization for a connected world. *AMS Review*, *12*(1-2), 52-70. https://doi.org/10. 1007/s13162-020-00189-2
- Riedel, A. S., Lawley, M., & Birch, D. (2021). Communication channel efficiency across the early lifecycle stages of a brand. *Journal of Strategic Marketing*, 1–13. https://doi.org/10.1080/0965254x.2021.1897864
- Schivinski, B., Muntinga, D. G., Pontes, H. M., & Lukasik, P. (2019). Influencing COBRAs: The effects of brand equity on the consumer's propensity to engage with brand-related content on social media. *Journal of Strategic Marketing*, 29(1), 1–23. https://doi.org/10.1080/0965254x.2019.1572641
- Severi, E., & Ling, K. C. (2013). The mediating effects of brand association, brand loyalty, brand image and perceived quality on brand equity. *Asian Social Science*, 9(3), 125-137. https://doi.org/10. 5539/ass.v9n3p125
- Sharma, R. (2017). Building customer-based brand equity of domestic brands: Role of brand equity dimensions. *Metamorphosis: A Journal of Management Research*, 16(1), 45–59. https://doi.org/10. 1177/0972622517702187
- Shiau, W. L., Sarstedt, M., & Hair, J. F. (2019). Internet research using partial least squares structural equation modeling (PLS-SEM). *Internet Research*, *29*(3), 398–406. https://doi.org/10.1108/intr-10-2018-0447
- Singh, I., Nayyar, A., & Das, S. (2019). A study of antecedents of customer loyalty in banking & insurance sector and their impact on business performance. *Revista Espacios*, 40(06), 11-28. https://www.revistaespacios.com/a19v40n06/a19v40n06p11.pdf
- Singh, S., Mondal, S., Singh, L. B., Sahoo, K. K., & Das, S. (2020). An empirical evidence study of consumer perception and socioeconomic profiles for digital stores in Vietnam. *Sustainability*, 12 (5), 1716. https://doi.org/10.3390/su12051716
- Sreejesh, S., Paul, J., Strong, C., & Pius, J. (2020). Consumer response towards social media advertising: Effect of media interactivity, its conditions and the underlying mechanism. *International Journal of Information Management*, 54(3), 102155. https://doi.org/10.1016/j.ijin fomgt.2020.102155
- Terason, S., Zhao, S., & Pattanayanon, P. (2021). Customer value and customer brand engagement: Their effects on brand loyalty in automobile business. *Innovative Marketing*, *17*(2), 90–101. https:// doi.org/10.21511/im.17(2).2021.09
- Tsordia, C., Papadimitriou, D., & Parganas, P. (2017). The influence of sport sponsorship on brand equity and purchase behavior. *Journal of Strategic Marketing*, *26*(1), 85–105. https://doi.org/10. 1080/0965254x.2017.1374299
- Van, N. T. T., Vrana, V., Duy, N. T., Minh, D. X. H., Dzung, P. T., Mondal, S. R., & Das, S. (2020). The role of human–Machine interactive devices for post-COVID-19 innovative sustainable tourism in Ho Chi Minh City, Vietnam. *Sustainability*, 12(22), 9523. https://doi.org/10.3390/su12229523
- Veritonic Q4 Audio logo Survey. (2016). For audio engagement & brand recall. Retrieved July, 2020, from. https://www.veritonic.com/audio-logo-index
- Waqas, M., Hamzah, Z. L., & Salleh, N. A. M. (2022). Branded content experience in social media settings: A consumer culture theory perspective. *Journal of Brand Management*, *29*(2), 225–240. https://doi.org/10.1057/s41262-021-00268-0
- Yang, J., Anderson, E., & Gordon, B. (2021). Digitization and flexibility: Evidence from the South Korean movie market. *Marketing Science*, 40(5), 821–843. https://doi.org/10.1287/mksc.2020.1282
- Zha, D., Foroudi, P., Melewar, T. C., & Jin, Z. (2022). Experiencing the sense of the brand: The mining, processing and application of brand data through sensory brand experiences. *Qualitative Market Research*, *25*(2), 205–232. https://doi.org/10.1108/QMR-09-2021-0118