



A "sonic branding" methodology for matching brand values to a sound logo: the Sennheiser case study



Julien BRÉCHETEAU Kévin GUILLAMET Anaïs LEBASTARD Sébastien LÊ

Applied Statistics 11th Sensometrics July 2012

Contents

Introduction The points in question Methodology Results Conclusion

Contents

Introduction The points in question Methodology Results Conclusion

Definitions

 Sonic branding (also called "Sound design") consists in creating a single melody for a retail space, an advertisement or a website.

Tony Jazz & Mathieu Billon, On Air agency

- The sound logo is the shortest format (5 or 6 musical notes)
 of sounds that recreates the brand identity.
- Example :

Brand identity of INTEL:

• Logo:





- **Slogan :** «Inspired innovation that's changing the world »
- Values: Innovation, Performance, Technology

Context

 Previously, brand communication was mainly focused on visual aspect. Music and sound were not used in a rational way.

Today, sound is taking on a new dimension in marketing.

Sonic branding is a new concern for companies.

no precise methodology for the creative process

Contents

Introduction The points in question Methodology Results Conclusion

The points in question

- How to create a sound logo that is both characteristic and representative of a company?
- How to choose the sound logo that conveys brand values best?



Contents

Introduction The points in question Methodology Results Conclusion

Choice of the product space

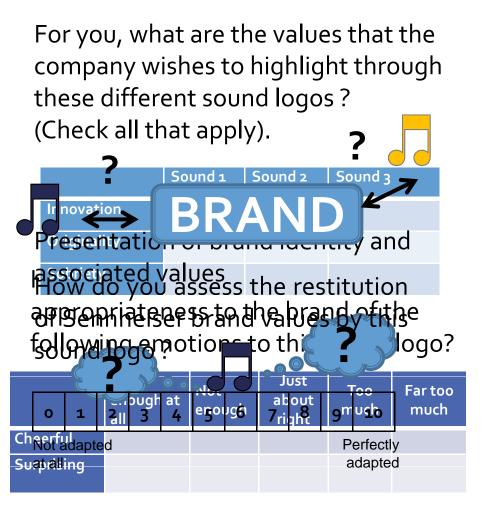
Sound : a complex stimulus.

Uncontrollable factors	Controllable factors	
	The pitch	
The melody	The tempo	
	The modes : minor and major	
	The instrument	
	The instruments	
The accompaniment	The balance	

Questionnaire

Structure of the questionnaire :

- Association of sound logos with corporate values
- 2. Briefing
- Appropriateness of each sound logo to the brand with JAR emotion scales
- Appropriateness mark of the logo to the brand
- Textual : Why?



Application of the methodology:

The Sennheiser case study



Case study: Sennheiser

- International brand but its sound logo is not very well known in France.
- Briefing presented to the panellists :



One of the biggest **audio device manufacturers** in the world, specialized in the production of **microphones** and **headphones**.

The SENNHEISER's values are technology, independence and innovation.

This premium brand associates « elegance », high-technology and the highest capacity for innovation on the market.

The SENNHEISER sound is a **« different »** sound, an **« expert »** sound which seduces the most professional and demanding music lovers.

- Created in 1945, head office in Germany.
- Family business with a passion for sound
- A German company, expert in sound quality for more than 65 years.
- 2100 employees.
- 4 plants: 2 in Germany, 1 in Ireland, 1 in the USA.
- Brand present in 40 countries.
- Company sales: 468 million € in 2010.

Case study: Sennheiser

- Determining parameters for our versions of the sound logo :
 - Tempo (80, 120, 160)
 - Pitch (Octave 1, Octave 3, Octave 5)
 - Instruments (Accordion, Piano, Violin)

- Duration of the questionnaire: 20-25 min
 - 12 logos to listen to
 - 105 judges

Values association

1st part of the questionnaire: Selected company values

Senneheiser Values

Other brand values

	Values	Opposite values	
_	Innovation	Traditional	
	Premium	Popular	
	Technology	Artisanal	
	International	Proximity	
	Sobriety	Passion	
	Fun	Serious Complexity	
	Simplicity		
	Freedom	Conviviality	
	Performance	Human	

Adequacy with brand identity

- 3rd part of the questionnaire: after the briefing
 - Selected emotions in connection with Sennheiser :

Emotions	Why?		
Serious	International		
Surprising	Innovation	Sennheiser	
Exciting	Technology	Values	
Sensual	Elegance		
Joyful			
Energetic	Other	Other	
Sad	Other	Values	
Warm			

Contents

Introduction The points in question Methodology Results Conclusion

Results

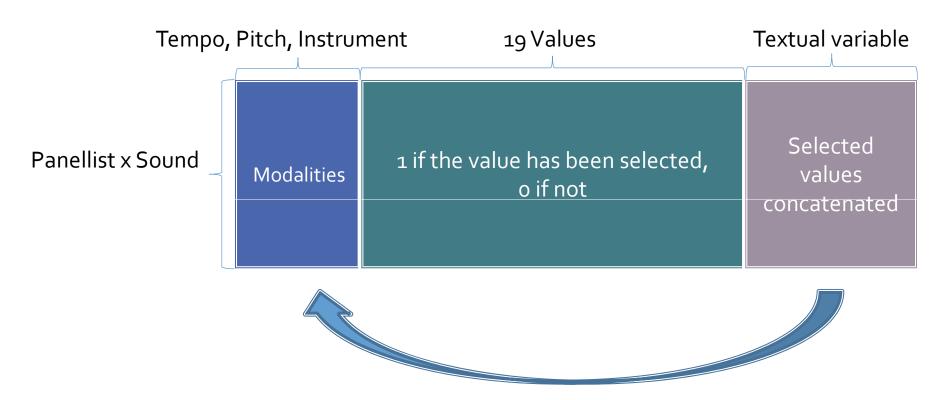
1 - Analysis of the values associated with sound logos (before briefing)

2- Analysis of the appropriateness of emotions with the sound logos (after briefing)

3 - Validation of the chosen version

1- Association to values (before briefing) <u>Textual Analysis</u>

Dataset:



1- Association to values (before briefing) <u>Textual Analysis</u>

Instrument

Accordion	Popular Artisanal Traditional Conviviality Originality Fun
Piano	Sobriety Humanity Innovation Simplicity Freedom Passion
Violin	Complexity Premium Performance Passion Serious

Pitch

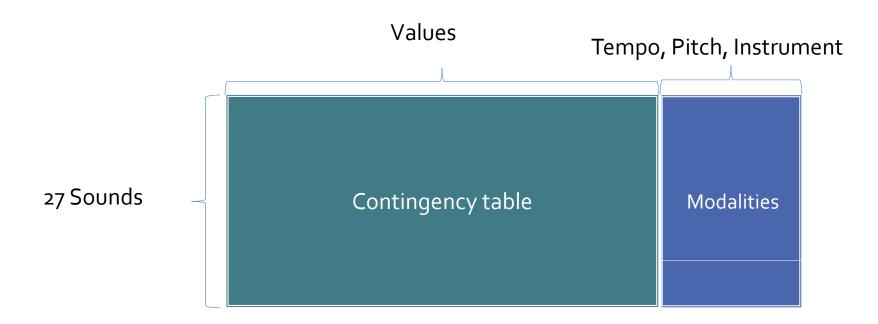
Octave 1	Serious Sobriety Artisanal Traditional
Octave 3	Conviviality Popular Freedom
Octave 5	Technology Innovation Originality Fun Performance

Tempo

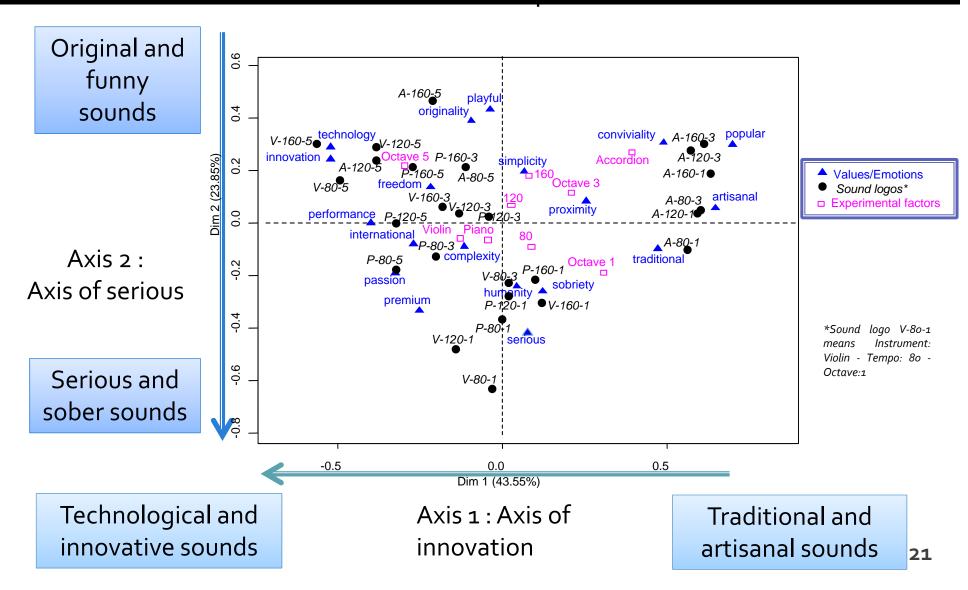
Tempo 8o	Serious Complexity
Tempo 120	
Tempo 160	Conviviality Proximity Fun Originality

1- Association to values (before briefing) <u>Multidimensional analysis</u>

Dataset:



1- Association to values (before briefing) <u>Multidimensional analysis</u>



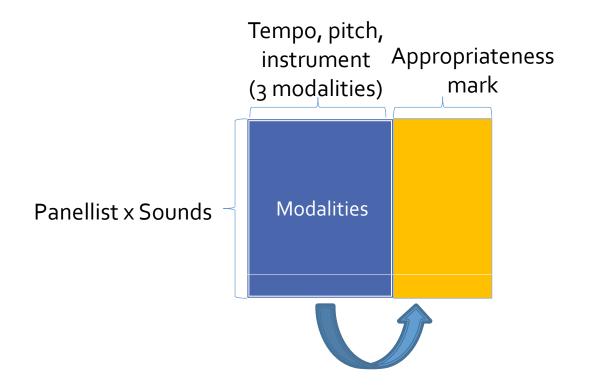
Results

 1 - Analysis of the values associated with sound logos (before briefing)

2- Analysis of the appropriateness of the emotions with the sound logos (after briefing)

3 - Validation of the chosen version

2- Appropriateness with emotions Analysis of Variance



Analysis of variance :
Appropriateness mark ~ Panellist + Tempo + Pitch + Instrument + Interactions

2- Appropriateness with emotions Analysis of Variance

8.62E-02

1.67E-11

Principal Effects

120

160

Pitch	Coefficient	Critical Probability
Octave 1 (low-pitched)	-0.32	5.82E-05
Octave 3 (Medium)	0.55	6.90E-12
Octave 5 (high-pitched)	-0.23	3.84E-03

Instrument	Coefficient	Critical Probability
Accordion	-1.05	3.02E-38
Piano	1.03	3.25E-36
Violin	0.03	7.44E-01
Tempo Coefficient Critical Probability		
80	-0.67	4.40E-17

0.14

0.54

Interactions

Pitch ← Tempo

Tempo ←→ Instrument

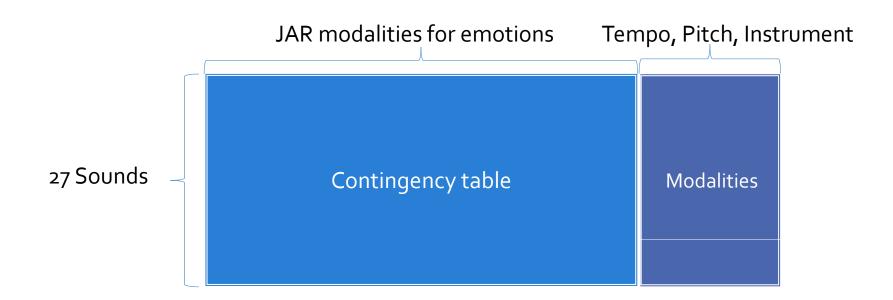
Not significant

Pitch ←→ Instrument

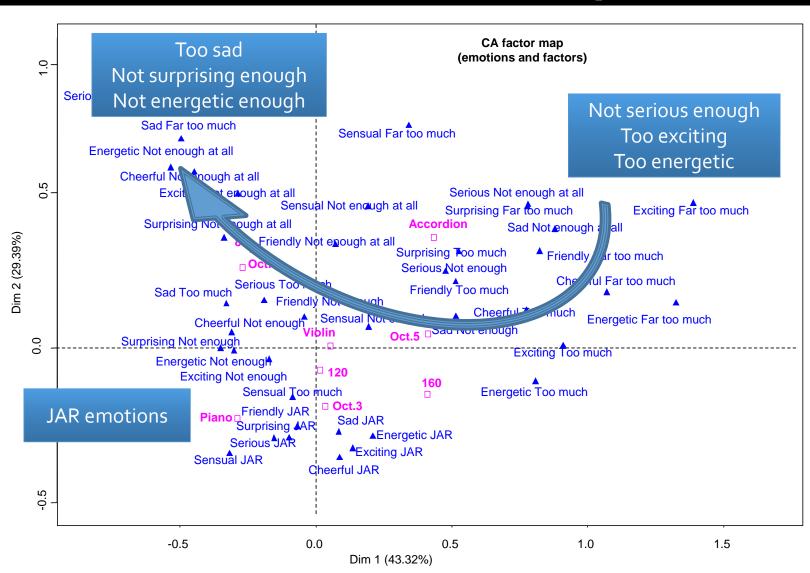
	Coefficient	Critical Probability
Pitch-5 : Accordion	0.48	2.15E-05
Pitch-3 : Violin	0.38	6.79E-04
Pitch-1 : Violin	0.23	4.38E-02
Pitch-3 : Accordion	-0.38	7.55E-04
Pitch-5 : Violin	-0.61	7.41E-08

2- Appropriateness with emotions <u>Multidimensional analysis</u>

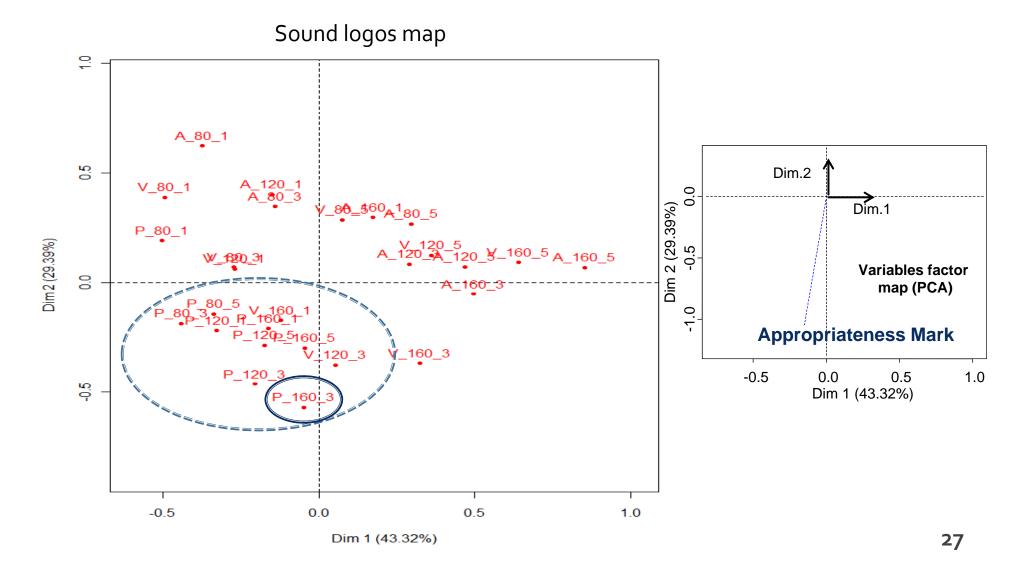
Dataset:



2- Appropriateness with emotions <u>Multidimensional analysis</u>



2- Appropriateness with emotions <u>Multidimensional analysis</u>



2- Appropriateness with emotions

Combination considered as the most appropriate

Instrument : **Piano**Pitch: **3 (medium)**Tempo: **160**

→ Does the favorite version retransmit Sennheiser values well?

Results

- 1 Analysis of the values associated with sound logos (before briefing)
- 2- Analysis of the appropriateness of emotions with the sound logos (after briefing)
 - 3 Validation of the chosen version

3- Validation of the chosen version Textual analysis by product

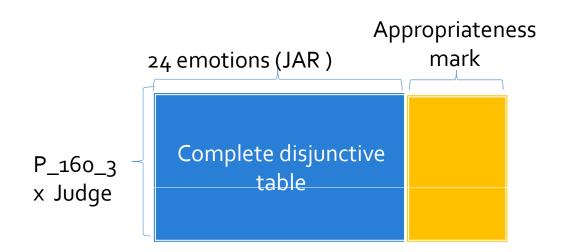
Instrument : Piano
Pitch: 3 (médium)
Tempo: 160

Independently of
Sennheiser brand
identity

3- Validation of the chosen version Penalty analysis

- How to optimize the chosen version?
- Which emotions penalize the most?
 - → Penalty Analysis :

Recoded into three levels JAR (Not enough -JAR-Too much)

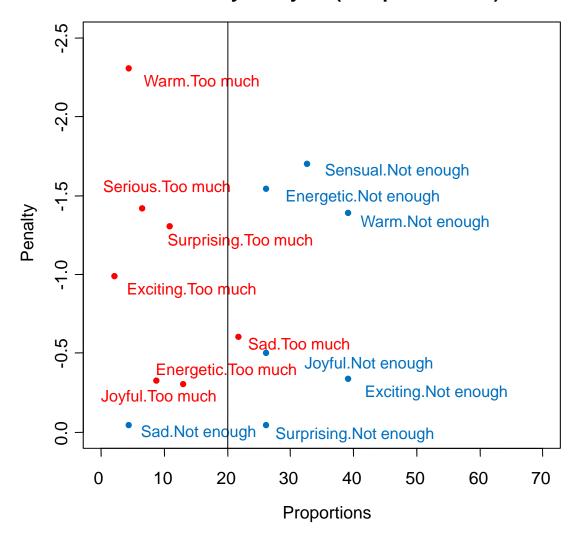


Appropriateness mark~ Joyful.Not_Enough + Joyful.Too_Much + Exciting.Not_Enough + (...)

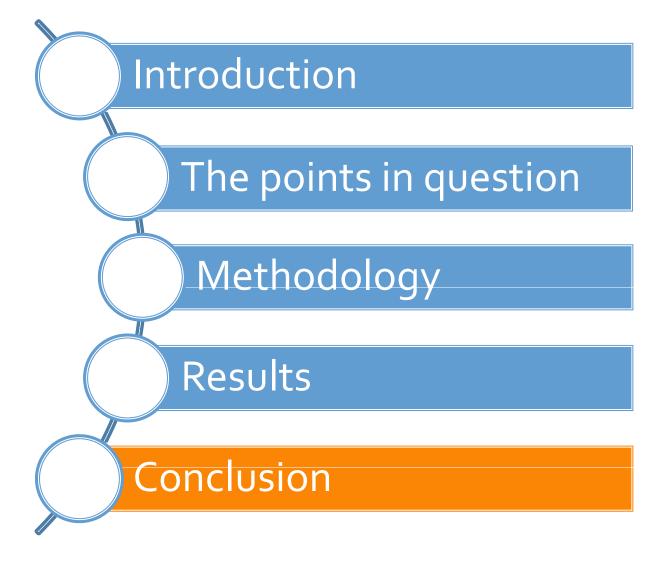
3- Validation of the chosen version Penalty analysis

Penalty Analysis (complete model)

Piano_16o_Medium



Contents



Conclusion

- Original and controlled approach of sonic branding
 - → Quantitative
 - Definition of experimental factors

- •Questionnaire in two steps
 - Association of values without knowledge of the brand
 - Notion of appropriateness to a brand identity
- ■Association qualitative study → quantitative study
 - Choice of the melody, of the arrangements
 - Melody optimization

Acknowledgments

- M. Sébastien LÊ
- Jessica MAGNIER (production of the sound logos)
- Sensometrics organizing team

Thank you for your attention