The Sense of Sound

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"Sound is undoubtedly the forgotten flavour sense"

 Most researchers, when they think about flavour, fail to give due consideration to the sound that a food makes when they bite into and chew it. However, ..., what we hear while eating plays an important role in our perception of the textural properties of food, not to mention our overall enjoyment of the multisensory experience of food and drink' (Spence, 2015).

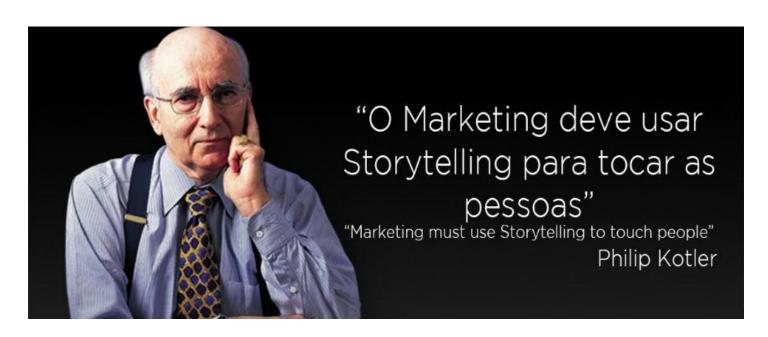
The sound of the market place

- 'Everybody sells intangibles in the marketplace, no matter what is produced in the factory' (Levitt, 1981).
- In some cases, the atmosphere is the primary product' (Kotler, 1973)



Atmospherics

 "Atmospherics is the effort to design buying environments to produce specific emotional effects in the buyer that enhance his purchase probability" (Philip Kotler, 1973)



Studies about Music in the Store

- Slow paced music results in slower flow of customers. More time spent in the store = more money spent (38% +; Milliman, 1982)
- Is only true if music played in minor mode (Knofler et al., 2012)
- More expensive wine is bought when classical music is played (Areni and Kim, 1993)



The Fat Duck Restaurant Experiment

Seafood tastes
significantly better and
not salty anymore while
listening to the sounds of
the ocean compared to
other soundtracks



Synaestethic Matching of Sound

- Low/high pitched sounds enhanced the bitterness/sweetness in a bittersweet toffee
- British Airways
 Soundbite Tracks for long distance flights to improve the taste of the meal



The Sound of Chocolate http://www.thesoundofchocolate.be/



In Brussels local chocolatiers, scientists and musiciens developed new pralines with music specifically designed to enhance the tasting experience

Human Perception is biased

One product attributes 'shines' over all the other attributes and colours them in a specific meaning.

Stimulation of one sensory pathway causes an involuntary experience in a second pathway.

Related Marketing theories:

- Halo Effect
- Sensation transference
- Quality Cues



Multisensory Flavor Perception

Sound influences the perception of taste

- Identical beers got different ratings of sweetness, bitterness, sourness and alcohol content
- Used for "sonic seasoning": Coffee is better rated when we hear the coffee machine before tasting the coffee.



Sound design to improve the eating experience!

- Bahlsen, the cookie company, developed different sounds for different target groups
- Nestlé uses a Crustimeter
- When Unilever changed the cracking sound of Magnum ice, consumers complained!



Summary

- We almost never experience taste in isolation of other senses.
- Taste is the result of a "multisensory flavour perception" (80% of our taste perception stems from olfactory receptors)
- Sonic seasoning is a chance for new product development to offer better eating experiences without adding artificial ingredients

Thank you for your attention!

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