



Ideal Profile Method (IPM): The ins and outs

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ABSTRACT

The *Ideal Profile Method* is a sensory methodology mixing classical profiling (such as QDA[®]) and JAR scale. It is performed by consumers who are asked to rate each product on both their perceived and ideal intensities for a list of attributes. In the same test, consumers also rate the products on liking.

The strength of such methodology is that it brings a lot of information about the products and the consumers. Indeed each consumer provides the sensory profile of the products (*i.e.* how do they perceive the products), their liking ratings (*i.e.* how do they appreciate the products) as well as their ideal profiles (*i.e.* what are their expectations).

The ideal profiles are directly actionable to guide for products' improvement. However, this particular information should be carefully managed since it is obtained from consumers and it describes virtual products. It relies on three main assumptions: (1) consumers should rate a unique and stable ideal product, (2) consumers can describe different ideals and (3) the ideal profiles provided by consumers should be consistent with the other descriptions (sensory and hedonic).

The study of these assumptions on 24 projects help understanding the consumers and how they define their ideals. It comes out that, although some consumers' ideal ratings are slightly influenced positively by the products, most of the consumers are reliable. Indeed, the consumers rate unique ideal products which are consistent according to the *sensory* and *hedonic* descriptions also provided. It also appears that it needs all to make a world, as consumers show differences in their ideal products.

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1. Introduction

In sensory analysis, one of the main objectives is to characterize a set of products according to the way they are perceived. To do so, a common practice consists in asking subjects to rate the products on the perceived intensities of a list of attributes. This practice, also known as descriptive analysis (such as QDA[®], Stone, Sidel, Oliver, Woosley, & Singleton, 1974), results in the definition of the sensory profile of the products, that is to say, a description of how these products are perceived by the subjects. *In fine*, the objective of such methodology is to obtain a product space, which is a map positioning the products that are perceived as similar close to each other, and placing apart those that are perceived as different. For this task, the subjects considered are usually experts or trained panelists (*i.e.* subjects who have training sessions during which they have learned to recognize and rate the perceived intensities of the pre-established list of attributes).

Although this methodology is extensively used, some alternative methods have been developed. These methods differ according to the points of view adopted. Subjects can:

- be free in the choice of attributes used to describe the products in a sequential monadic way, as for example in *Free Choice Profiling* (Williams & Langron, 1984) or *Flash Profiling* (Dairou & Sieffermann, 2002; Sieffermann, 2002);
- assess the entire product set simultaneously, as for example in *Napping*[®] (Pagès, 2005) or *Ultra Flash Profile* (Perrin et al., 2008);
- use holistic approaches to compare the products as in the case of *Free Sorting Task* (Cadoret, Lê, & Pagès, 2009; Lawless, 1989), *Hierarchical Sorting Task* (Cadoret, Lê, & Pagès, 2011) or *Sorted Napping* (Pagès, Cadoret, & Lê, 2010).

All these methodologies are defined as rapid methodologies because no or short training is required (Dehlholm, Brockhoff, Meinert, Aaslyng, & Bredie, 2012). The different alternatives highlight different approaches, for example: detailed vs. short description of the products, analytic vs. holistic approaches, use of trained panelists/experts vs. naïve consumers (Gazano, Ballay, Eladan, & Siefferman, 2005; Nestrud & Lawless, 2008).

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