

Differences between groups in chocolate tasting: compatibility between scores and rankings, visualization

2frame Analytics' **SOLUTIONS OVERVIEW BY 2FRAME** series focuses on the designed approach and the implemented solution of projects solved by 2frame as a way to illustrate the challenges in Technical Analysis that 2frame Analytics solves.



Proposed Problem

The client wants to compare chocolate tasting patterns of young and senior people, both professional tasters.

What is available

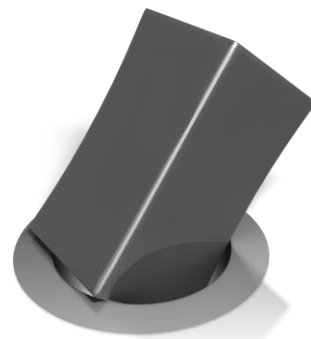
The client has the chocolate tasting data for different types of chocolates by different groups of tasters.

The tasters' evaluations consist of scores on several attributes and a **partial ranking** of the chocolates tasted.

The rankings are not systematically generated from the attributes' scores, consisting of synthetic evaluations of the chocolates by the tasters.

Derived Problem

Incompatibility between the attributes' scores and the **partial ranking** of the chocolates.



Proposed Solution

Compatibility of scores and rankings through optimization of the criteria formulated for this specific case by *2frame*, resulting in harmonized data (that is, the **completed rankings** and the scores are consistent). These criteria include, as a sub-criterion, the enhancement of the contrasts in the tasting patterns of chocolates between young and old tasters.

Dimension reduction and detailed visualization of the harmonized data with the use of multivariate statistical and mathematical/computational techniques.

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And our work too.

Contact:

Phone: 55 11 3042-2433 / +1 585 290-3019 (WhatsApp)

Skype: daniellesteffen

Email: danielle.steffen@2frameanalytics.com