

Combining polarized sensory positionning and pivot profile: what can we expect for wines?

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COMBINING POLARIZED SENSORY POSITIONING AND PIVOT PROFILE®: WHAT CAN WE EXPECT FOR WINES?

CONTEXT

French wine professionals have recently been interested by wines made from resistant grape varieties, yet not much is known on these wines.

Aim

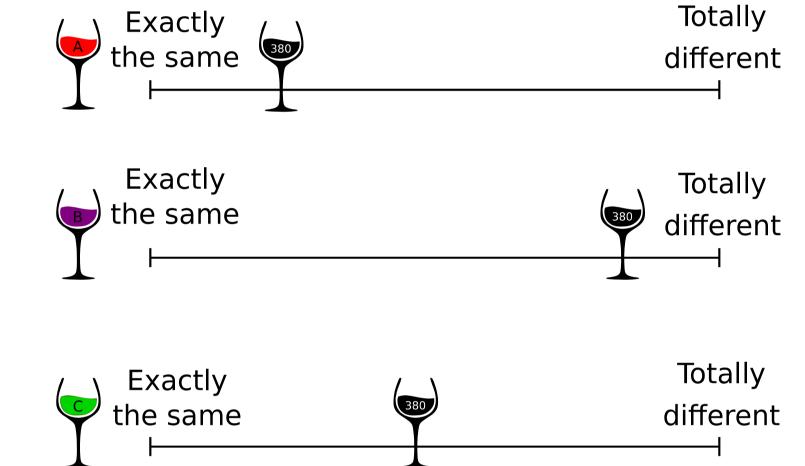
- To know whether these resistant grape varietal wines are sensory close to French well-known grape varietal wines
- To highlight the main sensory differences between resistant grape varietal wines and French well-known grape varietal wines

How does combining reference-based methods address those wine professionals' expectations?

MATERIAL & METHODS

POLARIZED SENSORY POSITIONING (PSP)

24 wine professionals 17 white wines Poles were selected directed sorting task: A: Riesling **B:** Sauvignon



PIVOT PROFILE® (PP)

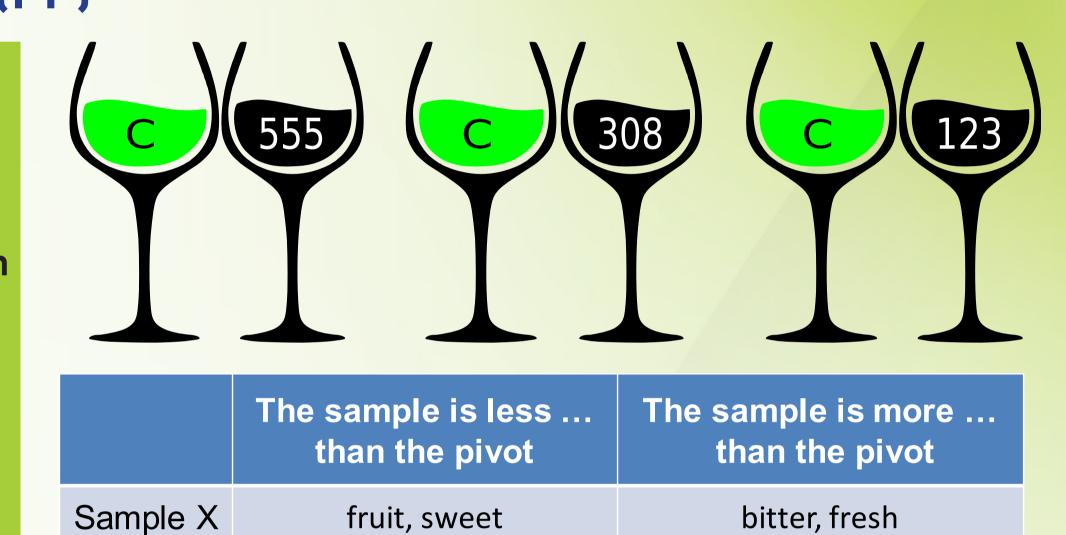
12 wine professionals 8 white wines

Pivot wine was chosen from the PSP results.

PIVOT PROFILE®

BR: Bronner

JO: Johanniter



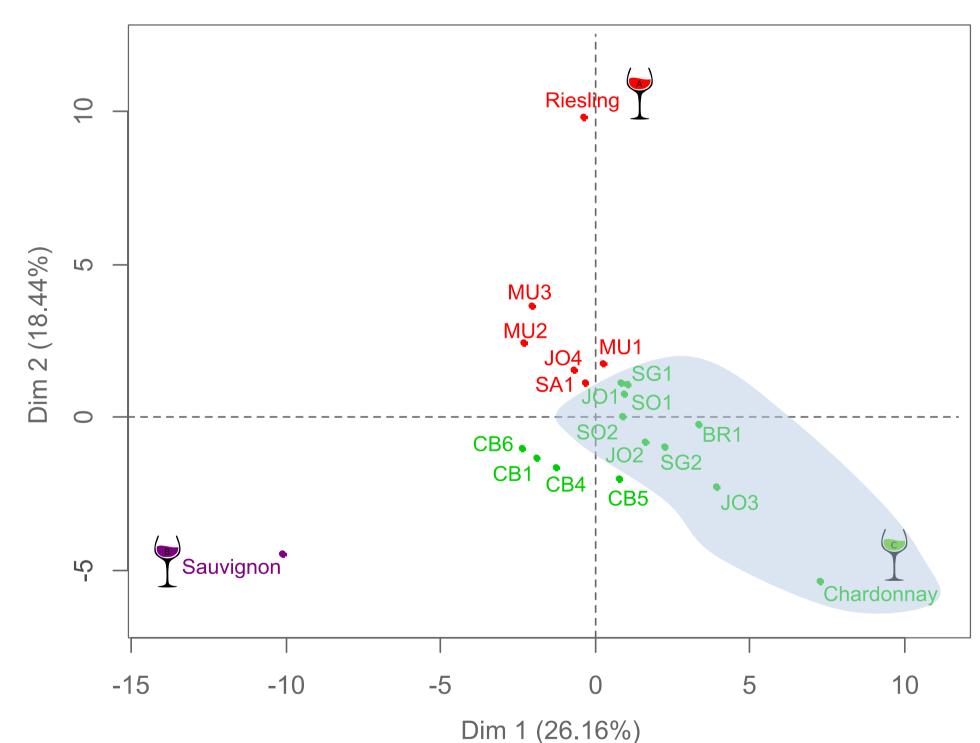
RESULTS

C: Chardonnay

POLARIZED SENSORY POSITIONING

Data were analyzed using Multiple Factor Analysis coupled to Hierarchical Ascending Classification. Each cluster is represented by a different color.

Poles were taken into account in the analysis and theoretically projected on the graph.



Data were analyzed using Correspondence Analysis Cos2 were added to better understand the representation of each descriptor on dimensions 1 and 2. Here the pivot was a Chardonnay

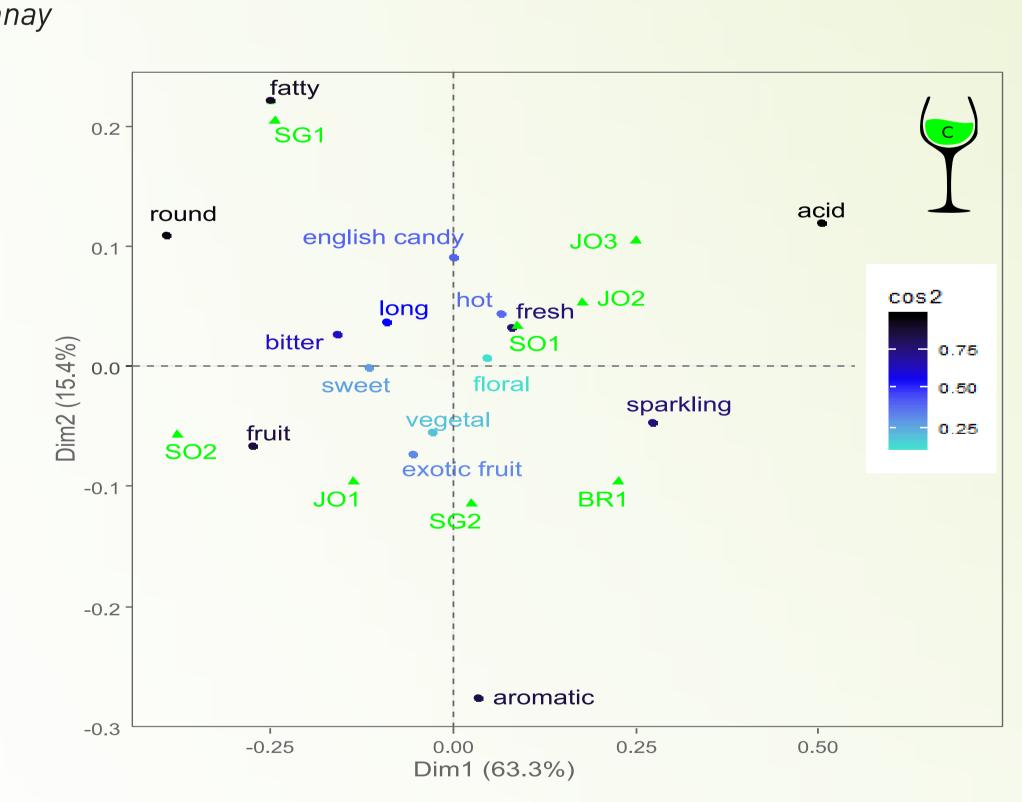
BR: Bronner

SO: Solaris

CB: Cabernet Blanc

JO: Johanniter MU: Muscaris MU: Muscaris SA: Saphira SA: Saphira SG: Souvignier Gris SG: Souvignier Gris SO: Solaris

For each cluster



Two groups of resistant wines:

- Green group is closer to the pole Chardonnay than the other two
- Red group is closer to the pole Riesling than the other two

Diversity among resistant grape varietal wines

- J01, J02 & J03 are close to the pole Chardonnay
- J04 are close to the pole Riesling

The poles are selected as Pivot wine according to their degree of sensory proximity with the resistant grape varietal wines.

Due to the sensory proximity of resistant grape varietal wines with the Chardonnay, few descriptors were elicited by the wine professionals. Those descriptors are related to the aromas, tastes & in-mouth sensations.

PP allows to highlight the **diversity** among resistant grape varietal wines

- SG1 is more fatty and round than Chardonnay
- SG2 is more exotic fruit and vegetal than Chardonnay
- S01 is more fresh than Chardonnay
- SO2 is more fruity than Chardonnay

DISCUSSION & CONCLUSION

- PSP results showed **sensory proximities** between the resistant grape varietal wines and the selected Riesling and Chardonnay wines.
- PP highlighted additional information to the PSP about the main sensory characteristics of resistant grape varietal wines which are perceived as more or less intense than the closest pole.
- This combination provides useful information to wine professionals by building a global sensory image of resistant grape varietal wines.
- Combining those two methods provided a better understanding among resistant grape varietal wines within reasonable time compared to classical methods.
- It represents a promising tool for future wine industry questions.

To get more information about the results of this study, flash this QR

