



Berry sensory profiles to assess grape ripening and quality

Vineyard and winery routine analysis









Presentation of the DQSA

- The Descriptive and Quantified Sensory Analysis (D.Q.S.A.) of grape berries, the DIWC methodology, is a tasting method for grape berries, established according to ISO 11035 norm.
- In the vineyard and in the winery, it allows a description and a differentiation of lots of grape berries using a predefined profile composed of descriptors quantified on a fixed scale.





When the grapes arrive at the winery...

- The D.Q.S.A. of berries allows the chief winemaker
 - o to characterize and differentiate the lots,
 - to evaluate the conformity of berries with the wine profile objectives
 - to allow reorientations and adjustments on winemaking processes.





When the grapes arrive at the winery...

Paired with the D.Q.S.A. of the Wine (D.I.W.C. methodology), the D.Q.S.A. of Berries allows to correlate the improvement of grapes quality with the improvement of the final product.









Effect of ripening Red grapes

The D.Q.S.A is a precise tool to monitor the ripening of the same vineyard lot at 2 moments, close to picking





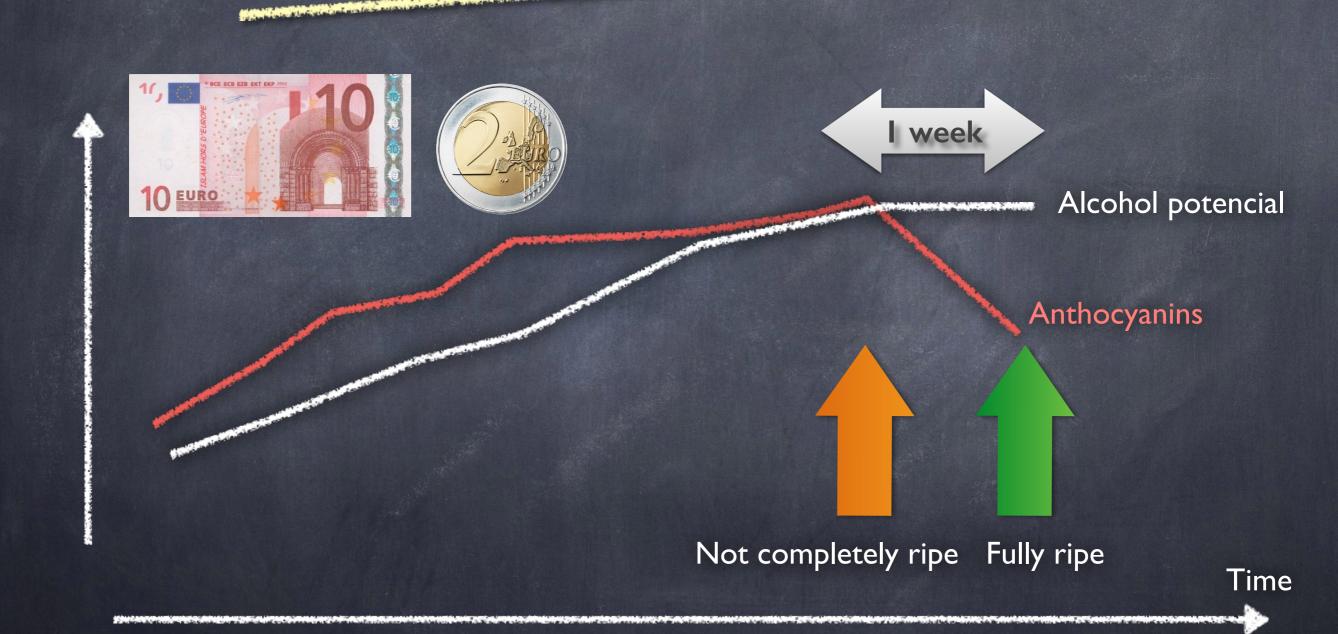
Main viticulture criteria for a 12 € market goal

- e High grape concentration
 - @ Mid to low yield: < 1.5 kg/plant
 - @ Preferentially short pruning
- o Complete ripening





Sugar and phenolic model curves

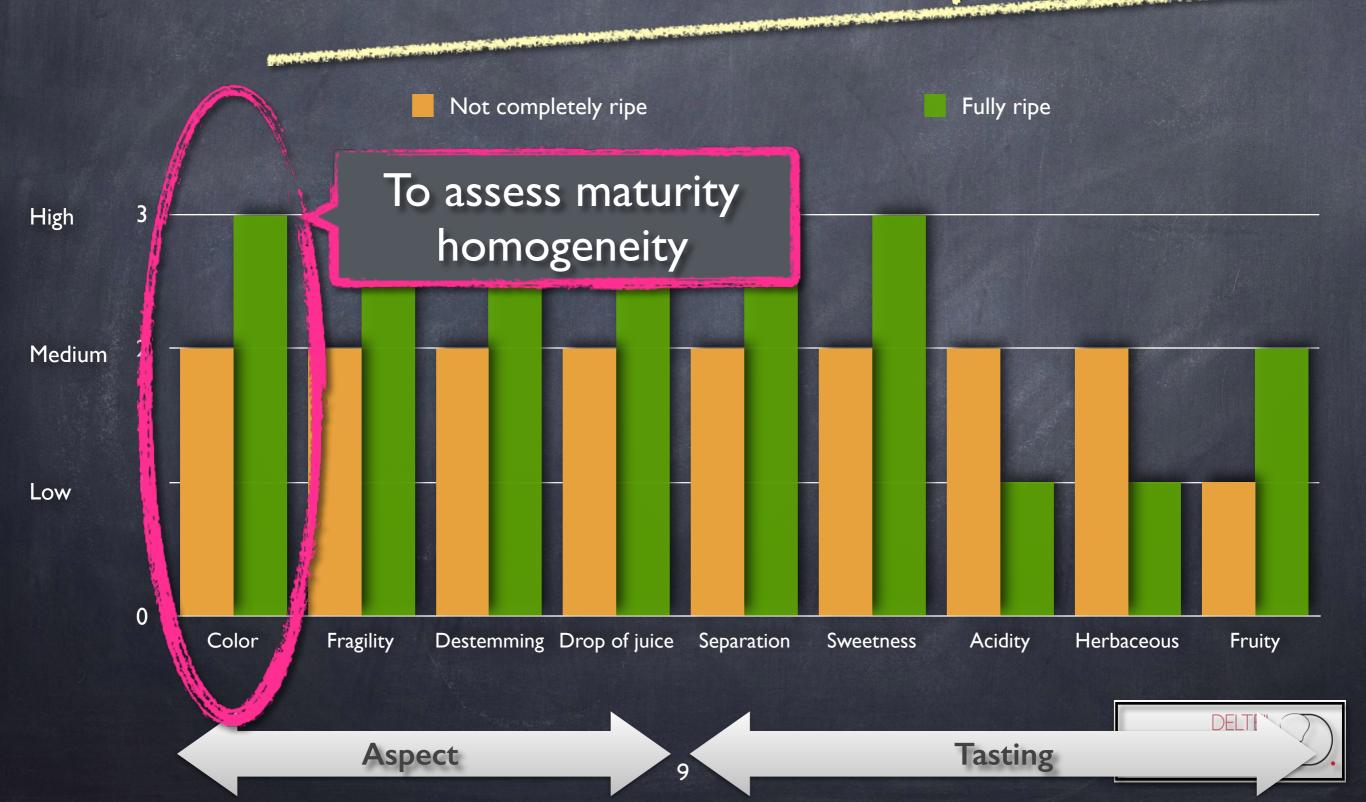








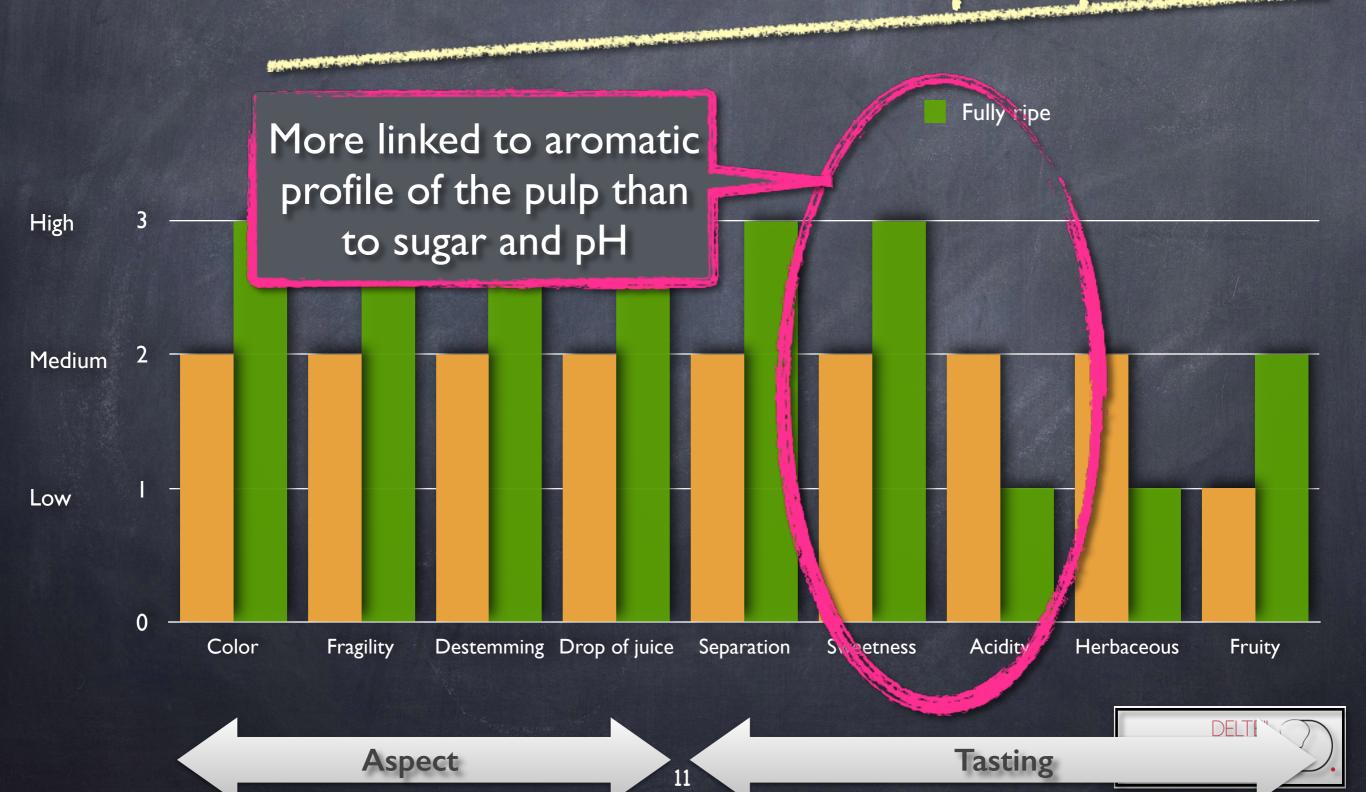




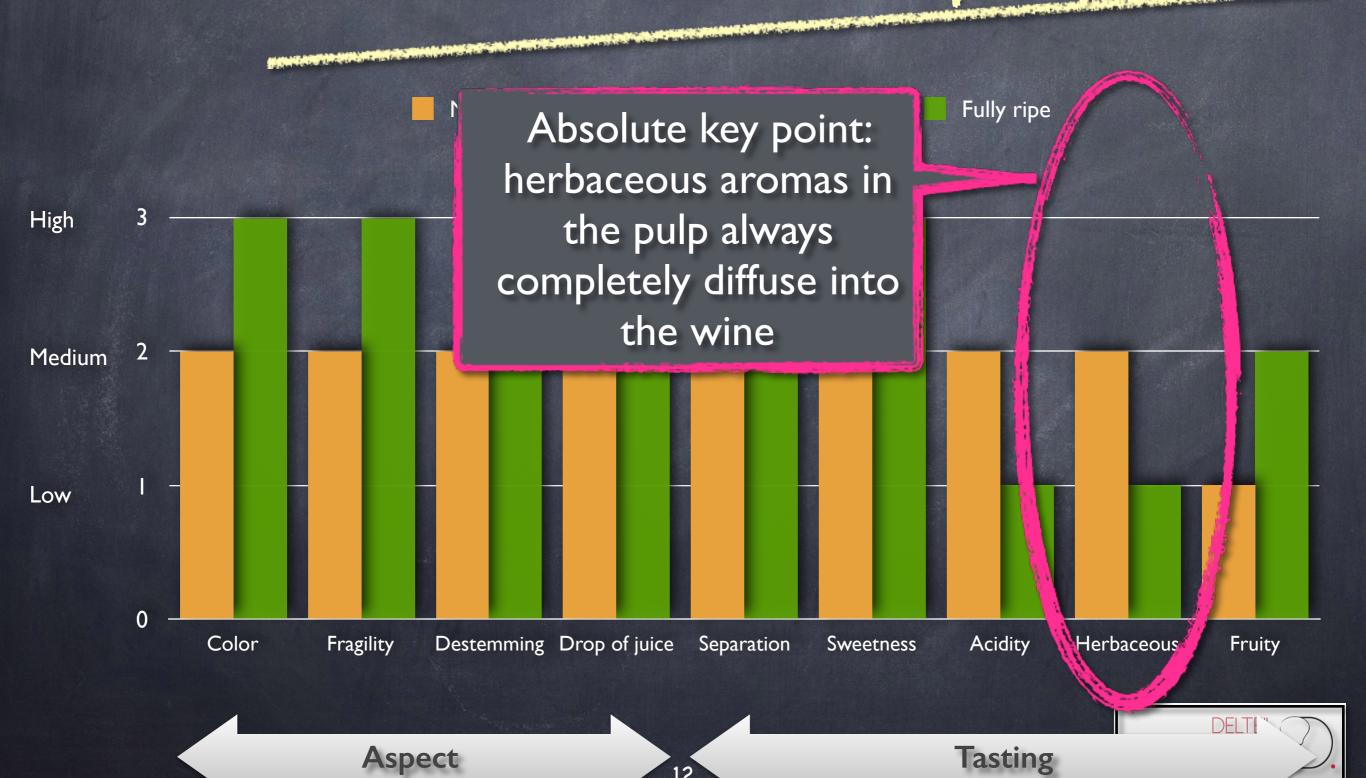




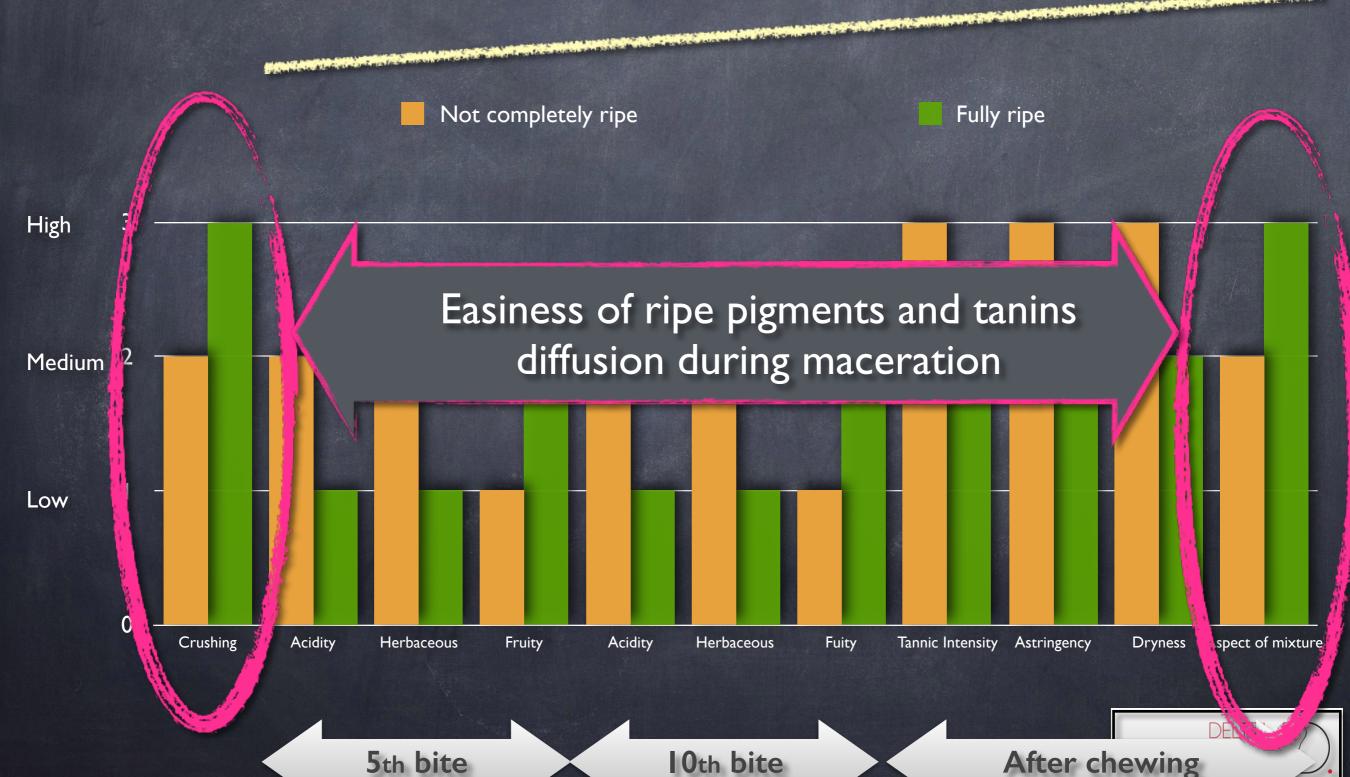




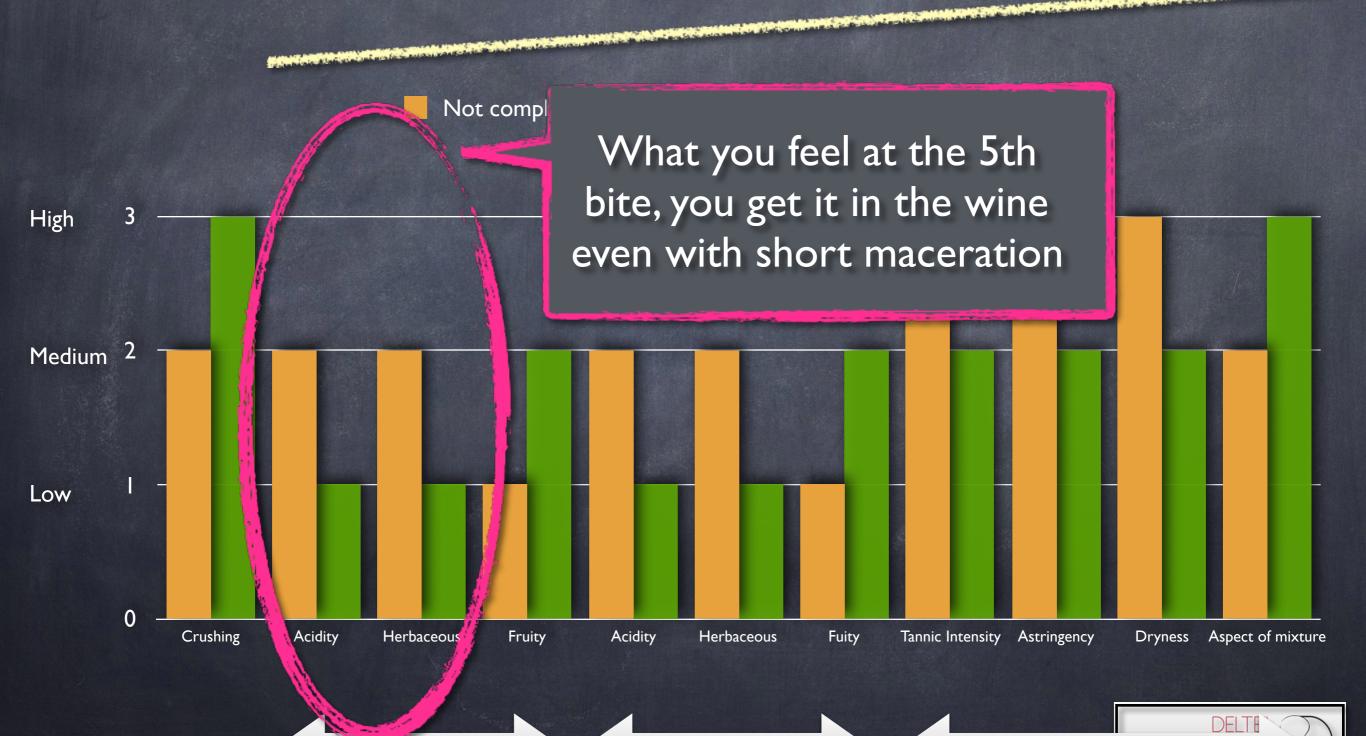












10th bite

After chewing

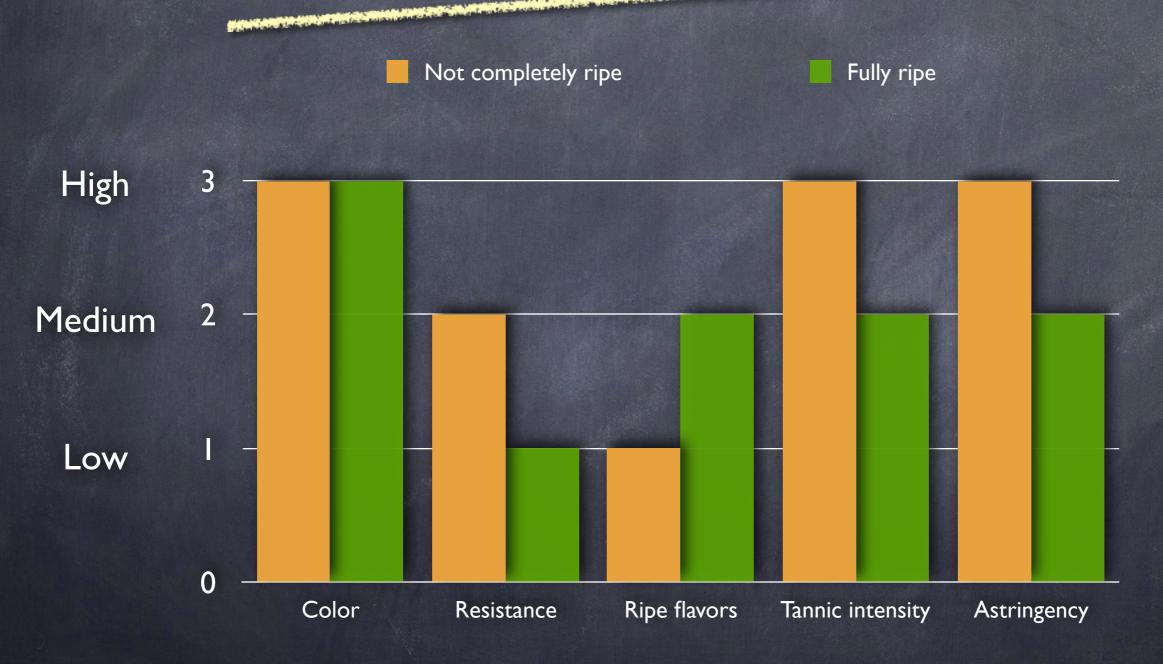
5th bite







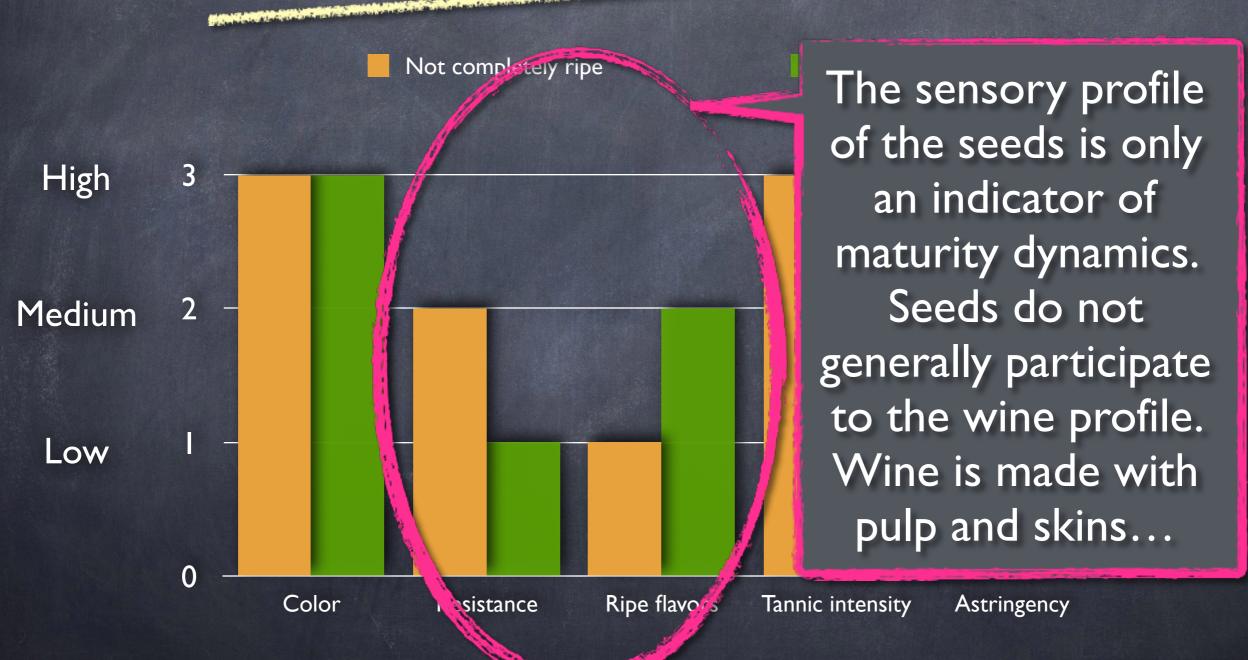
Tasking the seeds







Tasking the seeds







Obvious conclusion:

If possible, don't pick at the first date (orange bars): the grapes have not a conforming maturity for the 12 Euro segment









Effect of ripening. Red grapes

The D.Q.S.A is a precise tool to monitor the ripening of the same vineyard lot at 2 moments, close to picking





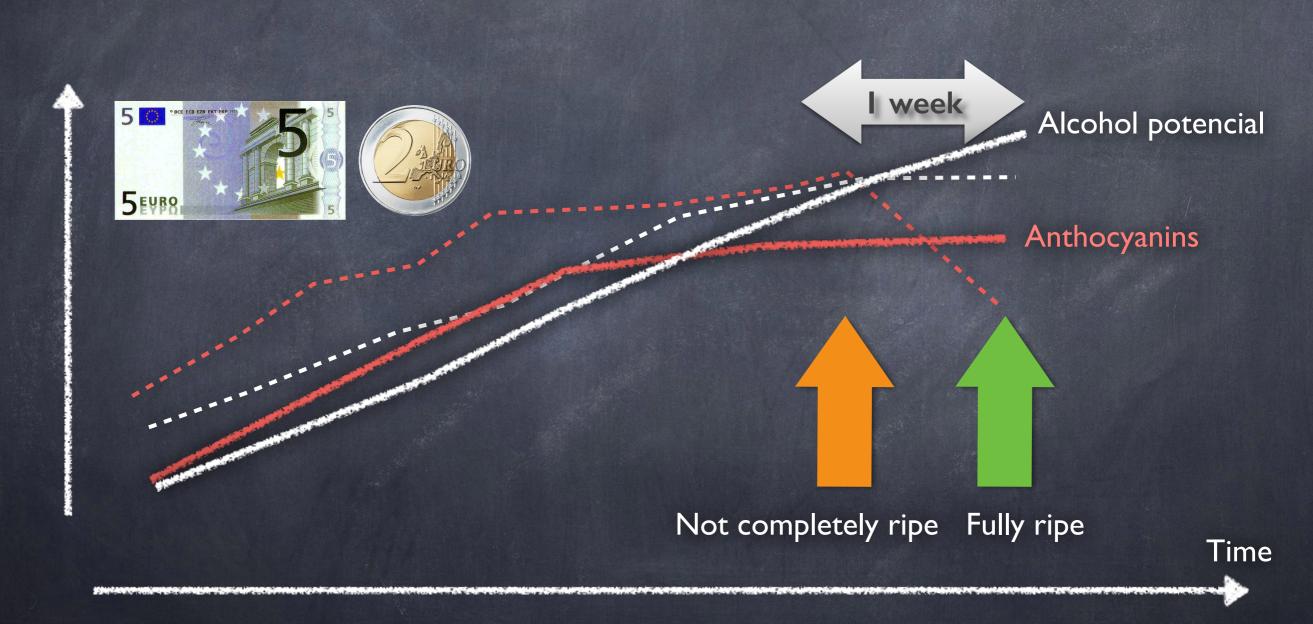
Main viticulture criteria for a 7 € market goal

- o sound grapes, every year, every lot
- @ Mid concentration
 - o Mid yield: 2-2.5 kg/plant
 - @ Preferentially short pruning
- o Complete pulp ripening





Sugar and phenolic model curves



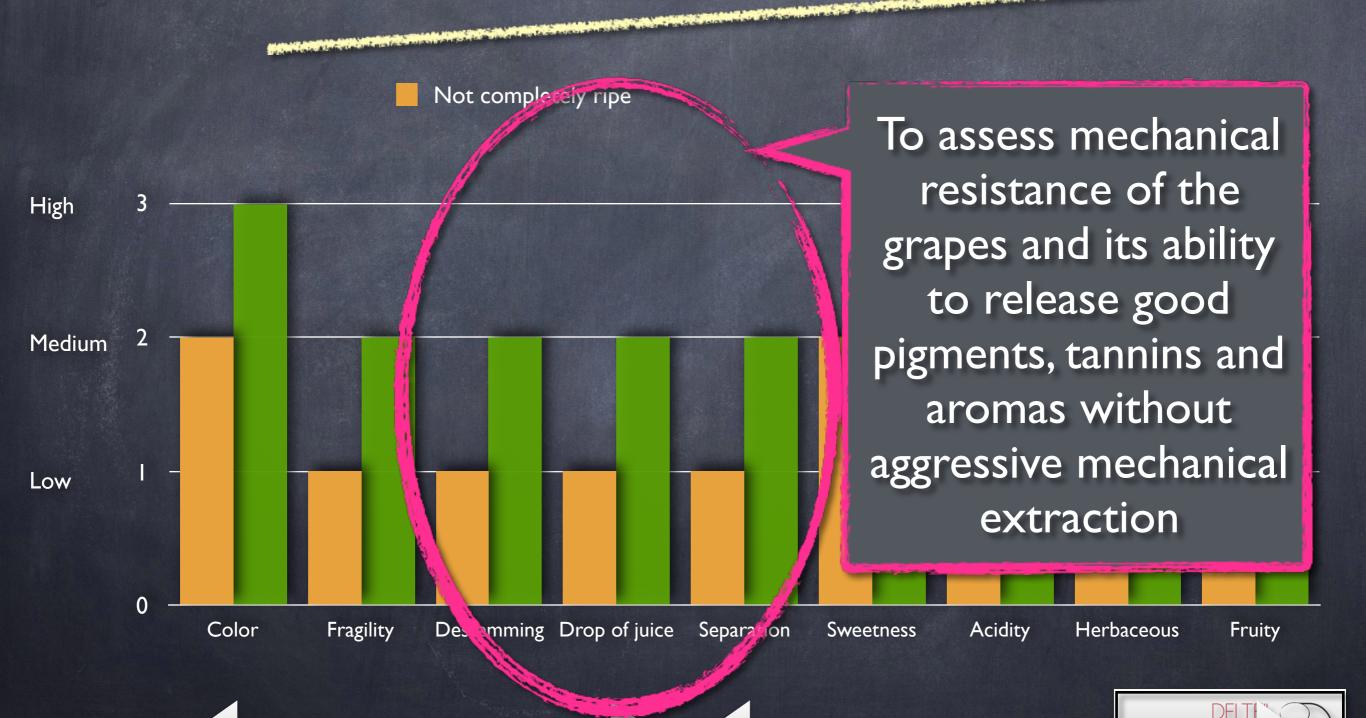






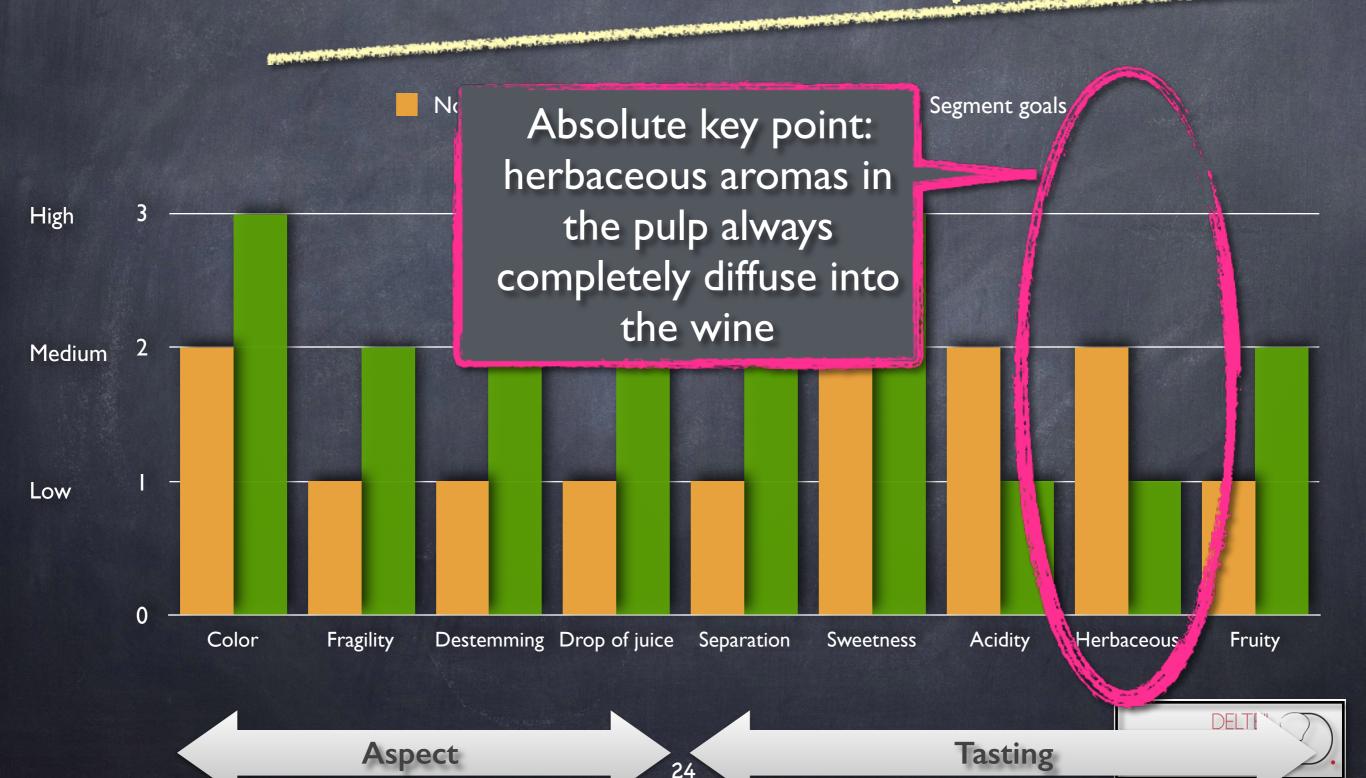


Tasting



Aspect







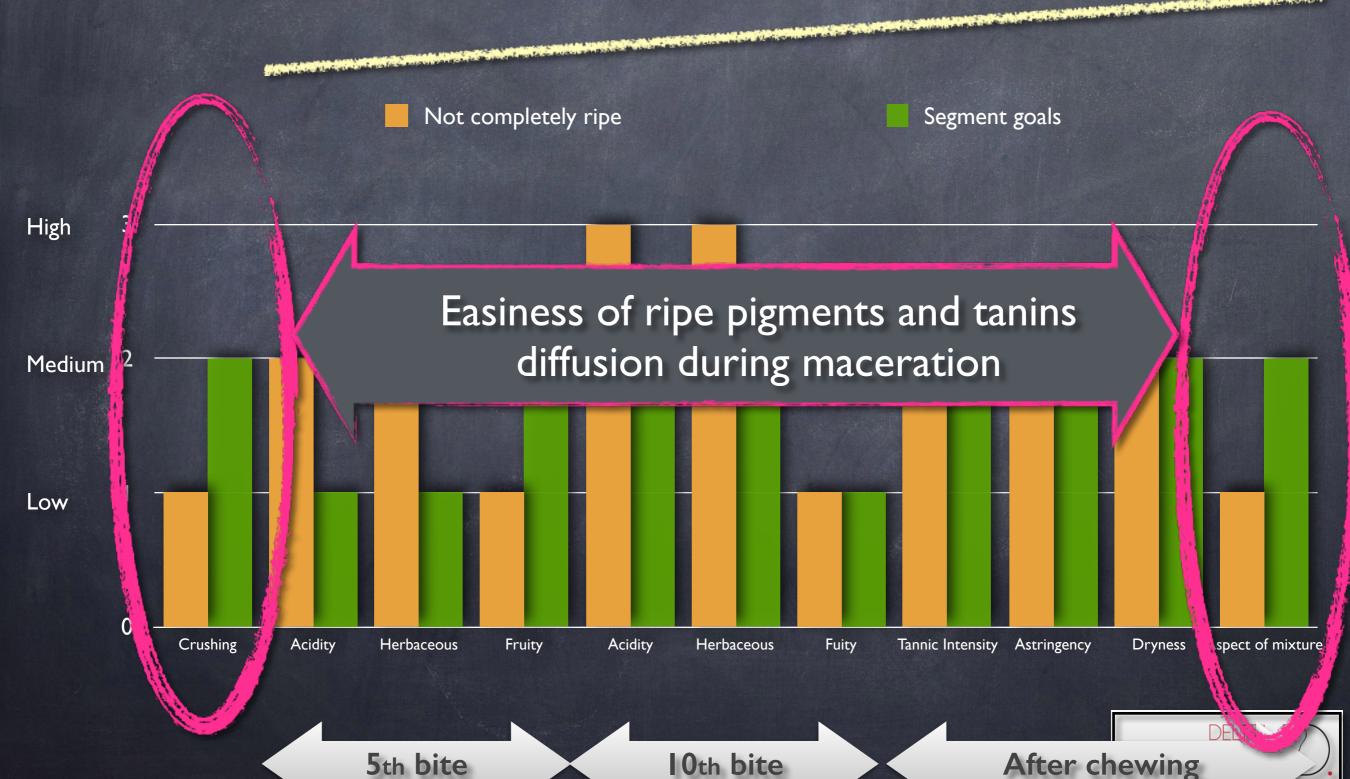


10th bite

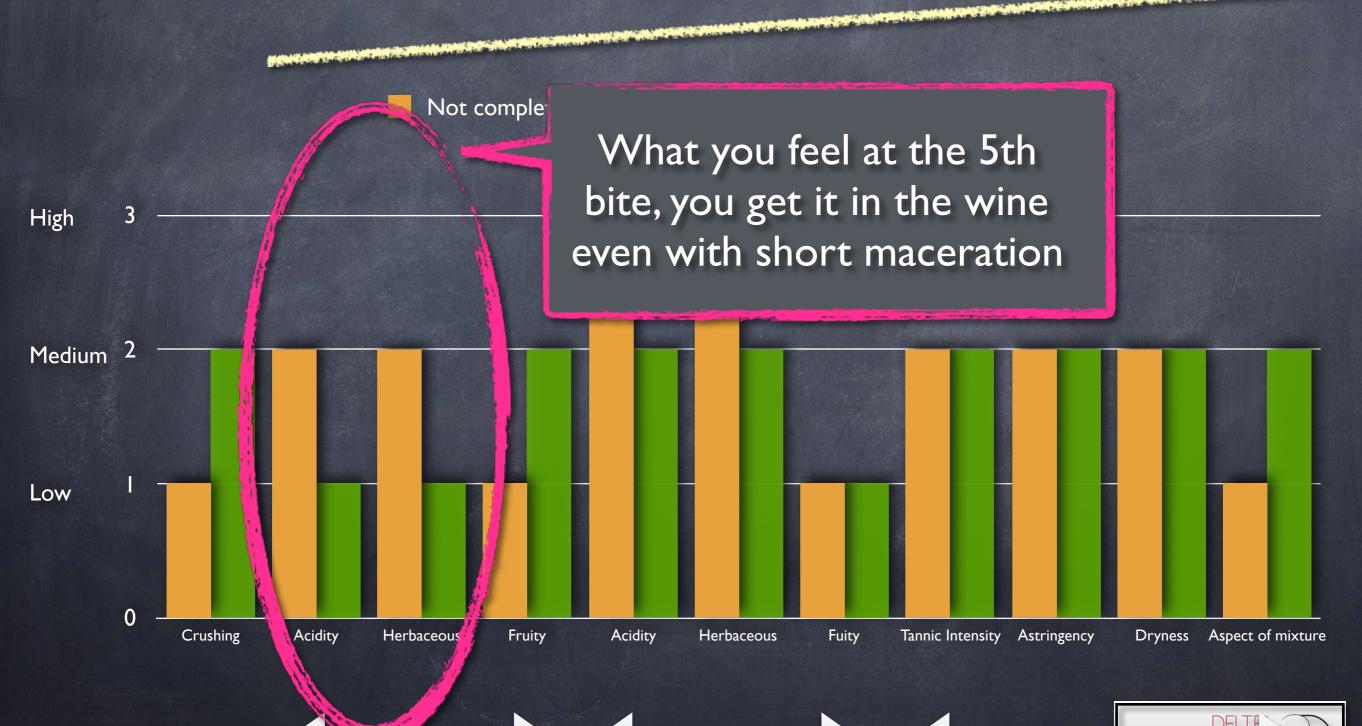
5th bite

After chewing







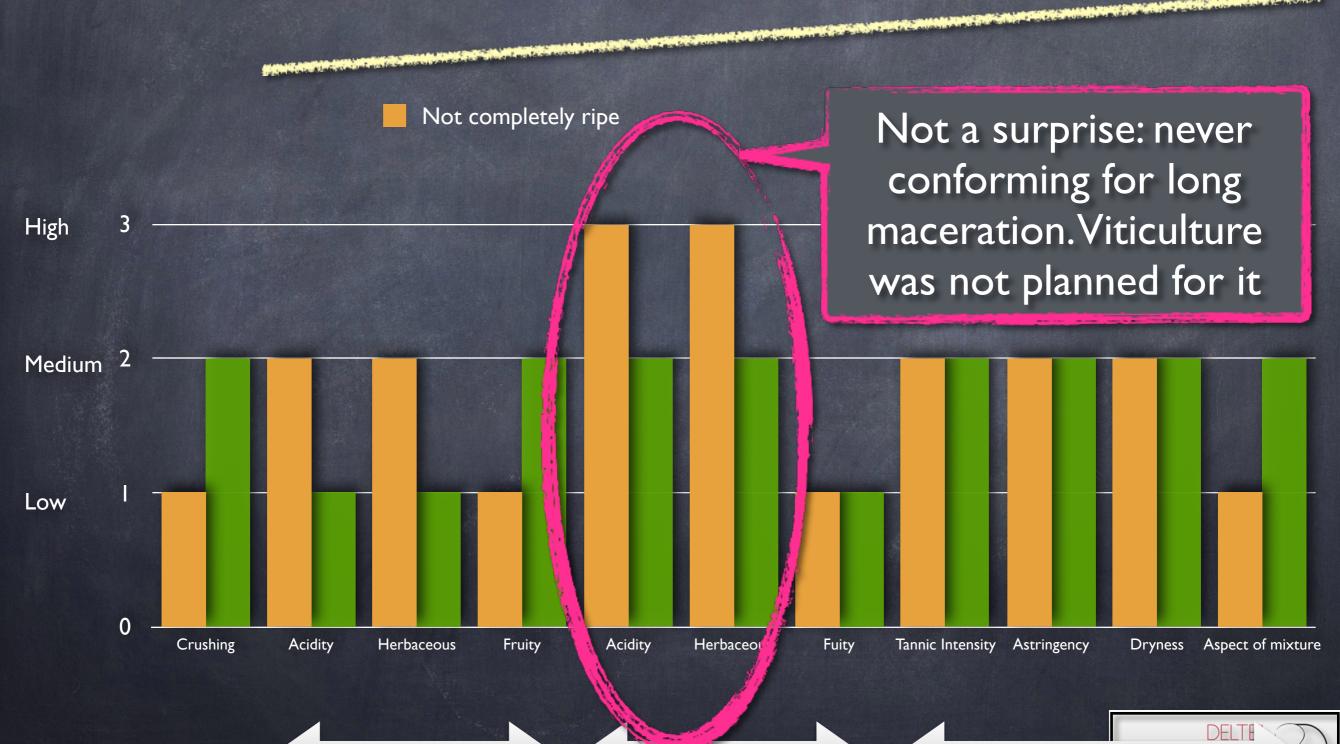


10th bite

After chewing

5th bite





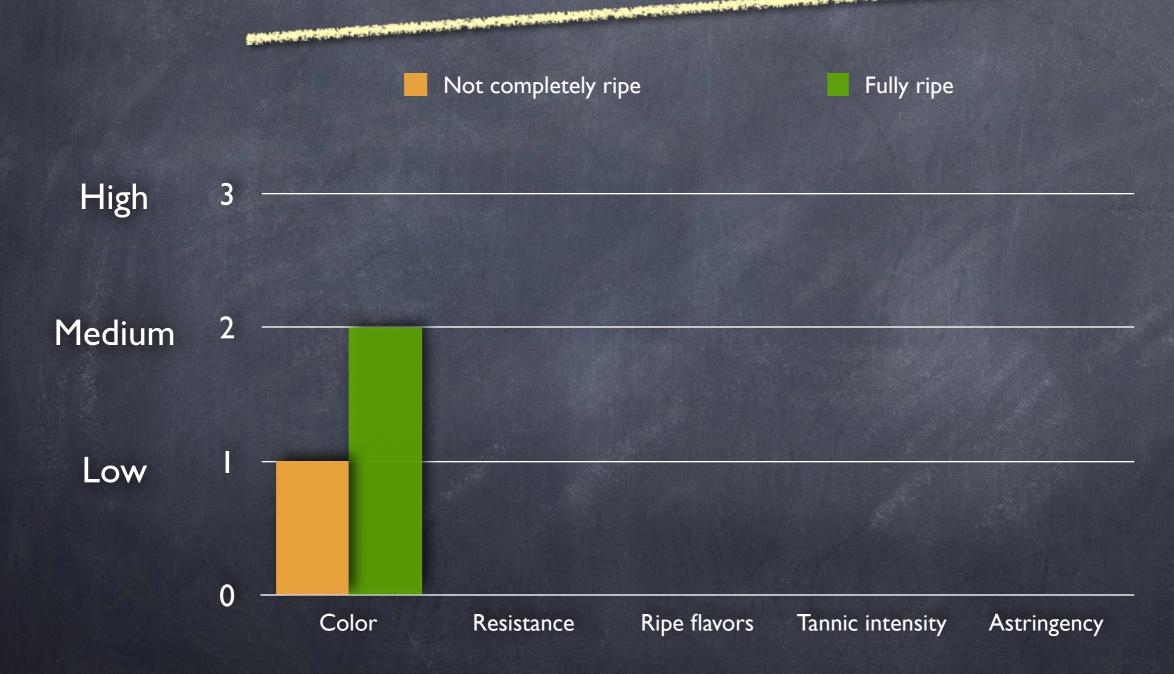
10th bite

5th bite

After chewing



Tasking the seeds







Tasking the seeds







Obvious conclusion:

If possible, don't pick at the first date: the grapes are not conforming for the 7 Euro segment







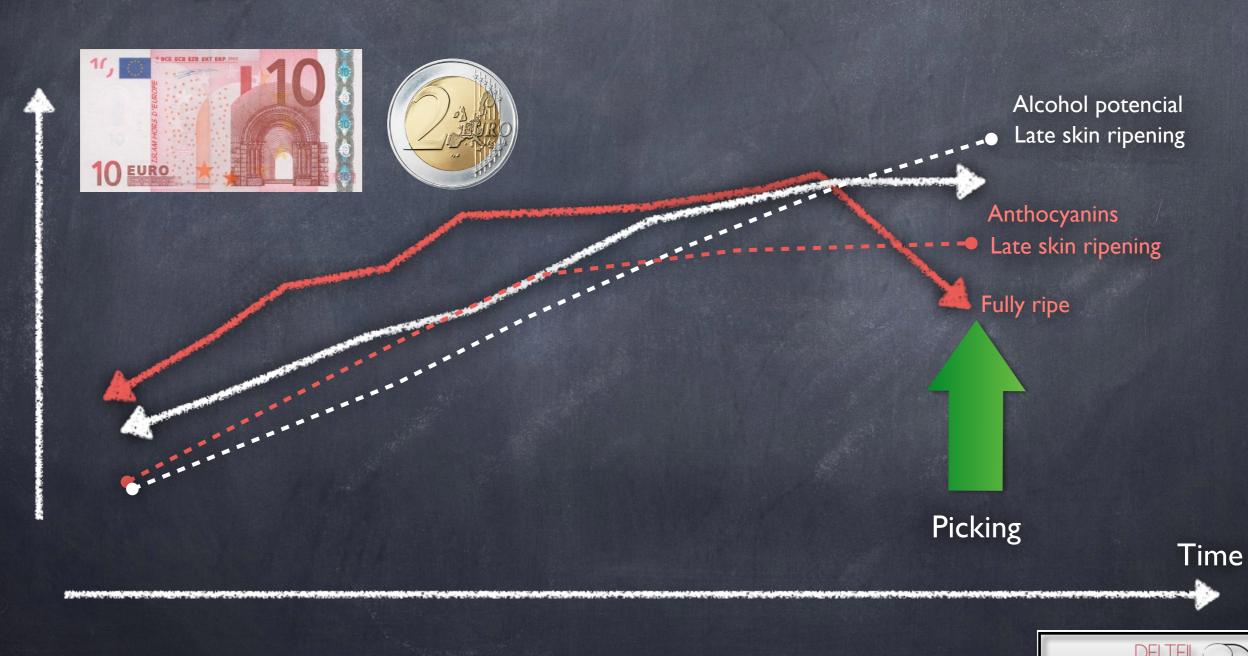


Difference in skin ripening Red grapes arriving at the winery

The D.Q.S.A is a precise tool to differentiate different lots arriving at the winery at the same moment with roughly the same sugar and phenolic analytical maturity



Sugar curves



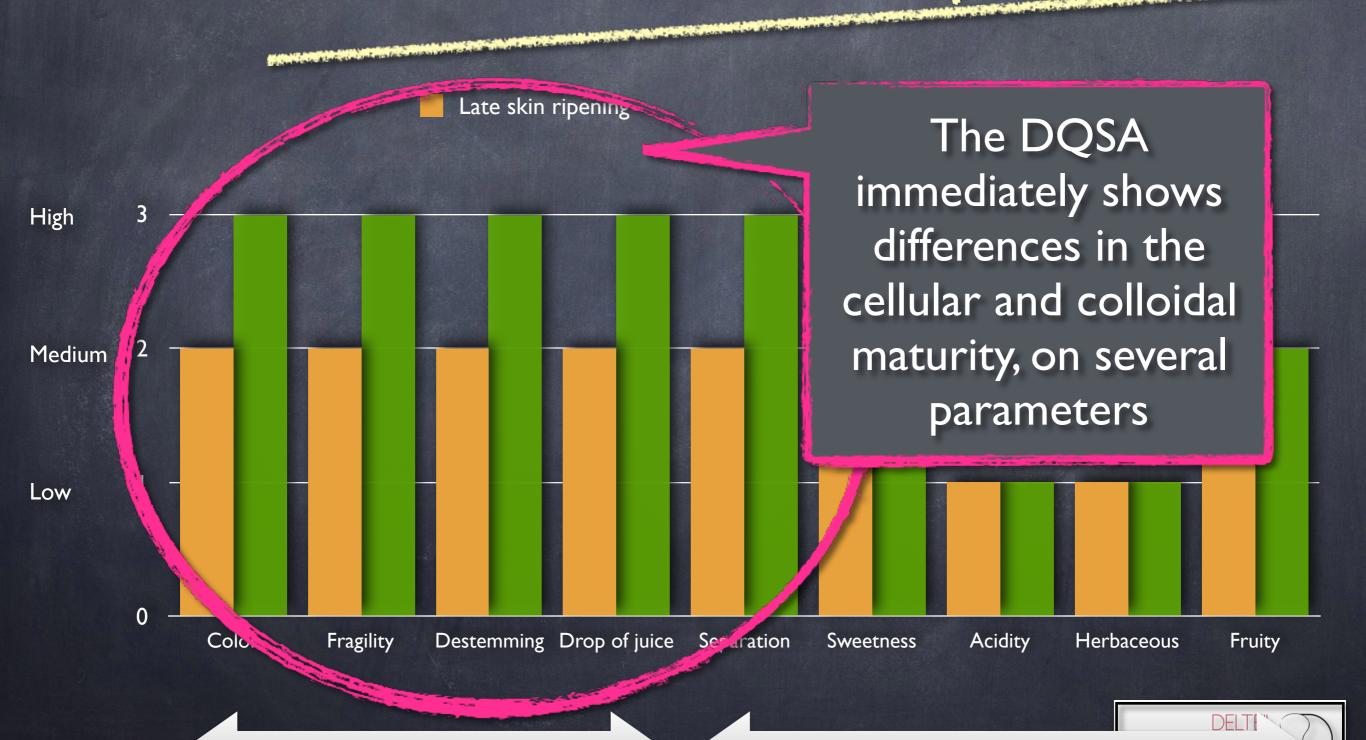






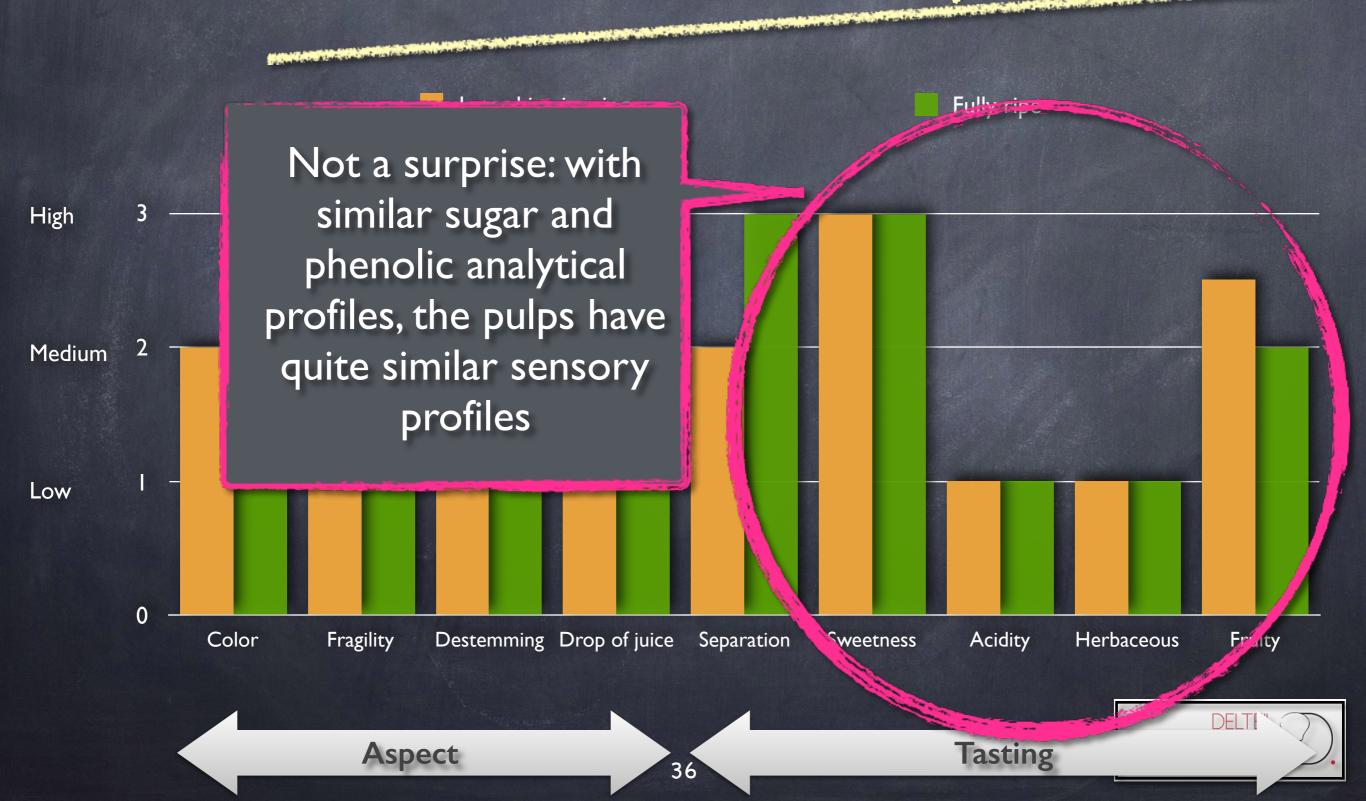


Tasting



Aspect







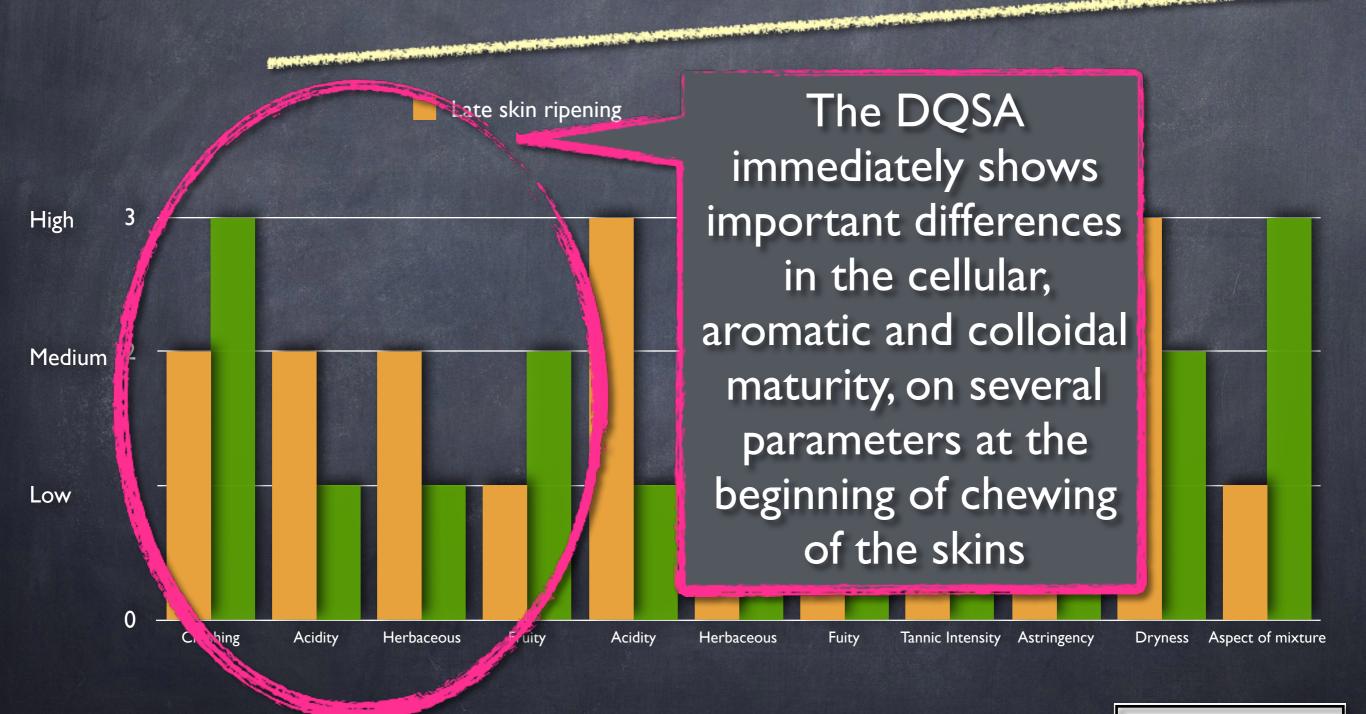


10th bite

5th bite

After chewing



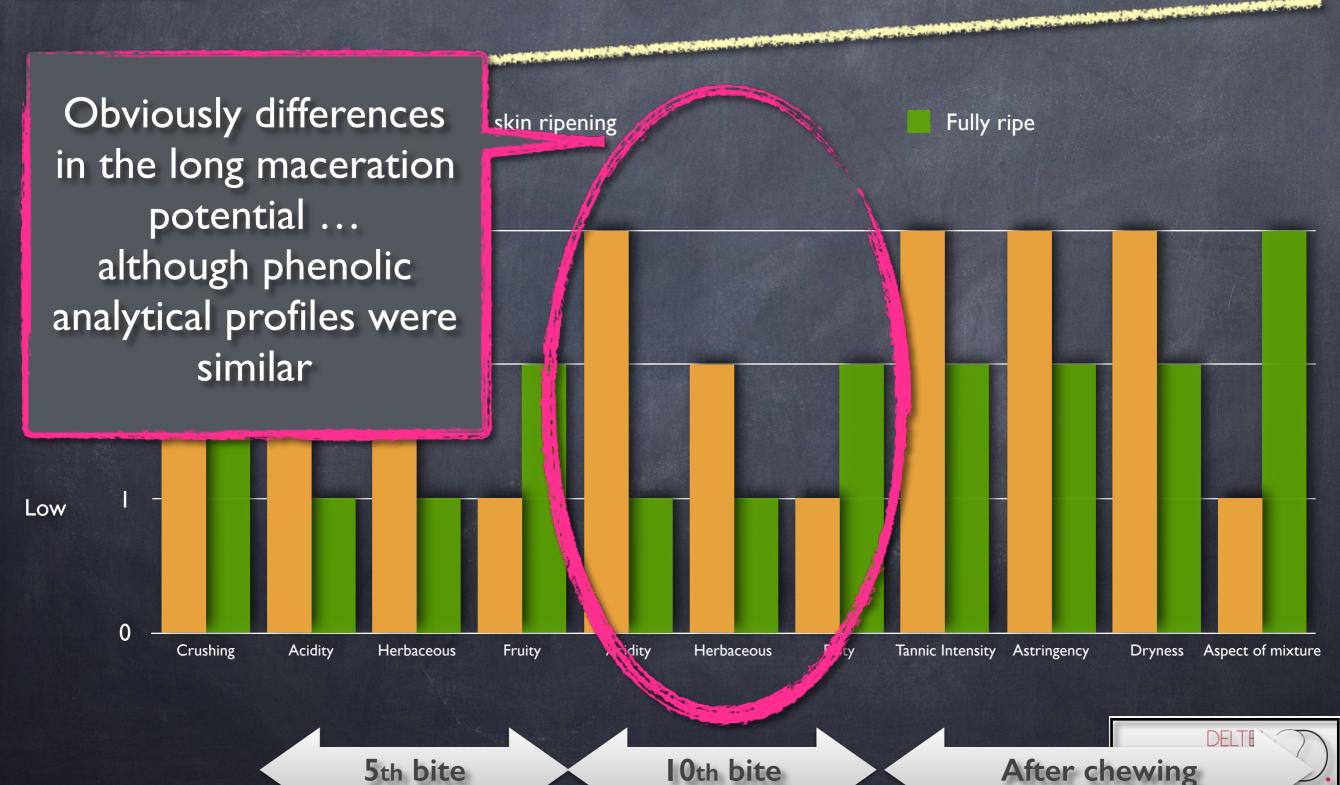


10th bite

After chewing

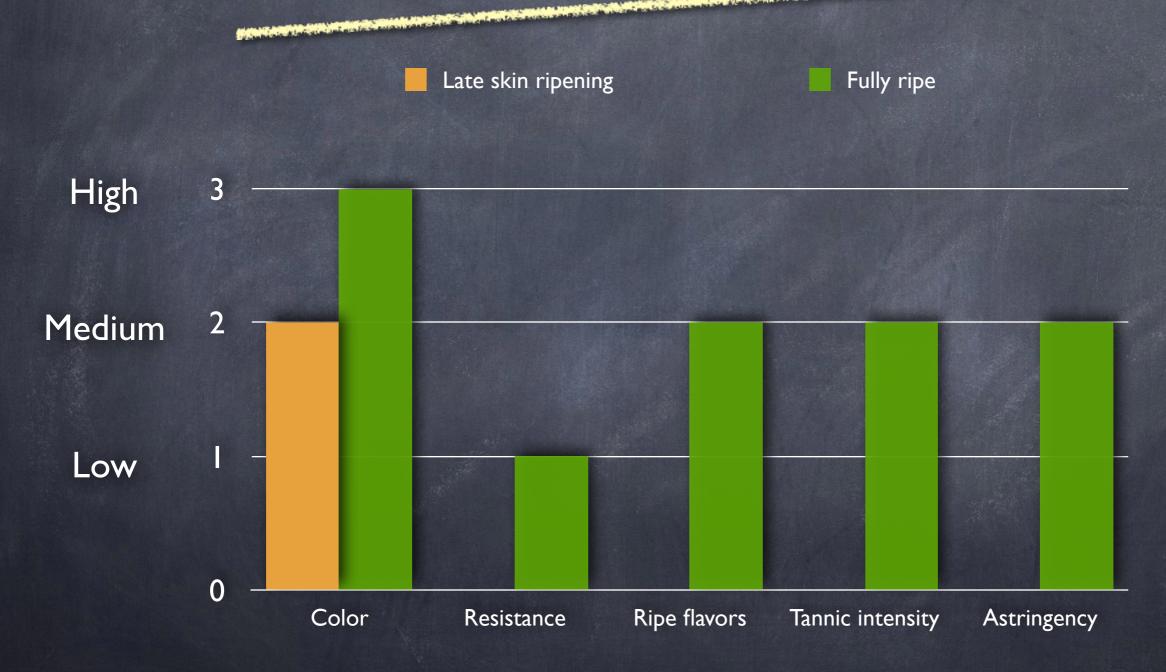
5th bite







Tasking the seeds







Obvious conclusion:

Vinify the 2 lots in 2 separate tanks with 2 different procedures

as Dominique Delteil will present you soon!





Thank you for your afternation





