Data 620

Wine Reviews



Group 3 • Fireflies



What we are going to cover?

- Sentiment Analysis for Wine Reviews
- Wine Vocab 101
- Pick-your-wine map Wine Recommendation in Diner
- Top Wine Social Media Influencers
- Find the Best Value Wines

Overview

Source

- Wine Reviews from Wine Enthusiast as of Nov 22, 2017
- Available on Kaggle (keywords: "Wine Reviews")

Data overview

- 37,419 reviews
- 446 wine varieties
- 16 Tasters

1. Sentiment for Reviews

Analyze tasters' reviews by NLTK's VADER Sentimental Analyzer

VADER gives the Positive, Negative and Neutral scores to represent the proportion of text that falls in these categories. All these should add up to **ONE**

variety

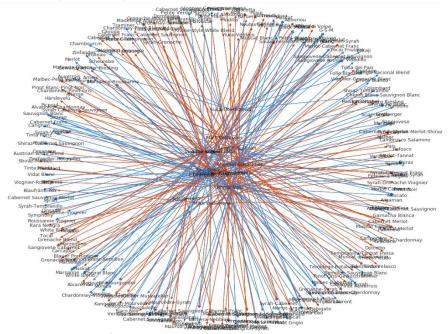
taster_name VADER_pos

Question:

Whose review are top 3 for each wine by sentiment score?

Altesse	19798	Roger Voss	0.333
Alvarelhão	13898	Virginie Boone	0.045
Alvarinho	1052	Roger Voss	0.343
	4234	Roger Voss	0.330
Weissburgunder	29933	Anne Krebiehl MW	0.370
	18984	Anne Krebiehl MW	0.292
	15745	Anne Krebiehl MW	0.277
Welschriesling	4949	Roger Voss	0.336
	27362	Anne Krebiehl MW	0.326
	15231	Roger Voss	0.286
White Blend	28248	Paul Gregutt	0.463
	21834	Roger Voss	0.408
	12213	Jim Gordon	0.385

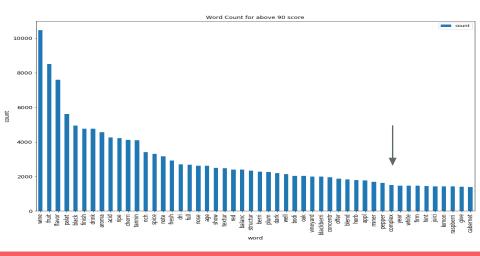
Sentiment for Tasters' Reviews (cont.)



- Taster to Wine
- Blue (above Avg), Red (above Avg)

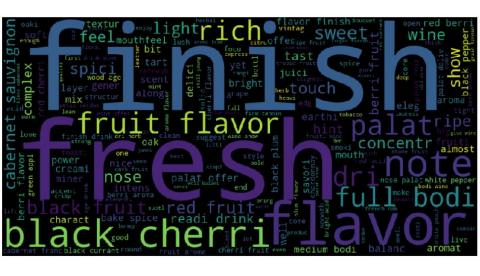
2. Sentiment Analyze: Wine Word List

- Build up sentimental keyword list for wine reviews based on score (below or above 90 points) from tasters (e.g.
 "Complex" is negative in English but Positive in Wine Vocab)
- Example #1: Analyze social media message: is it for wine?
- Example #2: Advertisement keywords for wines



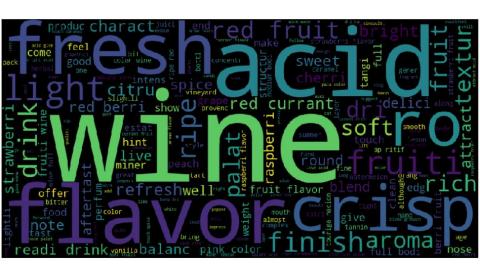
3. Wine Vocab 101

The Most Commonly used words for wine



3. Wine Vocab 101 (Cont.)

Rosé-word cloud

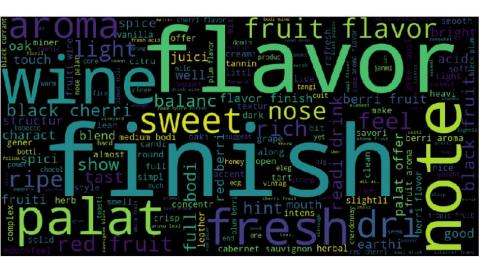


Portuguese Red -word cloud

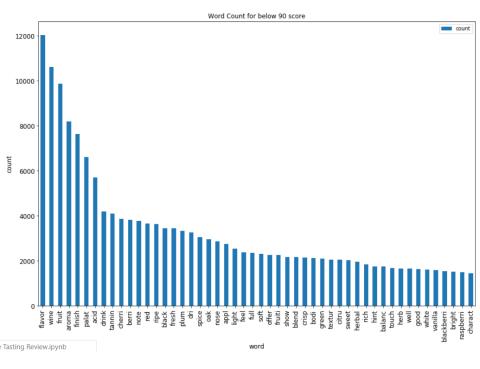


<90 Word cloud

Finish, flavor, Note, Sweet, Palat, Fresh

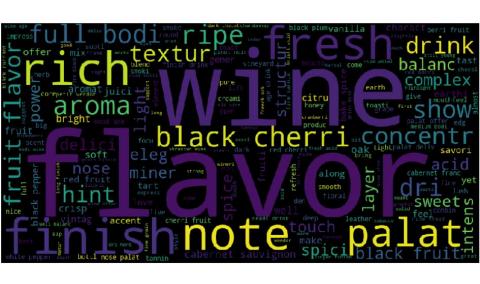


Top 50 words for <90 scord wine

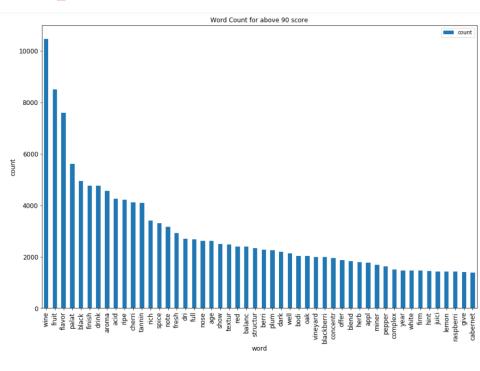


>90 word cloud

Full bodi, rich, textur,



Top 50 words for >90 scord wine



4. *Pick*-your-wine map Wine Recommendation in Diner

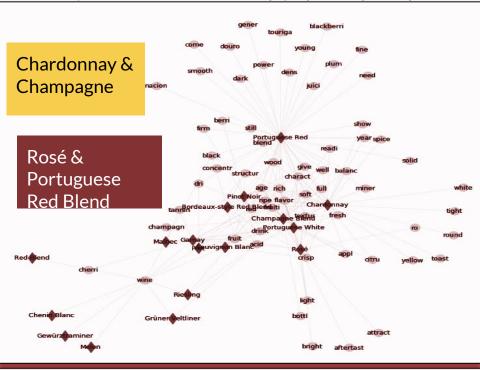
Regular Wine menu (right) with wine name and description

Pick wine by description

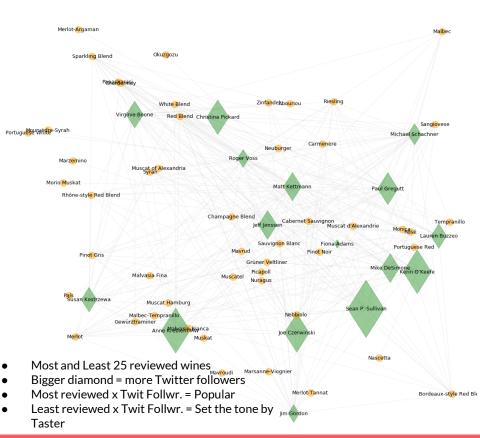


4. *Pick*-your-wine map Wine Recommendation in Diner (Cont)

Reviewer-'Roger Voss': common words on each variety - pick your wine by similarity



5. Top Wine Social Media Influencers



6. Best Value Wine

Best Value = Sentiments Per Price * 100



Variety	Value	Price
Macabeo-Moscatel	8.870000	\$8.0
White Riesling	7.923516	\$16.5
Grenache Noir	7.781111	\$9.0
Treixadura	6.442667	\$15.0
Symphony	6.350000	\$12.0

Any Questions?

- Sentiment Analysis for Wine reviews
- Wine Vocab 101
- Pick-your-wine map Wine Recommendation in Diner
- Top Wine Test influencers
- Find the Best Value Wine

End