
Wine Reviews

Group 17

Dataset Overview

Dataset: 130k wine reviews, collected from a Wine Enthusiast in 2017

country	description	designation	points	price	province	region_1	region_2	taster_name	taster_twitter_handle	title	variety	winery
Italy	Aromas include tropical fruit, broom, brimston...	Vulkà Bianco	87	35.626276	Sicily & Sardinia	Etna	Unknown	Kerin O'Keefe	@kerinokeefe	Nicosia 2013 Vulkà Bianco (Etna)	White Blend	Nicosia

Wine Scoring Table:

score	50-74	75-79 Mediocre	80-84 Good	85-89 Very good	90-94 Outstanding	95-100 Classic
comment	Not recommended	a drinkable wine that may have minor flaws	a solid, well-made wine	a wine with special qualities	a wine of superior character and style	a great wine

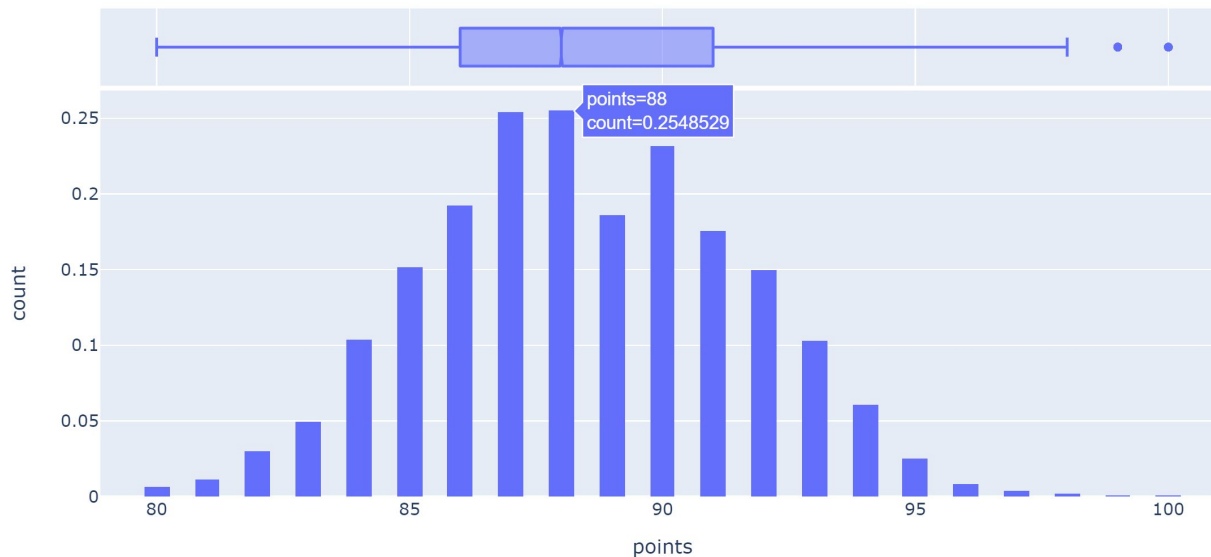
Also collected our own data

Wine Review

- We set out to answer a number of questions using our dataset:
 - Which countries and grapes produce highly rated yet affordable wines?
 - Which countries and grapes produce highly rated and expensive wines?
 - What's the score and points distribution for wines that contain supposedly 'high rating producing grapes'?
 - Does the score only depend on the grapes used? To what extent?
 - Does the price depend on the grapes used?
 - Is there any correlation between points and the price of these wines?
 - What's the points distribution for reviewers

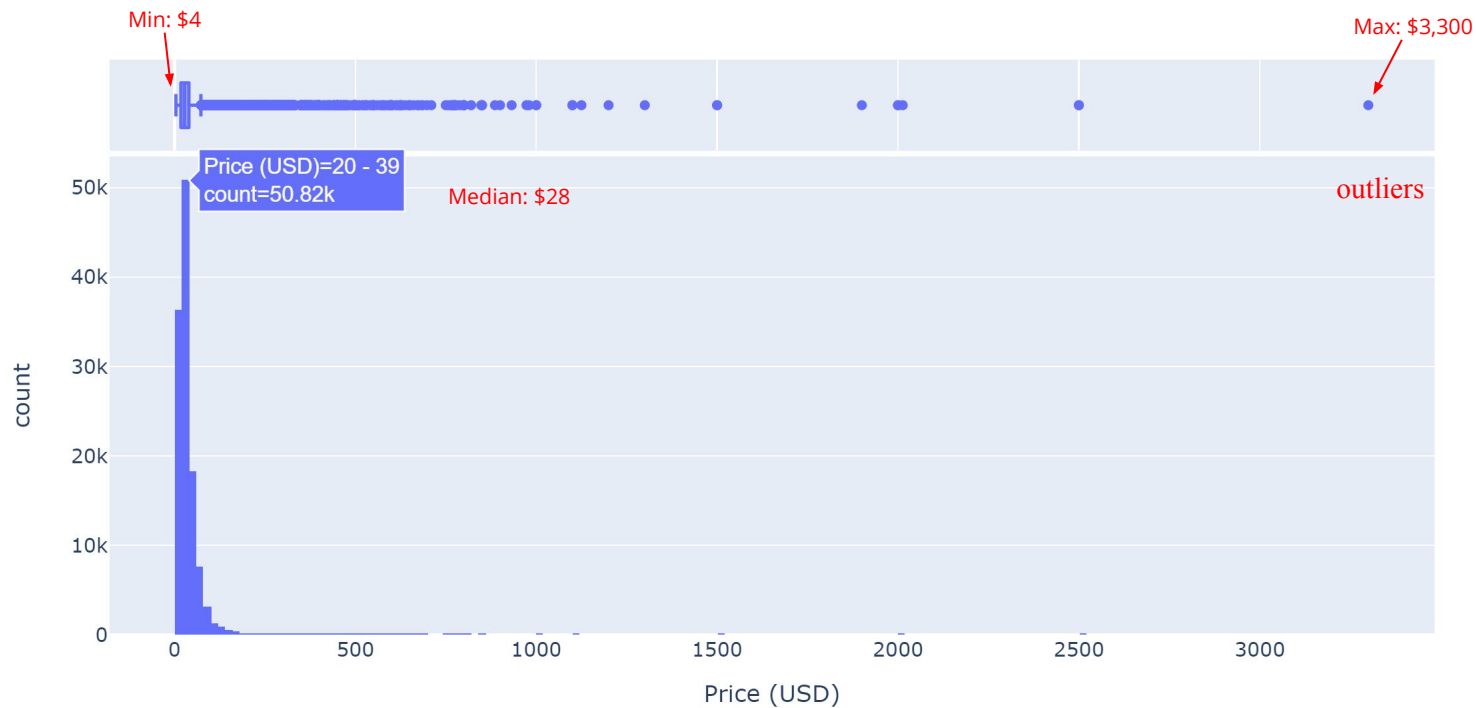
Score Distribution

Normalized Score Distribution



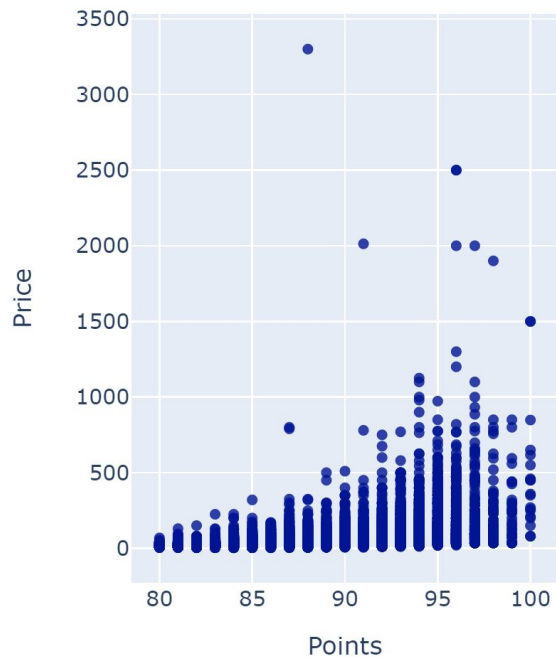
- normal distribution ~ mean 87
 - More than 50% of in the range of 87 - 88 points
 - Outliners
- Most wines received good to excellent reviews

Price Distribution

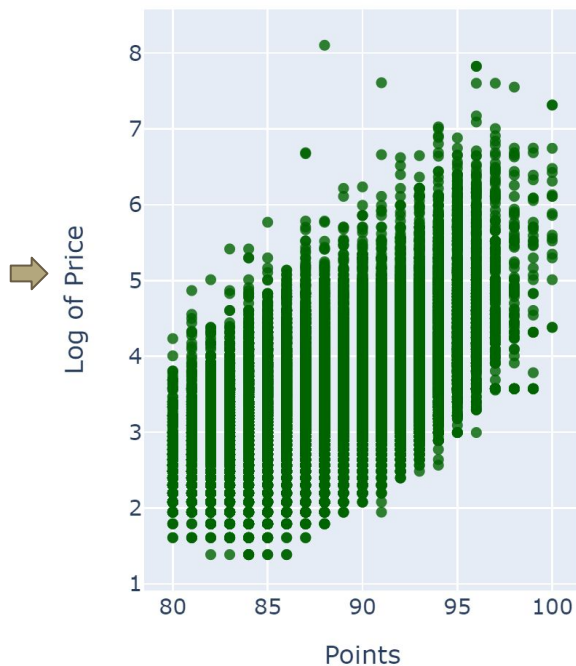


Correlation between Price & Score?

Points vs Price



Points vs Log of Price

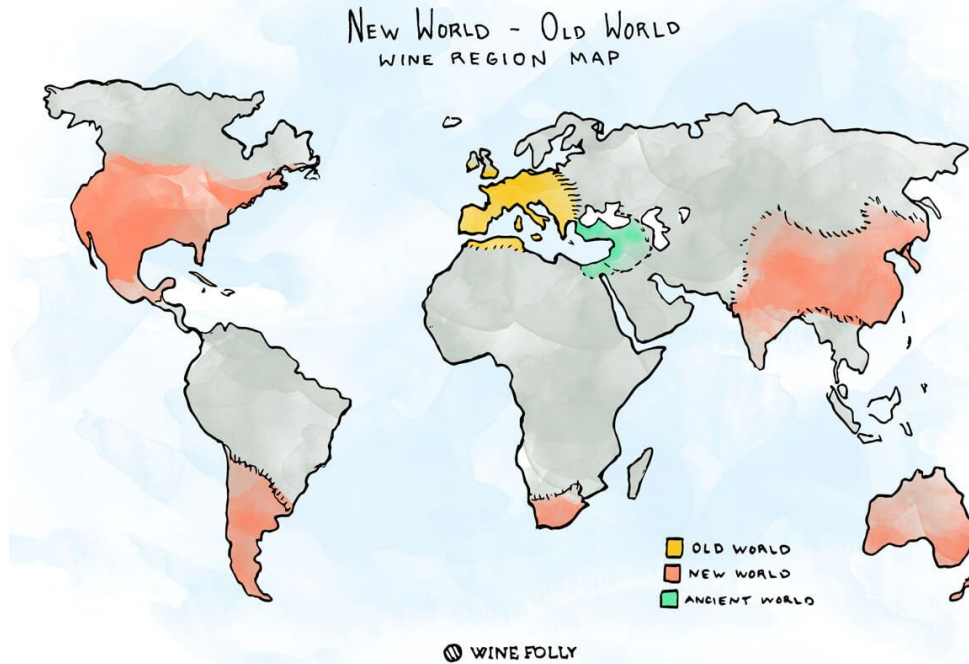


Spearman's Rank Correlation Results:

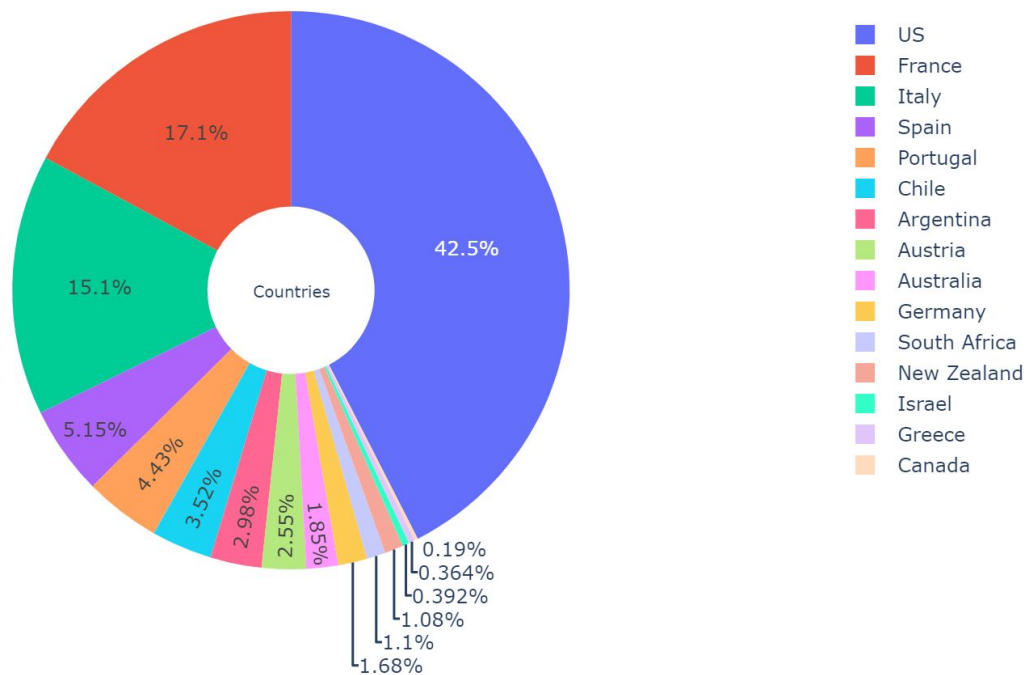
- Correlation: 0.588118
- P-value: 0.0

Linearly correlated

Country-wise Study

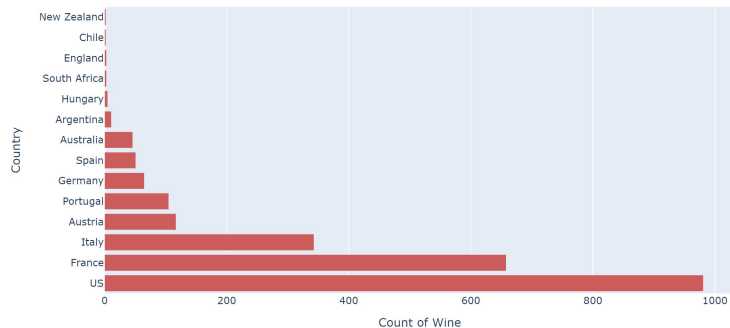


Country-wise Wine Count

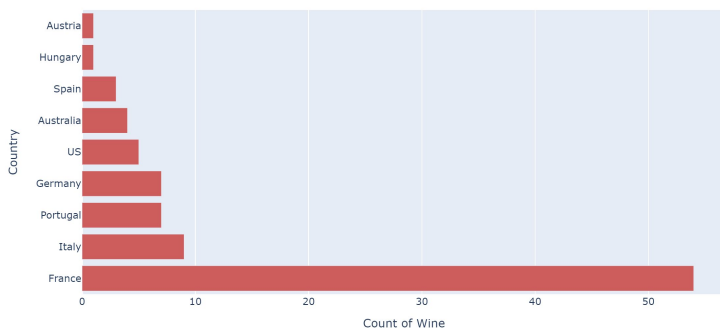


Country-wise Analysis

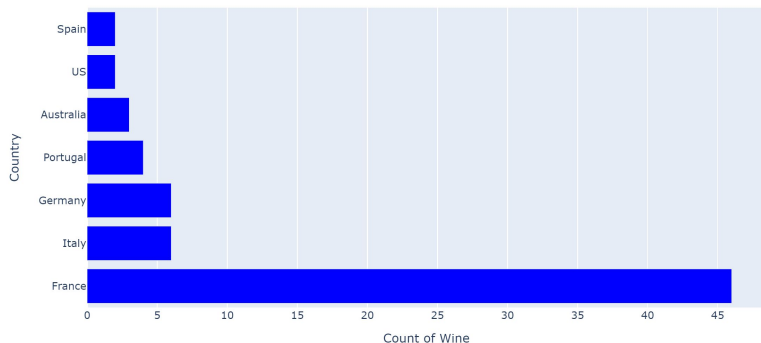
Countries with the Highest Rated Wines (95-100)



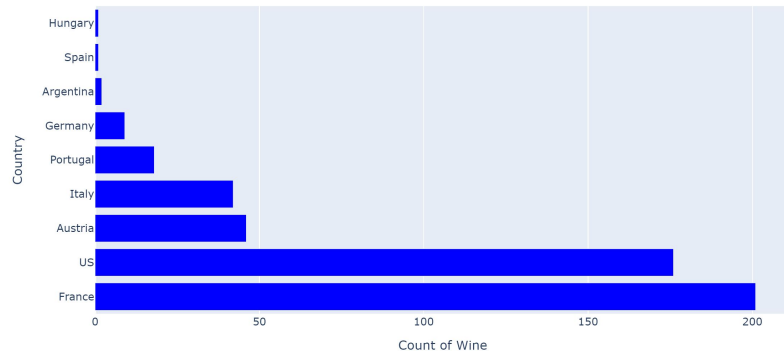
Countries with the Highest Priced Wines (> 500 USD)



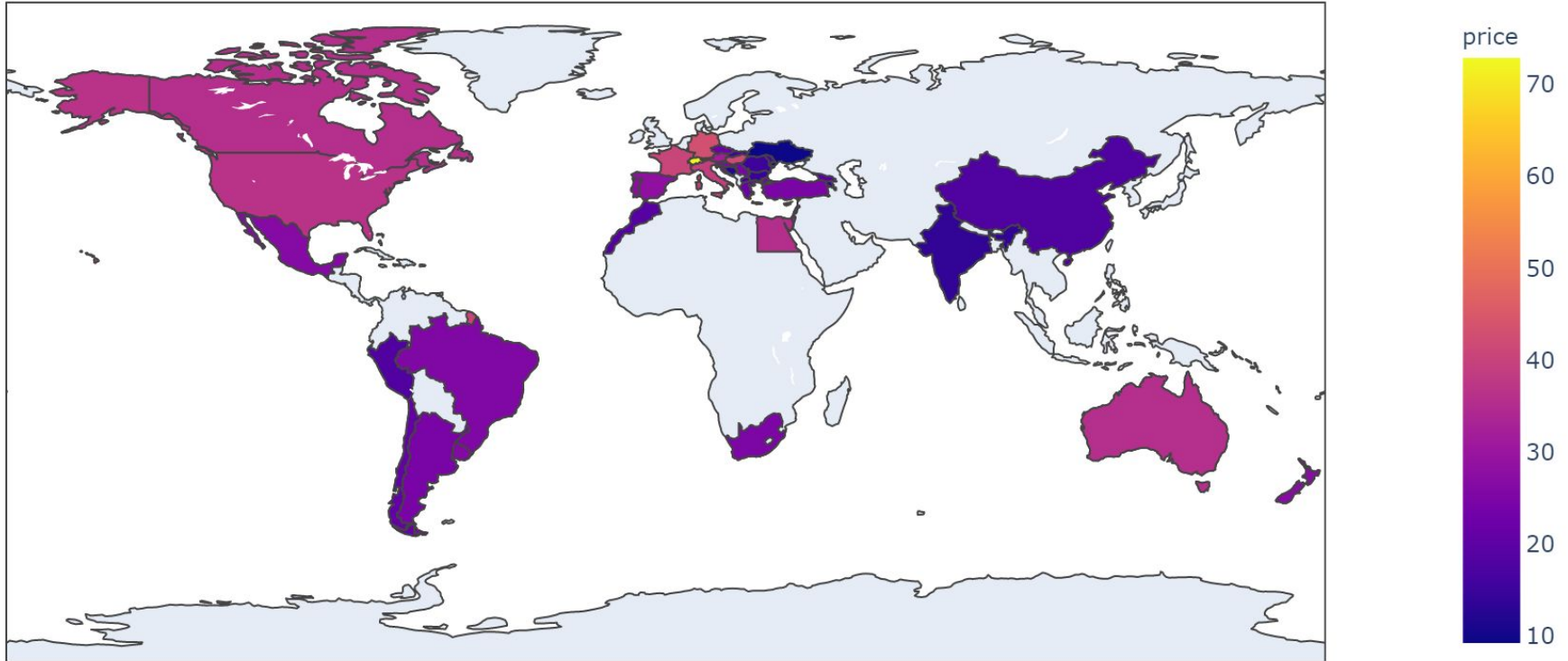
Countries with Expensive and Highly Rated Wines



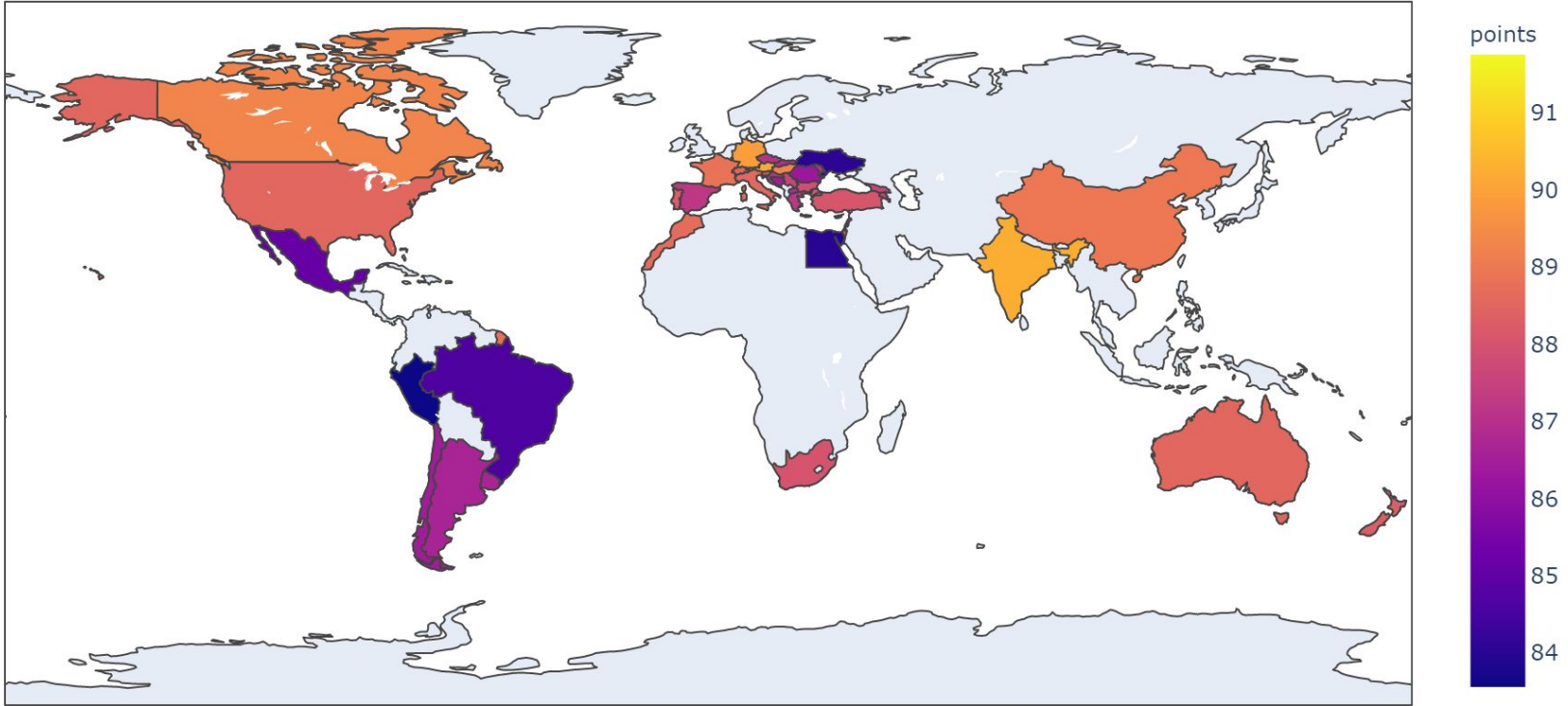
Countries with Affordable (< \$50) and Highly Rated Wines



Country-wise Analysis - Mean Prices

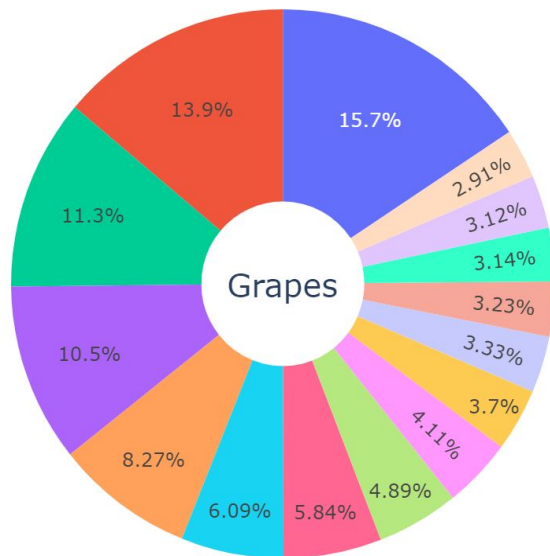


Country-wise Analysis - Mean Score



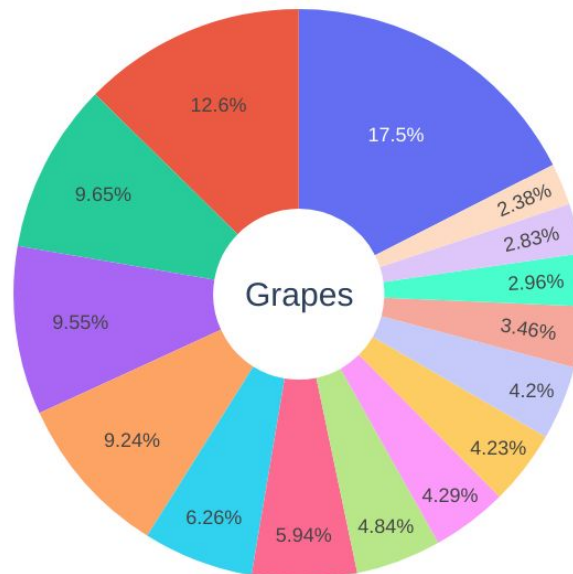
Grape Variety Analysis

Variety of Grapes in Dataset - Top 15



2017

- Pinot Noir
- Chardonnay
- Cabernet Sauvignon
- Red Blend
- Bordeaux-style Red Blend
- Riesling
- Sauvignon Blanc
- Syrah
- Rosé
- Merlot
- Nebbiolo
- Zinfandel
- Sangiovese
- Malbec
- Portuguese Red

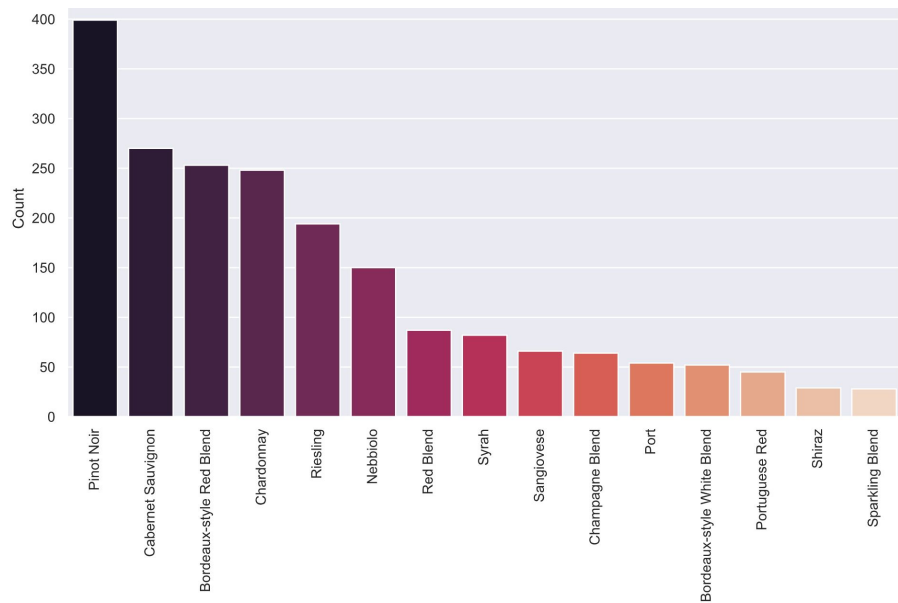


2019

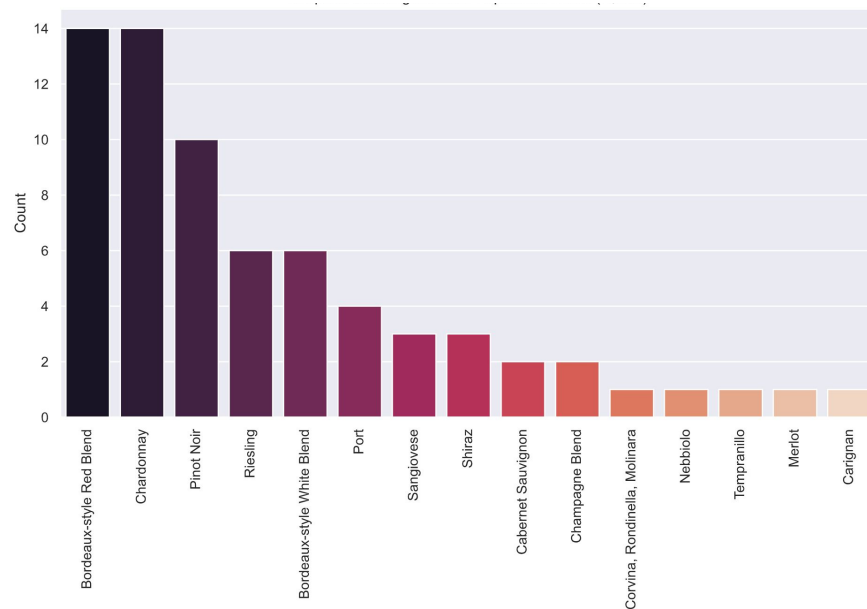
- Pinot Noir
- Chardonnay
- Cabernet Sauvignon
- Bordeaux-style Red Blend
- Red Blends
- Rosé
- Riesling
- Sauvignon Blanc
- Nebbiolo
- Syrah
- Rhône-style Red Blend
- Sparkling Blend
- Gamay
- Sangiovese
- Portuguese Red

Grape Variety Analysis

Grapes Producing Highly Rated Wines (95-100)

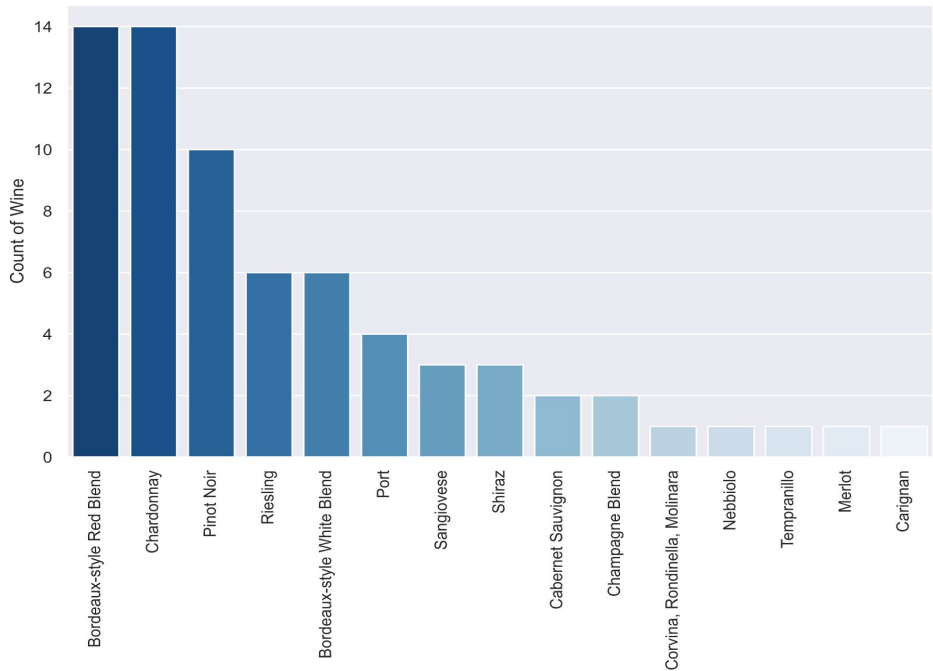


Grapes Producing Expensive Wines (>\$500)

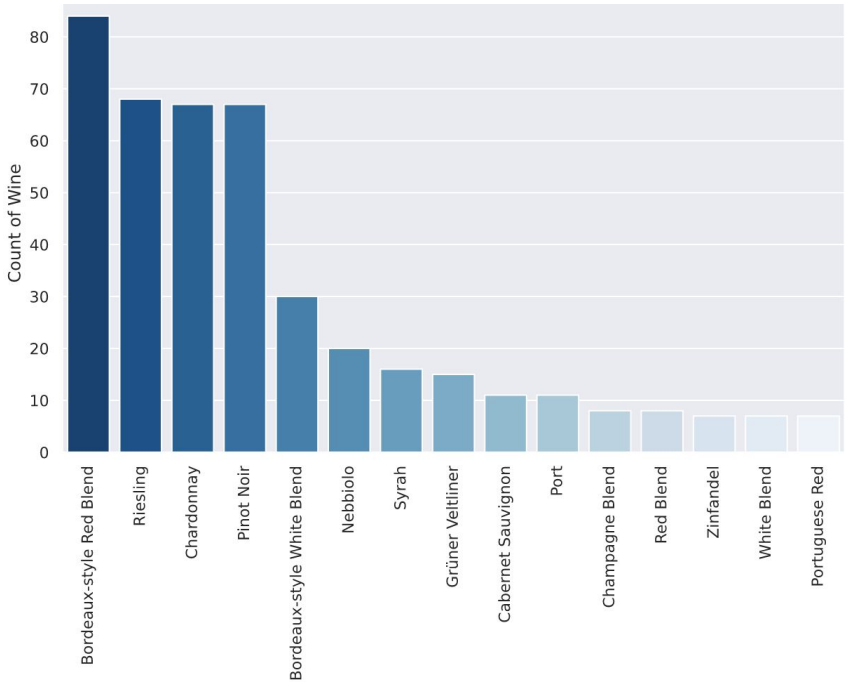


Grape Variety Analysis

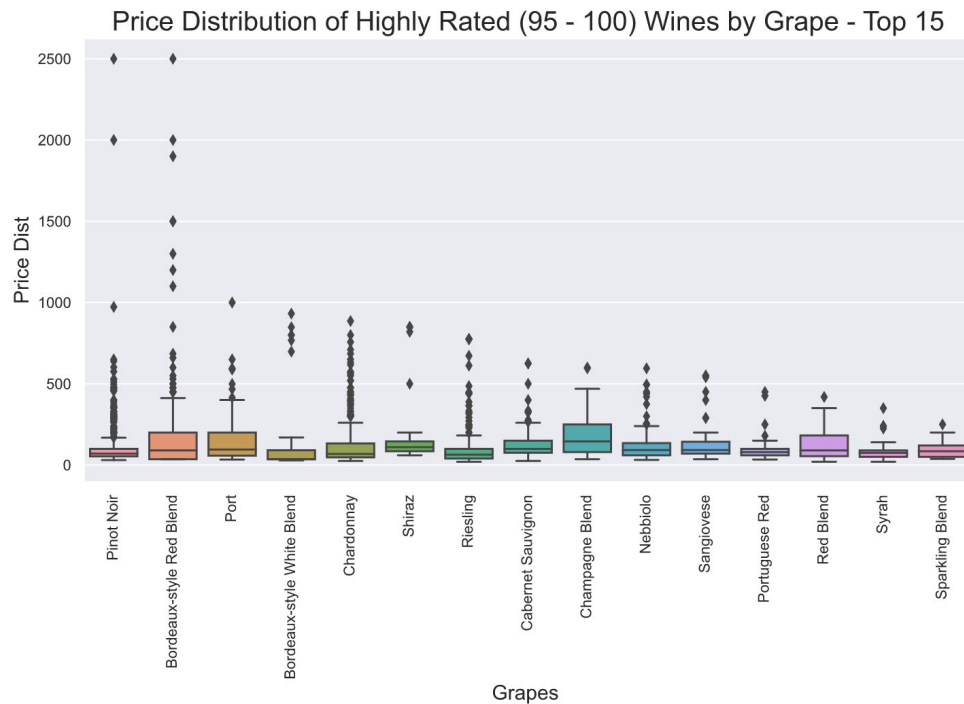
Grapes Producing Highly Rated and Expensive Wines



Grapes Producing Highly Rated and Affordable Wine

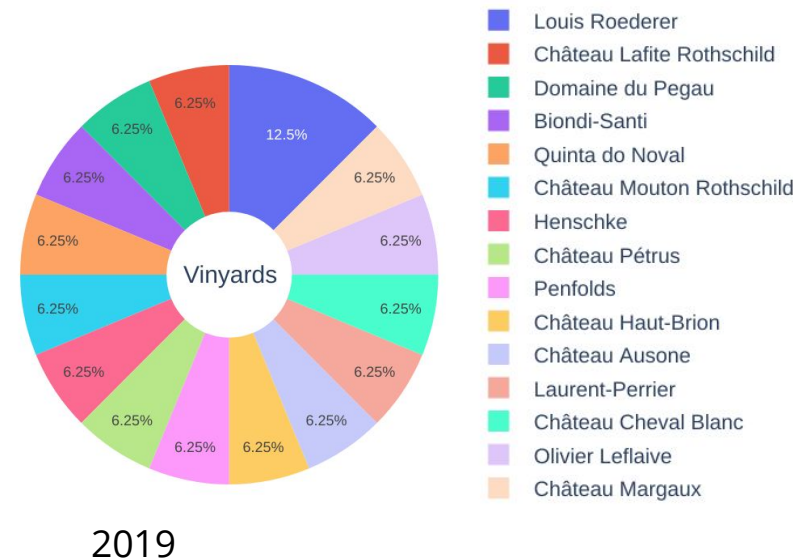
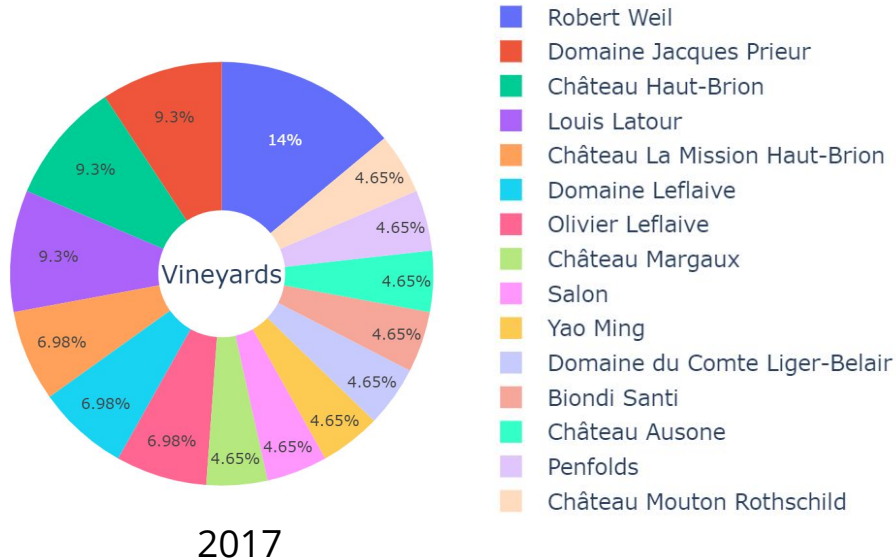


Grape Variety Analysis



Vineyard Analysis

Vineyards that Produce the Highest Rated (95-100) and Most Expensive Wines(>\$500) - Top 15



Wine Taster

