

# WINE Reviews

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## INTRODUCTION

Data resource: The data is retrieved from [www.kaggle.com/zynicide/wine-reviews](http://www.kaggle.com/zynicide/wine-reviews) which contains 10 columns and 130 million rows of wine reviews. The key attributes include country, description, designation(vineyard), points, price, province, and variety of grapes.

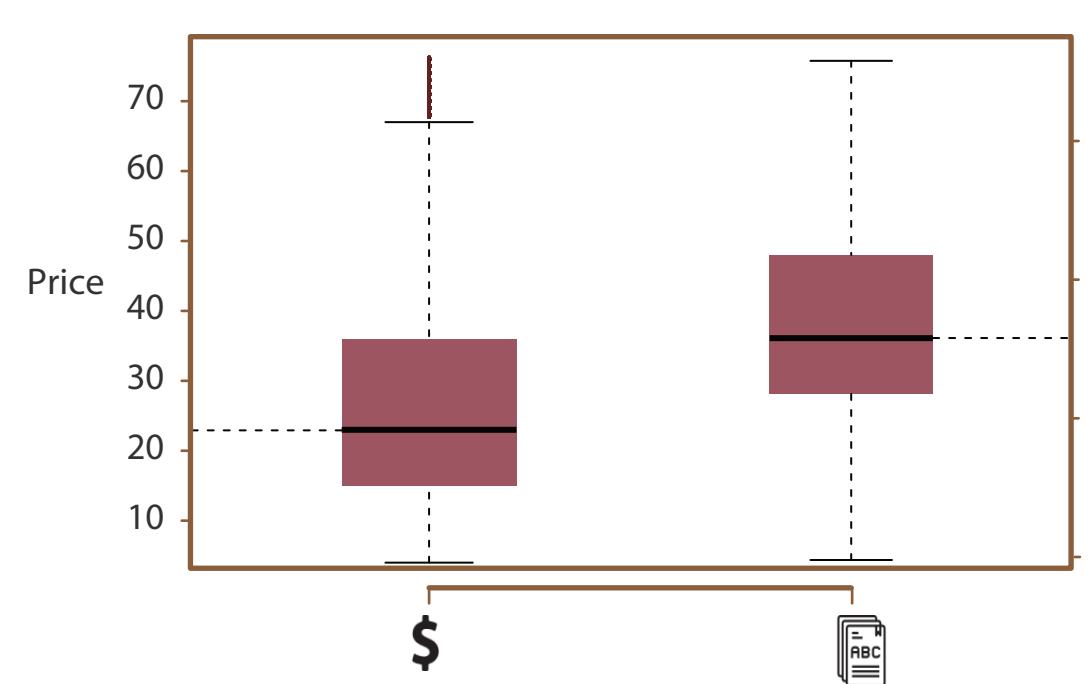
Inspiration and audiences: Wine is one of the most historical, important, and highly demanded commodity in market. With the development of information and agricultural technologies, the wine industry is experiencing a booming area. The poster could provide a guide to find out the costly wine with high quality. There are no doubts that the traditional wine wholesaler and the retailer would need the analysis report for exploring the wine prices, customer reviews and wine quality.

R packages: ggplot2, dplyr, viridis, tm, SnowballC, wordcloud

## DATA DISTRIBUTION

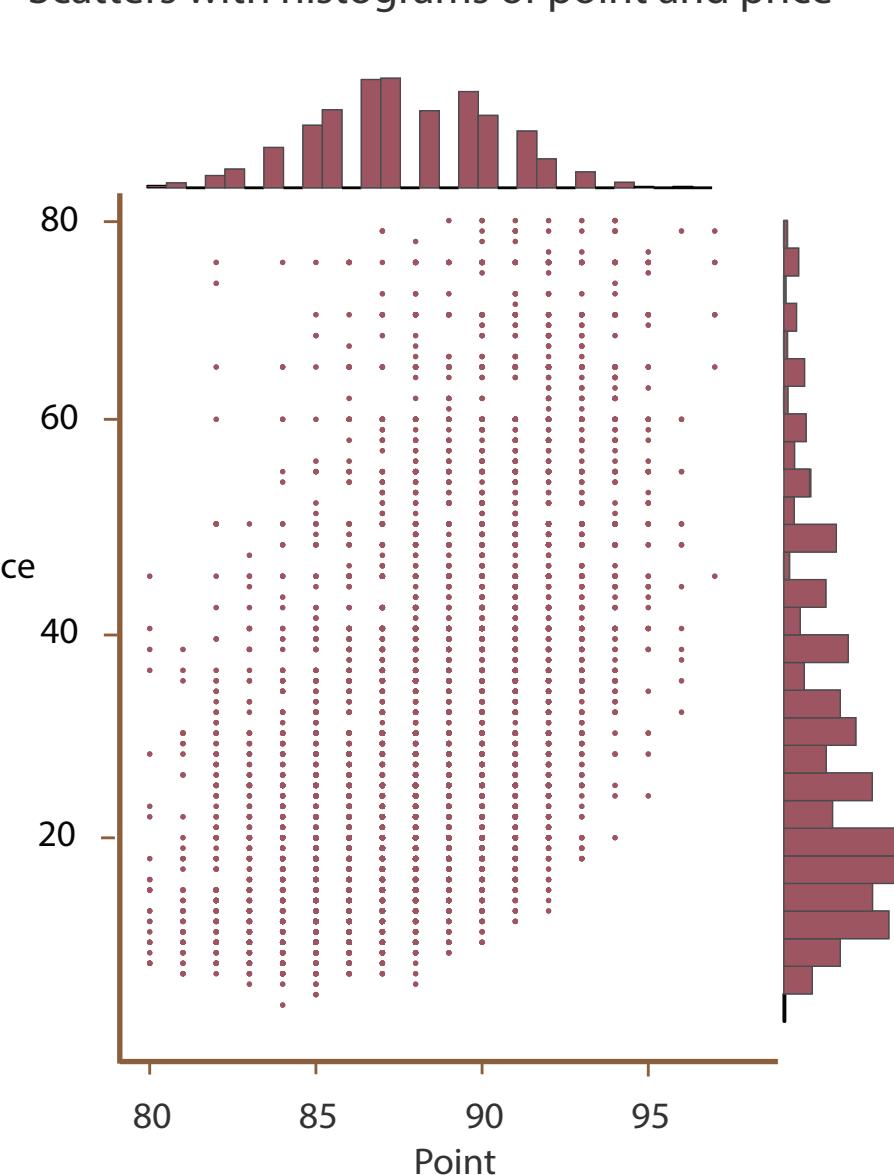
### Wine price and point boxplots

These two boxplots demonstrate the distribution of wine price and points



The top plot and the right plot both identify the distributions of price and points. Wine price is a little right skewed data, and most wine are priced around \$18 - \$25. The point of wine is approximately normal distributed and most wines are given a point between 87 to 93. Even though, there seem to have a positive relationship between wine point and wine price, the correlation is not as strong as commonly assumed.

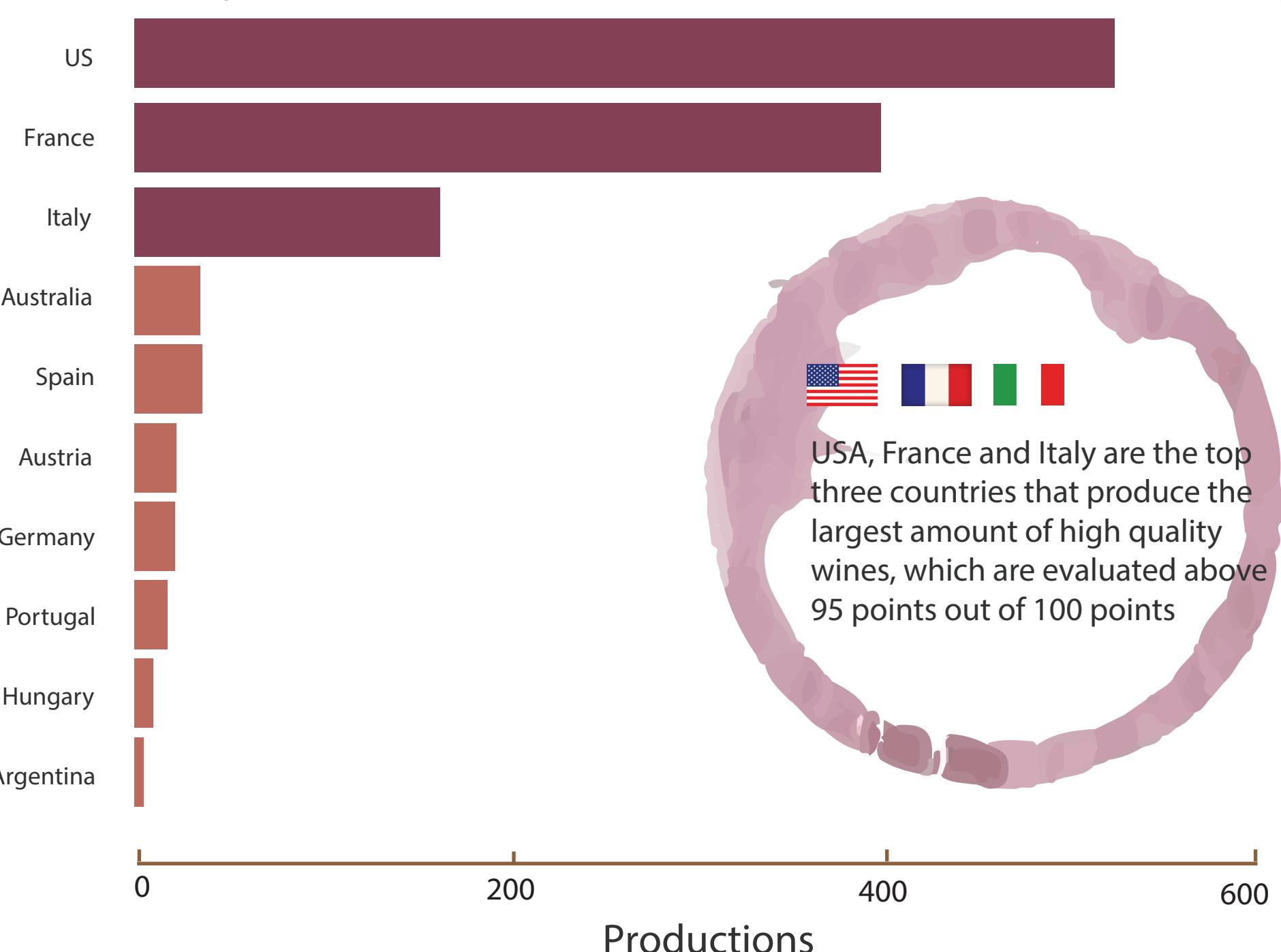
### Scatters with histograms of point and price



## HOW TO FIND THE BEST AND COSTLY WINES?

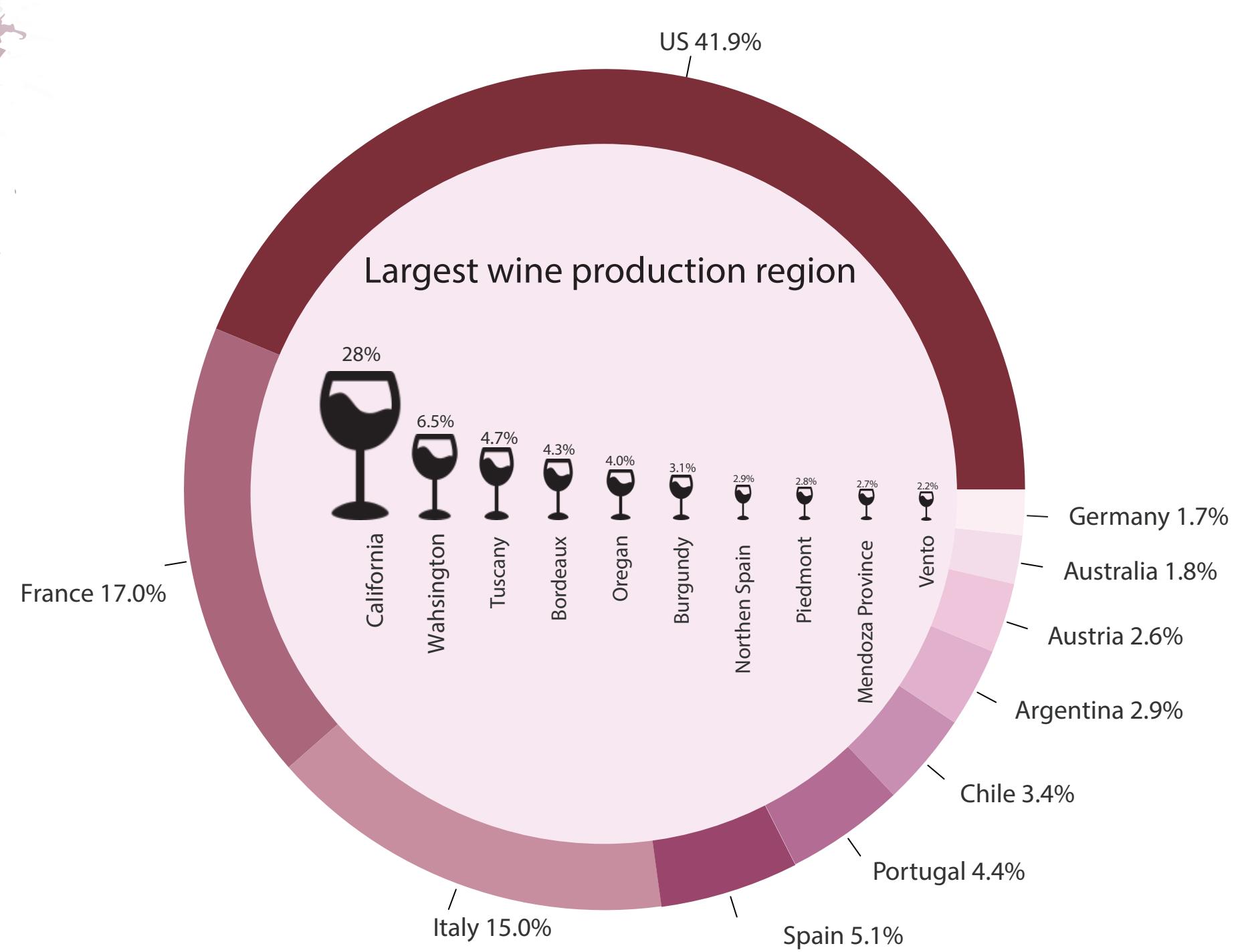
### Best Wine Producing Country – Point wise

This chart displays which countries produce the largest amount of high-points(>= 93) wines



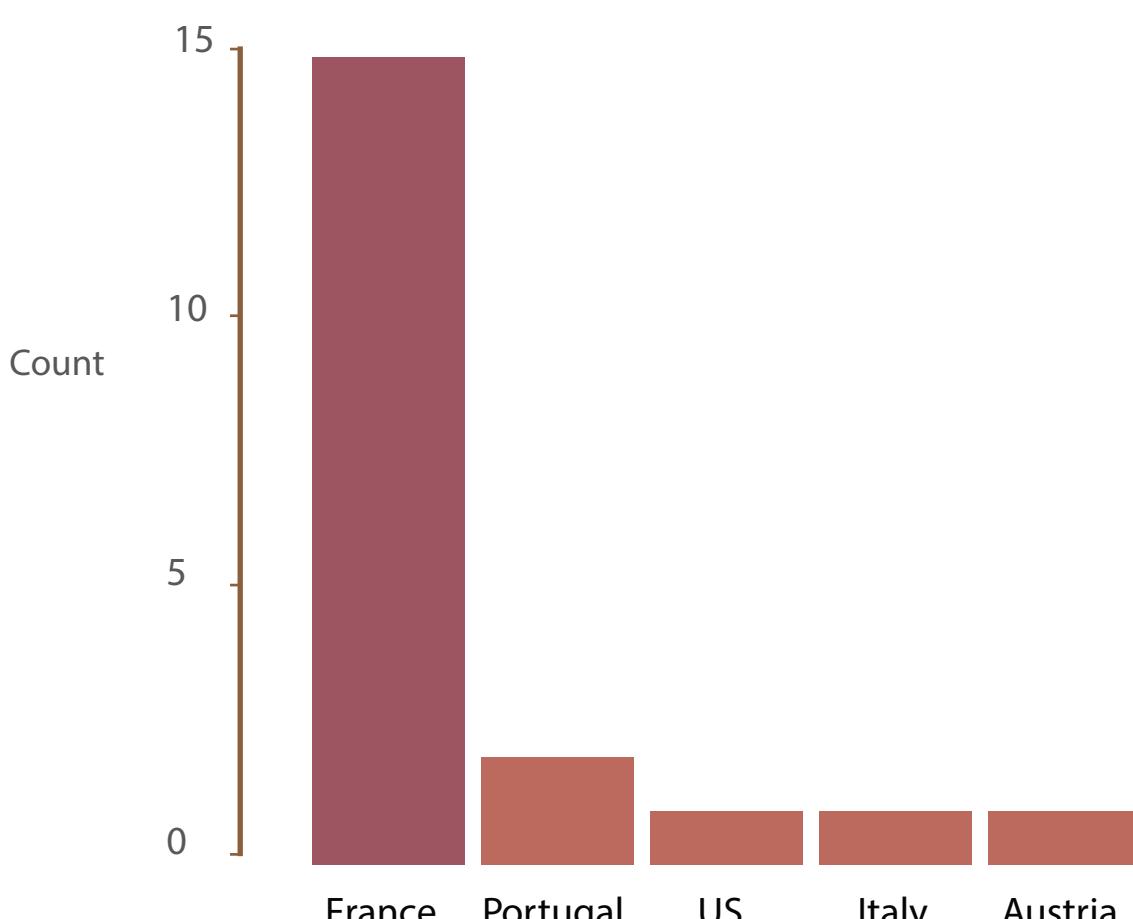
USA, France and Italy are the top three countries that produce the largest amount of high quality wines, which are evaluated above 95 points out of 100 points

### Largest wine production country



The above chart demonstrates the top 10 largest wine production countries and their market segments in the world. Even though the top one country is US, the Europe countries are still a very important part in the world wine market.

### Which countries makes costly wines?



From the analysis of the best points wines - country wise, and the analysis of the most costly wines country. It is easy to conclude that the wines from the below countries are good choice for buying high quality wine with a costly price: France, Portugal, US, Italy, and Austria

### Top high quality winery (with points >= 93) with its average price

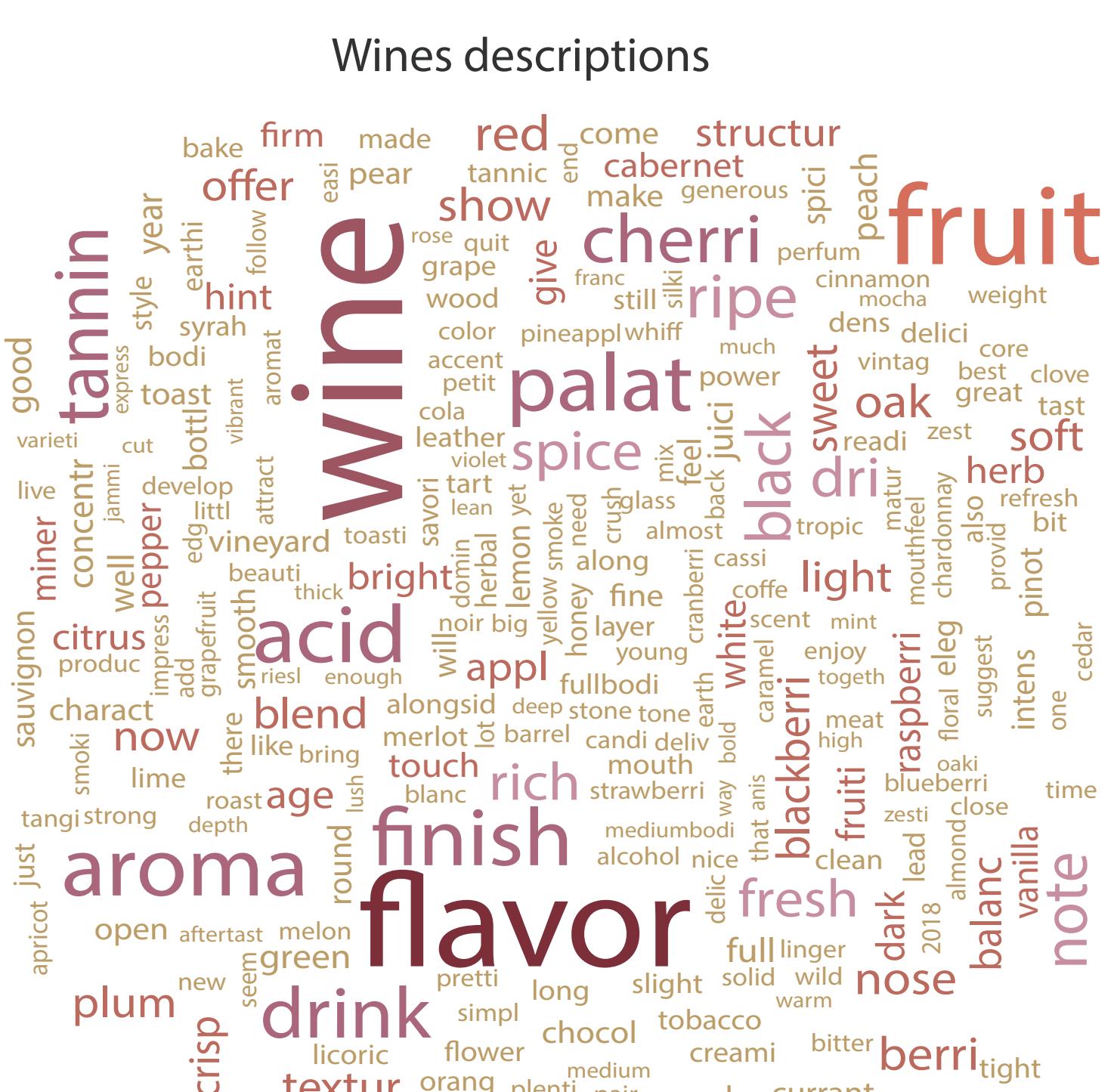


The following wineries are recommended wineries for customers and sellers to find high quality wines

### Wine tester that give most number of high points to wines



Those testers give most number of high points to wines. People could go to these tester's website or twitters to find the high-quality wines



Wines are mostly described by flavor, fruit, tannin, acid, aroma, palate, and texture. The above picture also addresses that customer and wine producer are focused on the taste, aroma, finish and feeling related to the mouthfeel.