4898

Wine type records

#### octeet wille type

white w

6497

## Variables that influence both red and white wines:

Fixed acidity: influences taste, pH, and overall wine life

Volatile acidity: refers to steam-distillable acids.

Citric acid: provides a certain freshness to the wine.

**Residual sugar:** the amount of sugar that could not be fermented.

Chlorides: mineral salts in the wine.

**Free sulfur dioxide:** a powerful antimicrobial agent.

**Total sulfur dioxide:** used as a preservative, antioxidant, and antiseptic.

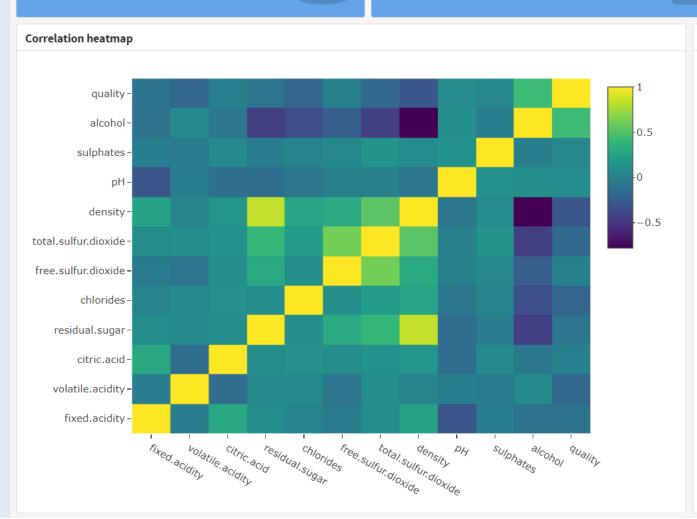
**Density:** also known as "specific gravity," an analytical parameter of wine.

**pH:** a measure of acidity or alkalinity in an aqueous solution.

**Sulphates:** another preservative, antimicrobial, and antioxidant.

**Alcohol:** being wine a fermented beverage, it has an alcohol content.

Quality: a rating reflecting the overall quality of the wine.



#### Quality correlation and p-value

Average quality

Statistically significant if p\_value < 0.05

5.9

correlation p\_value fixed.acidity -0.110.00 volatile.acidity -0.190.00 citric.acid -0.01 0.54 residual.sugar 0.00 -0.10chlorides 0.00 -0.21free.sulfur.dioxide 0.01 0.57 total.sulfur.dioxide -0.170.00 density -0.31 0.00 pН 0.07 0.00 sulphates 0.05 0.00 alcohol 0.44 0.00 quality 1.00 0.00

## Sample size:

2138

# Variables that influence wines' quality:

**Fixed acidity:** influences taste, pH, and overall wine life.

Volatile acidity: refers to steam-distillable acids.

Citric acid: provides a certain freshness to the wine.

**Residual sugar:** the amount of sugar that could not be fermented.

Chlorides: mineral salts in the wine.

Free sulfur dioxide: a powerful antimicrobial agent.

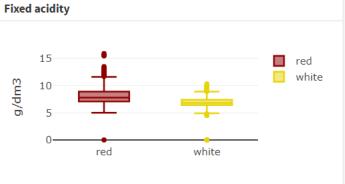
**Total sulfur dioxide:** used as a preservative, antioxidant, and antiseptic.

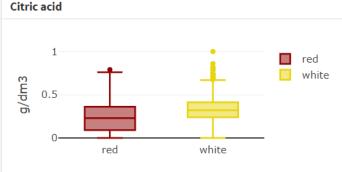
**Density:** also known as "specific gravity," an analytical parameter of wine.

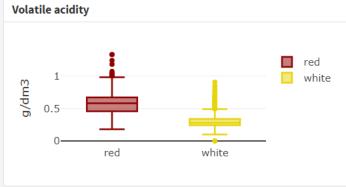
pH: a measure of acidity or alkalinity in an aqueous solution.

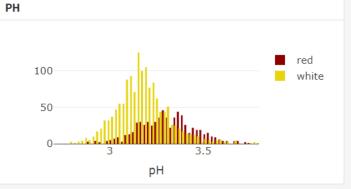
**Sulphates:** another preservative, antimicrobial, and antioxidant.

**Alcohol:** being wine a fermented beverage, it has an alcohol content.

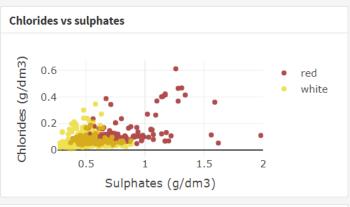


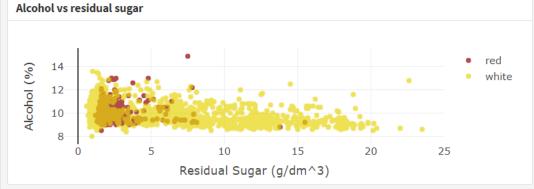


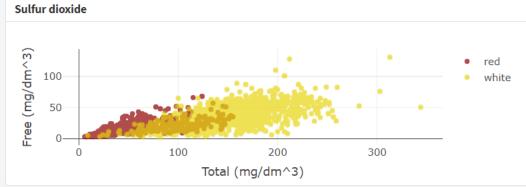












# 6 9

#### Sample size:

2836

# Variables that influence wines' quality:

**Fixed acidity:** influences taste, pH, and overall wine life.

Volatile acidity: refers to steam-distillable acids.

Citric acid: provides a certain freshness to the

Residual sugar: the amount of sugar that could not be fermented.

Chlorides: mineral salts in the wine.

**Free sulfur dioxide:** a powerful antimicrobial agent.

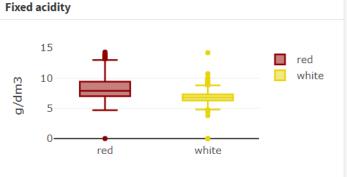
**Total sulfur dioxide:** used as a preservative, antioxidant, and antiseptic.

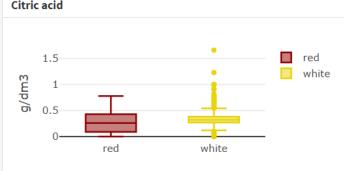
**Density:** also known as "specific gravity," an analytical parameter of wine.

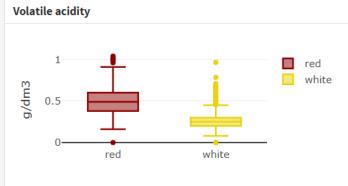
pH: a measure of acidity or alkalinity in an aqueous solution.

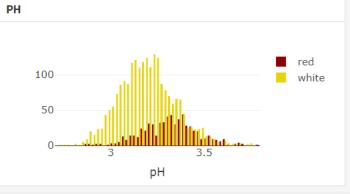
**Sulphates:** another preservative, antimicrobial, and antioxidant.

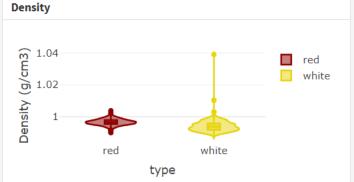
**Alcohol:** being wine a fermented beverage, it has an alcohol content.

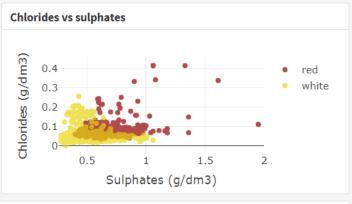


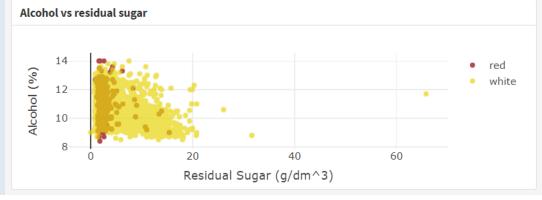


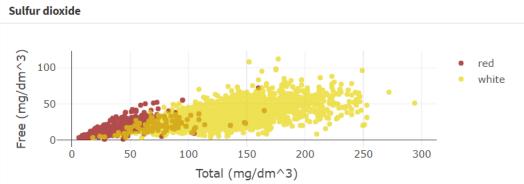










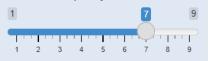


### **Decoding Wine Quality**

**Variables Correlations** 

Variables Analysis

#### Select wine quality:



#### Sample size:

1079

#### Variables that influence wines' quality:

Fixed acidity: influences taste, pH, and overall wine life.

Volatile acidity: refers to steam-distillable acids. Citric acid: provides a certain freshness to the

Residual sugar: the amount of sugar that could not be fermented.

Chlorides: mineral salts in the wine.

Free sulfur dioxide: a powerful antimicrobial

Total sulfur dioxide: used as a preservative, antioxidant, and antiseptic.

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