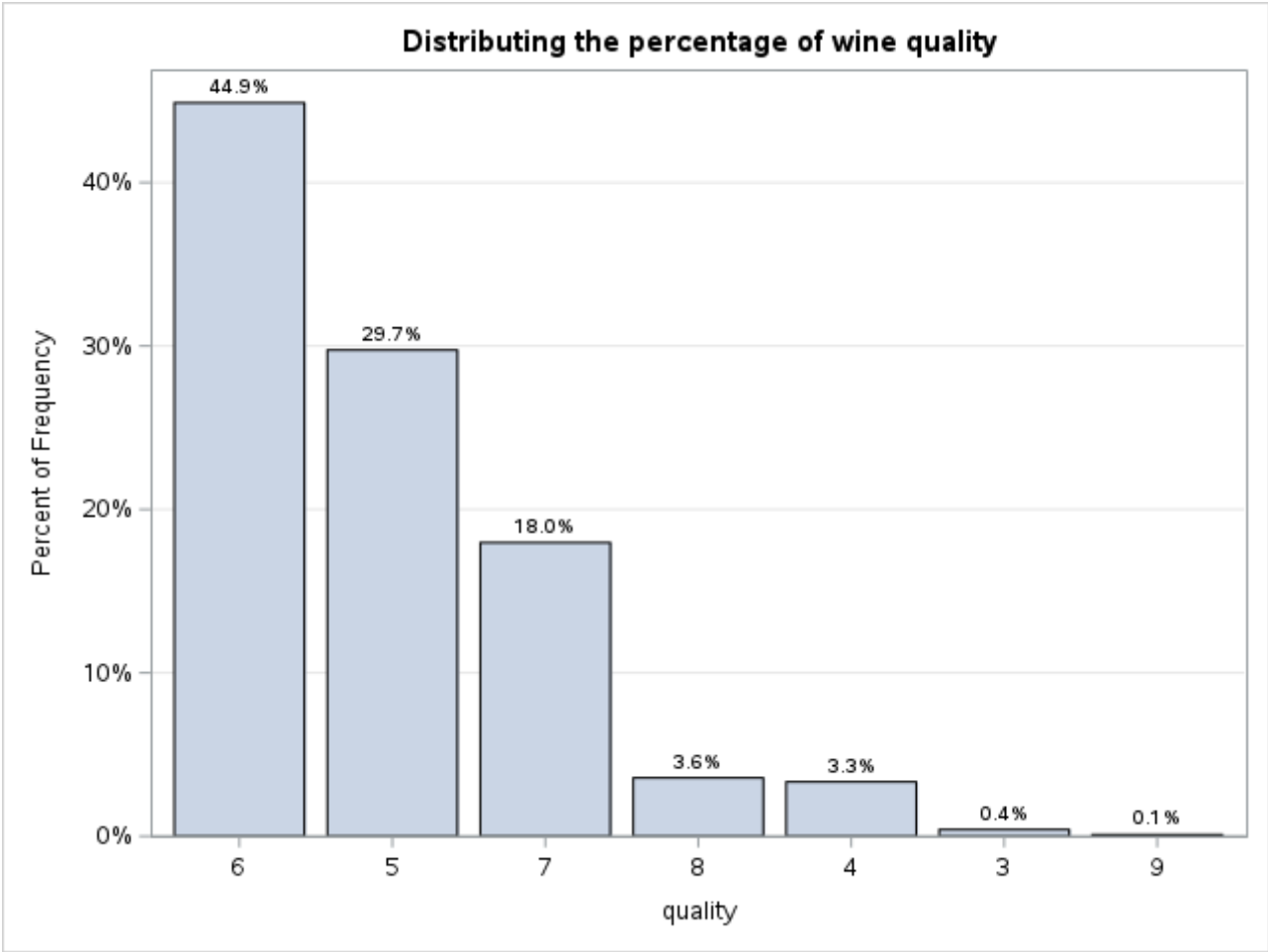


The MEANS Procedure

| Variable | N Miss | N |
|----------------------|--------|------|
| fixed acidity | 0 | 4898 |
| volatile acidity | 0 | 4898 |
| citric acid | 0 | 4898 |
| residual sugar | 0 | 4898 |
| chlorides | 0 | 4898 |
| free sulfur dioxide | 0 | 4898 |
| total sulfur dioxide | 0 | 4898 |
| density | 0 | 4898 |
| pH | 0 | 4898 |
| sulphates | 0 | 4898 |
| alcohol | 0 | 4898 |
| quality | 0 | 4898 |

The MEANS Procedure

| Variable | N | Mean | Std Dev | Minimum | Maximum |
|----------------------|------|-------------|------------|-----------|-------------|
| fixed acidity | 4898 | 6.8547877 | 0.8438682 | 3.8000000 | 14.2000000 |
| volatile acidity | 4898 | 0.2782411 | 0.1007945 | 0.0800000 | 1.1000000 |
| citric acid | 4898 | 0.3341915 | 0.1210198 | 0 | 1.6600000 |
| residual sugar | 4898 | 6.3914149 | 5.0720578 | 0.6000000 | 65.8000000 |
| chlorides | 4898 | 0.0457724 | 0.0218480 | 0.0090000 | 0.3460000 |
| free sulfur dioxide | 4898 | 35.3080849 | 17.0071373 | 2.0000000 | 289.0000000 |
| total sulfur dioxide | 4898 | 138.3606574 | 42.4980646 | 9.0000000 | 440.0000000 |
| density | 4898 | 0.9940274 | 0.0029909 | 0.9871100 | 1.0389800 |
| pH | 4898 | 3.1882666 | 0.1510006 | 2.7200000 | 3.8200000 |
| sulphates | 4898 | 0.4898469 | 0.1141258 | 0.2200000 | 1.0800000 |
| alcohol | 4898 | 10.5142670 | 1.2306206 | 8.0000000 | 14.2000000 |
| quality | 4898 | 5.8779094 | 0.8856386 | 3.0000000 | 9.0000000 |



Distributing the percentage of wine quality

The CORR Procedure

| | |
|-------------------|---|
| 1 With Variables: | quality |
| 11 Variables: | residual sugar volatile acidity alcohol sulphates fixed acidity citric acid chlorides free sulfur dioxide total sulfur dioxide pH density |

| Pearson Correlation Coefficients, N = 4898 | | | | | | | | | | | |
|--|----------------|------------------|---------|-----------|---------------|-------------|-----------|---------------------|----------------------|---------|----------|
| | residual sugar | volatile acidity | alcohol | sulphates | fixed acidity | citric acid | chlorides | free sulfur dioxide | total sulfur dioxide | pH | density |
| quality | -0.09758 | -0.19472 | 0.43557 | 0.05368 | -0.11366 | -0.00921 | -0.20993 | 0.00816 | -0.17474 | 0.09943 | -0.30712 |

