Wine dataset

[Wine - UCI Machine Learning Repository](https://archive.ics.uci.edu/dataset/109/wine)



**Wine**

**Donated on 6/30/1991**

Using chemical analysis to determine the origin of wines

**Dataset Characteristics**

Tabular

**Subject Area**

Physical Science

**Associated Tasks**

Classification

**Feature Type**

Integer, Real

**# Instances**

178

**# Features**

13

**Dataset Information**

**For what purpose was the dataset created?**

test

**Additional Information**

These data are the results of a chemical analysis of wines grown in the same region in Italy but derived from three different cultivars. The analysis determined the quantities of 13 constituents found in each of the three types of wines. I think that the initial data set had around 30 variables, but for some reason I only have the 13 dimensional version. I had a list of what the 30 or so variables were, but a.) I lost it, and b.), I would not know which 13 variables are included in the set. The attributes are (dontated by Riccardo Leardi, riclea@anchem.unige.it ) 1) Alcohol 2) Malic acid 3) Ash 4) Alcalinity of ash 5) Magnesium 6) Total phenols 7) Flavanoids 8) Nonflavanoid phenols 9) Proanthocyanins 10)Color intensity 11)Hue 12)OD280/OD315 of diluted wines 13)Proline In a classification context, this is a well posed problem with "well behaved" class structures. A good data set for first testing of a new classifier, but not very challenging.

SHOW MORE

**Has Missing Values?**

No

**Introductory Paper**

[**Comparative analysis of statistical pattern recognition methods in high dimensional settings**](https://www.semanticscholar.org/paper/83dc3e4030d7b9fbdbb4bde03ce12ab70ca10528)

By S. Aeberhard, D. Coomans, O. Vel. 1994

Published in Pattern Recognition

**Variables Table**

| **Variable Name** | **Role** | **Type** | **Demographic** | **Description** | **Units** | **Missing Values** |
| --- | --- | --- | --- | --- | --- | --- |
| class | Target | Categorical |  |  |  | no |
| Alcohol | Feature | Continuous |  |  |  | no |
| Malicacid | Feature | Continuous |  |  |  | no |
| Ash | Feature | Continuous |  |  |  | no |
| Alcalinity\_of\_ash | Feature | Continuous |  |  |  | no |
| Magnesium | Feature | Integer |  |  |  | no |
| Total\_phenols | Feature | Continuous |  |  |  | no |
| Flavanoids | Feature | Continuous |  |  |  | no |
| Nonflavanoid\_phenols | Feature | Continuous |  |  |  | no |
| Proanthocyanins | Feature | Continuous |  |  |  | no |
| Color\_intensity | Feature | Continuous |  |  |  | no |
| Hue | Feature | Continuous |  |  |  | no |
| 0D280\_0D315\_of\_diluted\_wines | Feature | Continuous |  |  |  | no |
| Proline | Feature | Integer |  |  |  | no |

Rows per page 510152025

0 to 14 of 14

**131 citations**

**171271 views**

**Citation**

Aeberhard,Stefan and Forina,M.. (1991). Wine. UCI Machine Learning Repository. https://doi.org/10.24432/C5PC7J.

**BibTeX**

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**Keywords**

Chemistry

**Creators**

**Stefan Aeberhard**

**M. Forina**

**DOI**

[**10.24432/C5PC7J**](https://doi.org/10.24432/C5PC7J)

**License**

This dataset is licensed under a [Creative Commons Attribution 4.0 International](https://creativecommons.org/licenses/by/4.0/legalcode) (CC BY 4.0) license.

This allows for the sharing and adaptation of the datasets for any purpose, provided that the appropriate credit is given.

**Additional Variable Information**

All attributes are continuous No statistics available, but suggest to standardise variables for certain uses (e.g. for us with classifiers which are NOT scale invariant) NOTE: 1st attribute is class identifier (1-3)

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**Baseline Model Performance**

AccuracyPrecision

**Papers Citing this Dataset**

SORT BYYEAR, DESC

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