

# The Boston Housing Dataset

A Dataset derived from information collected by the U.S. Census Service concerning housing in the area of Boston Mass.



This dataset contains information collected by the U.S Census Service concerning housing in the area of Boston Mass. It was obtained from the StatLib archive (<http://lib.stat.cmu.edu/datasets/boston>), and has been used extensively throughout the literature to benchmark algorithms. However, these comparisons were primarily done outside of **Delve** and are thus somewhat suspect. The dataset is small in size with only 506 cases. The data was originally published by Harrison, D. and Rubinfeld, D.L. 'Hedonic prices and the demand for clean air', J. Environ. Economics & Management, vol.5, 81-102, 1978.

## Dataset Naming

The name for this dataset is simply **Boston**. It has two prototasks: **nox**, in which the nitrous oxide level is to be predicted; and **price**, in which the median value of a home is to be predicted

## Details

There are **13** attributes in each case of the dataset. They are:

- CRIM - per capita crime rate by town
- ZN - proportion of residential land zoned for lots over 25,000 sq.ft.
- INDUS - proportion of non-retail business acres per town.
- CHAS - Charles River dummy variable (1 if tract bounds river; 0 otherwise)
- NOX - nitric oxides concentration (parts per 10 million)
- RM - average number of rooms per dwelling
- AGE - proportion of owner-occupied units built prior to 1940
- DIS - weighted distances to five Boston employment centres
- RAD - index of accessibility to radial highways
- TAX - full-value property-tax rate per \$10,000
- PTRATIO - pupil-teacher ratio by town
- LSTAT - % lower status of the population
- MEDV - Median value of owner-occupied homes in \$1000's