crim zn indus chas

## Min. : 0.00632 Min. : 0.00 Min. : 0.46 Min. :0.00000

## 1st Qu.: 0.08204 1st Qu.: 0.00 1st Qu.: 5.19 1st Qu.:0.00000

## Median : 0.25651 Median : 0.00 Median : 9.69 Median :0.00000

## Mean : 3.61352 Mean : 11.36 Mean :11.14 Mean :0.06917

## 3rd Qu.: 3.67708 3rd Qu.: 12.50 3rd Qu.:18.10 3rd Qu.:0.00000

## Max. :88.97620 Max. :100.00 Max. :27.74 Max. :1.00000

## nox rm age dis

## Min. :0.3850 Min. :3.561 Min. : 2.90 Min. : 1.130

## 1st Qu.:0.4490 1st Qu.:5.886 1st Qu.: 45.02 1st Qu.: 2.100

## Median :0.5380 Median :6.208 Median : 77.50 Median : 3.207

## Mean :0.5547 Mean :6.285 Mean : 68.57 Mean : 3.795

## 3rd Qu.:0.6240 3rd Qu.:6.623 3rd Qu.: 94.08 3rd Qu.: 5.188

## Max. :0.8710 Max. :8.780 Max. :100.00 Max. :12.127

## rad tax ptratio black

## Min. : 1.000 Min. :187.0 Min. :12.60 Min. : 0.32

## 1st Qu.: 4.000 1st Qu.:279.0 1st Qu.:17.40 1st Qu.:375.38

## Median : 5.000 Median :330.0 Median :19.05 Median :391.44

## Mean : 9.549 Mean :408.2 Mean :18.46 Mean :356.67

## 3rd Qu.:24.000 3rd Qu.:666.0 3rd Qu.:20.20 3rd Qu.:396.23

## Max. :24.000 Max. :711.0 Max. :22.00 Max. :396.90

## lstat medv

## Min. : 1.73 Min. : 5.00

## 1st Qu.: 6.95 1st Qu.:17.02

## Median :11.36 Median :21.20

## Mean :12.65 Mean :22.53

## 3rd Qu.:16.95 3rd Qu.:25.00

## Max. :37.97 Max. :50.00

Highest correlations between indus and nox

And between tax and rad and tax and indus

Nitrogen oxide levels as well as tax levels are highest near industrial areas

 Average number of rooms has the highest positive correlation, while pupil-teacher ratio and lstat have the highest negative correlations.

 the predictors that are not statistically significant can be removed from the model. These are indus, age, and zn. Moreover, for the purpose of this report, the variables tax and rad are not of interest, since they are highly correlated with proximity to industries which itself is not significant.