Example of Regression Analysis Using the Boston Housing Data Set (../Data/housing-dscr.txt).

In [1]:
```
from sklearn.cross_validation import KFold
from sklearn.linear_model import LinearRegression, Lasso, Ridge, ElasticNet, SGDRegressor
import numpy as np
import pylab as pl
```

In [ ]:
```
from sklearn.datasets import load_boston
boston = load_boston()
```

In [79]:
```
print boston.feature_names
```

```
['CRIM' 'ZN' 'INDUS' 'CHAS' 'NOX' 'RM' 'AGE' 'DIS' 'RAD' 'TAX' 'PTRATIO' 'B' 'LSTAT']
```

In [80]:
```
print boston.data.shape
print boston.target.shape
```

```
(506L, 13L)
(506L,)
```

In [21]:
```
np.set_printoptions(precision=2, linewidth=120, suppress=True, edgeitems=4)
```

In [23]:
```
print boston.data
```

```
[[   0.01   18.      2.31    0.   ...,  296.     15.3   396.9     4.98]
 [   0.03    0.      7.07    0.   ...,  242.     17.8   396.9     9.14]
 [   0.03    0.      7.07    0.   ...,  242.     17.8   392.83    4.03]
 [   0.03    0.      2.18    0.   ...,  222.     18.7   394.63    2.94]
 ...,
 [   0.05    0.     11.93    0.   ...,  273.     21.    396.9     9.08]
 [   0.06    0.     11.93    0.   ...,  273.     21.    396.9     5.64]
 [   0.11    0.     11.93    0.   ...,  273.     21.    393.45    6.48]
 [   0.05    0.     11.93    0.   ...,  273.     21.    396.9     7.88]]
```