

# Project: Linear Regression

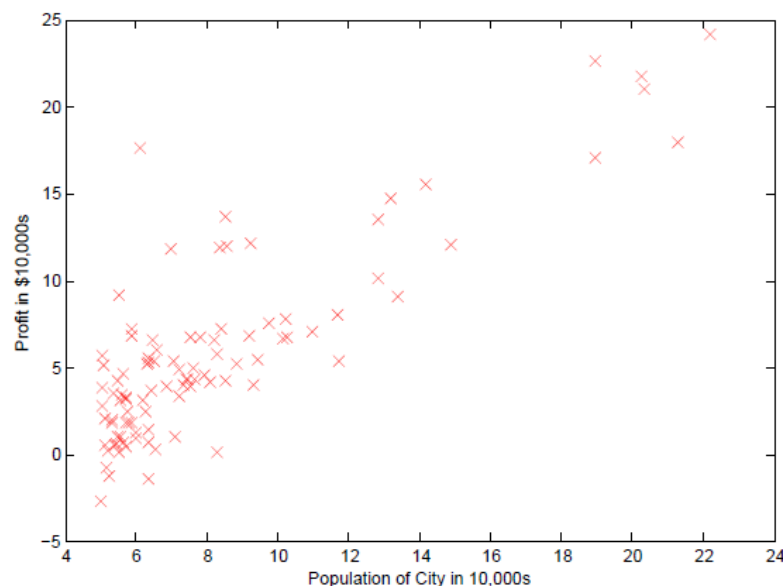
## Brief and requirement

- Project materials including writeup template **homework1.zip**.
- Required files: README( project-template), code, data
- The report is written in Chinese.

## Details about the Code

1. ex1.m - Matlab script that will help step you through the exercise
2. ex1\_multi.m - Matlab script for the later parts of the exercise
3. plotData.m - Function to display the dataset

For the dataset, you can use a scatter plot to visualize the data, since it has only two properties to plot (profit and population)



4. computeCost.m - Function to compute the cost of linear regression
5. gradientDescent.m - Function to run gradient descent
6. computeCostMulti.m - Cost function for multiple variables
7. gradientDescentMulti.m - Gradient descent for multiple variables
8. featureNormalize.m - Function to normalize features
9. normalEqn.m - Function to compute the normal equations

Throughout the exercise, you will be using the scripts `ex1.m` and `ex1_multi.m`. These scripts set up the dataset for the problems and make calls to functions that you will write. You do not need to modify either of them. You are only required to modify functions in other files, by following the instructions in this assignment.

## Data

`ex1data1.txt` - Dataset for linear regression with one variable

`ex1data2.txt` - Dataset for linear regression with multiple variables

template:

**题目：**

姓名 学号

1. 实现功能简介
2. 具体编写代码及结果展示以及代码功能描述
3. 小结（包括通过本内容的认识以及其他）