MLclass: an R package implementing Machine Learning algorithms presented in Stanford ML-class

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1 Linear Regression with one variable

```
> data(ex1data1)
> theta <- c(0,0)
> linReg <- gradDescent(X, y, theta, alpha=0.01, max.iter=1500)
> getTheta(linReg)
```

```
          [,1]     [,2]
[1,] -3.630291 1.166362
```

2 Session Information

The version number of R and packages loaded for generating the vignette were:

```
R version 2.14.0 (2011-10-31)
Platform: i686-pc-linux-gnu (32-bit)

locale:
 [1] LC_CTYPE=en_US.UTF-8       LC_NUMERIC=C
 [3] LC_TIME=en_US.UTF-8        LC_COLLATE=C
 [5] LC_MONETARY=en_US.UTF-8    LC_MESSAGES=en_US.UTF-8
 [7] LC_PAPER=C                 LC_NAME=C
 [9] LC_ADDRESS=C               LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C

attached base packages:
[1] grid      stats     graphics  grDevices utils
[6] datasets  methods   base

other attached packages:
[1] MLclass_0.1.2 ggplot2_0.8.9 proto_0.3-9.2 reshape_0.8.4
[5] plyr_1.6

loaded via a namespace (and not attached):
[1] tools_2.14.0
```

```
> plot(linReg)
```

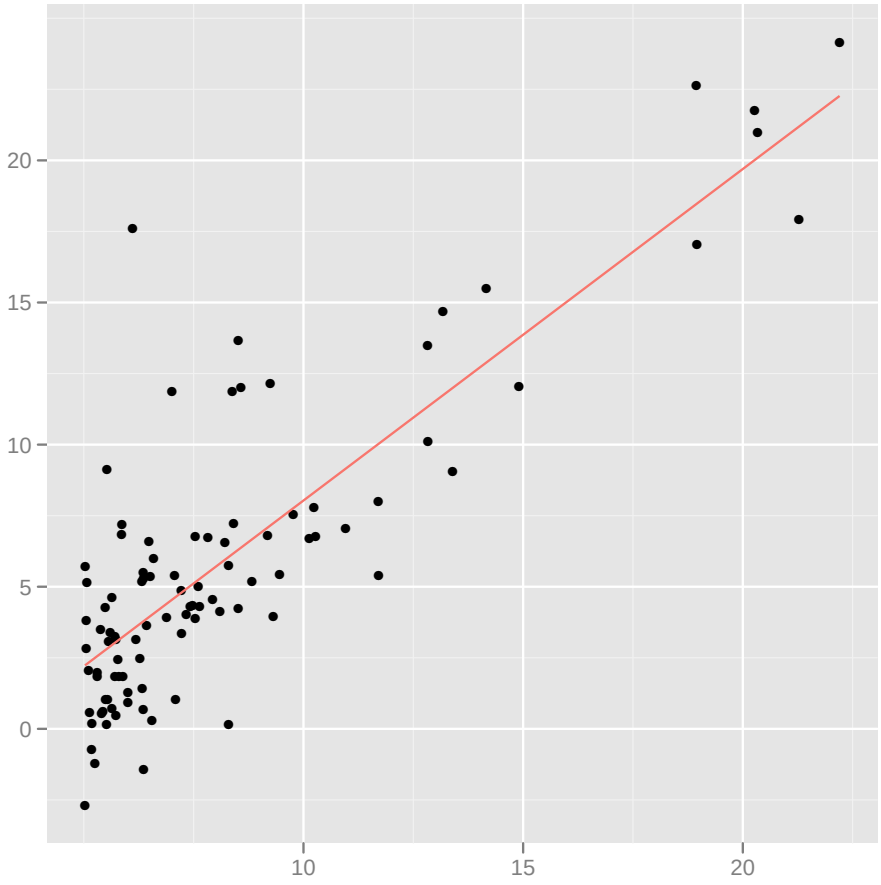

Figure 1: Linear Regression with One Variable