Logistic Regression Model on R analysis

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Filename: 1RM.Rnw

Working directory: /Users/RickyLim/Dropbox/LearnR/theArtOfR/logisticsRegressionModel_abalone

1 Data Loading

```
abalone <- read.csv("input/Abalone.data", header = F)
head(abalone)
    V1
           V2
                VЗ
                      V4
                              V5
                                    V6
                                            ۷7
## 1 M 0.455 0.365 0.095 0.5140 0.2245 0.1010 0.150 15
## 2 M 0.350 0.265 0.090 0.2255 0.0995 0.0485 0.070 7
## 3 F 0.530 0.420 0.135 0.6770 0.2565 0.1415 0.210 9
## 4 M 0.440 0.365 0.125 0.5160 0.2155 0.1140 0.155 10
## 5 I 0.330 0.255 0.080 0.2050 0.0895 0.0395 0.055 7
## 6 I 0.425 0.300 0.095 0.3515 0.1410 0.0775 0.120 8
# exclude infants
abamf <- abalone[abalone[, 1] != "I", ]
```

2 Logistic regression

The eight explanatory variables are used to predict the male/female

3 Metainfo

```
## R version 2.15.1 (2012-06-22)
## Platform: x86_64-apple-darwin9.8.0/x86_64 (64-bit)
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/c/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats graphics grDevices utils datasets methods base
##
## other attached packages:
## [1] codetools_0.2-8 knitr_1.1 vimcom_0.9-7 setwidth_1.0-3
##
## loaded via a namespace (and not attached):
## [1] digest_0.6.3 evaluate_0.4.3 formatR_0.7 stringr_0.6.2 tools_2.15.1
```

```
library(knitr)
knit("1RM.Rnw") # compile to tex

## Error: duplicated label 'setup'
purl("1RM.Rnw", documentation = 0) # extract R code only
knit2pdf("1RM.Rnw")

## Error: duplicated label 'setup'
```