houses

David Puelz

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R Markdown

{r} # data = read.csv('nbeer.csv') # fit = lm(nbeer~weight,data) # summary(fit) #

{r} # data = read.table("SalaryData.txt",header=T) # Sex = (data$Gender=="Male") # data$Sex = Sex # fit = lm(Salary~Sex,data) # coef(fit)[2] # regression coefficient # # DiM = mean(data$Salary[Sex== - mean(data$Salary[Sex==0]) # DiM # what is this? #

```
data = read.table("SalaryData.txt",header=T)
Sex = (data$Gender=="Male")
data$Sex = Sex
Exp = 95-data$YrHired
data$Exp = Exp
data$ExpSex = Exp*Sex
fit = lm(Salary~Sex+Exp+ExpSex,data)
summary(fit)
```

```
##
## Call:
## lm(formula = Salary ~ Sex + Exp + ExpSex, data = data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -20.0685  -4.6506  -0.7679   4.4034  23.9122
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept)  34.5283     1.1380  30.342  < 2e-16 ***
## SexTRUE      -4.0983     1.6658  -2.460  0.01472 *
## Exp           0.2800     0.1025   2.733  0.00684 **
## ExpSex        1.2478     0.1367   9.130  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 6.816 on 204 degrees of freedom
## Multiple R-squared:  0.6386, Adjusted R-squared:  0.6333
## F-statistic: 120.2 on 3 and 204 DF,  p-value: < 2.2e-16
```

```
# data = read.csv("MidCity.csv")
#
# data$Price = data$Price/1000
# data$SqFt = data$SqFt/1000
# dn1 = as.integer(data$Nbhd==1)
# dn2 = as.integer(data$Nbhd==2)
# dn3 = as.integer(data$Nbhd==3)
# data$dn1 = dn1
# data$dn2 = dn2
# data$dn3 = dn3
#
# fit = lm(Price~SqFt,data)
# summary(fit)
```