

## Introductory Econometrics: Tutorial 3

Again, we use the data `collegetown.csv` in this tutorial, which contains observations on 500 single-family houses sold in Baton Rouge, Louisiana, during 2009-2013. The data include sale price in thousands of dollars (`PRICE`), and total interior area of the house in hundreds of square feet (`SQFT`).

### Question 1

Estimate the following linear regression model

$$\text{PRICE} = \beta_1 + \beta_2 \text{SQFT} + \epsilon, \quad (1)$$

and summarize the estimation results using `summ()`. Keep 4 decimals in your output.

**Hint:** You need to install the `jtools` package before invoking `summ()`.

**Solution:**

Again, set the working directory first. For example, I have

```
setwd("~/Users/bpen0011/Dropbox/Teaching/2021/ETF_2100_New/Tutorials/Week_3/")
```

We run the OLS regression as follows.

```
library(jtools)
Collegetown <- read.csv('collegetown.csv')
Results1 <- lm(price ~ sqft, data = Collegetown)
summ(Results1, model.info = FALSE, digits = 4)

## MODEL FIT:
## F(1,498) = 890.4114, p = 0.0000
## R² = 0.6413
## Adj. R² = 0.6406
##
## Standard errors: OLS
## -----
##               Est.      S.E.    t val.      p
## -----
## (Intercept)   -115.4236   13.0882   -8.8189   0.0000
## sqft           13.4029    0.4492   29.8398   0.0000
## -----
```

# Answer Study Guide Intro To Econometrics

**S Ben Porath**



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